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Dear Mr. Kieling

Holloman Air Force Base is pleased to submit the Final RCRA Facility Investigation Report Group 3 – Building 1113 (TU/US-C501) for your review.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at at (575) 572-3931 or by e-mail at deanna.rothhaupt@holloman.af.mil.

Sincerely

DEANNA ROTHHAUPT, GS-12, DAF

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Contract No.FA8903-09-D-8580 Task Order No. 0013

For: Review ____ ***As Requested*** ____ ***Approval*** ____ ***Corrections*** ____ ***Submittal*** ___X___ ***Other*** ____

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Please call with questions or comments. Thank you.

Sincerely:

Christopher Long
Technical Lead

PC: DeAnna Rothhaupt – Holloman AFB (4 hard copies)

Final

RCRA Facility Investigation Report

Group 3 – Building 1113 (TU/US-C501)
Holloman Air Force Base, New Mexico

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Acronyms and Abbreviations

AFB	Air Force Base
bgs	below ground surface
DPT	direct push technology
DRO	diesel range organics
EPA	U.S. Environmental Protection Agency
ft	feet (foot)
GRO	gasoline range organics
IDW	investigation-derived waste
MDL	method detection limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
ORO	oil range organics
PID	photoionization detector
ppm	parts per million
QPP	Quality Program Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RSL	Regional Screening Level
Shaw	Shaw Environmental & Infrastructure, Inc. (a CB&I company)
SSL	soil screening level
SVOC	semivolatile organic compound
TAL	target analyte list
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound

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1.0 INTRODUCTION

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report has been prepared by Shaw Environmental & Infrastructure, Inc. (Shaw) (a CB&I Company) for the Air Force Civil Engineer Center (formerly Air Force Center for Engineering and the Environment) under Contract No. FA8903-09-D-8580, Task Order No. 0013, Modification 01. This report presents the results from the investigation of the former underground storage tank (UST) located at former Building 1113 (TU/US-C501) at Holloman Air Force Base (AFB), New Mexico, which was one of the Group 3 UST sites under the Midwestern Region Performance-Based Remediation Contract. This RFI Report has been prepared pursuant to the requirements of the Holloman AFB Hazardous Waste Facility RCRA Permit Number NM6572124422 (the Permit) (New Mexico Environment Department [NMED], 2004). The RFI was implemented to determine the nature and extent of contamination at the site and to propose recommendations for additional corrective action.

Holloman AFB is situated in south-central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Figure 1-1). The nine Group 3 former UST sites are located throughout Holloman AFB as shown on Figure 1-2. Generally, the former USTs are positioned adjacent to a building and are named in reference to its most proximal building (Building 300 [TU/US-C500], Building 1113 [TU/US-C501], Building 221 [TU/US-C503], Building 301 [TU/US-C504], Building 1097 [TU/US-C505], Building 901 [TU/US-C506], Building 298 [TU/US-C508], and Building 898 [TU/US-C513]) with the exception of UST 7003 (TU/US-C518).

Closure records for the Building 1113 UST indicate that one 250-gallon diesel UST, constructed of steel and estimated to be in place for 15 years, was removed from former Building 1113 (former radar relay facility) in 1996. The UST reportedly had been used for diesel fuel storage prior to closure. According to the records, there was no internal tank protection, and the exterior of the UST was paint covered. The associated piping was made of copper. Records indicated no evidence of a leak or spill.

Excavation and removal of the UST was conducted in March 1996. The first sampling of soil from the floor and walls of the excavation (five samples) was performed on March 18, 1996 after the removal of the UST. The analytical results revealed the presence of total petroleum hydrocarbon (TPH)-diesel range organics (DRO) in concentrations ranging from 2,390 milligrams per kilogram (mg/kg) to 11,400 mg/kg. After additional removal of soil, the second sampling resulted in four of the five samples with TPH-DRO concentrations ranging from 2,500 mg/kg to 9,060 mg/kg, with one sample non-detect (east wall). Following a third soil removal effort and subsequent sampling, analytical results for an additional five post-

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excavation soil samples showed TPH-DRO levels ranging from 2,700 mg/kg to 4,400 mg/kg in four of the five samples. One of the five soil samples had no detection of TPH-DRO (east wall). None of the samples from the three rounds of sampling had detections of other TPH species such as gasoline range organics (GRO) or oil range organics (ORO). Appendix A contains the site historical records pertaining to tank closure for UST TU/US-C501 at former Building 1113. Note that the site sketches within the historical record file provided in Appendix A are oriented such that the north direction is toward the bottom of the sketch as discerned by site features (i.e., north arrow is not indicated on the sketches). The site figures generated for this report are oriented with the north direction toward the top of the page.

1.1 Purpose of the Investigation

The objectives of this RFI were to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater (including pathways to groundwater), evaluate potential risks to human health and the environment, and to recommend additional remedial measures.

1.2 Scope of Activities

The scope of the work activities conducted to meet the objectives of the RFI included:

- Gather and review available site historical information
- Identify the location of the former UST using subsurface geophysical methods
- Collect subsurface soil samples using direct push technology (DPT)
- Install monitoring wells and collect groundwater samples
- Manage investigation-derived waste (IDW)
- Conduct land surveying of soil borings and the UST excavation area
- Validate the analytical data and evaluate the nature and extent of constituents of potential concern in the soil
- Perform human health risk assessment and ecological evaluations
- Recommend further corrective action as warranted.

The RFI work was conducted in accordance with the *Final RCRA Facility Investigation Work Plan, Group 3, Nine Former UST Sites* (Shaw, 2012a). The tasks described in this report were performed in accordance with the Quality Program Plan (QPP) (Shaw, 2012b). The QPP also contains the Site Safety and Health Plan and the Construction Quality Plan. The Uniform Federal Policy-Sampling and Analysis Plan/Quality Assurance Project Plan presented in the QPP established the analytical and data collection protocols and

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documentation requirements necessary to ensure data are generated, reviewed, and analyzed in a consistent manner. The Uniform Federal Policy–Quality Assurance Project Plan was prepared in accordance with the *Uniform Federal Policy for Quality Assurance Project Plans: Evaluating, Assessing, and Documenting Environmental Collection and Use Programs Part 2A: Uniform Federal Policy - Quality Assurance Project Plans Workbook* (Intergovernmental Data Quality Task Force, 2005) and, as presented in the QPP, was utilized to establish the overarching analytical and data collection protocols and documentation requirements needed to ensure data were generated, reviewed, and analyzed in a consistent manner.

1.3 Regulatory Setting

The Permit (NMED, 2004) establishes the general and specific standards and activities for managing hazardous waste, pursuant to Subtitle C of RCRA, the New Mexico Hazardous Waste Act, and the New Mexico Hazardous Waste Management Regulations. The Permit also sets forth requirements for investigation, notification, corrective action, and reporting for the storage, management, and releases of hazardous wastes. Because NMED has primary regulatory responsibility, investigation must be performed under Title 20 New Mexico Administrative Code (NMAC).

This RFI was based on the action/cleanup levels stipulated in the Permit to be protective of human health and the environment. The Permit specifies the use of the NMED residential soil screening levels (SSL), as presented in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a), and the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSL) (EPA, 2012a), when a NMED SSL has not been established. Holloman AFB also has NMED-approved background concentrations for metals in soil (NMED, 2012b).

For groundwater, the Permit specifies that the more stringent value of either the New Mexico Water Quality Control Commission water quality standards (20.6.2 NMAC) or the EPA maximum contaminant levels for drinking water be used for comparison with measured sample concentrations (EPA, 2012b).

1.4 RFI Report Organization

The remainder of this RFI Report is organized as follows:

- **Section 2.0 Environmental Setting**: Provides descriptions of location, history physiography, topography, surface water, hydrology, regional geology, soils, regional hydrogeology, climate, current and future land, and current and future water use for Holloman AFB.

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- **Section 3.0 Source Characterization**: Details the approach for collection of data to meet the project objectives.
- **Section 4.0 Investigation and Evaluation**: Presents the results of the soil and groundwater investigations and the evaluation of results including a comparison of results to regulatory standards and performance of geochemical and risk evaluations.
- **Section 5.0 Data Quality Assurance and Data Quality Control Review**: Summarizes the analytical data validation results.
- **Section 6.0 Conclusions and Recommendations**: Includes a summary of findings, conclusions based on the findings, and recommendations toward corrective action completion.
- **Section 7.0 References**: Contains the list of references pertinent to this document.

In addition to the figures and tables listed in the table of contents, the following appendices are included in this report:

- **Appendix A** – Historical Records
- **Appendix B** – Geophysical Report
- **Appendix C** – Soil Boring Logs
- **Appendix D** – Photographic Documentation
- **Appendix E** – Sample Collection Logs
- **Appendix F –** Waste Manifests
- **Appendix G –** Land Survey Data
- **Appendix H –** Laboratory Analytical Data Packages and Data Validation Checklists
- **Appendix I –** Geochemical Evaluation of Arsenic in Soil.

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2.0 ENVIRONMENTAL SETTING

This section provides background information for Holloman AFB including physical setting, history, topography, climate, soils, geology, hydrology, and land and water use.

2.1 Physical Setting

Holloman AFB is situated in south central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Figure 2-1). Holloman AFB has a population of 6,000 and occupies 59,639 acres in the northeast quarter of Section 1, Township 17 South, Range 8 East. The White Sands Missile Range testing facilities occupy additional land extending northward from the base. Private and public owned lands border the remainder of Holloman AFB. The major highway servicing Holloman AFB is Highway 70, which runs southwest from the town of Alamogordo, New Mexico and separates Holloman AFB from publicly owned lands to the south. Alamogordo, New Mexico, which has a population of 30,401 according to the 2010 U.S. Census, is located approximately 7 miles east of the base.

2.2 Holloman AFB History

Holloman AFB was first established in 1942 as Alamogordo Army Air Field. From 1942 through 1945, Alamogordo Army Air Field served as the training grounds for over 20 different flight groups, flying primarily B-17s, B-24s, and B-29s. After World War II, most operations had ceased at the base. In 1947, Air Material Command announced the air field would be its primary site for the testing and development of unmanned aircraft, guided missiles, and other research programs. On January 13, 1948, the Alamogordo installation was renamed in honor of the late Colonel George V. Holloman, a pioneer in guided missile research. In 1968, the 49th Tactical Fighter Wing arrived at Holloman AFB and has remained since. Today, Holloman AFB also serves as the training center for the German Air Force's Tactical Training Center.

2.3 Physiography and Topography

Holloman AFB is located within the Sacramento Mountains physiographic province on the western edge of the Sacramento Mountains. The base is approximately 59,600 acres in area, and is located at a mean elevation 4,093 feet (ft) above mean sea level. The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. Holloman AFB is within the Tularosa Basin which is part of the Central Closed Basins. The bordering mountains rise abruptly to altitudes of 7,000 to 12,000 ft above mean sea level. The San Andres Mountains bound the basin to the west

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(approximately 30 miles) with the Sacramento Mountains approximately 10 miles to the east (Figure 2-1). At its widest, the basin is approximately 60 miles east to west and stretches approximately 150 miles north to south.

2.4 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature ranges (Western Regional Climate Center, 2013). The climate of the Central Closed Basins varies with elevation. The base is located in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100 degrees Fahrenheit in the summer months and are in the middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid nighttime cooling resulting in average diurnal temperature ranges of 25 to 35 degrees Fahrenheit. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation, usually less than 15 inches. Arid conditions resulting from very low rainfall amounts, coupled with the topographically induced wind patterns combining with the sparse vegetation, tend to cause localized “dust devils.” The annual rainfall for Alamogordo is 12 inches per year. Much of the precipitation falls during the midsummer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating in 30 to 40 percent of the total annual rainfall.

2.5 Regional Geology and Soils

2.5.1 Regional Geology

The sedimentary rocks, which make up the adjacent mountain ranges, are between 250 and 500 million years old (New Mexico Bureau of Geology and Mineral Resources, 2012). During the period when the area was submerged beneath the shallow intra-continental sea, the layers of limestone, shale, gypsum, and sandstone were formed. In time, these layers were pushed upward through various tectonic forces forming a large bulge on the surface. Approximately 10 million years ago the center began to subside resulting in a vertical drop of thousands of ft leaving the edges still standing (the present day Sacramento and San Andres mountain ranges). In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e., Tularosa Basin). Water carrying eroded limestone, dolomite, gravel, and other materials continue to flow into the basin.

As the Tularosa Basin is a bolson-type basin, which is a basin with no surface drainage outlet, sediments carried by surface water into a closed basin are bolson deposits. The overlying alluvium generally consists of unconsolidated gravels, sands, and clays. Soils in the basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite,

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and gypsum. A fining sequence from the ranges towards the basin's center characterizes the area with the near surface soils as alluvial, eolian, and lacustrine deposits. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable due to the reworking of the alluvial sediment by eolian processes. The playa, or lacustrine deposits, consist of clay containing gypsum and are contiguous with the alluvial fan and eolian deposits throughout the base. Stiff caliche layers, varying in thickness, have been identified at different areas of the base.

2.5.2 Soils

The U.S. Natural Resources Conservation Service (formerly Soil Conservation Service) has identified two soil associations in the vicinity of Holloman AFB—the Holloman-Gypsum Land-Yesum Complex and the Mead silty clay loam (Figure 2-2) (U.S. Department of Agriculture, 1981). The permeability of these horizons ranges from 4×10^{-4} to 1×10^{-3} centimeters per second.

The Holloman-Gypsum Land-Yesum Complex (0 to 5 percent sloped soil) consists of larger areas of shallow and deep, well drained soils and areas of exposed gypsum. The Holloman soil makes up approximately 35 percent of the complex. Typically, the surface layer is light brown, very fine sandy loam approximately 3 inches thick. The upper 13 inches of the substratum is pink, very fine sandy loam that is very high in gypsum. Below that, the substratum is white gypsum to a depth of more than 60 inches. This soil is calcareous and mildly alkaline to moderately alkaline throughout. Permeability is moderate, and available water capacity is very low.

Gypsum Land makes up approximately 30 percent of the Holloman-Gypsum Land-Yesum Complex (0 to 5 percent slopes). Typically, less than 1 inch of very fine sandy loam overlies soft to hard, white gypsum. The deeper Yesum horizon consists of very fine sandy loam that makes up approximately 20 percent of the complex. Typically, the surface layer is light brown, very fine sandy loam approximately 3 inches thick. The upper 9 inches of the substratum is light brown, fine sandy loam that is very high in gypsum. Below that, the substratum is pink, very fine sandy loam to a depth of more than 60 inches. The soil is calcareous throughout and is mildly alkaline. Permeability is moderate, and available water capacity is moderate. Many fine gypsum crystals are found throughout the profile.

The soil type found across the main drainage area for the installation is Mead silty clay loam (0 to 1 percent slopes). This deep, poorly drained, nearly level soil is on outer fringes of alluvial fans. This soil formed in fine textured alluvium over lacustrine lake sediment. It is very high in salt content because of periodic flooding and poor drainage. Slopes are smooth and concave. Typically, the surface layer is reddish-brown, silty clay loam and clay loam

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approximately 5 inches thick. The substratum, to a depth of 48 inches, is light reddish-brown clay that has a high content of salt. Below that, the substratum is lacustrine material of variable texture and color to a depth of more than 60 inches. Included within this soil are areas of Holloman soils and Gypsum Land along the margins of the unit of steep, short gully sides and knolls. These inclusions make up approximately 15 percent of the map unit for this soil type. Individual areas are generally smaller than 10 acres. This soil is moderately calcareous throughout and is moderately to strongly alkaline. It has a layer of salt that is more soluble than gypsum. Permeability is very low, and available water capacity is low (U.S. Army Corps of Engineers, 2010).

2.6 Regional Hydrogeology

Groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream runoff along the western edge of the Sacramento Mountains. Surface water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area leaves either through evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath Holloman AFB, groundwater ranges from 5 to 50 ft below ground surface (bgs). Flow for the base is generally towards the southwest with localized influences from the variations in the topography of the base (Figure 2-3). In the northern and western portions of the base, groundwater flows more to the west towards the Ritas Draw, Malone Draw, and Lost River drainages. Groundwater flow is affected by local topography in areas immediately adjacent to arroyos, where groundwater flows directly toward the drainages regardless of the regional flow pattern.

Groundwater quality in the Tularosa Basin is of potable quality at the recharge areas in close proximity to the Sacramento Mountains and becomes increasingly mineralized toward the central portion of the basin and discharge areas. The majority (over 70 percent) of the Environmental Restoration Program sites located across Holloman AFB have groundwater monitoring wells containing water with an average total dissolved solids (TDS) concentration greater than 10,000 milligrams per liter (mg/L). These TDS data support the hypothesis that TDS concentrations below 10,000 mg/L at Holloman AFB are caused by dilution of natural groundwater quality from leaking water lines and surface irrigation from the domestic water supply. TDS concentrations greater than 10,000 mg/L exceed the New Mexico Water Quality Control Commission limit as potable water (20.6.2 NMAC) and thus, the groundwater beneath Holloman AFB has been designated as unfit for human consumption. Likewise, the EPA guidelines have identified the groundwater as a Class IIIB water source, characterized by TDS concentrations exceeding 10,000 mg/L and is also

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characterized by a low degree of interconnection with adjacent surface water or groundwater of a higher class. Groundwater does not discharge or connect to any adjacent aquifers because the Tularosa Basin is a closed basin. Adjacent surface waters include Lost River and Lake Holloman, which also have high concentrations of TDS, and are not considered potential drinking water sources.

2.7 Surface Water and Hydrology

The Tularosa Basin contains all of the surface flow in its boundaries. The nearest inflow of surface waters to Holloman AFB comes from the Lost River, located in the north central region of the base. The upper reaches of the Three Rivers and the Sacramento River are perennial in the basin. Holloman AFB is dissected by several southwest trending arroyos that control the surface drainage. Hay Draw arroyo is located in the far north. Malone and Ritas Draws, which drain into the Lost River and Dillard Draw arroyos, are located along the eastern perimeter of the base. Approximately 10,000 years ago, indications are that a much wetter climate existed. The present day Lake Otero encompassed a much larger area, possibly upwards of several hundred square miles. Its remains are the Alkali Flat and Lake Lucero. Lake Lucero is a temporary feature of merely a few inches in depth during the rainy season.

Ancient lakes and streams deposited water bearing deposits over the older bedrock basement materials. Fractures, cracks, and fissures in the Permian and Pennsylvanian bedrock yield small quantities of relatively good quality water in the deeper peripheral. Potable water is only found in wells near the edges of the basin with more saline water towards the center. Two of the principal sources of potable water are: (1) a long narrow area on the upslope sides of Tularosa and Alamogordo, and (2) in the far southwestern part of the basin. A portion of the city of Alamogordo's water, as well as the Holloman AFB's water, is supplied from Bonito Lake (which is in the Pecos River Basin).

2.8 Current and Future Land Use

The land surrounding Holloman AFB consists of residential areas to the east and northeast (city of Alamogordo, New Mexico), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. The desert terrain of the area immediately surrounding Holloman AFB has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the base. The Boles Well Field, a freshwater source for Holloman AFB, is located approximately 6 miles to the southeast of the base. Holloman AFB is an active military installation and is expected to remain active for the foreseeable future. No transfer of military property to the public is anticipated, and public access to the base is

restricted. Future land use is not expected to differ significantly from current land use practices (Foster Wheeler Environmental Corporation, 2002).

2.9 Current and Future Water Use

At present, Holloman AFB receives approximately 50 percent of its freshwater supply from the Boles Well Field. An additional freshwater resource for Holloman AFB and for the city of Alamogordo is Bonito Lake, located 60 miles northeast of the Tularosa Basin. Currently, there are no potable supplies of groundwater or surface water located on the base because of poor groundwater quality with TDS concentrations greater than 10,000 mg/L.

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3.0 SOURCE CHARACTERIZATION

The section presents the overall technical approach and details the investigative activities that were implemented during the RFI activities at Building 1113. The primary environmental media of concern at this site are soil and groundwater. The extent of contamination in soil was expected to be relatively local to the former UST site location. Therefore, the basic approach was to identify the former UST location using subsurface geophysical methods, and then work outward from the location in identifying contaminated soil. To evaluate the potential impacts to groundwater, monitoring wells were planned for installation in the shallow groundwater zone, upgradient and downgradient of the former UST location. The analytical programs for both soil and groundwater focused on the expected nature of contamination likely to be associated with petroleum product USTs.

The RFI conducted at former UST TU/US-C501 (Building 1113) was initiated as part of the Midwestern Region Performance-Based Remediation Contract. Under the RFI Work Plan (Shaw, 2012a) for this site, field activities included: pre-mobilization and mobilization/site setup activities, geophysical investigation, exploratory borings, soil sample collection and analysis, IDW management, and site surveying.

3.1 Pre-mobilization/Mobilization Activities

Several pre-investigation documents were filed and approvals obtained, as follows:

- Civil Engineer Work Request (Air Force Form 332) approval
- Base digging permits (Air Force Form 103, Base Civil Engineering Work Clearance Request) with utility clearances
- Site security clearances.

Prior to the start of the investigation activities, a pre-investigation kick-off meeting and site walk-through were conducted with the Air Force Civil Engineer Center resident engineer, Holloman AFB personnel, and Shaw's Construction Manager, to plan for equipment access, equipment staging, decontamination area layout, potential site hazards, emergency evacuation routes, and project schedule.

Prior to the submittal of the base digging permits, the drilling locations were delineated using marker flags, stakes, and paint. Utility clearance approvals were completed by the appropriate Holloman AFB utility office (i.e., telephone, sewer, water, natural gas, etc.) and by the New Mexico One Call utility clearance system. Upon receipt of the approved digging permit and utility clearances, Shaw's Construction Manager completed a site walk-through to

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confirm the utility and intrusive work locations. In addition, Shaw performed a site survey prior to the start of drilling activities to search for signs of other buried or overhead utilities.

A decontamination pad was constructed at the designated laydown area for decontamination of all downhole drilling equipment. The drilling rig was decontaminated prior to entering the site. Drilling equipment that came into contact with the borehole was decontaminated by hot-water pressure washing. Disposable equipment used for soil sample collection did not require decontamination.

3.2 Geophysical Investigation

Before the start of intrusive investigation activities, a geophysical investigation was conducted at Building 1113 on June 11, 2012 by ULS Services Corporation, a Shaw subcontractor, to determine the UST's former location and its associated features, and to identify and delineate nearby underground utilities.

The geophysical methods utilized in the performance of this work included: analog real-time electromagnetic induction conductivity detection, magnetic locating, ground penetrating radar, and electromagnetic pipe and cable location. Electromagnetic induction conductivity detection ground induction methods detect broad metal mass anomalies or conductive zones that may be indicative of potential USTs, and lateral changes in conductive zones of soil or backfill materials relative to native soils; ground penetrating radar is utilized to detect former UST excavation sidewalls and fill areas; and the electromagnetic pipe and cable location survey is conducted to detect buried utility lines.

The features identified during the geophysical survey are shown on the site layout and sampling locations drawing for Building 1113 (Figure 3-1). This figure shows the former location of Building 1113 and associated pad, UST excavation area, and nearby underground utilities. The utilities include one communication line that bisects the UST excavation area and six buried utilities of unknown origin. Most of the six unidentified underground utility lineations are located just west of the former building and UST excavation and are trending slightly northeast to southwest.

The geophysical information shown on Figure 3-1 was used to field-select the final borehole locations. A copy of the geophysical report is provided in Appendix B.

3.3 Soil Investigation

The soil investigation at Building 1113 was conducted on July 24, 2012 and July 25, 2012. Soil samples were collected from five soil borings advanced within and around the former UST excavation area. The locations of the soil borings are shown on Figure 3-1.

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DPT was the drilling method used to collect soil samples from the reported locations and depths. Soils were logged in the field in accordance with the Unified Soil Classification System requirements and sample depths were in general accordance with the RFI Work Plan (Shaw, 2012a). Soil samples were collected using disposable sampling equipment (i.e., acetate DPT liners, plastic scoops, and foil pans), placed in the appropriate containers, and kept under chain-of-custody. Soil borings were abandoned by backfilling the borehole with bentonite chips.

Soil boring TU/US-C501-Station 1 was advanced on the southeastern edge, TU/US-C501-Station 2 was placed on the northern edge, TU/US-C501-Station 3 was located in the southern portion, TU/US-C501-Station 4 was completed on the eastern side, and TU/US-C501-Station 5 was placed on the southwestern edge of the UST excavation area.

The soil samples were collected beneath the backfill material from depths below the bottom level of the UST excavation. At soil borings TU/US-C501-Station 1 and TU/US-C501-Station 2, soil samples were collected for laboratory analysis from a depth interval of 24.0 to 25.0 ft bgs. A duplicate soil sample was also collected from this interval in soil boring TU/US-C501-Station 1. At soil boing TU/US-C501-Station 3 one soil sample was collected from a depth interval of 13.0 to 14.0 ft bgs, from soil boring TU/US-C501-Station 4 one soil sample was collected from a depth interval of 18.0 to 19.0 ft bgs, and from soil boring TU/US-C501-Station 5 one soil sample was collected from a depth interval of 14.0 to 15.0 ft bgs. Table 3-1 provides a summary of sampling information for the samples collected during this investigation.

The borings were advanced through the fill material (backfill material placed in the UST excavation) and into a dark, reddish-brown lean clay soil with fine sand where the samples were collected. The soil sampled from boring TU/US-C501-Station 4 was a very fine-grained sand layer within the lean clay. The soil units encountered and logged while drilling were dry, with no evidence of soil moisture or wet zones.

The soil observed in four of the five borings displayed no sensory evidence (i.e., soil staining, odors) of petroleum-hydrocarbon contamination. There was a faint petroleum odor in the clay below the fill at soil boring TU/US-C501-Station 4. Soil samples were screened in the field using a photoionization detector (PID), then were packaged and shipped to the contracted laboratory for chemical analysis. PID readings of soil samples for all five soil borings were 0.0 parts per million (ppm). Information recorded during drilling is provided on the soil boring logs in Appendix C. Photographic documentation of field activities is presented in Appendix D.

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Soil samples designated for volatile organic compound (VOC) analysis were collected in accordance with EPA Method 5035 and 8260 using the TerraCore® Sampler device (EPA, 1986), while non-VOC sample aliquots were placed in laboratory-provided containers. Soil samples were shipped to Accutest Laboratories, Inc., a National Environmental Laboratory Accreditation Program-accredited laboratory in Orlando, Florida for analysis of VOC, semivolatile organic compounds (SVOC), target analyte list (TAL) metals, TPH-GRO, TPH-DRO, and TPH-ORO, using EPA analytical methods. Specific information recorded during the collection of samples is provided on the Sample Collection Logs in Appendix E.

The excess sample core soil extracted using the DPT drilling method was placed into 55-gallon drums for later characterization and transport to a licensed disposal facility. The soil borings were abandoned upon completion by plugging from the bottom of the borehole to the ground surface using bentonite pellets. Soil boring equipment was decontaminated between borings as detailed in Section 4.2.7 of the RFI Work Plan (Shaw, 2012a) and in accordance with Shaw Standard Operating Procedure EI-FS-014 *Decontamination of Contact Sampling Equipment*.

Laboratory analysis of the soil samples (i.e., USTC501-CS-0001-072412, USTC501-CS-0002-072412, USTC501-CS-0003-072412, USTC501-CS-0004-0072412, USTC501-CS-0005-072512, and USTC501-CS-0006-0072512) showed no detections of TPH or VOCs.

3.4 Groundwater Investigation

The soil samples showed no detections of constituents at concentrations exceeding screening levels, with the exception of arsenic in three samples. As described in detail in the geochemical evaluation presented in Section 4.3, the consistent arsenic/iron ratios in site soil samples and the agreement with the background ratios indicate that the observed arsenic concentrations in soil are most likely natural. Therefore, it is believed that migration of contamination from soil to the groundwater is not occurring at the site. In addition, groundwater was not was not present beneath the site, as observed at each of the five borings placed below the former UST, at depths up to 30 feet bgs. Therefore, based on these lines of evidence, monitoring wells were not installed and groundwater samples were not collected and analyzed for the former UST location at Building 1113.

3.5 Management of Investigation-Derived Waste

The nonhazardous IDW that was generated during the RFI were segregated into the following categories:

- Soil – drill cuttings soil
- Water – decontamination water.

Upon generation, IDW was properly containerized and temporarily stored at the designated laydown yard, as specified by Holloman AFB. Wastes were contained in sealed, U.S. Department of Transportation–approved, steel 55-gallon drums (for soil cuttings and decontamination water), and a 1,400-gallon plastic tank (for wastewater). The waste soil drums containing drill cuttings soil were emptied and mixed into 20-cubic yard roll-off containers at the laydown yard and the wastewater was pumped into the 1,400-gallon plastic tank prior to characterization sampling and analysis for disposal. The drill cuttings from the Building 1113 site were placed into 20-cubic yard roll-off containers along with soils from other Holloman AFB investigation sites. The IDW for Building 1113 was determined to be non-hazardous as described in Section 4.3. Copies of associated non-hazardous waste manifests are provided in Appendix F.

3.6 Site Surveying

Soil borings and other site features shown on Figure 3-1 were surveyed by Albuquerque Surveying Company, Inc. from Albuquerque, New Mexico, a state-licensed surveyor. Horizontal coordinates are referenced to the North American Datum, 1983 State Plane Coordinate System, New Mexico – Central and surveyed to an accuracy of +1.0 ft, while the vertical elevations are referenced to North American Vertical Datum 1988 coordinate system to an accuracy of +0.01 ft. A copy of the survey results is presented in Appendix G.

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4.0 INVESTIGATION RESULTS AND EVALUATION

Soil analytical results presented in this section were used to delineate constituents of concern that may have been released to the environment and to provide information to determine whether further remedial measures are required. No monitoring wells were installed at Building 1113 because the soil zones observed in all five borings were dry. Therefore, no groundwater samples were collected from this site.

4.1 Soil Analytical Results

Soil samples were collected from DPT borings placed into the footprint of the former UST with locations shown on Figure 3-1. A total of six soil samples (including one field duplicate sample) were collected from the five borings drilled at former Building 1113.

The soil samples were shipped to Accutest Laboratories, Inc., a National Environmental Laboratory Accreditation Program-accredited laboratory in Orlando, Florida for VOC, SVOC, TAL metals, TPH-GRO, TPH-DRO, and TPH-ORO analysis. The analytical results for the soil samples are presented in Table 4-1. The laboratory analytical data packages and the data validation checklists for the soil samples are provided in Appendix H.

The validated soil analytical results were compared with the NMED SSLs (NMED, 2012a), or with the EPA RSLs (EPA, 2012a), when residential SSLs were not established by NMED for specific analytes, and also were compared with the NMED-approved background levels for Holloman AFB (NMED, 2012b). In addition, a TPH screening level of 1,000 mg/kg was used to evaluate the laboratory analytical data. The 1,000 mg/kg action level for petroleum contaminated soil is the Residential Direct Exposure Limit for unknown oil, listed in "TPH Screening Guidelines for Potable Groundwater" of the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a).

The analytical results showed no detections of TPH or VOCs. One inorganic constituent, (arsenic) had concentrations at or above a soil screening criterion in three samples from two of the five soil borings completed. The NMED residential SSL of 3.9 mg/kg for arsenic was equaled or exceeded in the following samples:

- Sample No. USTC501-CS-0001-072412: arsenic concentration 6.4 mg/kg, sample location TU/US-C501-Station 1, sample depth interval 24.0 to 25.0 ft bgs
- Sample No. USTC501-CS-0002-072412-FD: arsenic concentration 5 mg/kg, duplicate sample at sample location TU/US-C501-Station 1, sample depth interval 24.0 to 25.0 ft bgs

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- Sample No. USTC501-CS-0003-072412: arsenic concentration 3.9 mg/kg, sample location TU/US-C501-Station 2, sample depth interval 24.0 to 25.0 ft bgs.

Thallium Detection Limit. Holloman AFB soil samples contain significant amounts of calcium, typically greater than 100,000 mg/kg (10 percent), and can be as high as 250,000 mg/kg (25 percent). Calcium at these levels contributes spectral interferences during inductively-coupled plasma metals analysis, and can also clog the nebulizer that is used to introduce the sample. Sample dilution is the recommended method for solving both the spectral interference issue and the nebulizer clogging issue. However, sample dilution raises the analytical method detection limits (MDLs) for all associated metals.

A typical method detection limit for thallium during inductively-coupled plasma analysis is 0.13 mg/kg. Diluting by a factor of 5 to 20 to eliminate calcium spectral interference and nebulizer clogging causes the thallium detection limit to be elevated by a factor of 5 to 20. This results in a MDL that is above the NMED residential SSL of 0.782 mg/kg thallium. Consequently, the required remedy to allow for proper equipment operation resulted in MDLs that were above the NMED residential SSL. However, thallium is not an element that is anticipated to be present at Building 1113 as a result of normal UST operation and maintenance.

4.2 Investigation-Derived Waste Results

Waste characterization samples were collected from the bulk waste soil for analysis of Toxicity Characteristic Leaching Procedure VOCs, SVOCs, and RCRA metals. The results are presented in Table 4-2. The results of the waste soil analyses had no concentrations above the 40 Code of Federal Regulations Part 261.24 limits. Therefore, the waste soil could be managed as nonhazardous waste and was subsequently transported to Otero/Greentree Regional Landfill, Alamogordo, New Mexico for disposal.

Wastewater was sampled and analyzed for VOCs, SVOCs, TAL metals, TPH-GRO, TPH-DRO, and TPH-ORO, with the analytical results presented in Table 4-3. The analytical results were reviewed by Holloman AFB wastewater treatment plant personnel and were subsequently accepted for disposal.

4.3 Geochemical Evaluation of Arsenic in Soil

This section provides a summary of the results of the geochemical evaluation of arsenic concentrations in soil samples from the Building 1113 former UST location. The six soil samples considered in this evaluation were obtained at a various depth intervals ranging from 13.0 to 14.0 ft bgs to 24.0 to 25.0 ft bgs. All of the samples were analyzed for the full suite of

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23 Target Analyte List metals. The geochemical evaluation for this site is presented in its entirety in Appendix I.

Arsenic is evaluated here because the NMED residential SSL of 3.9 mg/kg was equaled or exceeded in three samples (including a duplicate sample) from two locations. Soil sample USTC501-CS-0001-072412 had an arsenic concentration of 6.4 mg/kg from the depth interval of 24.0 to 25.0 ft bgs. The duplicate sample (soil sample USTC501-CS-0002-072412-FD) from this same location and depth interval had an arsenic concentration of 5 mg/kg. Soil sample USTC501-CS-0003-072412 had an arsenic concentration of 3.9 mg/kg, also from the depth interval of 24.0 to 25.0 ft bgs.

Analyses of 42 background subsurface soil samples were used for comparison in the evaluation. These background samples were obtained from depths of 7.0 to 30.0 ft bgs at intervals that were above the water table. The background sample results for arsenic ranged from 0.81 mg/kg to 4.7 mg/kg.

Arsenic is known to associate with iron oxide minerals as discussed in Appendix I. A soil sample that is naturally enriched in iron oxides is expected to be naturally enriched in arsenic. Appendix I (Figure 3) provides a plot of arsenic versus iron in the site and background samples. The site and background samples fall on the same trend, although this trend is less correlated than the iron versus aluminum trend shown in Appendix I (Figure 1). One of the six site samples has non-detectable (less than 0.84 mg/kg) arsenic, and four of the site samples have estimated (i.e., “J-flagged”) results. Estimated results usually show less correlation on the plots because the true locations of the points are uncertain. The site sample with the highest arsenic concentration also has the highest iron concentration, so elevated arsenic is expected in this sample.

Appendix I (Figure 4) provides a ratio plot of the same arsenic and iron results. This perspective reveals that the site samples have ratios that fall within the range of the background ratios. There is more spread in the ratios at lower arsenic concentrations, which is likely due to the estimated analytical results. However, the consistent arsenic/iron ratios in the site samples and the agreement with the background ratios indicate that the observed arsenic concentrations are most likely natural.

4.4 Risk-Based Evaluation

4.4.1 Soil

Six soil samples were collected from Building 1113, all from depths greater than 10.0 ft bgs, on July 24, 2012 and July 25, 2012. Per NMED (2012a), the soil depths of interest are 0.0 to 10.0 ft bgs for construction workers and residential receptors, and 0.0 to 1.0 ft bgs for

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commercial/industrial workers. As detailed in Section 3.3, soil samples were collected below a clean fill layer and at the top of a low permeability clay layer, where contaminants could accumulate if present. The soil encountered in the various horizons showed no staining or visible contamination or had PID readings greater than 0.0 ppm. One sample interval in soil boring TU/US-C501-Station 4 had a faint odor (possibly a petroleum-like odor).

The only constituent detected at or above a NMED residential SSL was arsenic in three samples: USTC501-CS-0001-072412 (24 to 25 ft bgs) at a concentration of 6.4 mg/kg and duplicate sample USTC501-CS-0002-072412 (24 to 25 ft bgs) at a concentration of 5 mg/kg, and sample USTC501-CS-0003-072412 (24 to 25 ft bgs) concentration of 3.9 mg/kg. Human health exposure to this soil is not expected since it is greater than 10 ft bgs; and risk would be expected to be minimal, based on these concentrations, if exposure was to occur.

4.4.2 Groundwater

Groundwater was not encountered in the soil horizons at the site during the groundwater investigation. As such, no monitoring wells were installed, and therefore, no groundwater sampling/risk-based evaluation was performed.

4.4.3 Risk-Based Conclusions

Arsenic was the only analyte detected above NMED residential SSL criteria. This occurred in three samples collected from a depth interval of 24.0 to 25.0 ft bgs at two soil boring locations. Human health exposure to this soil is not expected since it is at a depth greater than 10.0 ft bgs. Human health risk would be minimal if exposure was to occur. In addition, soil samples collected during the RFI were collected from below the clean fill layer at depths greater than 10.0 ft bgs, and therefore, no risk to ecological receptors was expected. No risk was determined for exposure to groundwater, because groundwater was not encountered at this site.

4.5 Ecological Evaluation

Because the former Building 1113 site is located away from the main portion of the base and is surrounded by a partially vegetated area, a screening level ecological risk assessment was considered. Per NMED (2012c), exposure pathways for a screening levels ecological risk assessment are typically generalized such that two soil intervals should be evaluated:

- For all non-burrowing receptors, the soil interval to be considered is 0.0 to 5.0 ft bgs
- For all burrowing receptors and plants, the soil interval to be evaluated is 0.0 to 10.0 ft bgs.

The soil samples collected from the Building 1113 site were all from below the clean fill layer that was placed as backfill following UST removal. The clean fill layer varied in thickness, but was generally greater than 10.0 ft bgs. Accordingly, the soil samples collected during the RFI were from greater than 10.0 ft bgs, and therefore, no risk to ecological receptors was expected.

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5.0 DATA QUALITY ASSURANCE AND DATA QUALITY CONTROL REVIEW

All analytical data were reviewed in accordance with EPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2004a) and the EPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 2004b). Data qualifiers were added to the database prior to project use. The data tables referenced in Section 4.0 show the data qualifiers added during data validation. Detailed data validation checklists for each data deliverable are provided in Appendix H.

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6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary and Conclusions

6.1.1 Soil

Six soil samples were collected from around the former UST location at Building 1113. The chemical analytical results revealed that the inorganic analyte, arsenic, had concentrations above the NMED residential SSL in a total of three samples each from a depth of 24.0 to 25.0 ft bgs at two locations.

The soil sample (USTC501-CS-0001-072412) from a depth interval of 24.0 to 25.0 ft bgs in soil boring TU/US-C501-Station 1 had an arsenic concentration of 6.4 mg/kg, which was greater than the NMED residential SSL of 3.9 mg/kg. The duplicate soil sample (USTC501-CS-0002-072412-FD) from the same depth interval in the same boring had an arsenic concentration of 5 mg/kg. At soil boring TU/US-C501-Station 2, the soil sample (USTC501-CS-0003-072412), also from a depth interval of 24.0 to 25.0 ft bgs, had an arsenic concentration of 3.9 mg/kg.

Neither the fill material nor the underlying natural clay material displayed evidence of petroleum contamination. TPH and VOCs were not detected in the five soil samples collected beneath the fill material of the UST excavation area at the former Building 1113 location. Based on the evaluation of soil samples chemically and spatially, the nature and extent of potential soil contamination for the former UST location has been defined.

The geochemical evaluation demonstrated that the site samples fall within the range of the background results. The consistent arsenic/iron ratios in the site samples and the agreement with the same background ratios indicate that the observed arsenic concentrations are most likely natural.

For the samples collected at or below the base of the former UST and below the backfill material, the human health evaluation showed that risk would be minimal since arsenic concentrations were just above the NMED residential SSLs and were found at a depth greater than 10.0 ft bgs. Likewise, minimal risk to ecological receptors was expected for the samples collected based on the depth of the samples (i.e., more than two times the depth of 10.0 ft bgs).

6.1.2 Groundwater

Groundwater was not encountered in the five soil borings placed below the former UST at depths up to 30 feet bgs during the soil investigation at former Building 1113. The evaluation of soil results (including screening level comparison, geochemical evaluation, and risk

assessment) indicate that the potential for migration of contamination from soil to the groundwater is not likely occurring at the site. No monitoring wells were installed and groundwater samples were not collected and analyzed for the former UST location at Building 1113.

6.2 Recommendations

6.2.1 Soil

The geochemical evaluation of soil concluded that arsenic concentrations are most likely natural. No risk to human or ecological receptors was expected due to the extreme depth at which arsenic exceeded the regulatory limit. Based on these conclusions, Corrective Action Complete without Controls is recommended for soil at the Building 1113 (TU/US-C501) location.

6.2.2 Groundwater

Groundwater was not encountered during the groundwater investigation at Building 1113. As such, monitoring wells were not installed, and therefore, groundwater sampling was not performed. Based on the Migration of potential contamination from the soil to groundwater was not expected for this site. Corrective Action Complete without Controls is recommended for groundwater at Building 1113.

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Tables

Table 3-1
Sample Summary
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Holloman Air Force Base, New Mexico

Station Name	Grid Coordinates[a]		Sample Date	Sample Type	Sample Depth (ft bgs)	Sample Number	Analytical Suite	Analytical Method[b]
	Northing	Easting						
TU/US-C501-Station 1	689003.6543	1679963.4000	7/24/2012	Confirmation Soil	24 - 25	USTC501-CS-0001-072412	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
			7/24/2012	Confirmation Soil - Field Duplicate	24 - 25	USTC501-CS-0002-072412-FD	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
TU/US-C501-Station 2	689028.1642	1679962.2584	7/24/2012	Confirmation Soil	24 - 25	USTC501-CS-0003-072412	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
TU/US-C501-Station 3	689001.5369	1679950.5757	7/24/2012	Confirmation Soil	13 - 14	USTC501-CS-0004-072412	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
TU/US-C501-Station 4	689017.1194	1679966.8540	7/25/2012	Confirmation Soil	18 - 19	USTC501-CS-0005-072512	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
TU/US-C501-Station 5	689004.2631	1679939.7319	7/25/2012	Confirmation Soil	14 - 15	USTC501-CS-0006-072512	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D

[a] Coordinates are referenced to the North American Datum, 1983 State Plane Coordinate System, New Mexico - Central, feet.

[b] EPA, 1986, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd ed., including all promulgated updates and new methods, through July 2010.
Percent Solids and Total Dissolved Solids from *Standard Methods for the Examination of Water and Wastewater* , 19th edition, 1995.

CS = confirmation soil
DRO = diesel range organics
EPA = Environmental Protection Agency
FD = field duplicate
ft bgs = feet below ground surface
GRO = gasoline range organics
ORO = oil range organics
RFI = RCRA Facility Investigation
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
TAL = target analyte list
TPH = total petroleum hydrocarbons
UST = underground storage tank
VOC = volatile organic compound

Table 4-1
Soil Analytical Results
Building 1113 (TU/US-C501) RFI Report
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC501-CS-0001-072412		USTC501-CS-0002-072412-FD		USTC501-CS-0003-072412		USTC501-CS-0004-072412		USTC501-CS-0005-072512		USTC501-CS-0006-072512	
			Sample Date	7/24/2012		7/24/2012		7/24/2012		7/24/2012		7/25/2012		7/25/2012	
			Location	STA1 - SE side excavation area		STA1 - SE side excavation area		STA2 - N side excavation area		STA3 - S side excavation area		STA4 - E side excavation area		STA5 - SW side excavation area	
			Depth (ft bgs)	24 - 25		24 - 25		24 - 25		13 - 14		18 - 19		14 - 15	
	Background Values - Soil (mg/kg)[a]	**EPA RSL - Residential Soil (mg/kg)[b]**	**NMED SSL - Residential Soil (mg/kg)[c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS	NE	NE	NE	**80.8**		**83**		**83.5**		**90.2**		**91.7**		**83.2**	
VOLATILES (mg/kg)															
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.00084	UJ	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.00091	U	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0013	U	0.0015	U	0.0012	U	0.0016	U	0.0018	U	0.0016	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.00084	U	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.00084	U	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
1,1-DICHLOROETHENE	NE	240	449	0.0011	U	0.0012	U	0.00097	U	0.0013	U	0.0015	U	0.0013	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.00091	UJ	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0017	U	0.002	U	0.0016	U	0.0022	U	0.0024	U	0.0022	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.00076	U	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.00084	UJ	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
1,2-DICHLOROETHANE	NE	0.43	7.89	0.00076	U	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.00091	U	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.00091	UJ	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.00084	UJ	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
2-HEXANONE	NE	210	NE	0.0041	UJ	0.0047	U	0.0037	U	0.0051	U	0.0057	U	0.0052	U
ACETONE	NE	61000	66600	0.015	U	0.017	U	0.014	U	0.019	U	0.021	U	0.019	U
BENZENE	NE	1.1	15.4	0.0011	U	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.00084	U	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
BROMOFORM	NE	62	616	0.0011	UJ	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
BROMOMETHANE	NE	7.3	16.5	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
CARBON DISULFIDE	NE	820	1530	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0014	U	0.0016	U	0.0012	U	0.0017	U	0.0019	U	0.0017	U
CHLOROBENZENE	NE	290	376	0.00076	UJ	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
CHLOROETHANE	NE	15000	29800	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
CHLOROFORM	NE	0.29	5.86	0.00091	U	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
CHLOROMETHANE	NE	120	275	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0011	U	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00076	UJ	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
CYCLOHEXANE	NE	7000	NE	0.0011	U	0.0012	U	0.00097	U	0.0013	U	0.0015	U	0.0013	U
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.00076	U	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0011	U	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
ETHYLBENZENE	NE	5.4	68.4	0.00076	U	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
ISOPROPYLBENZENE	NE	2100	2430	0.00084	U	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
METHYL ACETATE	NE	78000	78200	0.0095	U	0.011	U	0.0086	U	0.012	U	0.013	U	0.012	U
METHYL ETHYL KETONE	NE	28000	37100	0.0046	UJ	0.0053	U	0.0042	U	0.0058	U	0.0064	U	0.0058	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0042	UJ	0.0048	U	0.0038	U	0.0052	U	0.0058	U	0.0052	U
METHYLCYCLOHEXANE	NE	5630	5630	0.00099	UJ	0.0011	U	0.0009	U	0.0012	U	0.0014	U	0.0012	U
METHYLENE CHLORIDE	NE	56	409	0.0035	U	0.004	U	0.0032	U	0.0044	U	0.0048	U	0.0044	U

Table 4-1
Soil Analytical Results
Building 1113 (TU/US-C501) RFI Report
Holloman Air Force Base, New Mexico

Analyte	Background Values - Soil (mg/kg)[a]	EPA RSL - Residential Soil (mg/kg)[b]	NMED SSL - Residential Soil (mg/kg)[c]	USTC501-CS-0001-072412		USTC501-CS-0002-072412-FD		USTC501-CS-0003-072412		USTC501-CS-0004-072412		USTC501-CS-0005-072512		USTC501-CS-0006-072512	
			Sample Date	7/24/2012		7/24/2012		7/24/2012		7/24/2012		7/25/2012		7/25/2012	
			Location	STA1 - SE side excavation area		STA1 - SE side excavation area		STA2 - N side excavation area		STA3 - S side excavation area		STA4 - E side excavation area		STA5 - SW side excavation area	
			Depth (ft bgs)	24 - 25		24 - 25		24 - 25		13 - 14		18 - 19		14 - 15	
				Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)															
STYRENE	NE	6300	7280	0.002	UJ	0.0023	U	0.0018	U	0.0025	U	0.0027	U	0.0025	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
TETRACHLOROETHYLENE	NE	22	7.02	0.00076	U	0.00087	U	0.00069	U	0.00095	U	0.0011	U	0.00095	U
TOLUENE	NE	5000	5270	0.00091	UJ	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0011	U	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00084	UJ	0.00096	U	0.00076	U	0.001	U	0.0012	U	0.001	U
TRICHLOROETHYLENE	NE	0.91	8.77	0.00091	U	0.001	U	0.00083	U	0.0011	U	0.0013	U	0.0011	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.0015	U	0.0017	U	0.0014	U	0.0019	U	0.0021	U	0.0019	U
VINYL CHLORIDE	NE	0.06	0.728	0.0011	U	0.0013	U	0.001	U	0.0014	U	0.0016	U	0.0014	U
XYLENES, TOTAL	NE	630	814	0.0024	U	0.0028	U	0.0022	U	0.003	U	0.0034	U	0.0031	U
SEMIVOLATILES (mg/kg)															
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2,4-DICHLOROPHENOL	NE	180	183	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.026	U	0.025	U	0.025	U	0.023	U	0.023	U	0.025	U
2,4-DINITROPHENOL	NE	120	122	0.41	U	0.4	U	0.4	U	0.37	U	0.36	U	0.4	U
2,4-DINITROTOLUENE	NE	1.6	15.7	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2,6-DINITROTOLUENE	NE	61	61.1	0.024	U	0.024	U	0.023	U	0.022	U	0.021	U	0.024	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U
2-CHLOROPHENOL	NE	390	391	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2-METHYLNAPHTHALENE	NE	230	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2-METHYLPHENOL	NE	3100	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
2-NITROANILINE	NE	610	NE	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U
2-NITROPHENOL	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U
3-NITROANILINE	NE	NE	NE	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.082	U	0.08	U	0.08	U	0.074	U	0.072	U	0.08	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
4-CHLOROANILINE	NE	2.4	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
4-NITROANILINE	NE	24	NE	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U
4-NITROPHENOL	NE	NE	NE	0.16	U	0.16	U	0.16	U	0.15	U	0.14	U	0.16	U
ACENAPHTHENE	NE	3400	3440	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
ACENAPHTHYLENE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
ACETOPHENONE	NE	7800	7820	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
ANTHRACENE	NE	17000	17200	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U
ATRAZINE	NE	2.1	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U

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Analyte	Background Values - Soil (mg/kg)[a]	EPA RSL - Residential Soil (mg/kg)[b]	NMED SSL - Residential Soil (mg/kg)[c]	Sample Number		USTC501-CS-0001-072412		USTC501-CS-0002-072412-FD		USTC501-CS-0003-072412		USTC501-CS-0004-072412		USTC501-CS-0005-072512		USTC501-CS-0006-072512	
				Sample Date		7/24/2012		7/24/2012		7/24/2012		7/24/2012		7/25/2012		7/25/2012	
				Location		STA1 - SE side excavation area		STA1 - SE side excavation area		STA2 - N side excavation area		STA3 - S side excavation area		STA4 - E side excavation area		STA5 - SW side excavation area	
				Depth (ft bgs)		24 - 25		24 - 25		24 - 25		13 - 14		18 - 19		14 - 15	
				Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)																	
BENZALDEHYDE	NE	7800	NE	0.2	U	0.2	U	0.2	U	0.19	U	0.18	U	0.2	U		
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BENZO(A)PYRENE	NE	0.015	0.148	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BENZYL BUTYL PHTHALATE	NE	260	NE	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U		
BIPHENYL	NE	51	57.1	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BIS(2-CHLOROETHOXY) METHANE	NE	180		0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.082	U	0.107	J	0.08	U	0.074	U	0.072	U	0.08	U		
CAPROLACTAM	NE	31000	NE	0.065	U	0.064	U	0.064	U	0.06	U	0.058	U	0.064	U		
CARBAZOLE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
CHRYSENE	NE	15	148	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
DIBENZOFURAN	NE	78	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
DIETHYL PHTHALATE	NE	49000	48900	0.082	U	0.08	U	0.08	U	0.074	U	0.072	U	0.08	U		
DIMETHYL PHTHALATE	NE	611000	611000	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U		
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.082	U	0.08	U	0.08	U	0.074	U	0.072	U	0.08	U		
DI-N-OCTYLPHTHALATE	NE	730	NE	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U		
FLUORANTHENE	NE	2300	2290	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
FLUORENE	NE	2300	2290	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
HEXACHLOROBENZENE	NE	0.3	3.04	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U		
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.09	U	0.088	U	0.088	U	0.082	U	0.08	U	0.088	U		
HEXACHLOROETHANE	NE	12	42.8	0.041	U	0.04	U	0.04	U	0.037	U	0.036	U	0.04	U		
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
ISOPHORONE	NE	510	5120	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
M,P-CRESOL	NE	NE	NE	0.029	U	0.029	U	0.029	U	0.027	U	0.026	U	0.029	U		
NAPHTHALENE	NE	3.6	43.0	0.033	U	0.032	U	0.032	U	0.03	U	0.029	U	0.032	U		
NITROBENZENE	NE	4.8	53.5	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
N-NITROSODIPHENYLAMINE	NE	99	993	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
PENTACHLOROPHENOL	NE	0.89	8.94	0.25	U	0.24	U	0.24	U	0.22	U	0.22	U	0.24	U		
PHENANTHRENE	NE	1830	1830	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
PHENOL	NE	18000	18300	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		
PYRENE	NE	1700	1720	0.02	U	0.02	U	0.02	U	0.019	U	0.018	U	0.02	U		

Table 4-1
Soil Analytical Results
Building 1113 (TU/US-C501) RFI Report
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC501-CS-0001-072412		USTC501-CS-0002-072412-FD		USTC501-CS-0003-072412		USTC501-CS-0004-072412		USTC501-CS-0005-072512		USTC501-CS-0006-072512	
			Sample Date	7/24/2012		7/24/2012		7/24/2012		7/24/2012		7/25/2012		7/25/2012	
			Location	STA1 - SE side excavation area		STA1 - SE side excavation area		STA2 - N side excavation area		STA3 - S side excavation area		STA4 - E side excavation area		STA5 - SW side excavation area	
			Depth (ft bgs)	24 - 25		24 - 25		24 - 25		13 - 14		18 - 19		14 - 15	
	Background Values - Soil (mg/kg)[a]	**EPA RSL - Residential Soil (mg/kg)[b]**	**NMED SSL - Residential Soil (mg/kg)[c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
METALS (mg/kg)															
ALUMINUM	13722	77000	78000	19500		16200		12500		8320		9570		6140	
ANTIMONY	1.6	31	31.3	1.1	UJ	1	U	0.87	U	0.91	U	1.1	U	0.84	U
ARSENIC	3.7	0.39	3.90	6.4		5	J	3.9	J	1.8	J	3	J	0.84	U
BARIUM	169	15000	15600	156	J	186		186		59.3	J	116		40.8	J
BERYLLIUM	1.6	160	156	1.5	J	1.3	J	0.98	J	0.45	J	0.63	J	0.42	U
CADMIUM	0.3	70	70.3	0.56	U	0.52	U	0.43	U	0.45	U	0.53	U	0.42	U
CALCIUM	317332	NE	NE	124000		122000		109000		182000		126000		145000	
CHROMIUM[d]	25	117000	117000	25.6	J	20.2		16.3		10.3		12		5.7	
COBALT	7.7	23	NE	8.4	J	8	J	6.1	J	3.1	J	5.3	J	2	J
COPPER	13	3100	3130	16.2		13.8		10.4	J	5.4	J	7.8	J	3.4	J
IRON	23049	55000	54800	22900		19300		15600		8460		11900		6030	
LEAD	10.9	400	400	12.9		11.8		9.9		6.4	J	7.4	J	2.7	J
MAGNESIUM	16991	NE	NE	20700		17300		13300		7870		8850		7040	
MANGANESE	393	1800	1860	304		311		279		175		270		163	
MERCURY	0.0108	10	15.6	0.0095	U	0.0094	U	0.0097	U	0.0087	U	0.0087	U	0.0099	U
NICKEL	17.4	1500	1560	23.8		20.5	J	15.6	J	8	J	12.3	J	5.2	J
POTASSIUM	5077	NE		3570	J	3050	J	2420	J	1830	J	2010	J	1310	J
SELENIUM	1.4	390	391	2.2	U	2.1	U	1.7	U	1.8	U	2.1	U	1.7	U
SILVER	1.1	390	391	0.56	U	0.52	U	0.43	U	0.45	U	0.53	U	0.42	U
SODIUM	5196	NE	NE	3460	J	3070	J	2420	J	722	J	590	U	1690	J
THALLIUM	1.3	0.78	0.782	1.4	U	1.4	U	1.1	U	1.2	U	1.4	U	1.1	U
VANADIUM	42.6	390	391	31.6	J	31.2		31		15.7	J	22.7	J	9.8	J
ZINC	54.6	23000	23500	64		55.5		43.2		25.1		34		15	
PETROLEUM HYDROCARBONS (mg/kg)															
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	2.5	U	2.8	U	3.5	U	2.5	U	2.3	U	2.8	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	4.2	U	4	U	4	U	3.7	U	3.7	U	4	U
OIL RANGE ORGANICS C28-C40	NE	NE	1000	4.2	U	4	U	4	U	3.7	U	3.7	U	4	U

Table 4-1
Soil Analytical Results
Buidling 1113 (TU/US-C501) RFI Report
Holloman Air Force Base, New Mexico

Value exceeds NMED SSL - Residential Soil
Value exceeds EPA RSL - Residential Soil
Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," Letter to D. Scruggs, Chief, Environmental Restoration Program, HAFB from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, NMED, March 1.*

[b] *EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.*

[c] *NMED, 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, February, Table A-1, updated June 2012.*

[d] *The background concentration is Total Chromium and the screening levels are Chromium (III).*

ft bgs = feet below ground surface
E = east
EPA = U.S. Environmental Protection Agency
J = estimated value
mg/kg = milligrams per kilogram
N = north
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RSL = Regional Screening Level
S = south
SE = southeast
STA = Station
SW = southwest
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier

Table 4-2
Investigation-Derived Waste
Soil Analytical Results
Holloman Air Force Base, New Mexico

Analyte	Units	Sample Number	LDY-IDW01-090412	
		Sample Date	9/4/2012	
		Sample Type	Waste Characterization	
		40 CFR 261 Waste Characteristic Criteria	Result	Lab Qual
General Chemistry				
Corrosivity as pH	pH Units	> 2 and < 12.5	**7.7**	
Cyanide Reactivity	mg/kg	< 250	1.5	U
Ignitability (Flashpoint)	°F	> 140 °F	>200	
Solids, Percent	%	NA	**84.4**	
Sulfide Reactivity	mg/kg	< 500	59	U
TCLP Volatiles				
Benzene	mg/L	0.5	0.0020	U
Chlorobenzene	mg/L	100	0.0020	U
Chloroform	mg/L	6	0.0022	U
Carbon tetrachloride	mg/L	0.5	0.0025	U
1,1-Dichloroethylene	mg/L	0.7	0.0023	U
1,2-Dichloroethane	mg/L	0.5	0.0020	U
p-Dichlorobenzene	mg/L	7.5	0.0023	U
Methyl ethyl ketone	mg/L	200	0.020	U
Tetrachloroethylene	mg/L	0.7	0.0025	U
Trichloroethylene	mg/L	0.5	0.0026	U
Vinyl chloride	mg/L	0.2	0.0022	U
TCLP Semivolatiles				
2-Methylphenol	mg/L	200	0.0054	U
3&4-Methylphenol	mg/L	200	0.011	U
Pentachlorophenol	mg/L	100	0.054	U
2,4,5-Trichlorophenol	mg/L	400	0.0050	U
2,4,6-Trichlorophenol	mg/L	2	0.0050	U
1,4-Dichlorobenzene	mg/L	7.5	0.0100	U
2,4-Dinitrotoluene	mg/L	0.13	0.0050	U
Hexachlorobenzene	mg/L	0.13	0.0056	U
Hexachlorobutadiene	mg/L	0.5	0.0100	U
Hexachloroethane	mg/L	3	0.010	U
Nitrobenzene	mg/L	2	0.0059	U
Pyridine	mg/L	100	0.016	U
TCLP Metals				
Arsenic	mg/L	5	0.020	U
Barium	mg/L	100	**0.12**	J
Cadmium	mg/L	1	0.010	U
Chromium	mg/L	5	0.010	U
Lead	mg/L	5	0.010	U
Mercury	mg/L	0.2	0.00050	U
Selenium	mg/L	1	0.020	U
Silver	mg/L	5	0.010	U

Table 4-2
Investigation-Derived Waste
Soil Analytical Results
Holloman Air Force Base, New Mexico

Bold = parameter detected.

°F = degrees Fahrenheit
> = greater than
< = less than
% = percent
CFR = Code of Federal Regulations
J = estimated value
Lab Qual = laboratory qualifier
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NA = not applicable
TCLP = Toxicity Characteristic Leaching Procedure
U = not detected at the detection limit shown

Table 4-3
Investigation-Derived Waste
Water Analytical Results
Holloman Air Force Base, New Mexico

Analyte	Units	Sample Number	HAFB-IDW-Bulk Waste-0001-111612	
		Sample Date	11/16/2012	
		Sample Type	Water	
		EPA RSL Water (MCL)[a]	Result	VQ
Volatiles				
Acetone	µg/L	NE	10	U
Benzene	µg/L	5	0.21	U
Bromodichloromethane	µg/L	80	0.20	U
Bromoform	µg/L	80	0.34	U
Chlorobenzene	µg/L	100	0.20	U
Chloroethane	µg/L	NE	0.50	U
Chloroform	µg/L	80	0.26	U
Carbon disulfide	µg/L	NE	0.49	U
Carbon tetrachloride	µg/L	5	0.31	U
Cyclohexane	µg/L	NE	0.48	U
1,1-Dichloroethane	µg/L	NE	0.21	U
1,1-Dichloroethylene	µg/L	7	0.20	U
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.71	U
1,2-Dibromoethane	µg/L	0.05	0.30	U
1,2-Dichloroethane	µg/L	5	0.22	U
1,2-Dichloropropane	µg/L	5	0.26	U
Dibromochloromethane	µg/L	80	0.20	U
Dichlorodifluoromethane	µg/L	NE	0.50	U
cis-1,2-Dichloroethylene	µg/L	70	**0.42**	J
cis-1,3-Dichloropropene	µg/L	NE	0.22	U
m-Dichlorobenzene	µg/L	NE	0.25	U
o-Dichlorobenzene	µg/L	600	0.22	U
p-Dichlorobenzene	µg/L	75	0.20	U
trans-1,2-Dichloroethylene	µg/L	100	0.23	U
trans-1,3-Dichloropropene	µg/L	NE	0.21	U
Ethylbenzene	µg/L	700	0.29	U
Freon 113	µg/L	NE	0.33	U
2-Hexanone	µg/L	NE	2.0	U
Isopropylbenzene	µg/L	NE	0.20	U
4-Methyl-2-pentanone	µg/L	NE	2.3	U
Methyl Acetate	µg/L	NE	5.0	U
Methyl bromide	µg/L	NE	0.79	U
Methyl chloride	µg/L	NE	0.50	U
Methylcyclohexane	µg/L	NE	0.20	U
Methylene chloride	µg/L	5	2.0	U
Methyl ethyl ketone	µg/L	NE	3.1	U
Methyl Tert Butyl Ether	µg/L	NE	0.21	U
Styrene	µg/L	100	0.20	U

Table 4-3
Investigation-Derived Waste
Water Analytical Results
Holloman Air Force Base, New Mexico

Analyte	Units	Sample Number	HAFB-IDW-Bulk Waste-0001-111612	
		Sample Date	11/16/2012	
		Sample Type	Water	
		EPA RSL Water (MCL)[a]	Result	VQ
Volatiles (continued)				
1,1,1-Trichloroethane	µg/L	200	0.20	U
1,1,2,2-Tetrachloroethane	µg/L	NE	0.24	U
1,1,2-Trichloroethane	µg/L	5	0.20	U
1,2,4-Trichlorobenzene	µg/L	70	0.50	U
Tetrachloroethylene	µg/L	5	0.32	U
Toluene	µg/L	1000	0.20	U
Trichloroethylene	µg/L	5	0.31	U
Trichlorofluoromethane	µg/L	NE	0.50	U
Vinyl chloride	µg/L	2	0.44	U
Xylene (total)	µg/L	10000	0.50	U
Semivolatiles				
2-Chlorophenol	µg/L	NE	0.68	U
4-Chloro-3-methyl phenol	µg/L	NE	0.78	U
2,4-Dichlorophenol	µg/L	NE	0.67	U
2,4-Dimethylphenol	µg/L	NE	0.74	U
2,4-Dinitrophenol	µg/L	NE	5.0	U
4,6-Dinitro-o-cresol	µg/L	NE	1.4	U
2-Methylphenol	µg/L	NE	0.69	U
3&4-Methylphenol	µg/L	NE	1.3	U
2-Nitrophenol	µg/L	NE	0.65	U
4-Nitrophenol	µg/L	NE	4.8	U
Pentachlorophenol	µg/L	1	4.8	U
Phenol	µg/L	NE	0.53	U
2,4,5-Trichlorophenol	µg/L	NE	0.86	U
2,4,6-Trichlorophenol	µg/L	NE	0.75	U
Acenaphthene	µg/L	NE	0.67	U
Acenaphthylene	µg/L	NE	0.67	U
Acetophenone	µg/L	NE	0.72	U
Anthracene	µg/L	NE	0.72	U
Atrazine	µg/L	3	0.83	U
Benzaldehyde	µg/L	NE	4.8	U
Benzo(a)anthracene	µg/L	NE	0.52	U
Benzo(a)pyrene	µg/L	0.2	0.55	U
Benzo(b)fluoranthene	µg/L	NE	0.73	U
Benzo(g,h,i)perylene	µg/L	NE	0.64	U
Benzo(k)fluoranthene	µg/L	NE	0.64	U
4-Bromophenyl phenyl ether	µg/L	NE	0.76	U
Butyl benzyl phthalate	µg/L	NE	0.68	U
1,1'-Biphenyl	µg/L	NE	0.92	U
2-Chloronaphthalene	µg/L	NE	0.70	U

Table 4-3
Investigation-Derived Waste
Water Analytical Results
Holloman Air Force Base, New Mexico

Analyte	Units	Sample Number	HAFB-IDW-Bulk Waste-0001-111612	
		Sample Date	11/16/2012	
		Sample Type	Water	
		EPA RSL Water (MCL)[a]	Result	VQ
Semivolatiles (continued)				
4-Chloroaniline	µg/L	NE	0.66	U
Caprolactam	µg/L	NE	2.4	U
Carbazole	µg/L	NE	0.50	U
Chrysene	µg/L	NE	0.56	U
bis(2-Chloroethoxy)methane	µg/L	NE	0.67	U
bis(2-Chloroethyl)ether	µg/L	NE	0.69	U
bis(2-Chloroisopropyl)ether	µg/L	NE	0.76	U
4-Chlorophenyl phenyl ether	µg/L	NE	0.84	U
2,4-Dinitrotoluene	µg/L	NE	0.66	U
2,6-Dinitrotoluene	µg/L	NE	0.77	U
3,3'-Dichlorobenzidine	µg/L	NE	0.71	U
Dibenzo(a,h)anthracene	µg/L	NE	0.56	U
Dibenzofuran	µg/L	NE	0.72	U
Di-n-butyl phthalate	µg/L	NE	0.96	U
Di-n-octyl phthalate	µg/L	NE	0.96	U
Diethyl phthalate	µg/L	NE	0.96	U
Dimethyl phthalate	µg/L	NE	0.77	U
bis(2-Ethylhexyl)phthalate	µg/L	6	1.1	U
Fluoranthene	µg/L	NE	0.56	U
Fluorene	µg/L	NE	0.73	U
Hexachlorobenzene	µg/L	1	0.66	U
Hexachlorobutadiene	µg/L	NE	0.92	U
Hexachlorocyclopentadiene	µg/L	50	0.76	U
Hexachloroethane	µg/L	NE	0.71	U
Indeno(1,2,3-cd)pyrene	µg/L	NE	0.55	U
Isophorone	µg/L	NE	0.61	U
2-Methylnaphthalene	µg/L	NE	0.66	U
2-Nitroaniline	µg/L	NE	0.72	U
3-Nitroaniline	µg/L	NE	0.62	U
4-Nitroaniline	µg/L	NE	0.93	U
Naphthalene	µg/L	NE	0.61	U
Nitrobenzene	µg/L	NE	0.69	U
N-Nitroso-di-n-propylamine	µg/L	NE	0.82	U
N-Nitrosodiphenylamine	µg/L	NE	0.96	U
Phenanthrene	µg/L	NE	0.68	U
Pyrene	µg/L	NE	0.65	U
Petroleum Hydrocarbons				
Gasoline Range Organics (C6-C10)	mg/L	NE	0.05	U
Diesel Range Organics (C10-C28)	mg/L	NE	**0.115**	J
Oil Range Organics (C28-C40)	mg/L	NE	0.10	U

Table 4-3
Investigation-Derived Waste
Water Analytical Results
Holloman Air Force Base, New Mexico

Analyte	Units	Sample Number	HAFB-IDW-Bulk Waste-0001-111612	
		Sample Date	11/16/2012	
		Sample Type	Water	
		EPA RSL Water (MCL)[a]	Result	VQ
Metals				
Aluminum	µg/L	NE	**36.2**	J
Antimony	µg/L	6	**6.7**	J
Arsenic	µg/L	10	2.5	U
Barium	µg/L	2000	**29.1**	J
Beryllium	µg/L	4	0.50	U
Cadmium	µg/L	5	1.0	U
Calcium	µg/L	NE	**654,000**	
Chromium	µg/L	100	4	U
Cobalt	µg/L	NE	**6.2**	J
Copper	µg/L	1300	**2.9**	J
Iron	µg/L	NE	**97.5**	J
Lead	µg/L	15	2.2	U
Magnesium	µg/L	NE	**310,000**	
Manganese	µg/L	NE	**179**	
Mercury	µg/L	2	0.03	U
Nickel	µg/L	NE	**3.7**	J
Potassium	µg/L	NE	**16,500**	
Selenium	µg/L	50	4.0	U
Silver	µg/L	NE	0.50	U
Sodium	µg/L	NE	**762,000**	
Thallium	µg/L	2	0.078	U
Vanadium	µg/L	NE	**4.5**	J
Zinc	µg/L	NE	**12.8**	J

Table 4-3
Investigation-Derived Waste
Water Analytical Results
Holloman Air Force Base, New Mexico

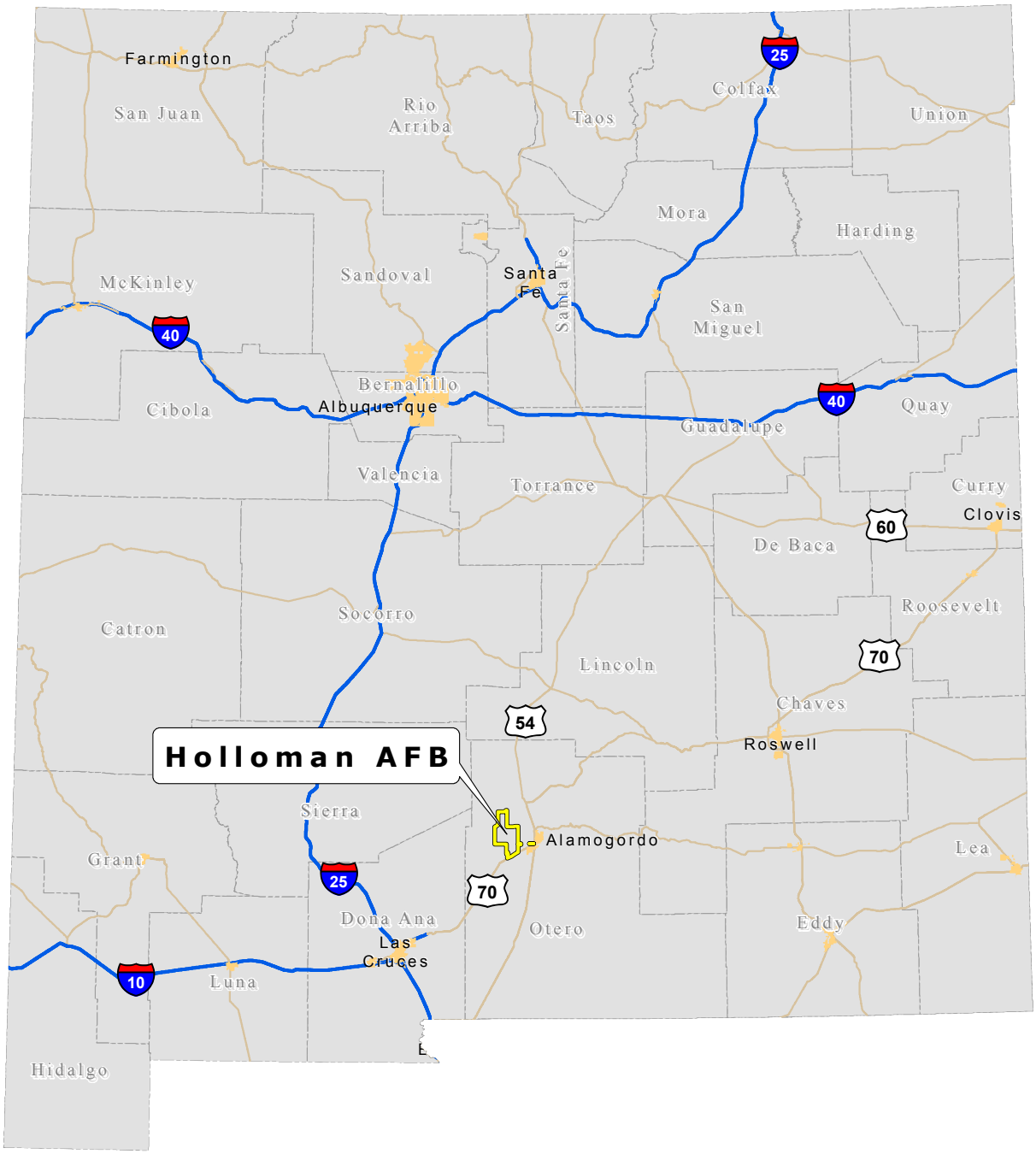
[a] EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.

Boldface entry = parameter detected.

EPA = Environmental Protection Agency
J = estimated value
MCL = maximum contaminant level
µg/L = micrograms per liter
mg/L = milligrams per liter
NE = not established
RSL = regional screening level
U = not detected at the detection limit shown
VQ = validation qualifier

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0• September 2013 WERC-09-13-065

Figures



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Legend

Holloman AFB

N

WGS 84 UTM ZONE 13N METERS

0 20 40 80
Kilometers

0 10 20 40
Miles

Figure 1-1

Holloman Air Force Base Location

Holloman AFB, New Mexico

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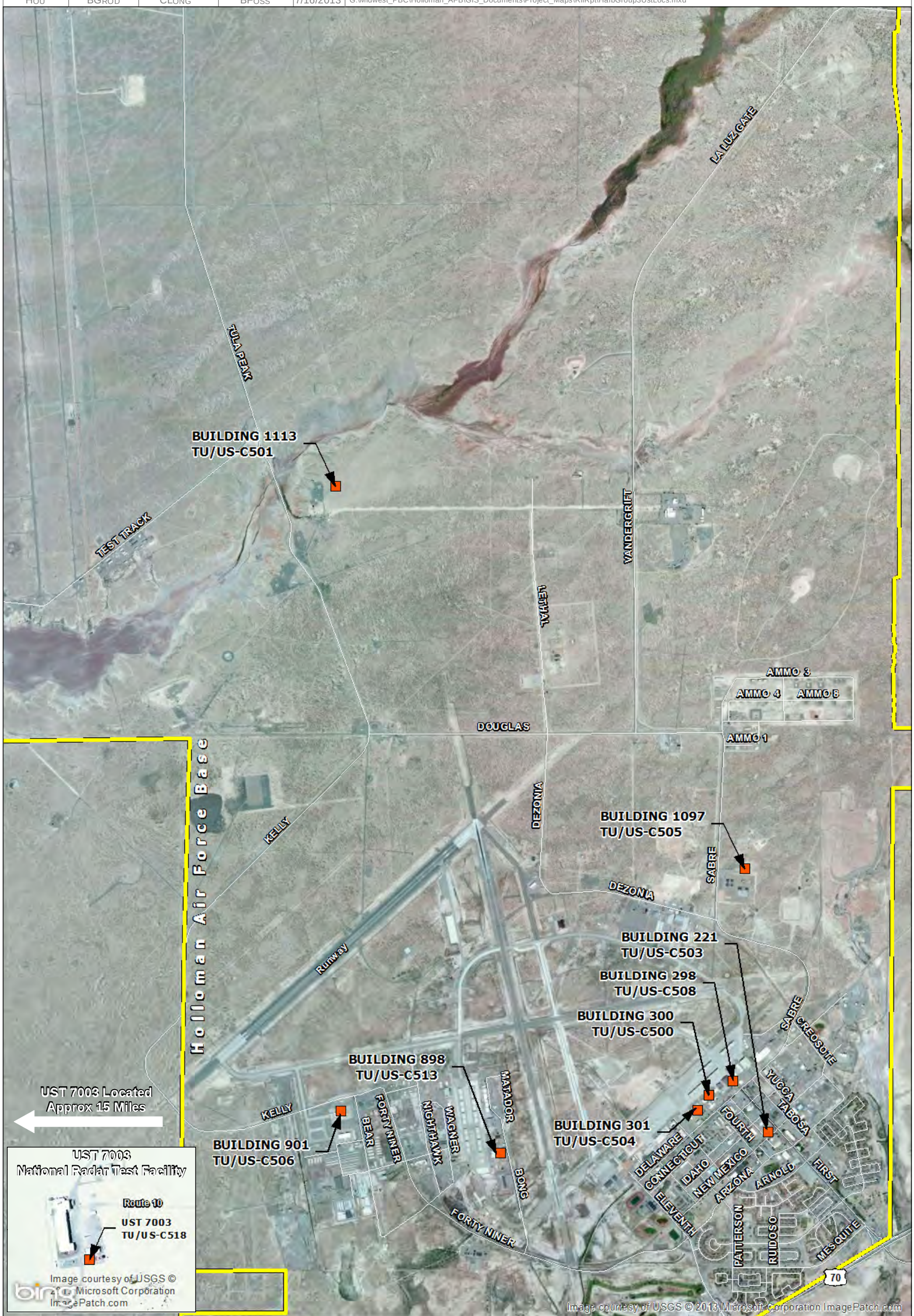


LEGEND

Holloman AFB

Group 3
Underground Storage Tank (UST) Sites

Note:
1) UST 7003 (TU/US-C518) is located approximately 15 miles Northwest at the National Radar Test Facility.

N

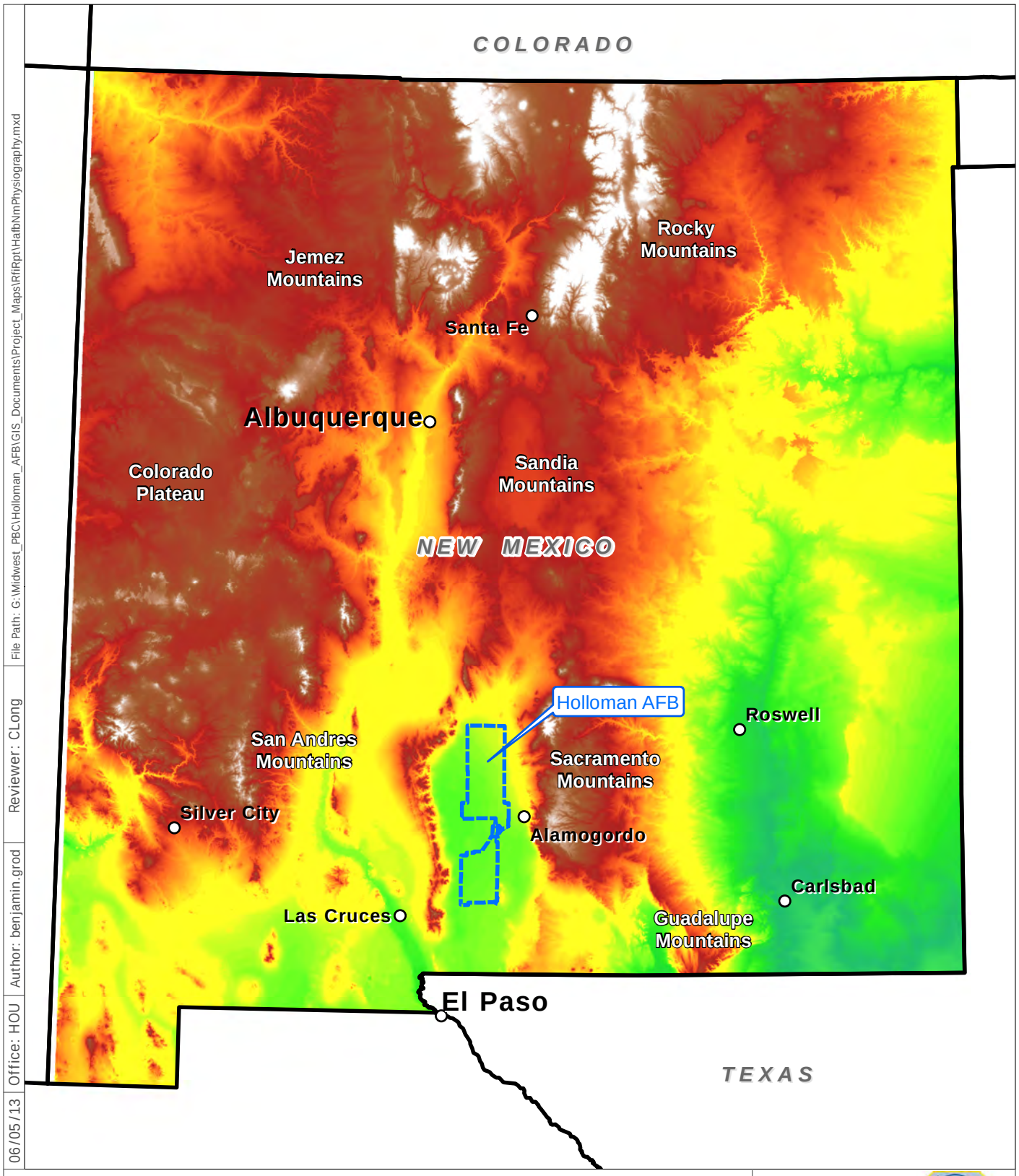
WGS 84 UTM Zone 13N
Meters

1 inch = 2,800 feet

0 700 1,400 2,800
Feet

CBI

Figure 1-2
Holloman
Air Force Base (AFB)
Group 3 UST Locations
Holloman AFB, NM



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Reviewer: CLong

Author: benjamin.grod

Office: HOU

06/05/13

Legend

Holloman Air Force Base (AFB) Installation Area

Elevation

- High : 3,936 meters
- Low : 0 meters

N

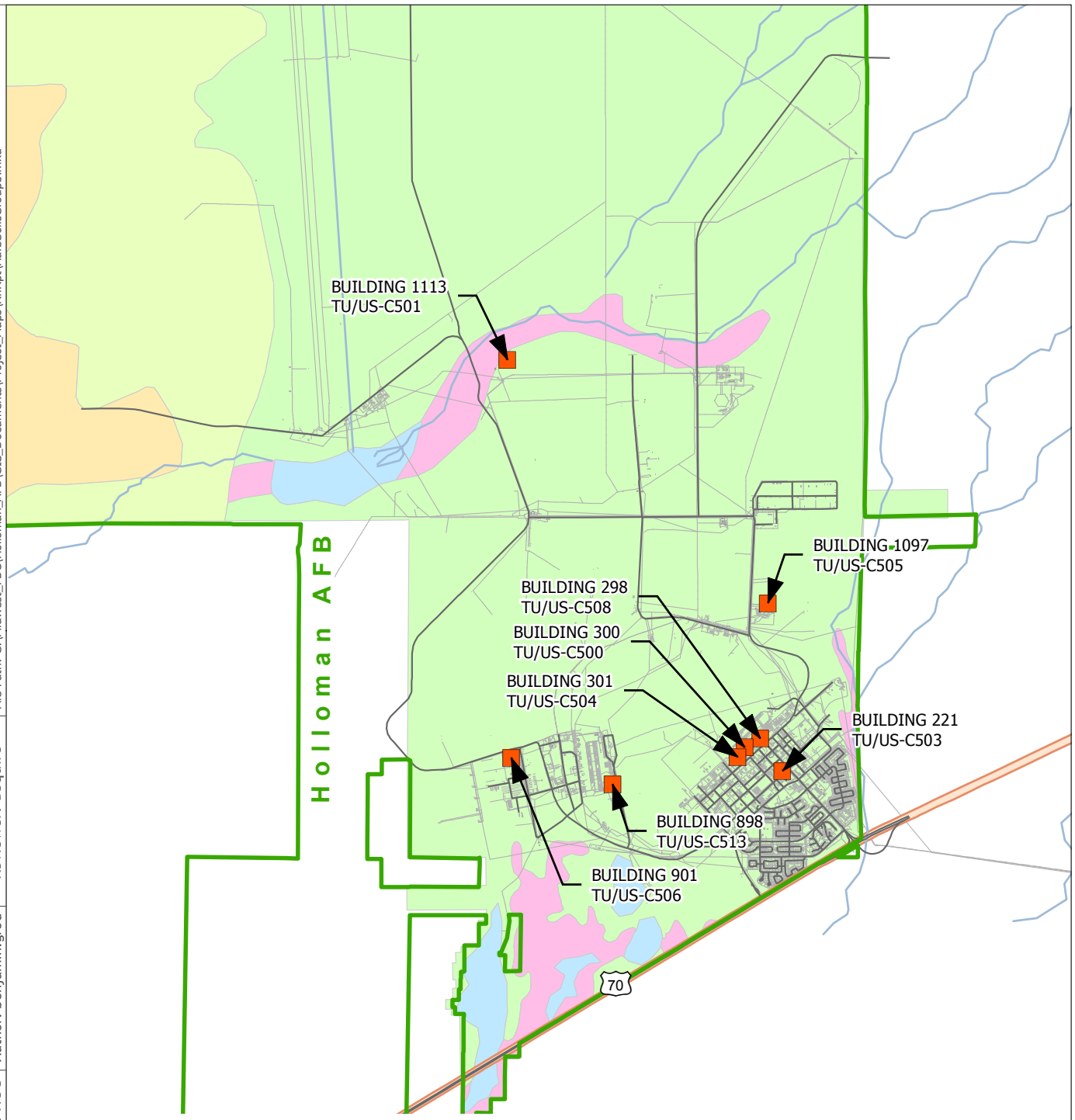
NAD 83 SPCS
New Mexico Central
Feet

0 50
Miles

Figure 2-1

Physiographic Map

Holloman AFB, New Mexico



Note:
1) UST 7003 (TU/US-C518) is located approximately 15 miles North/West at the National Radar Test Facility.
2) UST = Underground Storage Tank
3) Soils types at Holloman Air Force Base, New Mexico are based on United States Department of Agriculture (USDA) Soil Conservation Service Classifications. Source USDA, 1981

Legend

- Installation Area
- Group 3 UST Sites
- Surface Water
- Active Dune Land Gypsum
- Duneland Yesum Association
- Holloman-Gypsum Land-Yesum complex
- Intermittent Water
- Mead Silty Clay Loam
- Rock Land Warm

N

NAD 83 SPCS
New Mexico Central
Feet

0 7,000
Feet

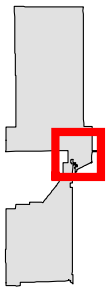
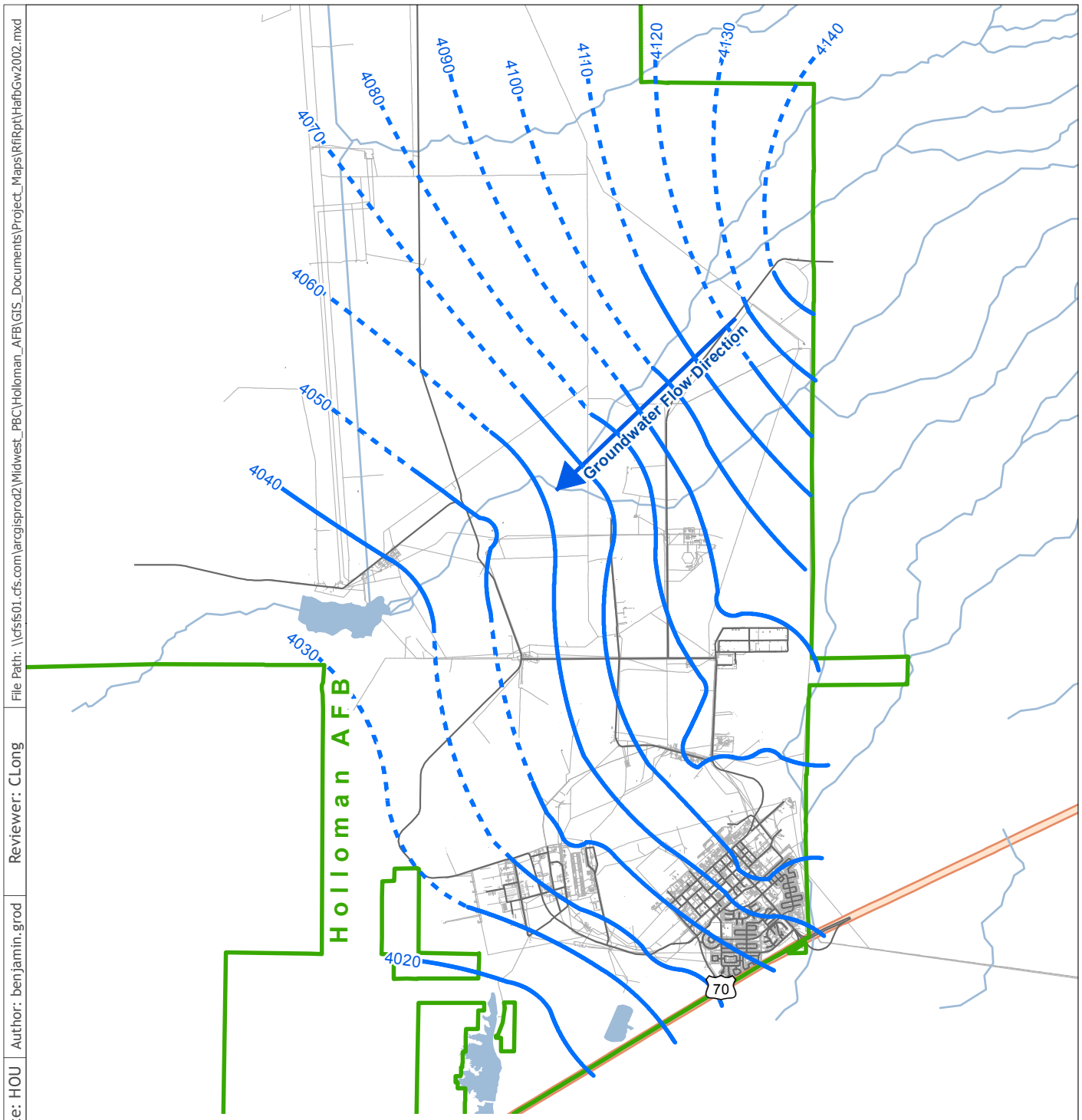


Figure 2-2

Group 3 UST Sites and Soils Map

Holloman AFB, New Mexico

File Path: G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\RfiRpt\HafbSoilsGroup3.mxd
Reviewer: BSquire
Author: benjamin.grod
Office: HOU
09/11/13



Note:
1) Groundwater contour map showing groundwater elevation contours across Holloman Air Force Base, New Mexico, are based on 2002 measurements taken from the shallow aquifer.
2) Source: Holloman AFB GIS, 2002 LTM.

File Path: \\cfsfs01.cfs.com\arcgisprod2\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\RfiRpt\HafbGw2002.mxd
Reviewer: CLong
Author: benjamin.grod
Office: HOU
08/28/13

Legend

- Installation Area
- Groundwater Flow Direction
- Groundwater Elevation Contour (ft) (Dashed where inferred)
- Surface Water

N

NAD 83 SPCS
New Mexico Central
Feet

0 8,000
Feet

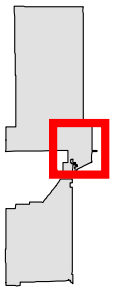
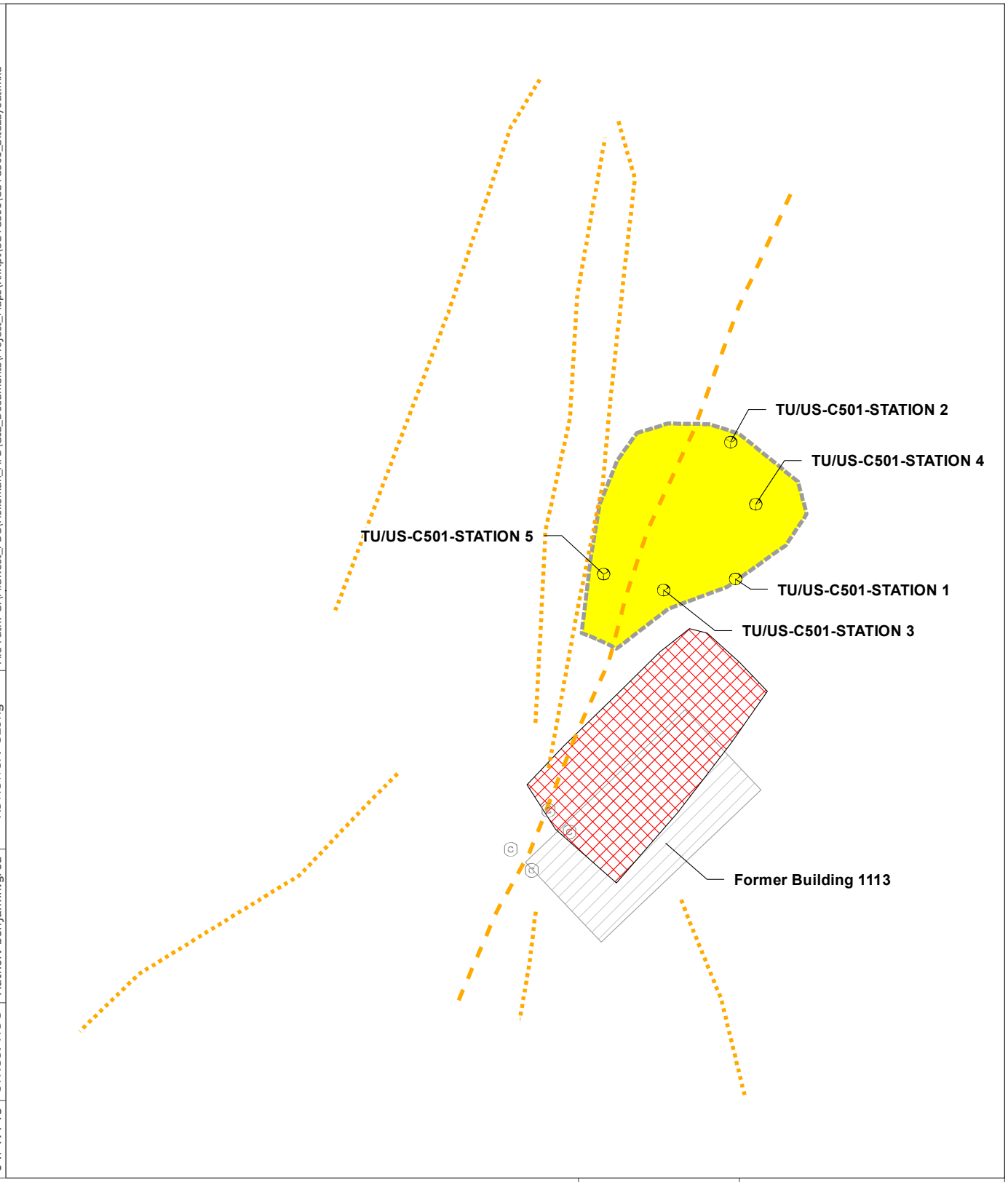


Figure 2-3

Regional Groundwater Contour Map

Holloman AFB, New Mexico



File Path: G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\RfiRpt\USTC501\USTC501_SiteLayout.mxd

Reviewer: CLong

Author: benjamin.grod

Office: HOU

04/17/13

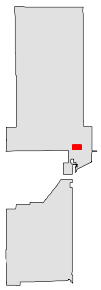
Legend

- Soil Boring Station
- Comm. Line Vault
- Unknown Utility
- Communication Utility
- UST Excavation
- Building Pad (Metal)
- Former Building

N

NAD 83 SPCS
New Mexico Central
Feet

0 10 20
Feet



CBI

Figure 3-1

Site Layout and
Sampling Locations
Building 1113 (TU/US-C501)

Holloman AFB, New Mexico

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix A
Historical Records

TANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Holloman AFB (Tank C[illegible]) Ph: 505-475-3931
Attn: 49 CES/CEV Mr. Darvin St John
550 Tabosa Ave.
Holloman AFB NM 88330-8458

Tank Owner 6
Mailing Address
Tank Address BUILDING 1113
Contractor Name J&D ENTERPRISES Phone (218) 729-9105
Address 5197 LAVAQUE Rd, DULUTH, MN 55803
Contractor Name SAME Phone
Address

15-3341
1, Hollowman AFB, NM 88330

Tank Closure Date 8/18/96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location BASIN PIPE & METAL ALAMOGORDO NM
City State

How did you assess site for leakage? 7 SOIL SAMPLES - LABORATORY ANALYZED
Closure report kept at HOLLOMAN AFB ENV. OFFICE BLDG 55
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

Bill Donovan Proj Supt.
Signature of owner or contractor performing work

****

FOR E D USE ONLY
Notification Received Approved By
Inspection Date Inspector

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2060-0063
APPROVAL EXPIRES 6-30-88

FOR TANKS IN **NM**

RETURN COMPLETED FORM TO

UST Bureau
N.M. Environment Department
P.O. Box 26110
1190 St. Francis Drive
Santa Fe, New Mexico 87502

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances *since January 1, 1974, that are in the ground as of May 8, 1986*, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be *based on reasonably available* records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, *owners of underground tanks that store regulated substances* must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an *underground* storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank *immediately* before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an *accumulation* of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance *defined as hazardous in section 101 (14) of the Comprehensive Environmental* Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. **This form must be completed for each location containing underground storage tanks.** If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached ☐

I. OWNERSHIP OF TANK(S)

Holloman AFB (Tank Owner)
Attn: 49 CES/CEV Mr. Darvin St John
550 Tabosa Ave.
Holloman AFB NM 88330-8458
(505) 475-3931

Area Code Phone Number

Type of Owner (Mark all that apply ☒)

☒ Current ☐ State or Local Gov't ☐ Private or Corporate
☐ Former ☒ Federal Gov't (GSA facility I.D. no. _____) ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable

BUILDING 1113

Street Address or State Road, as applicable

County

City (nearest) State ZIP Code

Indicate number of tanks at this location ☐

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐) Job Title Area Code Phone Number

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS *(Complete for each tank at this location.)*

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank *(Mark all that apply ☒)*					
Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought Into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	15				
3. Estimated Total Capacity (Gallons)	250				
4. Material of Construction *(Mark one ☒)*					
Steel	☒	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection *(Mark all that apply ☒)*					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection *(Mark all that apply ☒)*					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping *(Mark all that apply ☒)*					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Copper				
8. Substance Currently or Last Stored in Greatest Quantity by Volume *(Mark all that apply ☒)*					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☒	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify					
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance					
OR					
Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

☆ U.S. Government Printing Office: 1986—495-733

CERTIFICATE OF DESTRUCTION

For UST at Building Number 1113-1

Tank Owner Holloman AFB Phone CEV office (505) 475-3931

Address 49th Support Group, Holloman Air Force Base, NM 88330

Contractor Name Removing Tank J&D Enterprises of Duluth, Inc.

Address 5197 Lavague Road, Duluth, MN 55803 Phone (218) 729-9105

Contractor Name Transporting Tank J & D Enterprises, Inc.

Address 5197 Lavague Rd, Duluth, Mn. 55803 Phone (218) 729-9105

Contractor Name Destroying Tank J & D Enterprises, Inc.

Address 5197 Lavague Road, Duluth, Mn. 55803 Phone (218) 729-9105

I hereby certify that I, Bill Donovan (Signature of contractor destroying tank.) destroyed said tank listed above on 3/18/96 (MM/DD/YR).

Describe how tank was destroyed. Both ends were cut from the tank alongs with all interior piping, ladders, etc. The tank will be cut further into prepared sections (18" x 4') for recycling by Basin Pipe and Metal, US Hwy 54 & 70, Alamogordo, NM 88310.

CORRECTED COPY

MATERIAL APPROVAL SUBMITTAL
(See instructions on reverse)

FORM APPROVED OMB NO. 0704-0038

TO: *(Contracting Officer)* TSgt Daniel Acosta 49 Contracting Squadron, 1210 Forty Niner Ave, Holloman AFB, NM 88330	FROM: *(Contractor)* J&D Enterprises of Duluth, Inc. 5197 Lavaque Road, Duluth, MN 55803	DATE
CONTRACT NUMBER F29651-96-D0005	SUBMISSION NUMBER 020-I	SUBMITTAL ☒ NEW ☐ RESUBMITTAL
PREVIOUS SUBMISSION NUMBER	PROJECT NUMBER KWRD 94-3014	

TO BE COMPLETED BY CONTRACTOR			FOR GOVERNMENT USE ONLY			
ITEM NO.	SPECIFICATION SECTION/ PARA NO./DRAWING NO.	DESCRIPTION OF MATERIAL *(Include Type, Model Number, Catalog Number, Mfg., etc.)*	APPROVED	DISAPPROVED	SEE REVERSE	INITIAL
18	Section 02201 Para 1.03A.17	Excavation Hole Test Results and SHOP DRAWINGS				
		BUILDING 1143				

BY COMPLETING THIS FORM, THE UNDERSIGNED CONTRACTOR CERTIFIES THAT THE MATERIAL COMPLIES WITH ALL SPECIFICATIONS OF SUBJECT CONTRACT.

DATE	TYPE OR PRINT NAME AND TITLE	SIGNATURE
4/12/96	Rick Toland, Project Manager	

FOR GOVERNMENT USE ONLY

TO: *(Base Civil Engineering Officer)* 49CES/CECNC ATTN: SSgt Meyer

For Evaluation and Action. Return NLT 22APR96

DATE	TYPE OR PRINT NAME AND GRADE	SIGNATURE
15APR96	DANIEL ACOSTA, TSgt	

TO: *AF Contracting Officer)*

Recommend ☐ Approval ☐ Disapproval as Indicated Above and Subject to Any Applicable Comments on the Reverse

DATE	TYPE OR PRINT NAME AND GRADE	SIGNATURE

TO: *(Contractor)*

☐ Approved ☐ Disapproved as Indicated Above and Subject to Any Applicable Comments on the Reverse Side. Request Resubmittal on Disapproved Items Within _____ Days of Date Shown Below.

DATE	TYPE OR PRINT NAME AND GRADE	SIGNATURE

AF FORM 2000

COMMENTS

(Number to correspond with applicable Item Number on reverse)

INSTRUCTIONS TO CONTRACTORS

1. The term "material" is defined as articles, supplies, raw materials, equipment, parts, components, and end items that are to be incorporated into the work required by the contract.

2. This form is to be used by contractors for submitting Shop Drawings, Equipment Data, Manufacturer's Literature and Certificates and Samples of Materials to the Government for approval in accordance with the provisions of this contract. Unless otherwise specified, it is to be prepared in 4 copies, signed, and provided to the contracting officer with appropriate attachments.

3. Item(s) to be approved will be clearly tabbed or identified. Data pertaining to item(s) to be approved will be clearly identified or tabbed, particularly where documents are voluminous, in order to properly evaluate the materials or articles to be incorporated in the work. Each attachment will be numbered to correspond with the item number shown on the face of this form.

4. Requests submitted shall be numbered consecutively, by contract, in the space entitled "Submission No." This number, in addition to the Contract No., will be used to identify each Material Approval Submittal. Resubmissions will be indicated in the appropriate block and the insertion of previous submission number and date in addition to a new submission number. A single submission should be used for all work of a section of the specifications, but in NO instance should the submission include work for more than one (1) contract. Submittals requiring priority handling will be submitted by separate submittal using the form and so marked across the face of the form.

5. This material Approval Submittal is not valid unless it is signed by the contracting officer. This approval is required as called for by the contracting officer under the terms of this contract.

U.S. GOVERNMENT PRINTING OFFICE (1988-201-372:50171

INLAND ENVIRONMENTAL LABORATORIES

an IAT Company

J & D ENTERPRISES/Western Motel
1101 S White Sands Blvd
Alamagordo, NM 88310
Attn: Bill Donovan
Phone: (505) 479-9505
FAX #: (505) 479-9509

Date Received: 03/20/96
Date Reported: 03/26/96
Job IamNumber: JDE032096
Page #: 1
Project: 9631001
Contract F29651-96-D0006

[redacted]

1st SAMPLING (POST EXCAVATION)

#	SAMPLE NAME	SAMPLE DATE	TRPH 8015	TPH-Diesel
01	1113-1 Bottom 5'	03/18/96	ND gasoline; ND heavy oil	11400
02	1113-2 N wall 3'	03/18/96	ND gasoline; ND heavy oil	5350
03	1113-3 S wall 3'	03/18/96	ND gasoline; ND heavy oil	3490
04	1113-4 E wall 3'	03/18/96	ND gasoline; ND heavy oil	2830
05	1113-5 W wall 3'	03/18/96	ND gasoline; ND heavy oil	2390
06	1113-6 Stockpile	03/18/96	ND gasoline; ND heavy oil	11600
07	1113-7 Stockpile	03/18/96	ND gasoline; ND heavy oil	10100

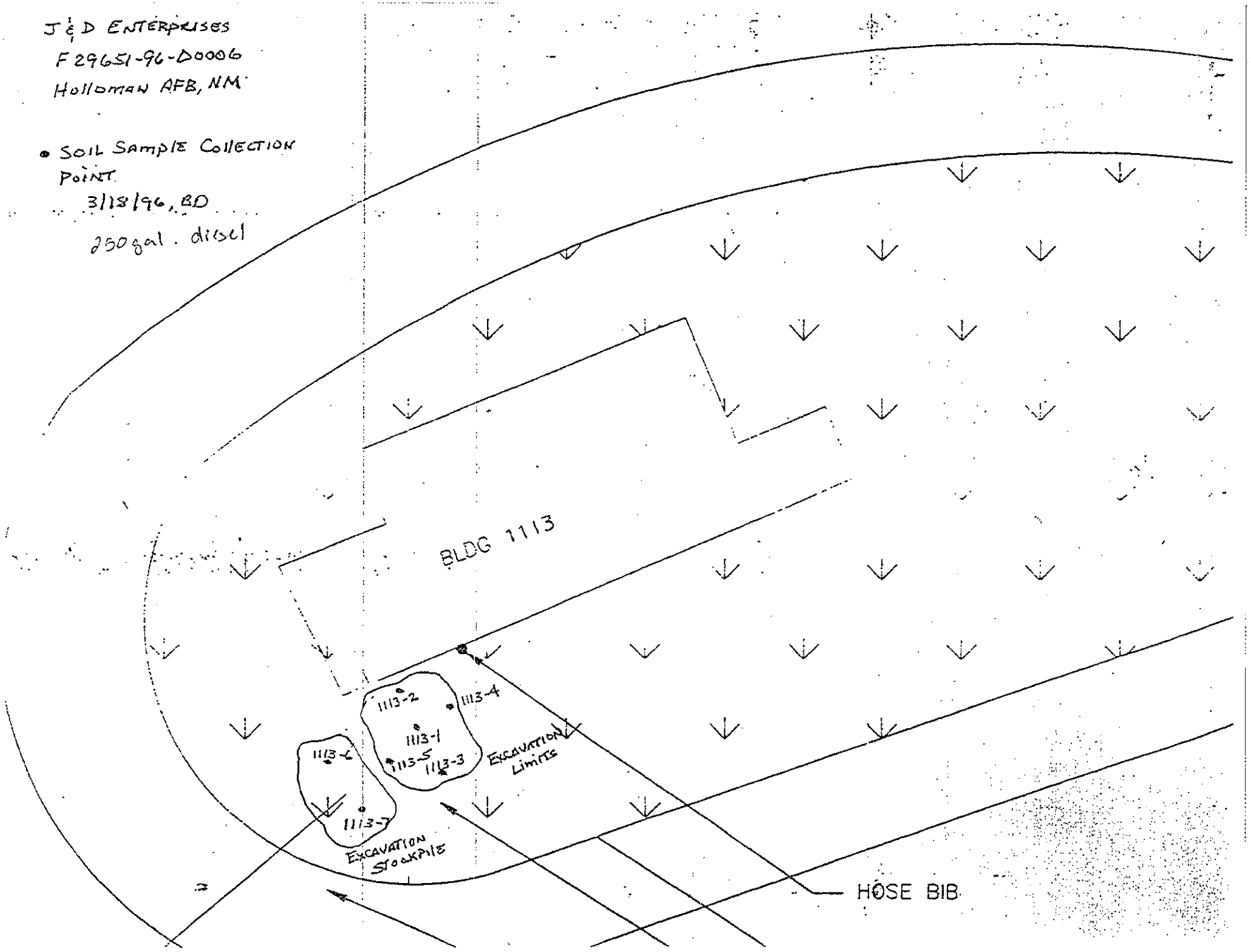
ND = <5.00 ppm gasoline, <20.0 ppm diesel, <50.0 ppm heavy oil

Units: mg/kg (ppm)

Customer Service Manager

J & D ENTERPRISES
F29651-96-D0006
HOLLOMAN AFB, NM

• SOIL SAMPLE COLLECTION POINT
3/18/96, BD
250 gal. diesel



NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
01	1113-8 Bottom 16'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
02	1113-9 S. Wall 12'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
03	1113-10 N. wall 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
04	1113-11 E wall 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
05	1113-12 W wall 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
06	1113-13 Stockpile 13'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
07	1113-14 Stockpile 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

INLAND ENVIRONMENTAL LABORATORIES

an IAT Company

Date Rec'd: 3/20/96
Date Due: 3/26/96
Job #: JDE032096

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

Company: J & D Enterprises, Inc.
Address: 5197 Lavaque Road
Duluth, Minnesota, 55803
Contact: Bill Donovan
Phone: (505) 479-9506
Fax: (505) 479-9509

#	Sample ID	Sample Date	# of Containers	Sample Type	TPH-D	TCLP	Non Halogen Semi Volatiles
1	1113-1 Bottom 5'	3/18/96	1	S	X	X	X
2	1113-2 N Wall 3'	3/18/96	1	S	X	X	X
3	1113-3 S. Wall 3'	3/18/96	1	S	X	X	X
4	1113-4 E Wall 3'	3/18/96	1	S	X	X	X
5	1113-5 W Wall 3'	3/18/96	1	S	X	X	X
6	1113-6 Stockpile	3/18/96	1	S	X	X	X
7	1113-7 Stockpile	3/18/96	1	S	X	X	X

	Signature	Printed Name	Firm	Time / Date
Relinquished By	B Donovan	Bill Donovan	J/D	4:00 3/19/96
Received By	N Balch	N Balch	DEL	10:34 3/20/96
Relinquished By				
Received By				
Relinquished By				
Received By				

SPECIAL INSTRUCTIONS/COMMENTS

Holloman AFB, NM
Contract No.: F29651-96-D0006
J & D No.: 9631001

Need Results By 3/26/96

DIESEL TANK

INLAND ENVIRONMENTAL LABORATORIES

J & D ENTERPRISES/Western Motel
1101 S White Sands Blvd
Alamogordo, NM 88310
Attn: Bill Donovan
Phone: (505) 479-9505
FAX #: (505) 479-9509

Date Received: 04/04/96
Date Reported: 04/11/96
Job Inst Number: JD8040496
Page #: 1
Project: 9631001
Contract: F29451-95-D0006

[redacted]

2 NP Sampling

#	SAMPLE NAME	SAMPLE DATE	TPH 8015	TPH-Diesel
01	1113-8 Bottom 15'	04/02/96	ND gasoline; ND heavy oil	7740
02	1113-9 S wall 12'	04/02/96	ND gasoline; ND heavy oil	9060
03	1113-10 N wall 14'	04/02/96	ND gasoline; ND heavy oil	2500
04	1113-11 E wall 14'	04/02/96	ND gasoline; ND Diesel; ND heavy oil	ND
05	1113-12 W wall 14'	04/02/96	ND gasoline; ND heavy oil	4400
06	1113-13 Stockpile	04/02/96	ND gasoline; ND heavy oil	1460
07	1113-14 Stockpile	04/02/96	ND gasoline; ND heavy oil	1530

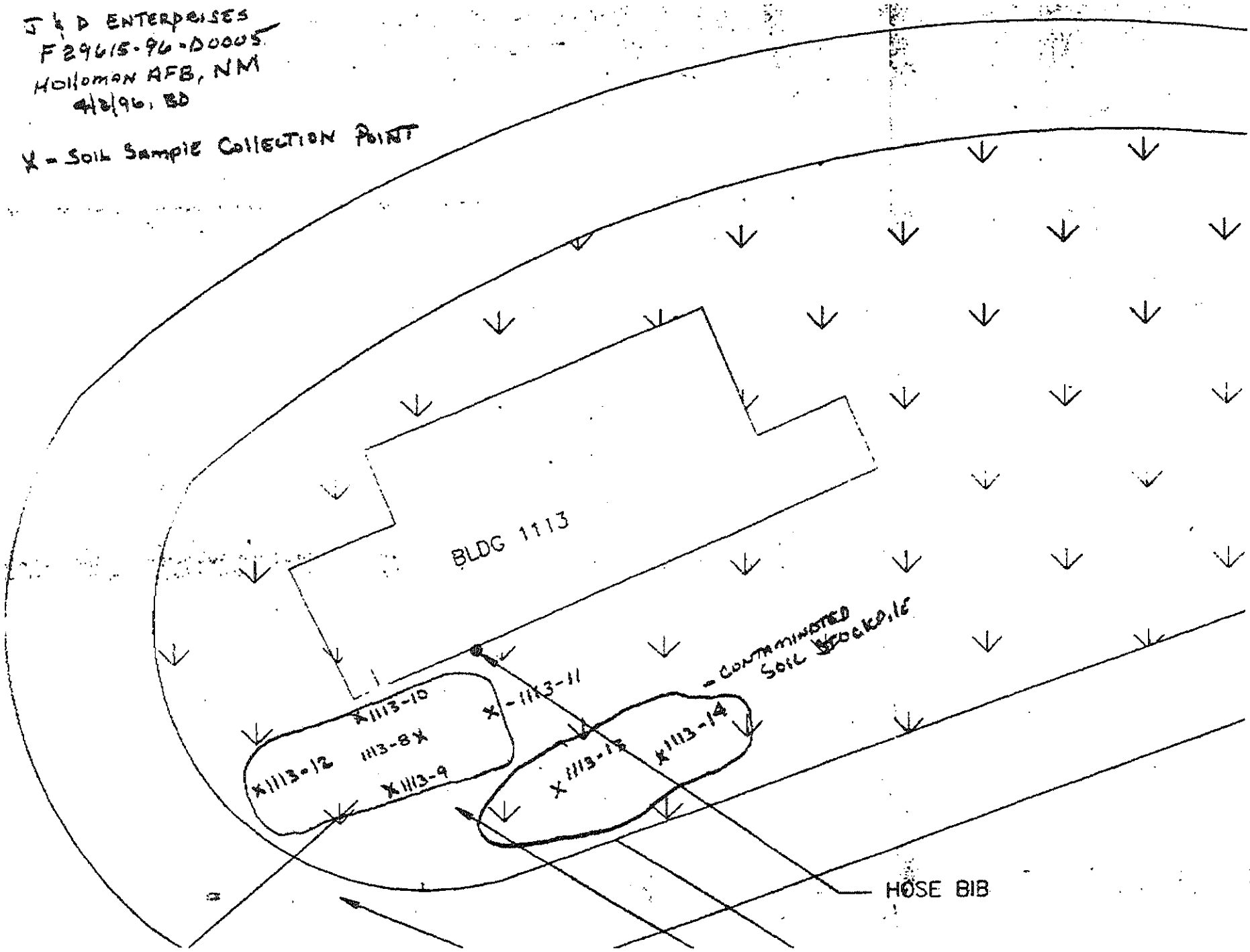
ND = <5.00 ppm gasoline, <20.0 ppm diesel, <50.0 ppm heavy oil

Units: mg/kg (ppm)

Customer Service Manager

J & D ENTERPRISES
F29615-96-D0005
HOLLOMAN AFB, NM
4/8/96, BD

X - SOIL SAMPLE COLLECTION POINT



NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
01	1113-8 Bottom 16'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
02	1113-9 S. Wall 12'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
03	1113-10 N. wall 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
04	1113-11 E wall 14'	04/02/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN					
#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm		
06	1113-12 W well 14'	04/02/96			
Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN					
#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm		
06	1113-13 Stockpile 13'	04/02/96			
Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

NON-HALOGENATED VOLATILE ORGANIC SCAN					
#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm		
07	1113-14 Stockpile 14'	04/02/96			
Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

INLAND ENVIRONMENTAL LABORATORIES

an IAT Company

Date Rec'd: 4/4/96
Date Due: 4/12/96
Job #: JD04041 96

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

Company: J & D Enterprises, Inc.
Address: 5197 Lavaque Road
Duluth, Minnesota, 55803

Contact: Bill Donovan
Phone: (505) 479-9506
Fax: (505) 479-9509

#	Sample ID	Sampling Date/Time	# of Containers	Sample Type	TRPH 8015	TPH Diesel	Non Halogenated Volatiles
1	1113-8 Bottom Na	4/2/96	1	S	X	X	X
2	1113-9 S. Wall 12'	4/2/96	1	S	X	X	X
3	1113-10 N. Wall 14'	4/2/96	1	S	X	X	X
4	1113-11 E. Wall 14'	4/2/96	1	S	X	X	X
5	1113-12 W. Wall 14	4/2/96	1	S	X	X	X
6	1113-13 Stockpile	4/2/96	1	S	X	X	X
7	1113-14 Stockpile	4/2/96	1	S	X	X	X

	Signature	Printed Name	Firm	Time / Date
Relinquished By:	B. Donovan	Bill Donovan	J/D	3:00 4/3/96
Received By:	N Bach	N Bach	IEL	10:30 4/4/96
Relinquished By:				
Received By:				
Relinquished By:				
Received By:				

SPECIAL INSTRUCTIONS/COMMENTS:
Holloman AFB, NM
Contract No.: F29651-96-D0006
J & D No.: 9631001

Need Results By 4/12/96 AM

Diesel Tank

E. 16610 Euclid Avenue • Spokane, WA 99215 • 1-509-928-5651
Mailing Address: PO Box 14784 • Spokane, WA 99214

INLAND ENVIRONMENTAL LABORATORIES

an IAT Company

J & D ENTERPRISES
5197 LaVaque Rd
Duluth, MN 55803
Attn: Bill Donovan
Phone: (505) 430-2435
FAX #: (218) 729-6031

Date Received: 04/26/96
Date Reported: 05/01/96
Job IamNumber: JDE042696
Page #: 1
Project: 9631001
Contract F29651-96-D0006

#	SAMPLE NAME	SAMPLE DATE	TRPH 8015	TPH-Diesel
01	1113-15 Bottom	04/25/96	ND gasoline; ND heavy oil	4400
02	1113-16 N wall 15'	04/25/96	ND gasoline; ND heavy oil	3300
03	1113-17 E wall 14'	04/25/96	ND gasoline; ND Diesel; ND heavy oil	ND
04	1113-18 S wall 15'	04/25/96	ND gasoline; ND heavy oil	3100
05	1113-19 Stockpile	04/25/96	ND gasoline; ND heavy oil	2700

ND = <5.00 ppm gasoline, <20.0 ppm diesel, <50.0 ppm heavy oil

Units: mg/kg (ppm)

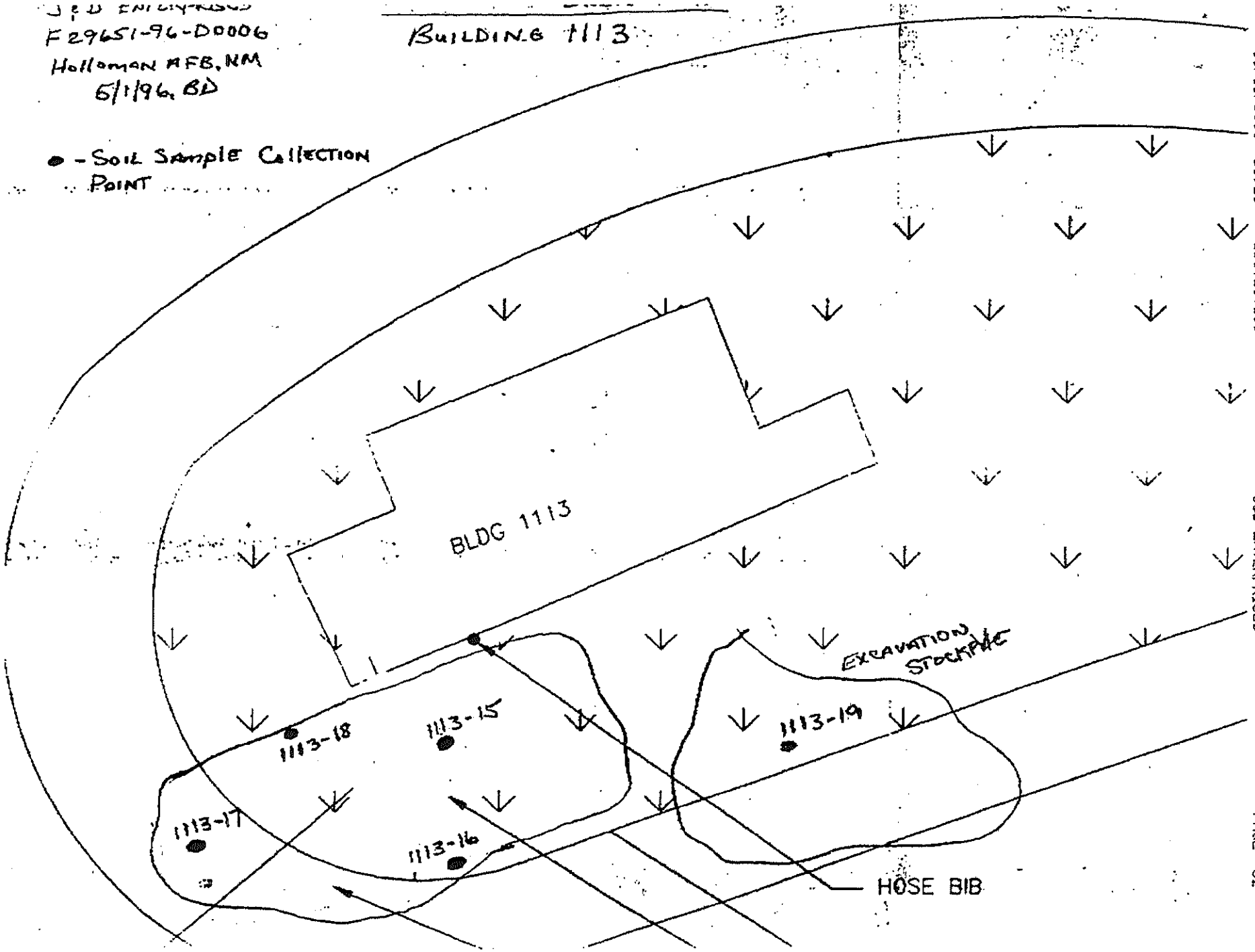
Nitta Balch
Customer Service Manager

E.16810 Euclid Avenue ♦ Bldg S-19 ♦ Spokane, WA 99216 ♦ (509) 928-5651

J&D ENTERPRISES
F29651-96-D0006
Holloman AFB, NM
6/1/96, BD

BUILDING 1113

● - SOIL SAMPLE COLLECTION POINT



NON HALOGENATED VOLATILE ORGANIC SCAN

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
01	1113-15 Bottom	04/25/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
02	1113-16 N wall 15'	04/25/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
03	1113-17 E wall 14'	04/25/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
04	1113-18 S wall 14'	04/25/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

#	SAMPLE NAME	SAMPLE DATE	EPA METHOD 8015 Units: ppm
05	1113-19 Stockpile	04/25/96	

Butanone	<1.0	2-Hexanone	<1.0	4-Methyl-2-Pentanone	<1.0
Diethyl ether	<0.5				

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix B
Geophysical Report

ULS SERVICES CORPORATION

SAN DIEGO–LA . SF- SAC . SEATTLE . ALASKA . HAWAII- GUAM

1 (800) 528 – 8206 www.geomarkout.com 1 (866) 804 – 5734

---------- *A Veteran Owned Small Business* ----------

5 July 2012

Christopher Long, P.G.
Scientist
Federal Services
Shaw Environmental, Inc.
1401 Enclave Parkway, Suite 250
Houston, TX 77077

Subject: Field Documentation Report for Geophysical Services - Location of Utilities and Underground Features Associated With Former UST and Septic System Sites, Holloman AFB, NEW MEXICO (SHAW PO 783916-000 OP)

Gentlemen:

This report documents the recent Geophysical Survey field work ULS Services Corp completed at the subject site On and between the dates of 11 June 2012 thru 23 June 2012.

SCOPE OF WORK

Scope of this work is includes geophysical services at approximately 29 Former UST or Septic Systems sites located across Holloman AFB that have reportedly undergone past abandonment in place or excavation activities. Geophysical services are employed in an attempt to locate potential USTs, former UST excavation areas, abandoned septic tanks or excavations and associated leach field areas. Location of underground utilities near these observed features is included. Observations are marked out in field and electronically mapped with GPS data collection and GIS presentation. Survey of each site is approximately 25 by 25 to 100 by 100 feet in size.

METHODS

Methods utilized in performance of this work include: Visual Inspection, Analog Real - Time Electromagnetic Induction Conductivity Detection (EMICD), Magnetic Locating (MGL), Ground Penetrating Radar (GPR), and EM Pipe and Cable Location (EMPCL). A sub-meter WAAS GPS receiver with automatic real -time differential correction and ESRI Arcpad software is utilized to collect observation data. ESRI Arc View 10 GIS software is utilized for mapping presentation.

EMIMD ground induction methods are employed to detect both 1) broad metal mass anomalies (Rectangular Surface Projections) or conductive zones that may be indicative of potential USTs – Septic tanks, conductive metal debris, steel reinforced concrete, UST's, building hosts, piping, building demo materials, drums, sumps or other unknown burial materials; and 2) to detect relative lateral changes in conductive zones of soil or backfill materials relative to native soils. Former UST excavations and septic -leachate material may potentially have a higher conductive response or well drained leachate fill materials associated with septic systems may in some cases exhibit a relatively lower or quiet conductive response relative to surrounding higher conductive soil response. A two-way Cartesian grid pattern of five by five feet is walked within the search area (site). Observations are real time and marked on ground surface with paint and pin flagging. Observations are collected with a sub- meter GPS with automatic differential correction and plotted approximately onto web based imagery.

GPR is utilized to detect and potentially observe former UST excavation sidewalls as well as septic – leach field pit sidewall and fill areas. GPR is also utilized to compliment the EM Pipe and Cable utility survey work by potentially locating conductive as well as non-conductive utilities.

A EM Pipe and Cable Survey is conducted at each site by performing ambient passive live power and communication line sweeps, active ground induction sweeps, and active direct- connect or induction- clamp sweeps using existing conducts or pipes visibly nearby. Multiple active frequencies are utilized for best Detection. Utilities are identified where possible and marked unknown if not identified.

All observations are marked with hi-visibility orange-red marking paint. Some Ares are hi-lighted with black paint due to light soil conditions. GPR boundaries indicating potential septic tank and leach field areas are outlined with black paint. Pin flags are also utilized to mark these boundaries in soft soil and weed areas.

OBSERVATIONS

Site Description

The Project Site (Holloman AFB - Former UST and Septic Systems) is comprised of approximately 29 different environmental site locations (heir in referred to as Sites) . Each sites includes and varies in description from existing active building locations to in-active remote abandoned to former building areas where USTs or Septic systems were utilized in the past. Each Site is fairly flat with sandy to gravelly surface conditions. Some sites include native brush and weeds. Sites near active building areas include asphalt or concrete surfaces, sidewalks and planter areas. ULS field staff helped review historical documentation available of each site in the field. Where available, drawings and photographs were reviewed. When available, reported GPS coordinates from reports, of septic tank locations, were utilized by SHAW field staff to navigate to septic tank location to aid focus search area.

Generally there are no surface indications of USTS or Septic tanks, however some limited features exist at some sites and include potential vent riser pipes and asphalt patching, settling areas, and conidial – rectangular cracks in concrete. Surface indications of septic systems at some sites include potential inactive clean- outs pipes near building and nearby existing upgraded sewer man-hole systems that have been connected to the existing Base sewer collection system. Some septic system sites have open holes , surface erosion, and associated potential underground voids observed near the inactive cleanouts and suspected septic search area.

General EM - MAG and GPR Instrument Survey Results

Former UST Sites

General ambient or background EM conditions at this site are categorized as being high or noisy most likely resulting from caliche or saline soil conditions throughout the area. These conditions all result in a high ambient background EMICD response that are difficult to filter out, however, subtle to distinct lateral changes are observed potentially marking position of former UST excavations. Magnetic locator is not affected by saline conditions. GPR response in these conditions is poor to somewhat fair, however, subtle, trends in GPR observations exhibit dipping or high angle (from horizontal) refraction bands indicating potential soil side-wall trends allowing for location of approximate former excavations. The use of EMICD and GPR data in conjunction with historical information and physical observations are all utilized to mark the approximate location of potential former USTs in the field as shown on the GIS imagery maps.

General EM - MAG and GPR Instrument Survey Results

Former UST Sites

Similar response is observed near former septic systems. Most all septic tanks are reported to have been abandoned in place or partly crushed in place. Magnetic locator surveys revealed concentrated areas of metal response (metal anomalies) likely from metal plates and rebar in septic tanks in areas near former sewer clean-outs and next to reported septic tank locations where latitude and longitude data is available. EM Induction and GPR transects over these metal anomalies further corroborated these findings. EM Induction survey results near the effluent (down gradient) side of metal anomalies (potential septic tanks) resulted in observation of relatively moderately higher lateral response to zones of low to quiet lateral response zones near the septic tanks relative to the ambient response in surrounding area. GPR data across these zones exhibited very subtle side-wall trends that appear to corroborate with EMICD findings. The use of EMICD and GPR data in conjunction with historical information and physical observations of cleanouts, soil erosion, voids and vegetation change are all utilized to mark the approximate location of potential former USTs in the field and as shown on the GIS imagery maps.

CONCLUSIONS and LIMITATIONS

The use of EMICD and GPR data in conjunction with historical information and physical observations of reported building location, vent riser location, boiler room location, existing and abandoned sewer cleanouts, soil erosion, voids and vegetation change are all utilized to mark the approximate location of potential former USTs , Septic tanks and leach fields. Ambient soil conductivity at this site is very high and EM and GPR data observed is very subtle. Field trends are used to mark the approximate location of potential targets.

As in any type of survey or investigation to determine characteristics below grade, careful exploratory excavation or drilling may be needed to further help determine a more accurate determination of the subsurface. Use of hand tools and air knifing is also useful to help as a safety measure. Base one- call utilities, as well as, private 811 one –call should be consulted and recalled as necessary.

If you have any questions regarding this report please contact me at (206) 384- 2857.

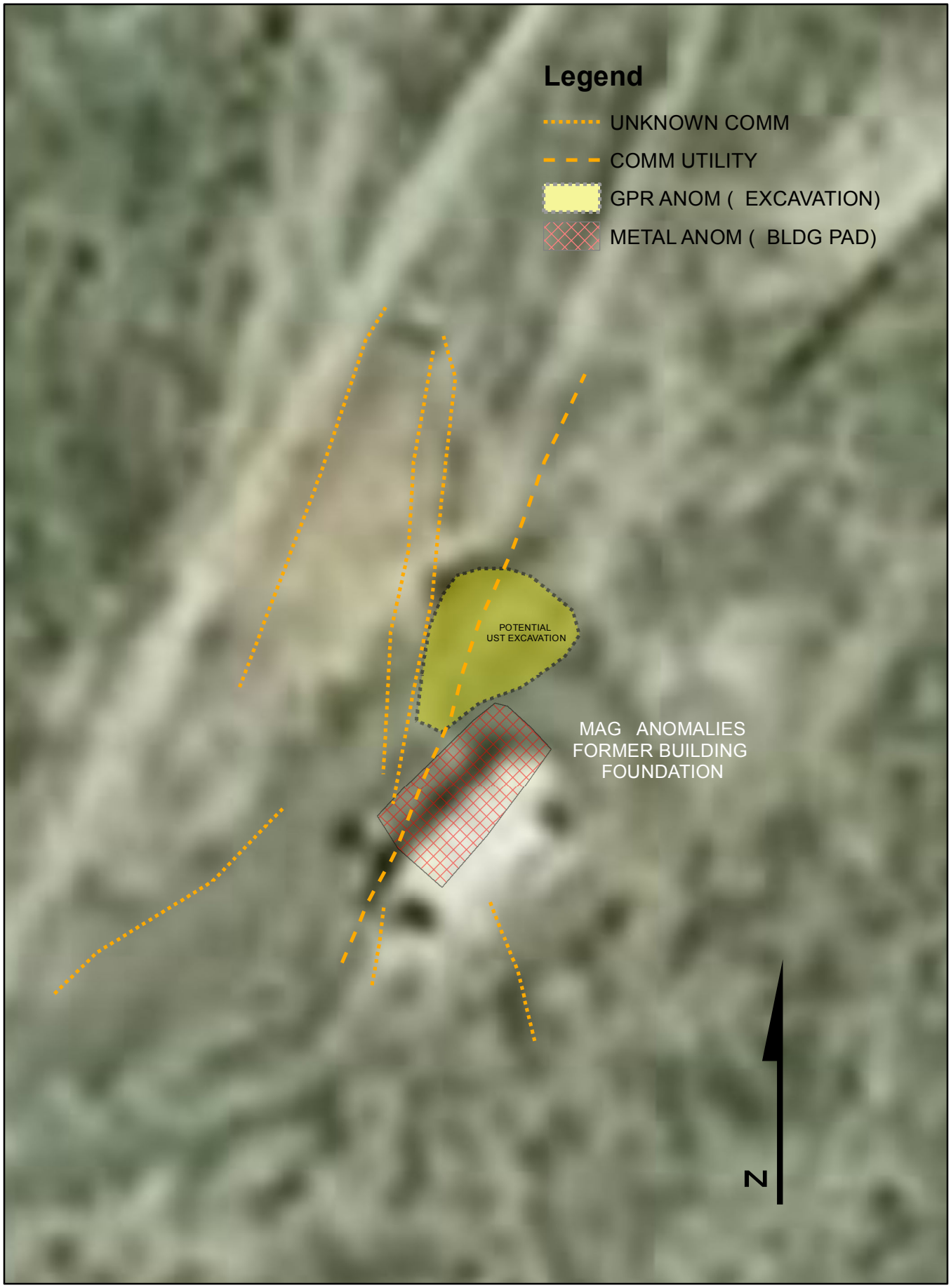
Sincerely,

ULS SERVICES CORPORATION
Geomarkout tradename

Michael W. Benedict
Site Representative

Admin Office/Billing: PO Box 724 Pocatello, Idaho 83204
(208) 234-1441 Fax (208) 234-1507 1 800 301-4420
Seattle / Portland / SAC / Alaska / HWI – AS - GUAM Operations
1 - (866) 804- 5734 / San Diego – LA / Operations 1 - (800) 528-8206

BLDG 1113 FORMER UST AREA
HOLLOMAN AFB



WGS_1984_UTM_Zone_13N
ULS SERVICES CORP
mwb 11 June 2012

0 10 20 40 60 80 Feet

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix C
Soil Boring Logs

Boring ID: TU/US-C501 Station 1

Client: Holloman AFB
Project Location: Holloman AFB, NM
Project Name: Midwest PBR
Project Number: 144106.JM20000
Project Site: Building 1113

Date Completed: 7/24/2012
Drilling Contractor: Major Drilling
Drilling Method: DPT
Logged By: C. LaChance

Ground Elevation AMSL (ft):4087.80
Y Coordinate: 689003.6543
X Coordinate: 1679963.4000

Depth (ft)	Sample Type	Sample Number	PID (ppm)	Lithologic Log	Material Description	U.S.C.S.	Remarks
0			0.0		Fill material from 0 - 22 ft; silty sand.		Hand auger from 0 - 5 ft. Began drilling @ 0905 on 7/24/12.
					Same as above (0 ft).		Formerly excavated down to 23 ft bgs in 1996. Use DPT instead of trenching.
5			0.0		Same as above (0 ft).		
10			0.0		Same as above (0 ft).		
15			0.0		Same as above (0 ft).		
20			0.0		Same as above (0 ft).		
25		USTC501-CS-0001-072412 and USTC-CS-0002-072412-FD	0.0		Lean CLAY with Sand (CL); dark reddish brown (2.5YR 3/4); dry; firm; medium plasticity; 60% clay; 20% silt; 20% very fine sand; no odor.	CL	Acetate sleeve stuck in core barrel.
30							**Water table not encountered in this boring. Total depth = 30 ft. Reached total depth on 7/24/12.

FFOR_BOREHOLE_LOG - CLT CLAIRE TEMPLATE 21.GDT - 3/27/13 15:26 - N:\MIDWESTERN REGION PBR\MIDWEST GINT\HOLLOMAN AFB\MIDWEST_PBR_HOLLOMAN.GPJ

Boring ID: TU/US-C501 Station 2

Client: Holloman AFB
Project Location: Holloman AFB, NM
Project Name: Midwest PBR
Project Number: 144106.JM20000
Project Site: Building 1113

Date Completed: 7/24/2012
Drilling Contractor: Major Drilling
Drilling Method: DPT
Logged By: C. LaChance

Ground Elevation AMSL (ft):4087.78
Y Coordinate: 689028.1642
X Coordinate: 1679962.2584

Depth (ft)	Sample Type	Sample Number	PID (ppm)	Lithologic Log	Material Description	U.S.C.S.	Remarks
0			0.0		Fill material from 0 - 22 ft; silty sand.		Hand auger from 0 - 5 ft. Began drilling @ 1042 on 7/24/12.
5			0.0		Same as above (0 ft).		
10			0.0		Same as above (0 ft).		
15			0.0		Same as above (0 ft).		
20			0.0		Same as above (0 ft).		
25		USTC501-CS-0003-072412	0.0		Lean CLAY with Sand (CL); dark reddish brown (2.5YR 3/4); dry; firm; medium plasticity; 60% clay; 20% silt; 20% very fine sand; no odor. Note: large gypsum crystals present.	CL	Acetate sleeve stuck in core barrel. Took a while to pull out. **Water table not encountered in this boring. Total depth = 30 ft. Reached total depth on 7/24/12.
30							

FFOR_BOREHOLE_LOG - CLT CLAIRE TEMPLATE 21.GDT - 3/27/13 15:43 - N:\MIDWESTERN REGION PBR\MIDWEST GINT\HOLLOMAN AFB\MIDWEST_PBR_HOLLOMAN.GPJ

Boring ID: TU/US-C501 Station 3

Client: Holloman AFB
Project Location: Holloman AFB, NM
Project Name: Midwest PBR
Project Number: 144106.JM20000
Project Site: Building 1113

Date Completed: 7/24/2012
Drilling Contractor: Major Drilling
Drilling Method: DPT
Logged By: C. LaChance

Ground Elevation AMSL (ft):4087.96
Y Coordinate: 689001.5369
X Coordinate: 1679950.5757

Depth (ft)	Sample Type	Sample Number	PID (ppm)	Lithologic Log	Material Description	U.S.C.S.	Remarks
0			0.0		Fill material from 0 - 13 ft; silty sand.		Hand auger from 0 - 5 ft. Began drilling @ 1126 on 7/24/12.
5			0.0		Same as above (0 ft).		
10			0.0		Same as above (0 ft).		
		USTC501-CS-0004-072412	0.0		Lean CLAY with Sand (CL); dark reddish brown (2.5YR 3/4); dry; firm; medium plasticity; 60% clay; 20% silt; 20% very fine sand; no odor.	CL	
15							Refusal @ 14 ft. Reached total depth on 7/24/12.
							**Water table not encountered in this boring.
20							
25							
30							

FFOR_BOREHOLE_LOG - CLT CLAIRE TEMPLATE 21.GDT - 4/25/13 15:29 - \\SEIALBFPS01\EDATA\COMMON\MIDWESTERN REGION PBR\MIDWEST GINT\HOLLOMAN AFB\MIDWEST_PBR_HOLLOMAN.GPJ

Boring ID: TU/US-C501 Station 4

Client: Holloman AFB
Project Location: Holloman AFB, NM
Project Name: Midwest PBR
Project Number: 144106.JM20000
Project Site: Building 1113

Date Completed: 7/25/2012
Drilling Contractor: Major Drilling
Drilling Method: DPT
Logged By: M. Hardner

Ground Elevation AMSL (ft):4087.76
Y Coordinate: 689017.1194
X Coordinate: 1679966.8540

Depth (ft)	Sample Type	Sample Number	PID (ppm)	Lithologic Log	Material Description	U.S.C.S.	Remarks
0					Fill material from 0 - 14 ft; silty sand.		Hand auger from 0 - 5 ft. Began drilling on 7/25/12.
5			0.0		Same as above (0 ft).		
10			0.0				
15			0.0		Lean CLAY (CL); white; dry; loose; silty; trace fine gravel. Same as above (0 ft).	CL	
		USTC501-CS-0005-072512			Silty SAND (SM); reddish brown; dry; very fine sand; silty; trace clay.	SM	
20			0.0		Lean CLAY (CL); medium brown; dry; stiff; slight petroleum odor. Note: gypsum present.	CL	Total depth = 20 ft. Reached total depth on 7/25/12. **Water table not encountered in this boring.
25							
30							

FFOR_BOREHOLE_LOG - CLT CLAIRE TEMPLATE 21.GDT - 4/25/13 15:30 - \\SEIALBFPS01\EDATA\COMMON\MIDWESTERN REGION PBR\MIDWEST GINT\HOLLOMAN AFB\MIDWEST_PBR_HOLLOMAN.GPJ

Boring ID: TU/US-C501 Station 5

Client: Holloman AFB
Project Location: Holloman AFB, NM
Project Name: Midwest PBR
Project Number: 144106.JM20000
Project Site: Building 1113

Date Completed: 7/25/2012
Drilling Contractor: Major Drilling
Drilling Method: DPT
Logged By: M. Hardner

Ground Elevation AMSL (ft):4087.80
Y Coordinate: 689004.2631
X Coordinate: 1679939.7319

Depth (ft)	Sample Type	Sample Number	PID (ppm)	Lithologic Log	Material Description	U.S.C.S.	Remarks
0			0.0		Fill material from 0 - 9 ft; Lean CLAY wtih Sand (CL); white to tan; dry.		Hand auger from 0 - 5 ft. Began drilling on 7/25/12.
5			0.0		Same as above (0 ft).		
10			0.0		Silty SAND (SM); white to tan; dry; loose; very fine sand; trace clay; no odor.	SM	
15		USTC501-CS-0006-072512	0.0		Lean CLAY (CL); reddish brown; dry; stiff to hard; silty.	CL	Total depth = 15 ft. Reached total depth on 7/25/12. **Water table not encountered in this boring.
20							
25							
30							

FFOR_BOREHOLE_LOG - CLT CLAIRE TEMPLATE 21.GDT - 4/25/13 15:34 - \\SEIALBFPS01\EDATA\COMMON\MIDWESTERN REGION PBR\MIDWEST GINT\HOLLOMAN AFB\MIDWEST_PBR_HOLLOMAN.GPJ

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix D
Photographic Documentation

Building 1113 (TU/US-C501) Photograph Log

Photo No.	Description
1	Conducting Geophysical Survey at Former Building 1113 TU/US-C501 Site
2	Former Building 1113 Location (foreground) and UST Location (background)
3	View of Former UST Location (foreground)
4	Former Excavation Soil Stockpile Location
5	Borehole Locations Staked
6	Drums Containing Soil Cuttings

PHOTO 1: Conducting Geophysical Survey at Former Building 1113 TU/US-C501 Site

PHOTO 2: Former Building 1113 Location (foreground) and UST Location (background)

PHOTO 3: View of Former UST Location (foreground)

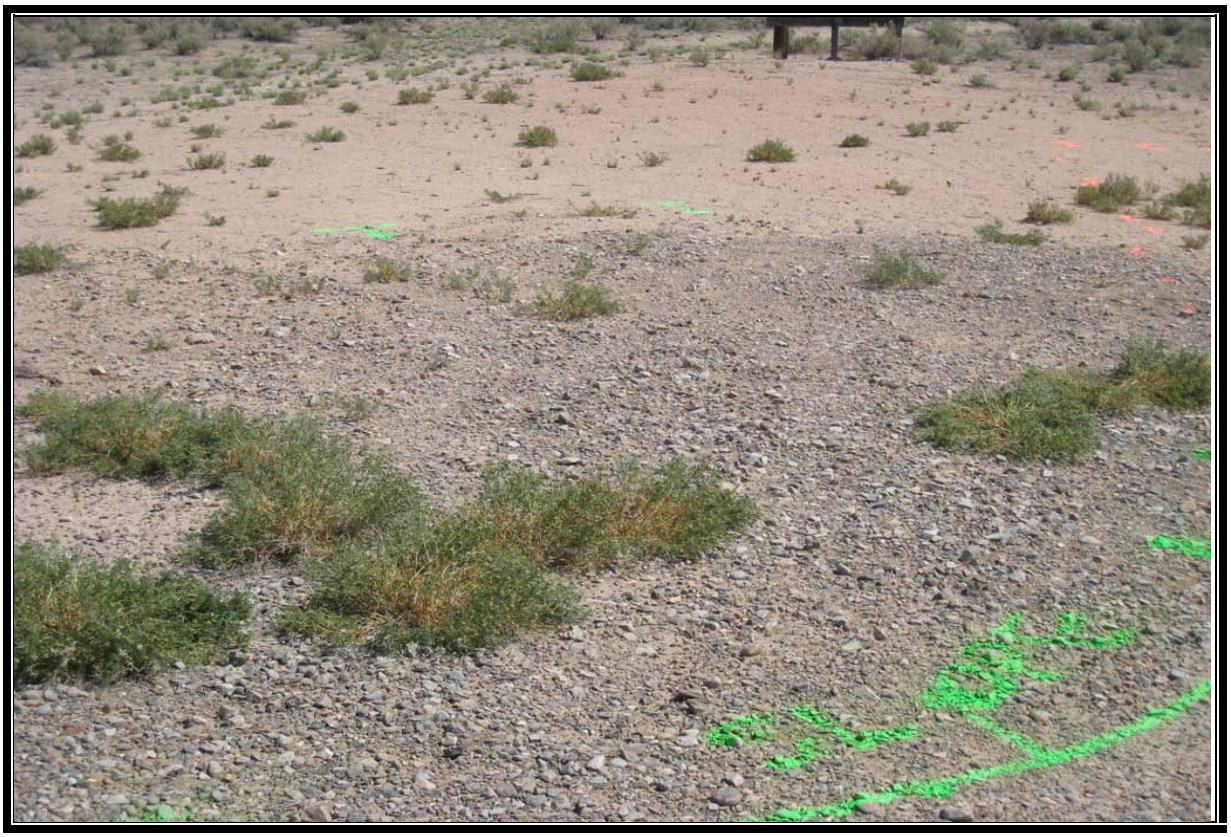


PHOTO 4: Former Excavation Soil Stockpile Location

PHOTO 5: Borehole Locations Staked

PHOTO 6: Drums Containing Soil Cuttings

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix E
Sample Collection Logs

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code **USTC501**

RFA / COC Number 144106-H018

Sample Number **USTC501-CS-0001-~~MMDDYY~~** 072412

Task

Sample Name **USTC501-z-USTC501-CS-0001-~~MMDDYY~~Y-z** 072412

Collection Date 7/24/12

Collection Time 0943

Sampling Method **Unknown**

Sample Type **Unknown**

Start Depth 24

Sample Purpose **Unknown**

End Depth 25

QC Code **NORMAL ENVIRONMENTAL SAMPL**

Sampling Equip Disposable bowl and scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ *(EB)* _____ *(FB)* _____

SampleTeam CL

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm

Station 1

Sketch Location:

Shaw

Logged By / Dat [signature] 7/24/12

Reviewed By / Dat _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code **FIELDQC**

RFA / COC Number 144106-H018

Sample Number **USTC501-CS-0002-~~MMDDYY~~-FD** 072412

Task

Sample Name **FIELDQC-z-USTC501-CS-0002-~~MMDDYY~~-FD-z** 072412

Collection Date 7/24/12

Sampling Method **Unknown**

Sample Type **Unknown**

Collection Time 0943

Start Depth 24

Sample Purpose **Unknown**

End Depth 25

QC Code **FIELD DUPLICATE**

Sampling Equip Disposable bowl and scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ *(EB)* _____ *(FB)* _____

SampleTeam CC

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm

Station 1

Sketch Location:

Shaw

Logged By / Dat [signature] 7/24/12

Reviewed By / Dat _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code **USTC501**

RFA / COC Number 144106-H018

Sample Number **USTC501-CS-0003-~~MMDDYY~~** 072412

Task

Sample Name **USTC501-z-USTC501-CS-0003-~~MMDDYY-z~~** 072412

Collection Date 7/24/12

Collection Time 1114

Sampling Method **Unknown**

Sample Type **Unknown**

Start Depth 24

Sample Purpose **Unknown**

End Depth 25

QC Code **NORMAL ENVIRONMENTAL SAMPL**

Sampling Equip Disposable bowl and scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ *(EB)* _____ *(FB)* _____

SampleTeam cc

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm

Station 2

Sketch Location:

Shaw

Logged By / Dat 7/24/12

Reviewed By / Dat _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

RFA / COC Number ~~H~~ CC 144106-H018

Location Code **USTC501**

Task

Sample Number **USTC501-CS-0004-~~MMDDYY~~** 072412

Collection Date 7/24/12

Sample Name **USTC501-z-USTC501-CS-0004-~~MMDDYY-z~~** 072412

Collection Time 1140

Sampling Method **Unknown**

Sample Type **Unknown**

Start Depth 13

Sample Purpose **Unknown**

End Depth 14

QC Code **NORMAL ENVIRONMENTAL SAMPL**

Sampling Equip Disposable bowl/Scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ (EB) _____ (FB) _____

SampleTeam CC

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm
refusal at 14ft bgs.

Sketch Location:

Station 3

Shaw

Logged By / Dat [signature] 7/24/12

Reviewed By / Dat _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code **USTC501**

RFA / COC Number 144106-H019

Sample Number **USTC501-CS-0005-~~MMDDYY~~ ~~072412~~** 072512 *Task* u

Sample Name **USTC501-z-USTC501-CS-0005-~~MMDDYY-z~~ ~~072412~~** 072512

Collection Date 7/~~24~~ 25/12

Sampling Method **Unknown**

Sample Type **Unknown**

Collection Time 1325

Start Depth 18

End Depth 19

Sample Purpose **Unknown**

QC Code **NORMAL ENVIRONMENTAL SAMPL**

Sampling Equip Disposable bowl/scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ *(EB)* _____ *(FB)* _____

SampleTeam u

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm

Station 4

Sketch Location:

Shaw *Logged By / Dat* [signature] 7/25/12 *Reviewed By / Dat* _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code **USTC501**

RFA / COC Number 144106-H019

Sample Number **USTC501-CS-0006-~~MMDDYY~~** 072512

Task

Sample Name **USTC501-z-USTC501-CS-0006-~~MMDDYY-z~~** 072512

Collection Date 7/25/12

Sampling Method **Unknown**

Sample Type **Unknown**

Collection Time 1355

Start Depth 14

Sample Purpose **Unknown**

End Depth 15

QC Code **NORMAL ENVIRONMENTAL SAMPL**

Sampling Equip Disposable bowl / scoop

Sample Matrix **SOIL**

QC Partners:

(TB) _____ *(EB)* _____ *(FB)* _____

SampleTeam CL

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	1	40	MG	40 mg Terracore	)(2) + MeOH
SW8015B : GRO	B	Unknown	1	40	ML	40 ml VOA Vials	Methanol
SVOCs by SW8270D	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : ORO	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6010C	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Mercury by SW7471A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
Metals by SW6020A	C	Unknown	0	250	ML	250 ml Glass (8 oz)	Cool to 4°
SW8015B : DRO	C	Unknown	1	250	ML	250 ml Glass (8 oz)	Cool to 4°

Comments: PID: 0.0ppm

Station 5

Sketch Location:

Shaw *Logged By / Dat* [signature] 7/25/12 *Reviewed By / Dat* _____

Sample Collection Log

Shaw Solutions

- Holloman AFB

Manager **Christopher Long**

Location Code ~~FIELDQC~~ IDW

RFA / COC Number HO 38

Sample Number ~~OTC644-GW-0441-MMDDYY-FD~~ LDY-IDWD1-090412

Task

Sample Name ~~FIELDQC-2-OTC644-GW-0441-MMDDYY-FD-z~~

Collection Date 09/04/2012

Sampling Method ~~Unknown~~ Composite

Sample Type ~~Unknown~~ Soil

Collection Time 1330

Sample Purpose ~~Unknown~~ IDW characterization

Start Depth NA

QC Code ~~FIELD DUPLICATE~~ NA

End Depth NA

Sampling Equip Stainless steel Travel Bowl / Aluminum

Sample Matrix ~~GROUND WATER~~ IDW Soil

QC Partners:

(TB) _____ (EB) _____ (FB) _____

SampleTeam Latham, Hardin

Containers:

	Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
1)	VOCs by SW8260C TCLP VOCs	A	Unknown	~~3~~ 1	~~40~~ 8oz	~~ML~~	~~40 ml VOA Vials~~ Glass	~~HCL~~ Cool to 4°C
	~~SW8015B : GRO~~	~~B~~	~~Unknown~~	~~3~~	~~40~~	~~ML~~	~~40 ml VOA Vials~~	~~HCL~~
2)	SVOCs by SW8270D TCLP SVOCs / other organics	EB	Unknown	~~2~~ 1	8	~~L~~ oz	~~1 Liter Amber Glass~~ Glass	Cool to 4°
	~~SW8015B : GRO~~	~~D~~	~~Unknown~~	~~0~~	~~1~~	~~L~~	~~1 Liter Amber Glass~~	~~H2SO4~~
	~~SW8015B : DRO~~	~~D~~	~~Unknown~~	~~2~~	~~1~~	~~L~~	~~1 Liter Amber Glass~~	~~H2SO4~~
	~~PCBs by SW8082A~~	~~E~~	~~Unknown~~	~~2~~	~~1~~	~~L~~	~~1 Liter Amber Glass~~	~~Cool to 4°~~
	~~Explosives by SW8330A~~	~~F~~	~~Unknown~~	~~2~~	~~1~~	~~L~~	~~1 Liter Amber Glass~~	~~Cool to 4°~~
3)	~~Tritium by 906.0 Mod~~ RCI	~~G~~ C	~~Unknown~~ Unknown	~~2~~ 1	~~1~~ 8oz		~~1 Liter Amber Glass~~ Glass	~~Cool to 4°~~ Cool to 4°C
4)	Mercury by SW7470A TCLP Mercury	~~H~~ D	Unknown	~~2~~ 1	~~500~~ 8oz	~~ML~~ oz	~~500 ml Poly Container~~ Glass	~~HNO3~~ Cool to 4°C
5)	Metals by SW6020A TCLP Metals	~~H~~ E	Unknown	~~6~~ 1	~~500~~ 8oz	~~ML~~	~~500 ml Poly Container~~ Glass	~~HNO3~~ Cool to 4°C
	~~Metals by SW6010C~~	~~H~~	~~Unknown~~	~~1~~	~~500~~	~~ML~~	~~500 ml Poly Container~~	HNO3
	~~Total CN water by 335.4~~	~~I~~	~~Unknown~~	~~1~~	~~500~~	~~ML~~	~~500 ml Poly Container~~	NaOH
	~~TDS by 160.1~~	~~J~~	~~Unknown~~	~~1~~	~~500~~	~~ML~~	~~500 ml Poly Container~~	Cool to 4°

Comments: Composite soil sample for TCLP analyses of IDW within rolloff at Lay down Yard. 09/04/12

Sketch Location: Rolloff box composite sample @ Lay down Yard.

Analyses: TCLP VOCs, TCLP SVOCs, TCLP metals, TCLP Mercury, RCI

LDY = Lay down Yard

Shaw *Logged By / Dat* Mel Hall *Reviewed By / Dat* _____

Sample Collection Log

- Holloman AFB

Shaw a world of Solutions

Manager **Christopher Long**

Location Code BULK WATER TANK [redacted]

Sample Number HAFB-IDW-BULKWATER-0001-111612 [redacted]

Sample Name HAFB-IDW-BULKWATER-0001-111612 [redacted]

RFA / COC Number 144106 H070

Task 144106.JM20000

Collection Date 11/16/12

Sampling Method BAILER [redacted]

Sample Type GRAB [redacted]

Collection Time 13:00

Sample Purpose CONFIRM IDW [redacted]

Start Depth N/A

QC Code [redacted]

End Depth N/A

Sampling Equip DISPOSABLE BAILER

Sample Matrix **WATER**

QC Partners:

(TB) _____ (EB) _____ (FB) _____

Sample Team JH/TL

Containers:

Analytical Suite	Frtn	Flt	Qty	Size	Units	Container Type	Perservative
VOCs by SW8260C	A	Unknown	3	40	ML	40 ml VOA Vials	HCL
SVOCs by SW8270D	B	Unknown	[redacted]4	[redacted]8	[redacted]OZ	8OZ [redacted] Amber Glass	Cool to 4°
SW8015 : ORO	C	Unknown	0	1	L	1 Liter Amber Glass	H2SO4
SW8015 : DRO	C	Unknown	[redacted]1	1	L	1 Liter Amber Glass	H2SO4
Metals by SW6020A	D	Unknown	0	500	ML	500 ml Poly Container	HNO3
METALS by SW6020A	E		0	500	ML	500 ml Poly CONT	Cool to 4°
Mercury by SW7470A	D	Unknown	0	500	ML	500 ml Poly Container	HNO3
	E		0	500	ML	500 ml Poly CONT	Cool to 4°
Metals by SW6010C	D	Unknown	1	500	ML	500 ml Poly Container	HNO3
	E		1	500	ML	500 ml Poly CONT	Cool to 4°
SW8015 : GRO	[redacted]F	Unknown	3	40	ML	40 ml VOA Vials	HCL

Comments: SAMPLE COLLECTED FROM BULK WATER STORAGE TANK AFTER ALL WATER DRUMS WERE CONSOLIDATED. SENT BOTH A PRESERVED AND UNPRESERVED 500ML POLY FOR METALS. SPOKE WITH LAB AND THEY SAID TO SEND UNPRESERVED, BUT I THINK MAYBE THEY MADE A MISTAKE.

Sketch Location:

Shaw *Logged By / Dat* [signature] *Reviewed By / Dat* _____

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix F
Waste Manifests

HAFB-001

Generator's Name	Generator's Address	Generator's Telephone No.
USAF	550 TABOSA AVE Holloman AFB NM 88330	575-491-8262

Origin of Special Waste (Project or Spill Location):

~~White Sands National Monument Park - Storage Lagoons~~ Holloman AFB NM Bldg # 55

Transporter #1 Company Name	Address	Telephone No.
Southwest Disposal	1350 LaVelle Road	575-434-1109
Transporter #2 Company Name	Address	Telephone No.
	Alamogordo, NM 88310	
Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
Otero/Greentree Regional Landfill 24 Mls South of Alamogordo, Hwy 54	SWM-109102	575-439-4355

Type and Proper Name of Special Waste	Container(s) No.	Type	Total Quantity	Unit Wt/Vol	
Non RCRA/Non Hazardous Substance ~~(Treatment Plant Lagoon Sludge)~~ (soil)		SD		6.95	Tons

Additional Descriptions for Special Waste Listed Above:

Site Contact: Todd Hiltunen 307-214-6080

Special Handling Instructions:

Southwest Disposal - Lined and Covered Roll-off

GENERATOR'S CERTIFICATION I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

Truck # 553 Bin #

Printed/Typed Name:	Signature:	Date:
Todd Hiltunen for Brent Hunt (CES)	for Brent Hunt (CES)	9/25/12

Transporter 1 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:
David Gurnbach		9/26/12

Transporter 2 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:

Discrepancy Indication Space:

Analytical supplied to landfill

no facility ID number

Facility Owner or Operator: *I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.*

Printed/Typed Name:	Signature:	Date:
Darrell McGinnis / Attendant		9-26-12

~~Facility Copy~~

OTERO/GREENTREE
REGIONAL LANDFILL

TRANSACTION: 28,080

CO. NAME: Environmental Waste Solutions

ADDRESS: 1348 B. Redtail Hawk Drive

CITY & STATE: Boardman, OH 44512

DATE: 9/26/12 TIME: 9:07 am

TRUCK NO.: 198

GROSS WEIGHT 47000

TARE WEIGHT: 33100

NET TONS: 13900 6.95

COST $: [redacted]

5% TAX $: [redacted]

TOTAL DUE $: [redacted]

WASTE: 5

WASTE DESC.: Construction Debris

WASTE ORIGIN: H.A.F.B.

DRIVER:

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix G
Land Survey Data

Revised Rpt
09/11/2013
(re: TU/US-C513)
p. 7 of 10

RAW DATA

HOLLOMAN AIR FORCE BASE
MAIN SITE SURVEY

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
1	682987.8550	1687022.9920	4098.16	BASE	682789.9107	1686534.0572
2	678390.1010	1678735.5020	4064.77	CP-52-P-19	678193.4892	1678248.9690
3	683252.1480	1680789.5360	4078.80	CP-55-JACK	683054.1271	1680302.4077
4	681667.1260	1694574.3780	4140.57	CP-56-AIR	681469.5645	1694083.2546
5	669733.4460	1682234.2110	4048.59	HAFB-07-07	669539.3431	1681746.6640
6	669695.2030	1718768.4150	4157.95	ALAMOAIR	669501.1112	1718270.2797
7	674362.7100	1713591.4300	4160.17	F248	674167.2655	1713094.7951
8	676850.6600	1718114.2590	4193.99	E-248	676654.4944	1717616.3133
50	691964.7620	1687201.2770	4140.90	MALONE	691764.2160	1686712.2905
51	662077.1700	1670356.4250	4077.10	BATE	661885.2861	1669872.3205
52	678390.1080	1678735.5040	4066.10	P 19	678193.4962	1678248.9710
53	644127.0780	1700529.8000	4039.00	MONT	643940.3964	1700036.9506
54	676850.6920	1718114.2670	4193.99	E 248	676654.5264	1717616.3213
55	683252.1970	1680789.5390	4080.20	JACK	683054.1761	1680302.4107
56	681667.0380	1694574.3640	4141.20	AIR	681469.4765	1694083.2406
82	678193.4999	1678248.9801	4064.92	P	677996.9451	1677762.5882
84	676654.5300	1717616.3305	4192.77	E	676458.4212	1717118.5291
85	683054.1798	1680302.4198	4079.02	JACK	682856.2163	1679815.4327
86	681469.4802	1694083.2497	4140.00	AIR	681271.9760	1693592.2686
100	685975.0760	1686614.9100	4101.87	OT-C534-PVC	685776.2660	1686126.0934
101	685975.4260	1686614.8310	4102.28	OT-C534-CASING	685776.6159	1686126.0145
102	685952.4860	1686626.9650	4101.89	OT-C534-W2-PVC	685753.6825	1686138.1449
103	685952.6870	1686626.9300	4102.33	OT-C534-W2-CASING	685753.8834	1686138.1099
104	685939.9110	1686581.7340	4101.89	OT-C534-W1-CASING	685741.1111	1686092.9270
105	685939.6450	1686581.7790	4101.57	OT-C534-W1-PVC	685740.8452	1686092.9720
106	685924.3640	1686619.9800	4101.81	OT-C534-W4-PVC	685725.5687	1686131.1620
107	685924.6590	1686619.8790	4102.23	OT-C534-W4-CASING	685725.8636	1686131.0610
108	685934.1180	1686578.3320	4101.72	OT-C534-LEACH-NG	685735.3198	1686089.5260
109	685935.7830	1686600.7340	4101.88	OT-C534-LEACH-NG	685736.9843	1686111.9215
110	685938.2680	1686607.0980	4101.88	OT-C534-LEACH-NG	685739.4686	1686118.2837
111	685951.4240	1686604.4600	4101.90	OT-C534-LEACH-NG	685752.6208	1686115.6465
112	685953.8200	1686601.1380	4101.88	OT-C534-LEACH-NG	685755.0161	1686112.3254
113	685953.2500	1686596.8650	4101.88	OT-C534-LEACH-NG	685754.4463	1686108.0537
114	685946.2830	1686578.3790	4101.81	OT-C534-LEACH-NG	685747.4813	1686089.5730
115	685945.3070	1686576.3400	4101.88	OT-C534-LEACH-NG	685746.5056	1686087.5346
116	685940.6850	1686575.6580	4101.79	OT-C534-LEACH-NG	685741.8849	1686086.8528
117	685952.3510	1686614.8200	4102.03	OT-C534-LEACH-NG	685753.5475	1686126.0035
118	685953.0040	1686623.0300	4102.13	OT-C534-LEACH-NG	685754.2004	1686134.2111
119	685945.6920	1686623.1960	4102.03	OT-C534-LEACH-NG	685746.8905	1686134.3770
120	685944.8810	1686615.5440	4101.97	OT-C534-LEACH-NG	685746.0797	1686126.7272
121	685948.0570	1686615.1700	4101.97	OT-C534-FLINE-NG	685749.2548	1686126.3534
122	685947.7680	1686606.3420	4101.81	OT-C534-FLINE-NG	685748.9659	1686117.5279
123	685953.2050	1686618.0690	4102.08	OT-C534-ENFLU-NG	685754.4013	1686129.2515
124	685968.5800	1686611.5870	4102.06	OT-C534-ENFLU-NG	685769.7718	1686122.7714
125	686021.5760	1686604.3860	4102.49	OT-C534-ENFLU-NG	685822.7525	1686115.5725
126	686051.0660	1686600.5520	4102.82	OT-C534-ENFLU-NG	685852.2339	1686111.7396
127	682943.9250	1686529.5770	4094.74	OT-C536-STATION1-NG	682745.9934	1686040.7852
128	682925.1900	1686534.9010	4094.63	OT-C536-STATION2-NG	682727.2639	1686046.1076
129	682914.0740	1686530.8350	4094.17	OT-C536-STATION3-NG	682716.1511	1686042.0428
130	682900.2750	1686534.1950	4094.40	MW-OT-C5361-CASING	682702.3561	1686045.4018
131	682900.0410	1686534.2560	4094.03	MW-OT-C5361-PVC	682702.1222	1686045.4628
132	682892.0960	1686514.3610	4094.08	OT-C536-LEACH-NG	682694.1795	1686025.5736
133	682905.9860	1686504.4840	4093.98	OT-C536-LEACH-NG	682708.0654	1686015.6994
134	682914.9460	1686505.2970	4094.10	OT-C536-LEACH-NG	682717.0228	1686016.5122
135	682919.4610	1686521.1490	4094.40	OT-C536-LEACH-NG	682721.5365	1686032.3596
136	682921.1340	1686534.7310	4094.42	OT-C536-LEACH-NG	682723.2091	1686045.9377
137	682919.5910	1686545.0230	4094.72	OT-C536-LEACH-NG	682721.6665	1686056.2267
138	682912.1700	1686551.2270	4094.60	OT-C536-LEACH-NG	682714.2477	1686062.4289
139	682897.7180	1686551.9240	4094.16	OT-C536-LEACH-NG	682699.7998	1686063.1257
140	682892.5110	1686549.8820	4094.18	OT-C536-LEACH-NG	682694.5943	1686061.0843
141	682922.3680	1686533.4440	4094.42	OT-C536-TANKPIT-NG	682724.4427	1686044.6510
142	682920.9800	1686525.5880	4094.39	OT-C536-TANKPIT-NG	682723.0551	1686036.7973
143	682928.0220	1686524.4280	4094.63	OT-C536-TANKPIT-NG	682730.0951	1686035.6377
144	682929.2370	1686532.7090	4094.62	OT-C536-TANKPIT-NG	682731.3097	1686043.9163
145	682949.7020	1686528.9800	4094.75	OT-C536-ENFLU-NG	682751.7688	1686040.1883
146	682921.2900	1686528.9090	4094.41	OT-C536-ENFLU-NG	682723.3650	1686040.1174
147	682916.2970	1686530.1310	4094.27	OT-C536-ENFLU-NG	682718.3735	1686041.3390
148	682877.6850	1686739.3620	4095.03	OT-C533-MW-CASING	682679.7726	1686250.5094
149	682877.4490	1686739.4350	4094.68	OT-C533-MW-PVC	682679.5367	1686250.5823
150	682884.2550	1686735.8390	4094.76	OT-C533-LEACH-NG	682686.3407	1686246.9874
151	682877.4700	1686734.1690	4094.84	OT-C533-LEACH-NG	682679.5577	1686245.3179

RAW DATA

HOLLOMAN AIR FORCE BASE
MAIN SITE SURVEY

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
152	682871.6400	1686736.6530	4094.83	OT-C533-LEACH-NG	682673.7294	1686247.8011
153	682869.4200	1686738.9370	4094.89	OT-C533-LEACH-NG	682671.5100	1686250.0845
154	682868.8760	1686741.4810	4094.99	OT-C533-LEACH-NG	682670.9662	1686252.6277
155	682867.8710	1686756.1100	4095.03	OT-C533-LEACH-NG	682669.9615	1686267.2525
156	682857.6950	1686766.0680	4095.35	OT-C533-LEACH-NG	682659.7884	1686277.2076
157	682855.8760	1686772.9280	4095.39	OT-C533-LEACH-NG	682657.9700	1686284.0656
158	682855.6590	1686783.4130	4095.46	OT-C533-LEACH-NG	682657.7530	1686294.5476
159	682855.5230	1686790.0690	4095.47	OT-C533-LEACH-NG	682657.6171	1686301.2017
160	682857.2270	1686794.8730	4095.42	OT-C533-LEACH-NG	682659.3206	1686306.0043
161	682858.6900	1686813.7880	4095.55	OT-C533-LEACH-NG	682660.7832	1686324.9138
162	682867.9360	1686816.7350	4095.32	OT-C533-LEACH-NG	682670.0265	1686327.8599
163	682880.0660	1686814.6740	4095.00	OT-C533-LEACH-NG	682682.1530	1686325.7995
164	682891.9700	1686818.7840	4094.82	OT-C533-LEACH-NG	682694.0535	1686329.9083
165	682901.1340	1686806.7570	4094.86	OT-C533-LEACH-NG	682703.2148	1686317.8848
166	682889.7110	1686785.0140	4094.98	OT-C533-LEACH-NG	682691.7952	1686296.1481
167	682889.3190	1686757.8750	4094.96	OT-C533-LEACH-NG	682691.4033	1686269.0170
168	682886.6550	1686745.7080	4094.83	OT-C533-LEACH-NG	682688.7400	1686256.8535
169	682895.8900	1686814.7130	4095.19	OT-C533-FFLUEN-NG	682697.9724	1686325.8385
170	682901.8890	1686814.2530	4095.86	OT-C533-FFLUEN-TPAD	682703.9696	1686325.3787
171	682901.5970	1686811.8220	4095.84	OT-C533-SEPTIC-TCONC	682703.6777	1686322.9484
172	682911.5820	1686810.3750	4095.77	OT-C533-SEPTIC-TCONC	682713.6598	1686321.5018
173	682912.4280	1686815.4170	4095.77	OT-C533-SEPTIC-TCONC	682714.5056	1686326.5423
174	682902.3730	1686816.8390	4095.84	OT-C533-SEPTIC-TCONC	682704.4535	1686327.9639
175	682912.0910	1686812.7560	4095.77	OT-C533-EFLUEN-TCONC	682714.1687	1686323.8821
176	682923.3600	1686810.9450	4095.29	OT-C533-EFLUEN-NG	682725.4344	1686322.0716
177	682942.2940	1686810.3140	4095.49	OT-C533-EFLUEN-NG	682744.3629	1686321.4408
178	682937.5080	1686805.9000	4095.30	OT-C533-STATION1-NG	682739.5783	1686318.0278
179	682906.2780	1686808.8380	4094.86	OT-C533-STATION2-NG	682708.3574	1686319.9652
180	682895.2770	1686813.2080	4094.98	OT-C533-STATION3-NG	682697.3595	1686324.3340
181	700191.9570	1695605.3730	4181.72	OT-C540-STATION1-ASP	699989.0266	1695113.9508
182	700173.9260	1695611.2520	4181.82	OT-C540-STATION2-NG	699971.0008	1695119.8281
183	700168.8930	1695604.5390	4181.39	OT-C540-STATION3-NG	699965.9693	1695113.1170
184	700151.2700	1695598.6630	4180.49	OT-C540-STATION4-NG	699948.3514	1695107.2427
185	700158.9630	1695593.9090	4180.86	OT-C540-LEACH-NG	699956.0422	1695102.4901
186	700150.2560	1695603.0840	4180.78	OT-C540-LEACH-NG	699947.3377	1695111.6625
187	700152.8330	1695609.6400	4180.81	OT-C540-LEACH-NG	699949.9139	1695118.2166
188	700155.1660	1695611.7200	4180.89	OT-C540-LEACH-NG	699952.2463	1695120.2960
189	700161.1020	1695611.3470	4181.11	OT-C540-LEACH-NG	699958.1805	1695119.9231
190	700163.7200	1695601.1600	4181.06	OT-C540-LEACH-NG	699960.7978	1695109.7390
191	700161.5790	1695596.1920	4181.05	OT-C540-LEACH-NG	699958.6574	1695104.7725
192	700165.7400	1695603.7570	4181.48	OT-C540-FFLUEN-NG	699962.8172	1695112.3353
193	700170.8520	1695608.8530	4181.93	OT-C540-FFLUEN-NG	699967.9277	1695117.4298
194	700170.7290	1695606.7600	4182.01	OT-C540-SEPTIC-NG	699967.8048	1695115.3374
195	700176.8760	1695605.4490	4181.91	OT-C540-SEPTIC-NG	699973.9500	1695114.0268
196	700177.5910	1695612.4300	4181.92	OT-C540-SEPTIC-NG	699974.6648	1695121.0058
197	700172.1930	1695613.9030	4182.05	OT-C540-SEPTIC-NG	699969.2683	1695122.4783
198	700177.7030	1695608.9790	4181.69	OT-C540-EFLUEN-NG	699974.7767	1695117.5558
199	700205.8220	1695608.1850	4181.85	OT-C540-EFLUEN-ASPH	700002.8876	1695116.7620
200	700246.4300	1695613.4690	4182.95	OT-C540-EFLUEN-ASPH	700043.4838	1695122.0445
201	700238.4930	1695614.0360	4182.51	OT-C540-BLDGCOR	700035.5491	1695122.6113
202	700228.4390	1695608.1640	4182.55	OT-C540-BLDGCOR	700025.4980	1695116.7410
203	700227.0510	1695568.0300	4182.87	OT-C540-BLDGCOR	700024.1104	1695076.6186
204	700236.9380	1695557.6950	4183.02	OT-C540-BLDGCOR	700033.9946	1695066.2866
205	688305.7410	1690609.5510	4126.46	TU\US-C507-STATION1-	688106.2555	1690119.5767
206	688309.7220	1690614.0760	4126.51	TU\US-C507-STATION2-	688110.2353	1690124.1004
207	688306.7130	1690619.4150	4126.45	TU\US-C507-STATION3-	688107.2272	1690129.4378
208	688313.7000	1690621.8280	4126.37	TU\US-C507-STATION4-	688114.2122	1690131.8501
209	688313.7950	1690607.6410	4126.36	TU\US-C507-STATION5-	688114.3071	1690117.6673
210	688304.0140	1690620.9730	4126.47	TU\US-C507-USTPIT-AS	688104.5290	1690130.9954
211	688304.3040	1690607.3010	4126.54	TU\US-C507-USTPIT-AS	688104.8189	1690117.3274
212	688317.4320	1690607.1780	4126.54	TU\US-C507-USTPIT-AS	688117.9431	1690117.2044
213	688317.6000	1690622.2860	4126.57	TU\US-C507-USTPIT-AS	688118.1110	1690132.3080
214	688320.7590	1690623.9670	4127.18	TU\US-C507-BLDGCOR	688121.2691	1690133.9885
215	688330.7630	1690627.7570	4125.65	TU\US-C507-BLDGCOR	688131.2702	1690137.7774
216	688318.5520	1690598.7120	4126.71	TU\US-C507-BLDGCOR	688119.0628	1690108.7408
217	688306.5580	1690598.9520	4126.69	TU\US-C507-BLDGCOR	688107.0722	1690108.9808
218	688287.5740	1690592.3200	4126.83	TU\US-C507-EXMW1	688088.0937	1690102.3507
219	688287.4600	1690625.9270	4126.36	TU\US-C507-EXMW2	688087.9798	1690135.9480
220	689216.8690	1680453.8850	4087.76	TU\US-C501-STATION4-	689017.1194	1679966.8540
221	689203.4000	1680450.4300	4087.80	TU\US-C501-STATION1-	689003.6543	1679963.4000
222	689227.9170	1680449.2880	4087.78	TU\US-C501-STATION2-	689028.1642	1679962.2584

RAW DATA

HOLLOMAN AIR FORCE BASE
MAIN SITE SURVEY

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
223	689201.2820	1680437.6020	4087.96	TU\US-C501-STATION3-	689001.5369	1679950.5757
224	689204.0090	1680426.7550	4087.80	TU\US-C501-STATION5-	689004.2631	1679939.7319
225	689200.5240	1680440.6650	4087.95	TU\US-C501-BLDGCOR-N	689000.7792	1679953.6379
226	689191.1430	1680432.8740	4088.07	TU\US-C501-BLDGCOR-N	688991.4009	1679945.8491
227	689202.0960	1680449.8730	4087.79	TU\US-C501-TANKPIT-N	689002.3507	1679962.8432
228	689201.5860	1680440.8210	4087.99	TU\US-C501-TANKPIT-N	689001.8408	1679953.7938
229	689191.7450	1680432.9310	4088.07	TU\US-C501-TANKPIT-N	688992.0027	1679945.9061
230	689195.4710	1680423.1750	4087.88	TU\US-C501-TANKPIT-N	688995.7276	1679936.1529
231	689207.1960	1680422.4490	4087.92	TU\US-C501-TANKPIT-N	689007.4492	1679935.4271
232	689229.2900	1680431.3210	4087.77	TU\US-C501-TANKPIT-N	689029.5368	1679944.2966
233	689231.6150	1680444.1310	4087.67	TU\US-C501-TANKPIT-N	689031.8611	1679957.1029
234	689227.5450	1680454.7320	4087.83	TU\US-C501-TANKPIT-N	689027.7923	1679967.7008
235	689218.0540	1680463.3780	4088.03	TU\US-C501-TANKPIT-N	689018.3041	1679976.3443
236	689209.0460	1680458.6260	4087.92	TU\US-C501-TANKPIT-N	689009.2987	1679971.5937
237	689237.1630	1680445.1670	4087.64	TU\US-C501-COMMLINE-	689037.4075	1679958.1386
238	689219.6050	1680436.9770	4088.00	TU\US-C501-COMMLINE-	689019.8546	1679949.9509
239	689199.7540	1680431.6770	4088.06	TU\US-C501-COMMLINE-	689000.0094	1679944.6525
240	689181.3550	1680425.0490	4088.20	TU\US-C501-COMMLINE-	688981.6157	1679938.0264
241	689162.6180	1680417.3900	4088.35	TU\US-C501-COMMLINE-	688962.8841	1679930.3696
242	689161.5970	1680417.5650	4088.56	TU\US-C501-COMMVAULT	688961.8634	1679930.5446
243	689157.8580	1680421.3400	4088.11	TU\US-C501-COMMVAULT	688958.1255	1679934.3185
244	689150.8680	1680414.5760	4088.10	TU\US-C501-COMMVAULT	688951.1375	1679927.5564
245	689154.6050	1680410.8830	4088.46	TU\US-C501-COMMVAULT	688954.8735	1679923.8645
246	687246.6430	1686873.0010	4105.82	OT-C535-STATION1-NG	687047.4644	1686384.1096
247	687270.5400	1686861.6690	4105.63	OT-C535-STATION2-NG	687071.3545	1686372.7809
248	687282.8340	1686866.7860	4105.85	OT-C535-STATION3-NG	687083.6449	1686377.8964
249	687303.5940	1686788.5490	4105.12	OT-C535-STATION4-NG	687104.3989	1686299.6821
250	687291.9640	1686793.7970	4105.27	OT-C535-LEACH-NG	687092.7723	1686304.9286
251	687304.7930	1686782.8770	4105.17	OT-C535-LEACH-NG	687105.5976	1686294.0117
252	687323.6740	1686798.1880	4105.34	OT-C535-LEACH-NG	687124.4731	1686309.3183
253	687319.7080	1686817.5380	4105.82	OT-C535-LEACH-NG	687120.5083	1686328.6627
254	687307.4400	1686838.9610	4105.76	OT-C535-LEACH-NG	687108.2438	1686350.0795
255	687297.0830	1686856.5380	4106.04	OT-C535-LEACH-NG	687097.8898	1686367.6514
256	687290.0540	1686837.9200	4105.59	OT-C535-LEACH-NG	687090.8628	1686349.0388
257	687291.3760	1686806.0200	4105.33	OT-C535-LEACH-NG	687092.1845	1686317.1480
258	687284.5890	1686864.5150	4106.11	OT-C535-FFLUEN-NG	687085.3994	1686375.6261
259	687276.8290	1686868.4490	4106.19	OT-C535-FFLUEN-NG	687077.6417	1686379.5589
260	687276.0820	1686870.8490	4106.28	OT-C535-SEPTIC-NG	687076.8949	1686381.9583
261	687263.3720	1686869.7190	4105.87	OT-C535-SEPTIC-NG	687064.1886	1686380.8286
262	687263.7200	1686863.5770	4105.95	OT-C535-SEPTIC-NG	687064.5365	1686374.6884
263	687276.4840	1686862.8870	4106.07	OT-C535-SEPTIC-NG	687077.2968	1686373.9986
264	687263.5270	1686868.1150	4105.92	OT-C535-EFLUEN-NG	687064.3435	1686379.2250
265	687228.9570	1686874.1570	4105.71	OT-C535-EFLUEN-NG	687029.7836	1686385.2653
266	687235.2230	1686881.4610	4106.05	OT-C535-BLDGCOR-NG	687036.0477	1686392.5672
267	687225.9150	1686892.3360	4105.90	OT-C535-BLDGCOR-NG	687026.7424	1686403.4390
268	687232.0250	1686844.5370	4105.92	OT-C535-BLDGCOR-NG	687032.8507	1686355.6539
269	687221.4890	1686835.3400	4105.63	OT-C535-BLDGCOR-NG	687022.3177	1686346.4595
270	677637.2460	1692755.6660	4110.24	TU/US-C505-MW1-CASIN	677440.8524	1692265.0697
271	677636.9990	1692755.6590	4109.84	TU/US-C505-MW1-PVC	677440.6055	1692265.0627
272	677634.4160	1692722.3930	4110.42	TU/US-C505-WELLATEMP	677438.0233	1692231.8064
273	677659.4620	1692742.2400	4110.34	TU/US-C505-WELLATEMP	677463.0620	1692251.6476
274	677701.9500	1692799.3200	4110.17	TU/US-C505-USTPIT-NG	677505.5377	1692308.7111
275	677701.3830	1692789.3010	4110.35	TU/US-C505-USTPIT-NG	677504.9708	1692298.6950
276	677711.5570	1692789.5280	4110.64	TU/US-C505-USTPIT-NG	677515.1419	1692298.9219
277	677710.8940	1692799.1130	4110.24	TU/US-C505-USTPIT-NG	677514.4791	1692308.5041
278	677707.4060	1692790.0820	4110.35	TU/US-C505-STATION1-	677510.9921	1692299.4757
279	677702.3100	1692795.0710	4110.20	TU/US-C505-STATION2-	677505.8976	1692304.4633
280	677705.6610	1692797.9500	4110.13	TU/US-C505-STATION3-	677509.2476	1692307.3415
281	677710.4770	1692793.8740	4110.09	TU/US-C505-STATION4-	677514.0622	1692303.2666
282	677706.4200	1692793.8350	4110.12	TU/US-C505-STATION5-	677510.0064	1692303.2276
283	677694.5060	1692779.7220	4110.88	TU/US-C505-BLDGCOR-N	677498.0958	1692289.1187
284	677704.1940	1692790.4680	4110.28	TU/US-C505-BLDGCOR-N	677507.7810	1692299.8616
285	677754.5670	1692783.0890	4110.79	TU/US-C505-BLDGCOR-N	677558.1394	1692292.4848
286	677743.8570	1692795.1680	4110.70	TU/US-C505-BLDGCOR-N	677547.4325	1692304.5603
287	686300.2320	1672933.0350	4060.98	OT-C542-MW-CASING-	686101.3277	1672448.1837
288	686300.2350	1672933.0550	4060.98	OT-C542-MW-PVC	686101.3307	1672448.2037
289	686274.4020	1672914.6520	4061.01	OT-C542-LEACH-NG	686075.5052	1672429.8061
290	686289.6710	1672938.5250	4060.76	OT-C542-LEACH-NG	686090.7698	1672453.6721
291	686294.6900	1672941.1720	4060.83	OT-C542-LEACH-NG	686095.7873	1672456.3184
292	686301.6970	1672938.9490	4060.85	OT-C542-LEACH-NG	686102.7923	1672454.0960
293	686305.7170	1672936.2850	4060.87	OT-C542-LEACH-NG	686106.8111	1672451.4328

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
294	686308.0670	1672931.0550	4060.89	OT-C542-LEACH-NG	686109.1604	1672446.2043
295	686304.8000	1672917.9090	4060.82	OT-C542-LEACH-NG	686105.8944	1672433.0621
296	686292.3740	1672901.2590	4060.90	OT-C542-LEACH-NG	686093.4720	1672416.4169
297	686283.4190	1672906.7050	4060.97	OT-C542-FFLUEN-NG	686084.5196	1672421.8614
298	686280.3770	1672902.6520	4060.94	OT-C542-FFLUEN-NG	686081.4785	1672417.8095
299	686276.9070	1672904.6420	4060.95	OT-C542-SEPTIC-NG	686078.0095	1672419.7990
300	686271.2980	1672896.9550	4060.80	OT-C542-SEPTIC-NG	686072.4021	1672412.1142
301	686281.9530	1672889.9350	4060.83	OT-C542-SEPTIC-NG	686083.0540	1672405.0962
302	686287.0950	1672896.6800	4060.88	OT-C542-SEPTIC-NG	686088.1945	1672411.8393
303	686285.7900	1672894.7150	4060.83	OT-C542-EFLUEN-NG	686086.8899	1672409.8748
304	686299.2270	1672887.1560	4060.87	OT-C542-EFLUEN-NG	686100.3230	1672402.3180
305	686310.9860	1672881.5880	4061.18	OT-C542-EFLUEN-NG	686112.0786	1672396.7516
306	686294.2970	1672858.0380	4060.90	OT-C542-BLDGCOR-NG	686095.3944	1672373.2085
307	686295.8820	1672844.1310	4061.28	OT-C542-BLDGCOR-NG	686096.9790	1672359.3055
308	686345.1390	1672922.4560	4060.89	OT-C542-BLDGCOR-NG	686146.2217	1672437.6078
309	686358.9780	1672924.0940	4061.42	OT-C542-BLDGCOR-NG	686160.0567	1672439.2453
310	686291.8860	1672885.1500	4060.65	OT-C542-STATION1-NG	686092.9841	1672400.3126
311	686275.2730	1672891.5340	4060.63	OT-C542-STATION2-NG	686076.3760	1672406.6948
312	686281.5390	1672904.6340	4060.73	OT-C542-STATION2-NG	686082.6401	1672419.7910
313	685750.1690	1671530.2910	4055.60	OT-C543-STATION2-NG	685551.4241	1671045.8463
314	685734.0730	1671548.8090	4055.84	OT-C543-STATION2	685535.3328	1671064.3589
315	685727.7350	1671514.3350	4055.33	OT-C543-STATION3	685528.9966	1671029.8949
316	685749.4390	1671546.6740	4055.91	OT-C543-EXSEPTIC	685550.6944	1671062.2245
317	685732.6430	1671545.5190	4055.74	OT-C543-EXSEPTIC	685533.9032	1671061.0699
318	685741.2600	1671557.0720	4056.32	OT-C543-EXSEPTIC	685542.5177	1671072.6195
319	685738.1510	1671537.7290	4055.62	OT-C543-EXSEPTIC	685539.4096	1671053.2821
320	685734.3520	1671541.2760	4055.65	OT-C543-FFLUEN	685535.6117	1671056.8281
321	685716.0920	1671515.5090	4055.04	OT-C543-FFLUEN	685517.3570	1671031.0686
322	685708.2650	1671520.5800	4055.23	OT-C543-LEACH	685509.5323	1671036.1381
323	685688.3040	1671512.0560	4055.52	OT-C543-LEACH	685489.5771	1671027.6166
324	685669.5610	1671502.3840	4055.36	OT-C543-LEACH	685470.8395	1671017.9474
325	685659.9210	1671495.2130	4055.04	OT-C543-LEACH	685461.2023	1671010.7784
326	685670.4020	1671495.5660	4055.43	OT-C543-MW-CASING	685471.6803	1671011.1313
327	685670.1370	1671495.6580	4055.13	OT-C543-MW-PVC	685471.4153	1671011.2233
328	685682.2550	1671485.7460	4055.16	OT-C543-LEACH	685483.5298	1671001.3142
329	685699.8070	1671491.2750	4054.76	OT-C543-LEACH	685501.0767	1671006.8416
330	685710.4840	1671499.0550	4055.06	OT-C543-LEACH	685511.7506	1671014.6193
331	685721.5030	1671508.4730	4055.40	OT-C543-LEACH	685522.7664	1671024.0346
332	685794.8190	1671498.3320	4056.84	OT-C543-EFLUEN	685596.0612	1671013.8965
333	685809.3600	1671495.0820	4059.27	OT-C543-BLDGCOR	685610.5980	1671010.6475
334	685776.9050	1671465.9090	4060.02	OT-C543-BLDGCOR	685578.1524	1670981.4829
335	685785.4230	1671455.8900	4060.26	OT-C543-BLDGCOR	685586.6679	1670971.4668
336	685744.8400	1671542.1950	4055.76	OT-C543-EFLUEN	685546.0967	1671057.7468
337	685303.6520	1671072.3550	4048.79	OT-C544-MW-CASING	685105.0365	1670588.0430
338	685303.3550	1671072.2840	4048.52	OT-C544-MW-PVC	685104.7396	1670587.9720
339	685349.4970	1671083.9730	4052.43	OT-C544-STATION1	685150.8683	1670599.6576
340	685342.4960	1671086.5980	4051.55	OT-C544-STATION1	685143.8693	1670602.2819
341	685336.0530	1671085.0120	4050.99	OT-C544-STATION1	685137.4282	1670600.6963
342	685336.7000	1671089.5480	4051.15	OT-C544-SEPTIC	685138.0750	1670605.2310
343	685338.4520	1671075.7050	4051.30	OT-C544-SEPTIC	685139.8265	1670591.3920
344	685347.8050	1671077.3720	4052.23	OT-C544-SEPTIC	685149.1768	1670593.0585
345	685345.6600	1671089.9410	4052.38	OT-C544-SEPTIC	685147.0324	1670605.6239
346	685356.1020	1671079.9660	4041.22	OT-C544-EFLUEN	685157.4713	1670595.6518
347	685347.2700	1671081.8770	4052.36	OT-C544-EFLUEN	685148.6419	1670597.5622
348	685337.4940	1671082.4320	4051.31	OT-C544-FFLUEN	685138.8687	1670598.1171
349	685335.1290	1671082.2690	4051.14	OT-C544-FFLUEN	685136.5044	1670597.9541
350	685336.2280	1671075.8560	4050.85	OT-C544-LEACH	685137.6031	1670591.5430
351	685323.3310	1671071.0830	4049.91	OT-C544-LEACH	685124.7098	1670586.7714
352	685297.8990	1671068.1360	4048.16	OT-C544-LEACH	685099.2852	1670583.8252
353	685296.9990	1671078.2660	4047.94	OT-C544-LEACH	685098.3855	1670593.9523
354	685317.0900	1671090.9580	4049.62	OT-C544-LEACH	685118.4707	1670606.6406
355	685334.6940	1671090.0750	4050.81	OT-C544-LEACH	685136.0696	1670605.7579
356	685360.4020	1671127.4140	4053.89	OT-C544-BLDGCOR	685161.7701	1670643.0860
357	685349.8450	1671114.5020	4052.32	OT-C544-BLDGCOR	685151.2162	1670630.1778
358	685360.3480	1671033.1240	4052.96	OT-C544-BLDGCOR	685161.7161	1670548.8234
359	685371.1230	1671022.2010	4053.70	OT-C544-BLDGCOR	685172.4880	1670537.9035
360	669828.5970	1693339.1960	4077.44	TU/US-C503-STATION1	669634.4665	1692848.4306
361	669823.8520	1693340.4930	4077.30	TU/US-C503-STATION2	669629.7229	1692849.7272
362	669816.1660	1693331.0930	4077.32	TU/US-C503-STATION3	669622.0391	1692840.3299
363	669804.9830	1693324.1990	4077.14	TU/US-C503-STATION5	669610.8594	1692833.4379
364	669830.2120	1693344.6950	4077.63	TU/US-C503-STATION4	669636.0811	1692853.9280

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
365	669820.3680	1693343.5050	4078.10	TU/US-C503-USTTANK	669626.2399	1692852.7383
366	669826.9160	1693337.2450	4077.78	TU/US-C503-USTTANK	669632.7860	1692846.4802
367	669831.7020	1693342.9300	4077.73	TU/US-C503-USTTANK	669637.5706	1692852.1635
368	669817.5060	1693300.2710	4077.28	TU/US-C503-BLDGCOR	669623.3788	1692809.5169
369	669817.0280	1693314.4610	4077.69	TU/US-C503-BLDGCOR	669622.9009	1692823.7028
370	669870.4630	1693326.6030	4077.24	TU/US-C503-BLDGCOR	669676.3204	1692835.8412
371	669857.6770	1693326.9550	4077.12	TU/US-C503-BLDGCOR	669663.5381	1692836.1931
372	669799.9830	1693280.8270	4076.53	TU/US-C503-BLDGCOR	669605.8608	1692790.0785
373	669786.0040	1693280.0690	4077.00	TU/US-C503-BLDGCOR	669591.8859	1692789.3207
374	669753.1970	1693299.5360	4076.55	TU/US-C503-MW1-CASIN	669559.0884	1692808.7821
375	669753.0160	1693299.6510	4076.22	TU/US-C503-MW1-PVC	669558.9075	1692808.8971
376	669717.9520	1693348.6000	4074.92	TU/US-C503-MW3-PVC	669523.8536	1692857.8319
377	669718.0930	1693348.2730	4075.65	TU/US-C503-MW3-CASIN	669523.9946	1692857.5050
378	669746.8950	1693329.2100	4076.92	TU/US-C503-BLDGCOR	669552.7882	1692838.4475
379	669747.5820	1693308.1150	4076.21	TU/US-C503-BLDGCOR	669553.4750	1692817.3586
380	669906.5180	1693361.1640	4077.43	TU/US-C503-MW2-CASIN	669712.3650	1692870.3922
381	669906.2520	1693361.2650	4077.07	TU/US-C503-MW2-PVC	669712.0990	1692870.4932
382	669887.0390	1693344.8910	4077.53	TU/US-C503-BLDGCOR	669692.8916	1692854.1239
383	669886.0230	1693359.0930	4077.99	TU/US-C503-BLDGCOR	669691.8759	1692868.3218
384	670862.3470	1691695.2520	4072.78	TU/US-C500-MW1-CASIN	670667.9169	1691204.9630
385	670862.1340	1691695.4850	4072.39	TU/US-C500-MW1-PVC	670667.7040	1691205.1960
386	670897.1420	1691671.0590	4072.25	TU/US-C500-MW2-PVC	670702.7019	1691180.7771
387	670897.3420	1691670.8340	4072.66	TU/US-C500-MW2-CASIN	670702.9018	1691180.5521
388	670997.2710	1691721.0890	4072.90	TU/US-C500-MW3-CASIN	670802.8018	1691230.7926
389	670996.9840	1691721.2540	4072.41	TU/US-C500-MW3-PVC	670802.5149	1691230.9575
390	670952.1640	1691699.4910	4072.04	TU/US-C500-STATION1	670757.7079	1691209.2008
391	670948.0960	1691682.1740	4072.36	TU/US-C500-STATION4	670753.6411	1691191.8888
392	670936.4590	1691683.8290	4072.05	TU/US-C500-STATION5	670742.0075	1691193.5434
393	670929.6330	1691690.0950	4072.11	TU/US-C500-STATION2	670735.1834	1691199.8075
394	670923.0530	1691673.0510	4072.18	TU/US-C500-STATION3	670728.6054	1691182.7685
395	670946.5050	1691708.7370	4072.40	TU/US-C500-USTPIT	670752.0506	1691218.4441
396	670961.7540	1691693.8260	4072.62	TU/US-C500-USTPIT	670767.2951	1691203.5375
397	670931.1680	1691662.3970	4072.93	TU/US-C500-USTPIT	670736.7180	1691172.1176
398	670915.4940	1691676.4560	4072.43	TU/US-C500-USTPIT	670721.0485	1691186.1725
399	670921.7940	1691667.6910	4072.61	TU/US-C500-BLDGCOR	670727.3467	1691177.4100
400	670938.3020	1691685.3670	4072.19	TU/US-C500-BLDGCOR	670743.8499	1691195.0809
401	670954.8550	1691686.5260	4072.52	TU/US-C500-BLDGCOR	670760.3981	1691196.2396
402	670964.2580	1691691.8600	4072.50	TU/US-C500-BLDGCOR	670769.7984	1691201.5720
403	670981.1410	1691692.8760	4072.84	TU/US-C500-BLDGCOR	670786.6765	1691202.5877
404	681138.2190	1690535.4430	4109.80	OT-C538-MW1-CASING	680940.8108	1690045.4902
405	681137.9660	1690535.5040	4109.43	OT-C538-MW1-PVC	680940.5579	1690045.5512
406	681154.3000	1690506.8540	4109.64	OT-C538-STATION3	680956.8871	1690016.9095
407	681170.7650	1690504.3700	4110.30	OT-C538-STATION2	680973.3473	1690014.4262
408	681207.7160	1690542.9160	4110.07	OT-C538-STATION1	681010.2876	1690052.9610
409	681171.2020	1690513.1430	4110.35	OT-C538-SEPTIC	680973.7842	1690023.1966
410	681160.8350	1690514.8700	4110.22	OT-C538-SEPTIC	680963.4202	1690024.9231
411	681157.5830	1690502.2430	4109.87	OT-C538-SEPTIC	680960.1692	1690012.2998
412	681168.6240	1690500.8410	4110.30	OT-C538-SEPTIC	680971.2070	1690010.8982
413	681157.7430	1690507.8780	4109.92	OT-C538-FFLUEN	680960.3291	1690017.9332
414	681149.7900	1690513.8560	4109.82	OT-C538-FFLUEN	680952.3784	1690023.9094
415	681146.2870	1690511.1610	4109.76	OT-C538-LEACH	680948.8764	1690021.2152
416	681140.0690	1690516.2140	4109.76	OT-C538-LEACH	680942.6602	1690026.2667
417	681131.8360	1690535.6580	4109.59	OT-C538-LEACH	680934.4296	1690045.7051
418	681142.3480	1690541.6090	4109.45	OT-C538-LEACH	680944.9386	1690051.6544
419	681148.4850	1690524.6340	4109.80	OT-C538-LEACH	680951.0738	1690034.6843
420	681152.9240	1690518.6140	4110.01	OT-C538-LEACH	680955.5115	1690028.6661
421	681171.0630	1690513.0040	4110.32	OT-C538-EFLUEN	680973.6453	1690023.0577
422	681199.3120	1690534.6340	4109.92	OT-C538-EFLUEN	681001.8861	1690044.6814
423	681311.9210	1690619.8910	4111.94	OT-C538-EFLUEN	681114.4624	1690129.9137
424	681378.0600	1690614.8720	4112.52	OT-C538-EFLUEN	681180.5823	1690124.8962
425	681511.9950	1690621.0250	4112.35	OT-C538-EFLUEN-C/O	681314.4785	1690131.0474
426	681543.8210	1690614.3290	4112.13	OT-C538-EFLUEN-C/O	681346.2952	1690124.3533
427	681545.1500	1690624.0320	4110.59	OT-C538-EFLUEN	681347.6238	1690134.0535
428	681526.9290	1690617.7410	4112.19	OT-C538-BLDGCOR	681329.4081	1690127.7643
429	681516.5600	1690627.6780	4112.22	OT-C538-BLDGCOR	681319.0421	1690137.6984
430	681517.0030	1690674.6590	4112.55	OT-C538-BLDGCOR	681319.4850	1690184.6658
431	681526.9640	1690685.0850	4112.68	OT-C538-BLDGCOR	681329.4431	1690195.0888
432	681610.3380	1690617.1910	4112.15	OT-C538-BLDGCOR	681412.7929	1690127.2145
433	681620.0290	1690626.9090	4112.29	OT-C538-BLDGCOR	681422.4811	1690136.9297
434	681248.7970	1690511.7190	4110.11	OT-C537-STATION1	681051.3567	1690021.7731
435	681230.2540	1690505.9940	4109.96	OT-C537-STATION2	681032.8191	1690016.0497

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
436	681220.0430	1690509.7920	4110.12	OT-C537-STATION3	681022.6111	1690019.8466
437	681224.9030	1690501.6020	4109.95	OT-C537-SEPTICDRY	681027.4697	1690011.6590
438	681224.2220	1690518.0560	4110.28	OT-C537-SEPTICDRY	681026.7889	1690028.1082
439	681236.7540	1690518.9910	4110.31	OT-C537-SEPTICDRY	681039.3172	1690029.0429
440	681236.4080	1690501.8520	4110.13	OT-C537-SEPTICDRY	681038.9713	1690011.9089
441	681237.2180	1690508.8330	4110.12	OT-C537-INLINE	681039.7811	1690018.8879
442	681311.7430	1690515.4440	4111.03	OT-C537-INLINE	681114.2845	1690025.4970
443	670561.7210	1680587.5740	4050.10	TU/US-C506-MW2-CASIN	670367.3781	1680100.5043
444	670561.4170	1680587.6760	4049.68	TU/US-C506-MW2-PVC	670367.0742	1680100.6062
445	670504.3430	1680580.0920	4050.14	TU/US-C506-MW1-PVC	670310.0167	1680093.0244
446	670504.5340	1680580.0020	4050.56	TU/US-C506-MW1-CASIN	670310.2076	1680092.9345
447	670508.2600	1680580.6030	4050.26	TU/US-C506-USTTANK	670313.9326	1680093.5353
448	670507.1490	1680575.9500	4050.27	TU/US-C506-USTTANK	670312.8219	1680088.8836
449	670517.9280	1680578.9030	4050.27	TU/US-C506-USTTANK	670323.5978	1680091.8358
450	670517.4300	1680574.2280	4050.28	TU/US-C506-USTTANK	670323.0999	1680087.1621
451	670507.9350	1680578.1630	4050.18	TU/US-C506-STATION1	670313.6077	1680091.0960
452	670513.3690	1680579.8330	4050.20	TU/US-C506-STATION2	670319.0401	1680092.7655
453	670517.9640	1680576.4150	4050.25	TU/US-C506-STATION3	670323.6338	1680089.3485
454	670511.2330	1680575.3810	4050.12	TU/US-C506-STATION4	670316.9047	1680088.3148
455	670512.5770	1680577.6370	4050.16	TU/US-C506-STATION5	670318.2483	1680090.5702
456	670485.1820	1680557.6150	4050.53	TU/US-C506-EXMW1-CAS	670290.8613	1680070.5540
457	670484.8980	1680557.6790	4050.38	TU/US-C506-EXMW1-PVC	670290.5773	1680070.6179
458	670494.8180	1680553.5430	4050.36	TU/US-C506-BLDGCOR	670300.4945	1680066.4831
459	670506.7310	1680561.7710	4050.38	TU/US-C506-BLDGCOR	670312.4040	1680074.7088
460	670510.1770	1680607.5970	4050.36	TU/US-C506-BLDGCOR	670315.8490	1680120.5215
461	670507.2460	1680618.1900	4050.39	TU/US-C506-BLDGCOR	670312.9189	1680131.1114
462	672564.5350	1692766.5990	4084.67	OT-C530-STATION1	672369.6116	1692275.9995
463	672567.1650	1692774.7240	4084.79	OT-C530-STATION2	672372.2409	1692284.1222
464	672567.5210	1692771.2850	4084.93	OT-C530-ACTSEPTIC	672372.5967	1692280.6842
465	672572.0780	1692767.3740	4084.89	OT-C530-ACTSEPTIC	672377.1524	1692276.7743
466	672575.8660	1692771.9070	4084.91	OT-C530-ACTSEPTIC	672380.9393	1692281.3060
467	672571.4280	1692775.8290	4084.95	OT-C530-ACTSEPTIC	672376.5026	1692285.2269
468	672569.6900	1692769.3550	4084.91	OT-C530-INLINE	672374.7651	1692278.7547
469	672563.6000	1692772.1360	4084.83	OT-C530-MW-CASING	672368.6769	1692281.5349
470	672563.2920	1692772.2960	4084.49	OT-C530-MW-PVC	672368.3690	1692281.6949
471	672509.9810	1692700.4750	4085.41	OT-C530-INLINE	672315.0734	1692209.8947
472	672538.3940	1692677.7240	4085.37	OT-C530-BLDGCOR	672343.4782	1692187.1503
473	672538.9710	1692663.8680	4085.27	OT-C530-BLDGCOR	672344.0550	1692173.2983
474	672478.3960	1692731.8290	4085.45	OT-C530-BLDGCOR	672283.4976	1692241.2396
475	672485.2490	1692739.1720	4085.12	OT-C530-BLDGCOR	672290.3486	1692248.5805
476	685978.3640	1686617.0530	4101.95	OT-C534-STATION1	685779.5530	1686128.2358
477	685949.9370	1686623.2970	4101.80	OT-C534-STATION2	685751.1342	1686134.4780
478	686041.6810	1686591.0650	4102.58	OT-C534-BLDGCOR	685842.8517	1686102.2553
479	686050.4200	1686580.6970	4102.78	OT-C534-BLDGCOR	685851.5881	1686091.8903
480	686053.7100	1686616.8100	4102.90	OT-C534-BLDGCOR	685854.8772	1686127.9929
481	686043.1140	1686607.6280	4102.82	OT-C534-BLDGCOR	685844.2842	1686118.8135
482	670482.5190	1680558.2400	4050.60	TU/US-C506-MW3-CASIN	670288.1990	1680071.1788
483	670482.3210	1680558.1750	4050.11	TU/US-C506-MW3-PVC	670288.0011	1680071.1138
484	669451.6250	1685381.2210	4054.88	TU/US-C515-STATION1	669257.6038	1684892.7620
485	669456.5920	1685373.9060	4054.66	TU/US-C515-STATION2	669262.5694	1684885.4491
486	669447.7270	1685364.3830	4054.13	TU/US-C515-STATION3	669253.7069	1684875.9289
487	669442.7430	1685375.3260	4054.34	TU/US-C515-STATION4	669248.7244	1684886.8687
488	669450.0780	1685373.9310	4054.62	TU/US-C515-STATION5	669256.0572	1684885.4741
489	669529.8630	1685390.3120	4053.57	TU/US-C515-MW3-PVC	669335.8191	1684901.8503
490	669530.0710	1685390.1630	4053.84	TU/US-C515-MW3-CASIN	669336.0271	1684901.7014
491	669347.3380	1685357.3580	4053.37	TU/US-C515-MW2-CASIN	669153.3470	1684868.9059
492	669347.0390	1685357.4240	4052.93	TU/US-C515-MW2-PVC	669153.0481	1684868.9719
493	669367.7310	1685396.1250	4053.43	TU/US-C515-MW1-PVC	669173.7341	1684907.6617
494	669368.0180	1685396.0880	4053.86	TU/US-C515-MW1-CASIN	669174.0210	1684907.6247
495	669413.7390	1685386.4140	4054.97	TU/US-C515-BLDGCOR	669219.7288	1684897.9535
496	669405.0760	1685397.5400	4056.39	TU/US-C515-BLDGCOR	669211.0683	1684909.0762
497	669442.6490	1685383.8010	4054.90	TU/US-C515-TANKPIT	669248.6304	1684895.3412
498	669458.4310	1685381.6630	4055.08	TU/US-C515-TANKPIT	669264.4078	1684893.2039
499	669454.7400	1685363.6010	4054.47	TU/US-C515-TANKPIT	669260.7179	1684875.1471
500	669440.8050	1685364.3540	4054.07	TU/US-C515-TANKPIT	669246.7869	1684875.8999
501	669474.3460	1685377.9770	4054.82	TU/US-C515-BLDGCOR	669280.3182	1684889.5189
502	669485.4880	1685386.3880	4055.07	TU/US-C515-BLDGCOR	669291.4570	1684897.9275
503	669257.8420	1685415.0700	4053.20	TU/US-C513-STATION3	669063.8770	1684926.6012
504	669241.6200	1685431.8260	4053.43	TU/US-C513-STATION2	669047.6597	1684943.3523
505	669234.6840	1685421.2410	4053.75	TU/US-C513-STATION5	669040.7257	1684932.7704
506	669232.2550	1685409.8190	4053.42	TU/US-C513-STATION4	669038.2974	1684921.3517

RAW DATA

Corrections

Point #515 TU/US-515-MW3 PVC

Point #518 TU/US-515-MW2

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
507	669220.1400	1685422.8010	4053.52	TU/US-C513-STATION1	669026.1859	1684934.3299
508	669222.4590	1685431.2530	4053.64	TU/US-C513-TANKPIT	669028.5042	1684942.7795
509	669219.3990	1685411.0450	4054.92	TU/US-C513-TANKPIT	669025.4451	1684922.5773
510	669260.7320	1685426.0370	4053.70	TU/US-C513-TANKPIT	669066.7661	1684937.5650
511	669277.6950	1685433.5720	4053.31	TU/US-C513-MW2-CASIN	669083.7242	1684945.0978
512	669243.5650	1685418.8110	4054.36	TU/US-C513-TRANSPAD	669049.6041	1684930.3411
513	669236.4970	1685419.8090	4054.30	TU/US-C513-TRANSPAD	669042.5381	1684931.3388
514	669235.5680	1685411.9050	4054.57	TU/US-C513-TRANSPAD	669041.6094	1684923.4371
515	669277.6850	1685433.6210	4053.26	TU/US-C513-MW2-C[illegible] PVC	669083.7142	1684945.1468
516	669188.9570	1685441.5400	4053.76	TU/US-C513-MW1-CASIN	668995.0119	1684953.0635
517	669188.7180	1685441.6230	4053.31	TU/US-C513-MW1-PVC	668994.7730	1684953.1465
518	669175.0530	1685411.5360	4053.78	TU/US-C513-MW3-PVC	668981.1120	1684923.0682
519	669175.2900	1685411.4450	4054.15	TU/US-C513-MW3-CASIN	668981.3489	1684922.9772
520	669194.6820	1685411.4540	4054.72	TU/US-C513-BLDGCOR	669000.7353	1684922.9862
521	669205.8290	1685420.1440	4054.47	TU/US-C513-BLDGCOR	669011.8790	1684931.6737
522	669292.6520	1685418.3920	4053.83	TU/US-C513-BLDGCOR	669098.6769	1684929.9222
523	669293.9380	1685428.2990	4053.77	TU/US-C513-BLDGCOR	669099.9625	1684939.8263
524	685879.9040	1686627.7590	4102.02	OTC-534-CASING	685681.1215	1686138.9387
525	685879.6290	1686627.7910	4101.61	OTC-534-PVC	685680.8466	1686138.9707
526	685894.0510	1686651.2940	4102.15	OTC-534-MW6-CASING	685695.2644	1686162.4669
527	685893.7240	1686651.3020	4101.74	OTC-534-MW6-PVC	685694.9375	1686162.4749
528	685866.3710	1686655.8860	4101.59	OTC-534-MW8-PVC	685667.5925	1686167.0576
529	685866.6060	1686655.6520	4102.06	OTC-534-MW8-CASING	685667.8274	1686166.8236
530	685876.1160	1686687.3140	4102.11	OTC-534-MW5-CASING	685677.3346	1686198.4764
531	685875.8760	1686687.4250	4101.81	OTC-534-MW5-PVC	685677.0947	1686198.5874
532	685834.9910	1686704.4610	4101.83	OTC-534-MW9-PVC	685636.2216	1686215.6185
533	685835.2820	1686704.5300	4102.15	OTC-534-MW9-CASING	685636.5125	1686215.6875
534	685772.4780	1686595.2240	4101.45	OTC-534-MW10-NG	685573.7267	1686106.4131
535	669081.1480	1678793.1860	4046.72	OTC-531B-SEPTANK	668887.2342	1678306.6363
536	669082.4390	1678801.3130	4046.63	OTC-531B-SEPTANK	668888.5248	1678314.7610
537	669072.3810	1678802.9790	4046.81	OTC-531B-SEPTANK	668878.4697	1678316.4265
538	669070.8860	1678795.3530	4046.82	OTC-531B-SEPTANK	668876.9751	1678308.8027
539	669104.1410	1678787.7690	4045.69	OTC-531B-STATION-1	668910.2205	1678301.2209
540	669070.9690	1678801.9800	4046.52	OTC-531B-STATION-2	668877.0581	1678315.4278
541	669061.4820	1678787.2510	4046.24	OTC-531B-STATION-3	668867.5739	1678300.7031
542	669022.2810	1678760.4940	4045.98	OTC-531B-MW-1-PVC	668828.3842	1678273.9538
543	669022.4740	1678760.4670	4046.35	OTC-531B-MW-1-CASING	668828.5772	1678273.9268
544	669029.7060	1678750.8610	4046.12	OTC-531B-LEACH	668835.8071	1678264.3236
545	669044.0770	1678753.3070	4046.04	OTC-531B-LEACH	668850.1739	1678266.7689
546	669048.2090	1678762.3910	4046.19	OTC-531B-LEACH	668854.3047	1678275.8503
547	669052.8600	1678773.5200	4046.17	OTC-531B-LEACH	668858.9544	1678286.9760
548	669051.8580	1678782.0380	4046.19	OTC-531B-LEACH	668857.9527	1678295.4916
549	669045.9680	1678791.0410	4045.97	OTC-531B-LEACH	668852.0644	1678304.4920
550	669037.6080	1678787.3270	4046.05	OTC-531B-LEACH	668843.7068	1678300.7790
551	669030.8940	1678787.9690	4046.07	OTC-531B-LEACH	668836.9947	1678301.4208
552	669024.6850	1678794.4050	4045.99	OTC-531B-LEACH	668830.7875	1678307.8550
553	669012.0060	1678808.0140	4045.98	OTC-531B-LEACH	668818.1122	1678321.4600
554	669005.0390	1678788.3970	4045.95	OTC-531B-LEACH	668811.1472	1678301.8487
555	669008.1540	1678771.5710	4046.05	OTC-531B-LEACH	668814.2613	1678285.0276
556	669012.3090	1678761.0960	4046.10	OTC-531B-LEACH	668818.4151	1678274.5556
557	669052.5660	1678784.6580	4046.08	OTC-531B-FLINE	668858.6605	1678298.1108
558	669071.4380	1678798.9230	4046.55	OTC-531B-FLINE	668877.5270	1678312.3717
559	669082.2160	1678797.7200	4046.58	OTC-531B-ELINE	668888.3019	1678311.1690
560	669109.7160	1678792.3340	4045.64	OTC-531B-ELINE	668915.7939	1678305.7846
561	669130.6340	1678787.5660	4047.05	OTC-531B-ELINE	668936.7058	1678301.0180
562	669132.6960	1678800.0880	4046.87	OTC-531B-BLDGCOR	668938.7672	1678313.5363
563	669139.6540	1678804.9540	4046.97	OTC-531B-BLDGCOR	668945.7232	1678318.4009
564	669127.3740	1678771.5760	4046.72	OTC-531B-BLDGCOR	668933.4468	1678285.0326
565	669131.8520	1678764.6150	4047.25	OTC-531B-BLDGCOR	668937.9235	1678278.0736
566	668593.1300	1678901.9680	4046.19	OTC-531C-BLDGCOR	668399.3576	1678415.3868
567	668588.1250	1678902.8360	4046.21	OTC-531C-BLDGCOR	668394.3541	1678416.2546
568	668585.3350	1678865.5840	4046.55	OTC-531C-BLDGCOR	668391.5649	1678379.0133
569	668590.1110	1678858.6070	4046.53	OTC-531C-BLDGCOR	668396.3395	1678372.0384
570	668590.3090	1678889.4560	4045.95	OTC-531C-ELINE	668396.5374	1678402.8784
571	668578.4210	1678891.4650	4046.03	OTC-531C-ELINE	668384.6529	1678404.8868
572	668560.7680	1678894.7530	4045.47	OTC-531C-ELINE	668367.0050	1678408.1739
573	668535.6480	1678899.2930	4046.35	OTC-531C-ELINE	668341.8923	1678412.7126
574	668535.0660	1678896.4960	4046.68	OTC-531C-SEPTIC	668341.3104	1678409.9164
575	668535.3940	1678905.9700	4046.47	OTC-531C-SEPTIC	668341.6383	1678419.3876
576	668522.2510	1678906.9450	4046.51	OTC-531C-SEPTIC	668328.4992	1678420.3624
577	668522.3100	1678897.4040	4046.39	OTC-531C-SEPTIC	668328.5581	1678410.8241

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
578	668561.9930	1678890.5660	4045.66	OTC-531C-STATION-1	668368.2296	1678403.9881
579	668531.2500	1678902.0810	4046.55	OTC-531C-STATION-2	668337.4955	1678415.4998
580	668522.9580	1678893.5110	4045.84	OTC-531C-STATION-3	668329.2059	1678406.9323
581	668521.6100	1678902.7660	4046.16	OTC-531C-FLINE	668327.8583	1678416.1846
582	668515.2610	1678901.5740	4045.66	OTC-531C-FLINE	668321.5112	1678414.9929
583	668515.8520	1678907.4010	4045.67	OTC-531C-LEACH	668322.1020	1678420.8182
584	668498.6960	1678906.8280	4045.81	OTC-531C-LEACH	668304.9510	1678420.2454
585	668489.9270	1678907.6430	4045.74	OTC-531C-LEACH	668296.1845	1678421.0602
586	668481.5760	1678902.8790	4045.69	OTC-531C-LEACH	668287.8359	1678416.2975
587	668476.1180	1678891.3230	4045.84	OTC-531C-LEACH	668282.3795	1678404.7449
588	668473.4290	1678883.0340	4045.68	OTC-531C-LEACH	668279.6913	1678396.4583
589	668473.7340	1678874.2510	4045.53	OTC-531C-LEACH	668279.9962	1678387.6778
590	668476.2360	1678867.2340	4045.54	OTC-531C-LEACH	668282.4975	1678380.6629
591	668482.1720	1678868.3950	4045.45	OTC-531C-MW-1-PVC	668288.4318	1678381.8235
592	668482.4510	1678868.3680	4045.85	OTC-531C-MW-1-CASING	668288.7107	1678381.7965
593	668490.9400	1678863.0190	4045.60	OTC-531C-LEACH	668297.1972	1678376.4491
594	668503.3450	1678866.8310	4045.87	OTC-531C-LEACH	668309.5986	1678380.2600
595	668508.4050	1678874.1920	4045.93	OTC-531C-LEACH	668314.6572	1678387.6189
596	668515.8970	1678879.7420	4045.82	OTC-531C-LEACH	668322.1470	1678393.1672
597	668524.3970	1678890.3500	4045.70	OTC-531C-LEACH	668330.6445	1678403.7722
598	667495.6300	1679128.7300	4042.53	OTC-532-BLDGCOR	667302.1757	1678642.0831
599	667488.6400	1679123.9580	4042.71	OTC-532-BLDGCOR	667295.1877	1678637.3125
600	667462.6660	1679059.4970	4041.10	OTC-532-BLDGCOR	667269.2212	1678572.8701
601	667481.1840	1679050.1710	4042.61	OTC-532-BLDGCOR	667287.7339	1678563.5469
602	667486.0130	1679106.7520	4042.73	OTC-532-ELINE	667292.5615	1678620.1115
603	667462.4800	1679111.5030	4040.38	OTC-532-ELINE	667269.0353	1678624.8611
604	667462.2250	1679114.4150	4040.62	OTC-532-STATION-1	667268.7804	1678627.7722
605	667442.0090	1679119.1410	4041.24	OTC-532-STATION-2	667248.5702	1678632.4969
606	667419.1640	1679115.1840	4040.86	OTC-532-STATION-3	667225.7319	1678628.5410
607	667385.6930	1679101.6040	4040.50	OTC-532-STATION-4	667192.2706	1678614.9649
608	667381.8850	1679101.5680	4040.62	OTC-532-LEACH	667188.4637	1678614.9290
609	667383.6400	1679091.6130	4040.63	OTC-532-LEACH	667190.2181	1678604.9768
610	667385.4250	1679087.0370	4040.57	OTC-532-LEACH	667192.0026	1678600.4022
611	667388.9960	1679084.4040	4040.65	OTC-532-LEACH	667195.5726	1678597.7699
612	667394.2390	1679084.6140	4040.73	OTC-532-LEACH	667200.8141	1678597.9799
613	667396.1210	1679092.7430	4040.70	OTC-532-LEACH	667202.6955	1678606.1065
614	667398.1240	1679100.9150	4040.70	OTC-532-LEACH	667204.6979	1678614.2761
615	667402.2360	1679106.9240	4040.75	OTC-532-LEACH	667208.8088	1678620.2834
616	667410.1270	1679109.8530	4040.82	OTC-532-LEACH	667216.6975	1678623.2116
617	667419.4540	1679110.1630	4040.85	OTC-532-LEACH	667226.0218	1678623.5215
618	667420.7270	1679120.1400	4041.02	OTC-532-FLINE	667227.2944	1678633.4956
619	667423.8510	1679141.7780	4040.59	OTC-532-LEACH	667230.4175	1678655.1273
620	667412.2990	1679143.4760	4040.74	OTC-532-LEACH	667218.8688	1678656.8248
621	667403.7350	1679143.1670	4040.80	OTC-532-LEACH	667210.3073	1678656.5159
622	667397.0900	1679139.6510	4040.75	OTC-532-LEACH	667203.6642	1678653.0009
623	667384.3300	1679127.9250	4040.44	OTC-532-LEACH	667190.9079	1678641.2783
624	667382.6070	1679116.1130	4040.44	OTC-532-LEACH	667189.1854	1678629.4697
625	667430.4810	1679118.6630	4041.32	OTC-532-FLINE	667237.0456	1678632.0190
626	667430.2210	1679114.2980	4041.25	OTC-532-SEPTIC	667236.7856	1678627.6553
627	667440.5880	1679113.0200	4041.26	OTC-532-SEPTIC	667247.1496	1678626.3776
628	667442.9470	1679123.3120	4041.21	OTC-532-SEPTIC	667249.5080	1678636.6667
629	667430.1210	1679125.8580	4041.28	OTC-532-SEPTIC	667236.6857	1678639.2119
630	667441.8110	1679116.2010	4041.27	OTC-532-ELINE	667248.3723	1678629.5577
631	669659.5140	1678688.1920	4048.05	OTC-531A-ELINE	669465.4326	1678201.6728
632	669645.1200	1678691.4170	4047.42	OTC-531A-ELINE	669451.0427	1678204.8968
633	669626.5240	1678694.6570	4048.54	OTC-531A-ELINE	669432.4521	1678208.1359
634	669625.4550	1678690.5680	4048.58	OTC-531A-SEPTIC	669431.3834	1678204.0481
635	669627.0130	1678697.2200	4048.59	OTC-531A-SEPTIC	669432.9410	1678210.6981
636	669614.1180	1678700.1730	4048.60	OTC-531A-SEPTIC	669420.0497	1678213.6503
637	669613.0940	1678693.8150	4048.72	OTC-531A-SEPTIC	669419.0260	1678207.2941
638	669648.5430	1678685.0250	4047.24	OTC-531A-STATION-1	669454.4647	1678198.5067
639	669615.3510	1678691.9600	4048.59	OTC-531A-STATION-2	669421.2823	1678205.4397
640	669607.0140	1678691.1700	4048.42	OTC-531A-STATION-3	669412.9478	1678204.6499
641	669606.7200	1678688.2040	4048.56	OTC-531A-LEACH	669412.6539	1678201.6848
642	669608.9270	1678706.1330	4048.28	OTC-531A-LEACH	669414.8602	1678219.6086
643	669601.3790	1678707.8980	4048.13	OTC-531A-LEACH	669407.3144	1678221.3730
644	669593.2420	1678708.2220	4047.49	OTC-531A-LEACH	669399.1798	1678221.6970
645	669578.1380	1678708.5010	4047.22	OTC-531A-LEACH	669384.0801	1678221.9759
646	669565.0490	1678706.1840	4047.29	OTC-531A-LEACH	669370.9949	1678219.6595
647	669554.2260	1678694.3690	4047.37	OTC-531A-LEACH	669360.1751	1678207.8480
648	669553.4160	1678687.6760	4047.59	OTC-531A-LEACH	669359.3653	1678201.1569

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
649	669552.5940	1678678.4030	4047.76	OTC-531A-LEACH	669358.5435	1678191.8866
650	669550.0120	1678656.4050	4047.76	OTC-531A-LEACH	669355.9623	1678169.8950
651	669556.1880	1678652.3190	4047.86	OTC-531A-LEACH	669362.1365	1678165.8102
652	669559.2580	1678655.8340	4047.38	OTC-531A-MW-1-PVC	669365.2056	1678169.3241
653	669559.5100	1678655.7600	4047.78	OTC-531A-MW-1-CASING	669365.4575	1678169.2502
654	669561.9190	1678650.8880	4047.69	OTC-531A-LEACH	669367.8658	1678164.3796
655	669569.0970	1678659.8040	4048.02	OTC-531A-LEACH	669375.0418	1678173.2930
656	669574.5390	1678669.0420	4047.77	OTC-531A-LEACH	669380.4822	1678182.5283
657	669580.0480	1678677.6210	4047.77	OTC-531A-LEACH	669385.9896	1678191.1048
658	669581.1180	1678685.2190	4047.72	OTC-531A-LEACH	669387.0593	1678198.7006
659	669589.3790	1678690.0080	4047.91	OTC-531A-LEACH	669395.3179	1678203.4882
660	669598.7410	1678687.4540	4047.88	OTC-531A-LEACH	669404.6772	1678200.9350
661	669608.6000	1678697.8630	4048.38	OTC-531A-FLINE	669414.5333	1678211.3410
662	669613.4950	1678697.0050	4048.61	OTC-531A-FLINE	669419.4269	1678210.4832
663	669434.7190	1685385.1220	4055.15	US/TC-515-EXAVATION	669240.7027	1684896.6618
664	669433.7320	1685375.0770	4054.68	US/TC-515-EXAVATION	669239.7160	1684886.6198
665	669453.6100	1685372.2880	4054.89	US/TC-515-EXAVATION	669259.5882	1684883.8316
666	669455.2490	1685382.6100	4055.08	US/TC-515-EXAVATION	669261.2268	1684894.1506
667	669423.1290	1685379.3360	4054.73	US/TC-515-POTHOLE-1	669229.1161	1684890.8775
668	669443.7270	1685362.1260	4054.20	US/TC-515-POTHOLE-2	669249.7081	1684873.6725
669	669443.2340	1685352.4030	4053.69	US/TC-515-POTHOLE-3	669249.2152	1684863.9523
670	669388.8600	1685382.9350	4054.36	US/TC-515-POTHOLE-4	669194.8570	1684894.4755
671	666075.3380	1693454.3920	4059.75	US/TC-502-TANK/EX	665882.2953	1692963.5932
672	666064.5480	1693454.6090	4059.59	US/TC-502-TANK/EX	665871.5084	1692963.8101
673	666064.5890	1693463.2320	4059.66	US/TC-502-TANK/EX	665871.5494	1692972.4306
674	666075.7420	1693463.6580	4059.85	US/TC-502-TANK/EX	665882.6992	1692972.8565
675	666070.2430	1693458.8620	4059.56	US/TC-502-STATION-1	665877.2018	1692968.0619
676	666075.3470	1693459.1030	4059.61	US/TC-502-STATION-2	665882.3043	1692968.3028
677	666070.4890	1693455.0470	4059.46	US/TC-502-STATION-3	665877.4477	1692964.2480
678	666070.2650	1693463.1340	4059.49	US/TC-502-STATION-4	665877.2238	1692972.3327
679	666072.2440	1693503.2780	4060.12	US/TC-502-FIREHY	665879.2022	1693012.4650
680	669813.9600	1693315.1950	4077.70	US/TC-503-EXAVATION	669619.8338	1692824.4365
681	669826.0790	1693326.7460	4077.45	US/TC-503-EXAVATION	669631.9493	1692835.9842
682	669815.4720	1693337.1950	4077.67	US/TC-503-EXAVATION	669621.3454	1692846.4302
683	669803.8000	1693324.4750	4077.59	US/TC-503-EXAVATION	669609.6767	1692833.7139
684	669818.2990	1693319.1730	4077.48	US/TC-503-BEGTRENCH	669624.1715	1692828.4134
685	669837.0790	1693303.2490	4076.88	US/TC-503-ENDTRENCH	669642.9461	1692812.4940
686	681138.0180	1690539.4590	4109.33	OTC-538-STATION-5	680940.6098	1690049.5050
687	673758.3950	1683356.5480	4060.55	US/TC-514-STATION-1	673563.1256	1682868.6758
688	673765.5540	1683358.1250	4060.47	US/TC-514-STATION-2	673570.2825	1682870.2523
689	673770.0890	1683350.4240	4060.48	US/TC-514-STATION-3	673574.8162	1682862.5535
690	673768.2490	1683354.2670	4060.48	US/TC-514-STATION-4	673572.9768	1682866.3954
691	673777.4280	1683353.4050	4060.71	US/TC-514-STATION-5	673582.1531	1682865.5337
692	673776.8350	1683359.0390	4060.94	US/TC-514-BLDGCOR	673581.5603	1682871.1661
693	673769.7480	1683353.9100	4060.70	US/TC-514-BLDGCOR	673574.4753	1682866.0385
694	673778.8570	1683370.4750	4060.92	US/TC-514-BLDGCOR	673583.5817	1682882.5987
695	673773.9440	1683377.3380	4060.70	US/TC-514-BLDGCOR	673578.6701	1682889.4597
696	673723.3370	1683411.0030	4060.56	US/TC-514-MW-1-PVC	673528.0778	1682923.1150
697	673723.6160	1683410.9000	4061.02	US/TC-514-MW-1-CASIN	673528.3567	1682923.0120
698	673699.2890	1683380.7720	4061.09	US/TC-514-MW-2-CASIN	673504.0367	1682892.8928
699	673698.9660	1683380.8260	4060.66	US/TC-514-MW-2-PVC	673503.7138	1682892.9467
700	673812.5550	1683317.4880	4060.43	US/TC-514-MW-3-PVC	673617.2699	1682829.6271
701	673812.8820	1683317.4350	4060.76	US/TC-514-MW-3-CASIN	673617.5968	1682829.5741
702	673776.7270	1683350.1350	4060.82	US/TC-514-FORM/TANK	673581.4523	1682862.2646
703	673777.3420	1683356.4370	4060.94	US/TC-514-FORM/TANK	673582.0671	1682868.5648
704	673759.1130	1683359.4810	4061.06	US/TC-514-FORM/TANK	673563.8434	1682871.6079
705	673757.7990	1683353.3170	4061.32	US/TC-514-FORM/TANK	673562.5298	1682865.4457
706	678061.9490	1684350.2580	4078.63	US/TC-516-FORMTANK	677865.4323	1683862.0978
707	678072.0100	1684348.4740	4078.61	US/TC-516-FORMTANK	677875.4904	1683860.3143
708	678074.0860	1684360.1530	4078.25	US/TC-516-FORMTANK	677877.5658	1683871.9899
709	678065.1290	1684362.4260	4078.47	US/TC-516-FORMTANK	677868.6114	1683874.2622
710	678069.6040	1684359.8850	4078.30	US/TC-516-STATION-1	677873.0851	1683871.7220
711	678064.5960	1684356.9350	4078.34	US/TC-516-STATION-2	677868.0786	1683868.7728
712	678066.1670	1684350.4200	4078.54	US/TC-516-STATION-3	677869.6491	1683862.2597
713	678072.9250	1684354.8490	4078.09	US/TC-516-STATION-4	677876.4052	1683866.6874
714	678101.7280	1684311.2380	4077.72	US/TC-516-MW-2	677905.1998	1683823.0891
715	678116.9250	1684291.3650	4077.78	US/TC-516-MW-2	677920.3924	1683803.2218
716	678061.7680	1684335.2520	4080.38	US/TC-516-BLDGCOR	677865.2514	1683847.0961
717	678064.6310	1684348.2080	4081.07	US/TC-516-BLDGCOR	677868.1136	1683860.0484
718	678026.7560	1684390.7900	4078.49	US/TC-516-MW-1	677830.2495	1683902.6180
719	678014.0050	1684363.8290	4077.81	US/TC-516-MW-3	677817.5022	1683875.6648

RAW DATA

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
720	671269.9880	1692357.3370	4075.08	US/TC-508-FORM/TANK	671075.4398	1691866.8562
721	671299.4450	1692330.8640	4075.18	US/TC-508-FORM/TANK	671104.8883	1691840.3908
722	671324.3300	1692358.5130	4075.17	US/TC-508-FORM/TANK	671129.7661	1691868.0318
723	671294.8560	1692384.8580	4075.02	US/TC-508-FORM/TANK	671100.3006	1691894.3692
724	671311.5950	1692346.0080	4075.12	US/TC-508-STATION-2	671117.0347	1691855.5304
725	671302.2680	1692357.1830	4075.07	US/TC-508-STATION-1	671107.7104	1691866.7022
726	671312.4640	1692368.2800	4074.98	US/TC-508-STATION-4	671117.9035	1691877.7960
727	671282.5110	1692369.9060	4075.01	US/TC-508-STATION-3	671087.9592	1691879.4215
728	671289.2400	1692342.4620	4075.15	US/TC-508-STATION-5	671094.6862	1691851.9855
729	671373.3210	1692386.6060	4075.00	US/TC-508-MW-3-PVC	671178.7429	1691896.1167
730	671373.6120	1692386.5000	4075.33	US/TC-508-MW-3-CASIN	671179.0338	1691896.0107
731	671216.9160	1692488.1670	4075.54	US/TC-508-SS18-MW08-CASIN	671022.3832	1691997.6482
732	671216.7110	1692488.4340	4075.26	US/TC-508-SS18-MW08-PVC	671022.1782	1691997.9152
733	671236.3110	1692301.9320	4075.19	US/TC-508-MW-2-CASIN	671041.7726	1691811.4672
734	671236.1240	1692302.1450	4074.80	US/TC-508-MW-2-PVC	671041.5856	1691811.6801
735	671211.3090	1692324.4610	4075.35	US/TC-508-MW-1-CASIN	671016.7778	1691833.9897
736	671211.0360	1692324.6620	4074.93	US/TC-508-MW-1-PVC	671016.5049	1691834.1906
737	671174.1880	1692241.9700	4074.81	US/TC-508-SS18-MW16-PVC	670979.6676	1691751.5226
738	671174.4770	1692241.7880	4075.34	US/TC-508-SS18-MW16-CASIN	670979.9565	1691751.3406
739	671035.8870	1692106.1030	4074.42	US/TC-508-SS18-MW18-CASIN	670841.4066	1691615.6950
740	671035.6230	1692106.3690	4073.74	US/TC-508-SS18-MW18-PVC	670841.1427	1691615.9609
741	671043.1730	1692355.2630	4075.73	US/TC-508-SS18-MW19-PVC	670848.6905	1691864.7828
742	670383.2120	1691278.5670	4072.57	US/TC-504-MW-2-CASIN	670188.9208	1690788.3988
743	670383.0220	1691278.7790	4072.19	US/TC-504-MW-2-PVC	670188.7309	1690788.6107
744	670343.7050	1691297.2270	4072.57	US/TC-504-MW-1-PVC	670149.4253	1690807.0534
745	670343.9460	1691296.8630	4072.80	US/TC-504-MW-1-CASIN	670149.6662	1690806.6895
746	669680.3630	1678704.0610	4048.54	OTC-531A-BLDGCOR	669486.2755	1678217.5372
747	669673.4280	1678699.1340	4048.44	OTC-531A-BLDGCOR	669479.3425	1678212.6116
748	669662.1160	1678671.3190	4048.32	OTC-531A-BLDGCOR	669468.0338	1678184.8047
749	669671.0810	1678657.6480	4048.29	OTC-531A-BLDGCOR	669476.9962	1678171.1376
750	669671.6690	1678686.6260	4048.54	OTC-531A-ELINE	669477.5840	1678200.1072
751	670995.2900	1691723.6540	4072.55	US/TC-500-STATION-6	670800.8214	1691233.3568
752	682707.7150	1693994.3080	4139.12	OTC-539-SEPTIC	682509.8519	1693503.3527
753	682707.1360	1693987.5070	4139.01	OTC-539-SEPTIC	682509.2731	1693496.5537
754	682713.9270	1693987.3840	4139.07	OTC-539-SEPTIC	682516.0621	1693496.4307
755	682714.4020	1693993.8490	4139.12	OTC-539-SEPTIC	682516.5370	1693502.8939
756	682710.5050	1693994.2530	4139.11	OTC-539-ELINE	682512.6411	1693503.2977
757	682711.7750	1694038.3560	4139.83	OTC-539-ELINE	682513.9107	1693547.3880
758	682709.6340	1694009.1330	4139.38	OTC-539-STATION-1	682511.7704	1693518.1734
759	682715.9010	1693990.7160	4139.12	OTC-539-STATION-2	682518.0355	1693499.7618
760	682707.9950	1693985.7400	4139.05	OTC-539-STATION-3	682510.1318	1693494.7872
761	682690.1540	1693966.7430	4138.58	OTC-539-STATION-4	682492.2960	1693475.7957
762	682700.5510	1693984.6270	4139.10	OTC-539-LEACH	682502.6900	1693493.6745
763	682694.7220	1693978.9800	4138.75	OTC-539-LEACH	682496.8627	1693488.0292
764	682685.8570	1693975.5370	4138.62	OTC-539-LEACH	682488.0002	1693484.5872
765	682686.8260	1693963.6500	4138.56	OTC-539-LEACH	682488.9690	1693472.7036
766	682690.9260	1693959.9730	4138.78	OTC-539-LEACH	682493.0678	1693469.0277
767	682696.9840	1693956.9410	4138.94	OTC-539-LEACH	682499.1240	1693465.9966
768	682705.4410	1693958.5980	4139.12	OTC-539-LEACH	682507.5786	1693467.6531
769	682714.7430	1693968.3290	4139.32	OTC-539-LEACH	682516.8779	1693477.3813
770	682721.4010	1693976.8710	4139.30	OTC-539-LEACH	682523.5339	1693485.9208
771	682717.7930	1693983.8070	4139.35	OTC-539-LEACH	682519.9270	1693492.8548
772	682710.1830	1693984.5790	4139.16	OTC-539-ELINE	682512.3192	1693493.6265
773	682710.2190	1693987.2160	4139.18	OTC-539-ELINE	682512.3552	1693496.2628
774	682690.6020	1694039.4720	4139.43	OTC-539-BLDGCOR	682492.7439	1693548.5036
775	682684.8200	1694045.5030	4139.27	OTC-539-BLDGCOR	682486.9635	1693554.5329
776	682741.4000	1694039.0240	4140.22	OTC-539-BLDGCOR	682543.5271	1693548.0558
777	682747.1830	1694045.0970	4140.68	OTC-539-BLDGCOR	682549.3085	1693554.1270

SURVEYOR'S CERTIFICATION

I, SANTIAGO ROMERO, JR., DO HEREBY CERTIFY THAT I AM A DULY QUALIFIED PROFESSIONAL SURVEYOR REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE DATA SHOWN HEREON WAS ASSEMBLED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF IS ACCURATELY REPRESENTED.

SANTIAGO ROMERO, JR., NMPS NO. 7924

12/14/2012
DATE

SANTIAGO ROMERO, JR.
NEW MEXICO
7924
PROFESSIONAL SURVEYOR

RAW DATA

HOLLOMAN AIR FORCE BASE
MAIN SITE SURVEY

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
778	686068.4560	1686694.7280	4103.68	OTC-534-MW-10-PVC	685869.6189	1686205.8883
779	686068.7800	1686694.7810	4104.06	OTC-534-MW-10-CASING	685869.9428	1686205.9413
780	685846.6180	1686522.2590	4102.52	OTC-534-MW-11-CASING	685647.8452	1686033.4693
781	685846.3620	1686522.2240	4102.15	OTC-534-MW-11-PVC	685647.5893	1686033.4343
782	685670.3280	1686561.9490	4102.29	OTC-534-MW-12-PVC	685471.6063	1686073.1478
783	685670.6410	1686561.9860	4102.69	OTC-534-MW-12-CASING	685471.9192	1686073.1848

RAW DATA

HOLLOMAN AIR FORCE BASE
WEST SITE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	GRID NORTHING	GRID EASTING
1	684793.2210	1611172.5300	3911.93	BASE	684598.9178	1610715.3759
2	682531.9480	1628747.6200	3965.57	EC-30	682338.2864	1628285.4792
3	682452.1330	1628714.0920	3957.20	EC-30-2	682258.4940	1628251.9607
4	698323.2620	1606321.3780	3915.08	CHAS	698125.1198	1605865.6004
5	681800.7610	1605128.9720	3910.25	CINDY	681607.3069	1604673.5327
60	616427.1730	1576921.6540	3941.67	LUCERO	616252.2680	1576474.2182
61	600657.7750	1576446.9260	4131.58	GERI	600487.3444	1575999.6249
62	614156.5210	1568701.1170	4227.09	SW 30	613982.2602	1568256.0137
63	575518.1130	1586543.7100	4038.20	BRYCE AZ MK	575354.8155	1586093.5441
64	576512.9440	1582067.6800	4357.70	BRYCE	576349.3642	1581618.7841
65	633185.2600	1566510.7280	4417.64	HORN	633005.6000	1566066.2462
66	580320.9040	1585783.2080	4128.59	NICK 2	580156.2437	1585333.2579
67	682452.1790	1628714.1810	3957.10	EC-30-2	682258.5400	1628252.0496
68	698323.2620	1606321.3780	3914.70	CHAS	698125.1198	1605865.6004
69	698212.0050	1609477.2870	3928.40	CHUCK	698013.8943	1609020.6139
70	682531.9020	1628747.5310	3965.57	EC-30	682338.2404	1628285.3902
71	681800.7610	1605128.9720	3910.25	CINDY	681607.3069	1604673.5327
100	684194.1900	1611160.8710	3912.56	USTC-518-NG	684000.0567	1610703.7202
101	684194.8810	1611165.7430	3912.33	USTC-518-NG	684000.7475	1610708.5908
102	684188.7970	1611168.5190	3912.27	USTC-518-NG	683994.6653	1610711.3660
103	684189.4230	1611176.5450	3912.53	USTC-518-NG	683995.2911	1610719.3898
104	684179.6480	1611178.5150	3912.57	USTC-518-NG	683985.5189	1610721.3592
105	684178.1630	1611171.1680	3912.37	USTC-518-NG	683984.0343	1610714.0143
106	684177.1790	1611163.0630	3913.00	USTC-518-NG	683983.0506	1610705.9116
107	684157.6940	1611173.6700	3912.42	USTC-518-STATION-5	683963.5711	1610716.5156
108	684176.2170	1611179.5100	3912.28	USTC-518-STATION-4	683982.0888	1610722.3539
109	684175.8730	1611172.3430	3912.51	USTC-518-STATION-2	683981.7449	1610715.1890
110	684173.8830	1611163.3430	3912.65	USTC-518-STATION-3	683979.7555	1610706.1915
111	684189.5770	1611170.0220	3912.30	USTC-518-STATION-1	683995.4450	1610712.8686
112	684160.3220	1611172.8640	3912.49	USTC-518-POTHOLE-1	683966.1984	1610715.7098
113	684125.1520	1611185.2360	3910.93	USTC-518-MW-1	683931.0383	1610728.0783
114	684130.9190	1611216.0540	3911.17	USTC-518-MW-2	683936.8037	1610758.8876
115	684158.8770	1611187.1610	3912.34	USTC-518-BLDGCORN-70	683964.7538	1610730.0028
116	684163.9700	1611180.4420	3912.46	USTC-518-BLDGCORN-70	683969.8453	1610723.2857
117	684211.6690	1611174.1790	3912.47	USTC-518-BLDGCORN-70	684017.5308	1610717.0244
118	684218.3800	1611179.3060	3912.45	USTC-518-BLDGCORN-70	684024.2399	1610722.1500
119	684236.0190	1611144.8000	3911.88	USTC-518-NAIL	684041.8739	1610687.6538
120	684242.7800	1611133.9130	3911.77	USTC-518-NAIL	684048.6330	1610676.7699
121	684203.7200	1611162.6570	3912.21	USTC-518-STATION-6	684009.5840	1610705.5057

SURVEYOR'S CERTIFICATION

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SANTIAGO ROMERO, JR., NMPS NO. 7924

12/14/2012
DATE

SANTIAGO ROMERO, JR.
NEW MEXICO
7924
PROFESSIONAL SURVEYOR

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix H
Laboratory Analytical Data Packages and Data Validation Checklists

Note: The data validation checklists and laboratory analytical data reports are provided as separate files.

VOLATILE ORGANIC COMPOUNDS ANALYSIS DATA VERIFICATION CHECKLIST
(USING DoD QSM 4.2)

UNITED STATES AIR FORCE
HOLLOMAN BASE

Location:	Holloman AFB	**SDG No.:**	F95217	**Sampling Dates:**	7/24/12
Laboratory:	Accutest	**COC No.:**	F95217	**Matrix:**	SOIL
Parameter:	VOCs			**Analytical Method:**	8260B
Extraction Dates/ Prep Batch No.:	N/A			**Analysis Dates:**	7/25/12

Sample ID **USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)**, USTC501-CS-0003-072412(-03), USTC501-CS-0004-072412(-04), USTC507-CS-0001-072412(-05), USTC507-CS-0002-072412(-06)

	Yes	No	N/A
1. Analytical Capability			
Was analytical capability demonstrated?	X		
2. Limit of Detection (LOD)			
Were LODs determined and verified?	X		
3. Limit of Quantitation (LOQ)			
Were LOQs determined and verified?	X		
4. Sample Holding Time			
a) Were samples preserved?	X		
b) Were samples analyzed within holding times?	X		
5. Instrument Tuning			
Was the BFB tune performed at the beginning of each 12-hour periods during which samples were analyzed?	X		
6. Ion Mass			
Was mass assignment based on m/z 95?	X		
7. Ion Abundance	X		
Indicate if BFB ions abundance relative to m/z 95 base peak met the ions abundance criteria:			

		Yes	No	N/A
m/z	Acceptance Criteria	X		

50	15.0 – 40.0%			
75	30.0 – 66.0%	X		
95	100%, Base Peak	X		
96	5.0 – 9.0%	X		
173	<2.0% of m/z 174	X		
174	>50%	X		
175	5.0 – 9.0% of mass 174	X		
176	95.0 – 101.0% of m/z 174	X		
177	5.0 – 9.0% of m/z 176	X		

Note: The relative ion abundance of m/z 95/96, 174/176, and 176/177 are of critical importance. The relative ion abundance of m/z 50 and 75 are of lower importance.

8. Initial Calibration

a) Did the initial calibration consist of five or more standards? _____ stds — X

b) Did the following System Performance Check Compounds (SPCCs) meet the minimum mean response factor (RF)?

	RF			
Chloromethane	0.1	X		
1,1-Dichloroethane	0.1	X		
Bromoform	0.1	X		
Chlorobenzene	0.3	X		
1,1,2,2-Tetrachloroethane	0.3	X		

c) Did the RSD meet the criteria ≤ 30% for the following Calibration Check Compounds (CCCs)?

1,1-Dichloroethene	X		
Chloroform	X		
1,2-Dichloropropane	X		
Toluene	X		
Ethylbenzene	X		
Vinyl chloride	X		
	Yes	**No**	**N/A**

d) In addition, did the initial calibration meet any of the following options:

i) RSD for each analyte ≤ 15% — X

	ii) Linear least square regression r ≥ 0.995	X		
	iii) Non-linear regression-coefficient $r^2 \geq 0.99$	X		
9.	Retention Time Window			
	Were retention time window positions established for each analyte and surrogate?	X		
10.	Evaluation of Relative Retention Time			
	Was RRT of each target analyte within ± 0.06 RRT units?	X		
11.	Initial Calibration Verification (ICV)			
	a) Was an ICV run immediately after each ICAL?	X		
	b) Was the mid-level (2nd source) within ± 20% of the true value?	X		
12.	Continuing Calibration Verification (CCV)			
	a) Was a CCV conducted at least every 12 hours?	X		
	b) Did any of the SPCCs meet the minimum RF values?	X		
	RF			
	Chloromethane 0.1	X		
	1,1-Dichloroethane 0.1	X		
	Bromoform 0.1	X		
	Chlorobenzene 0.3	X		
	1,1,2,2-Tetrachloroethane 0.3	X		
	c) Did the CCC meet the minimum requirements (D ≤ 20%) for the following?			
	1,1-Dichloroethene	X		
	Chloroform	X		
	1,2-Dichloropropane	X		
	Toluene	X		
	Ethylbenzene	X		
	Vinyl chloride	X		
	d) Primary Evaluation: Was drift (D) ≤ 20% calculated from the initial calibration?	X		
		Yes	**No**	**N/A**
13.	Internal Standard Verification	X		

a) Were retention times ± 30 seconds from the retention time of the mid-point standard in the ICAL? ____ ____ ____

b) Were EICP areas within -50% to +100% of the ICAL mid-point standard? X

Sample	Internal Standard	Associated compounds	Validation qualifiers
USTC501-CS-0003-072412(-03)	TertButylAlcohol-D10	None	None

14. Sample Quality Control

a) Method Blanks

i) Was a method blank present in every preparatory batch? X ____ ____

ii) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater? ____ X ____

iii) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)? ____ X ____

b) Common Contaminants

i) Were any analytes present >RL? ____ X ____

c) Laboratory Control Sample (LCS)

1) Was an LCS present in every preparatory batch? X ____ ____

2) Did the LCS contain all analytes to be reported? X ____ ____

3) Were percent recoveries for the LCS within the limits? X ____ ____

(Enter out of control recoveries only)

Identification of LCS Standard

Spiked Compound	LCS (Limit: 80-130 %R)	LCSD (Limit: 80-130 %R)	RPD (<20%)

Dibromochloromethane is non-detect in the associated samples and the bias is positive; no qualification of data

d) Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

i) Were percent recoveries within limits? ____ X ____

(Enter out of control recoveries only)

ii) Were the relative percent differences (RPDs) within the acceptable limits? ____ X ____

(Enter out of control recoveries only)

Identification of Original Sample Used for QC

Sample ID	Analyte	Percent Reovery		mg/Kg		RPD
		MS	MSD	Original Sample	Duplicate Sample	

Sample: **USTC501-CS-0001-072412(-01)**	Bromoform	Ok	69	Low recovery	Ok
	Chlorobenzene	Ok	80	Low recovery	Ok
	Cis-1,3-Dichloropropene	Ok	73	Low recovery	ok
	m-Dichlorobenzene	Ok	78	Low recovery	ok
	o-Dichlorobenzene	Ok	81	Low recovery	Ok
	p-Dichlorobenzene	Ok	77	Low recovery	Ok
	Trans-1,3-Dichloropropene	Ok	79	Low recovery	Ok
	2-Hexanone	0	0	No recovery	Not calculated
	4-Methyl-2-pentanone	6	33	Low recovery	141
	Methylcyclohexane	Ok	76	Low recovery	Ok
	Methyl ethyl ketone	58	60	Low recovery	Ok
	Styrene	Ok	76	Low recovery	Ok
	1,1,1-Trichloroethane	Ok	79	Low recovery	Ok
	1,2,4-Trichlorobenzene	Ok	78	Low recovery	Ok
	Toluene	Ok	76	Low recovery	Ok

The following qualified (UJ- MS/MSD): Bromoform, Chlorobenzene, Cis-1,3-Dichloropropene, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Trans-1,3-Dichloropropene, 2-Hexanone, 4-Methyl-2-pentanone, Methylcyclohexane, Methyl ethyl ketone, Styrene, 1,1,1-Trichloroethane, 1,2,4-Trichlorobenzene, Toluene.
No qualification for RPD results since different spiking concentrations were used.
Sample: USTC501-CS-0001-072412(-01)

	Yes	No	N/A
e) System Monitoring Compounds			
iii) Are surrogate recoveries within QC limits?	X		

(Enter out of control recoveries only)

Surrogate Recoveries

Sample ID	%Recovery			
	S1	**S2**	**S3**	**S4**
	(35-125)	(45-105)	(35-105)	(35-100)

NOTE: S1=1,2-Dichloroethane-d4, S2=Dibromofluoromethane, S3=4-Bromofluorobenzene, S4=Toluene-8

Was there a sample/duplicate pair: Yes
Was the RPD criteria met Yes
Sample/Duplicate Pairs: USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)
All analytes are non-detect in the sample/duplicate pair.

Comments (attach additional sheets if necessary):

MS/MSD: The following qualified (UJ- MS/MSD): Bromoform, Chlorobenzene, Cis-1,3-Dichloropropene, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Trans-1,3-Dichloropropene, 2-Hexanone, 4-Methyl-2-pentanone, Methylcyclohexane, Methyl ethyl ketone, Styrene, 1,1,1-Trichloroethane, 1,2,4-Trichlorobenzene, Toluene.
Sample: USTC501-CS-0001-072412(-01)

Validated/Reviewed by:

Signature: Date: 9/05/12

Name: Beulah Brock

Overall Assessment of the Data Package: Data acceptable as reported by laboratory

ICP METALS ANALYSIS DATA VERIFICATION CHECKLIST
(USING DoD QSM 4.2)

UNITED STATES AIR FORCE
HOLLOMAN FORCE BASE

Location:	HOLLOMAN AFB	**SDG No.:**	F95217	**Sampling Dates:**	7/24/12
Laboratory:	ACCUTEST	**COC No.:**	F95217	**Matrix:**	SOIL
Parameter:				**Analytical Method:**	6010C
Extraction Dates/ Prep Batch No.:	7/26,31/12			**Analysis Dates:**	7/27,30,31/12
ICAL Calibration No.:	MA10000, MA9995, MA9999				

CCV MA10000, MA9995, MA9999

Sample IDs: **USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)**, USTC501-CS-0003-072412(-03), USTC501-CS-0004-072412(-04), USTC507-CS-0001-072412(-05), USTC507-CS-0002-072412(-06)

	Yes	No	N/A
1. Analytical Capability			
Was analytical capability demonstrated?	X		
2. Limit of Detection (LOD)			
Were LODs determined and verified?	X		
3. Limit of Quantitation (LOQ)			
Were LOQs determined and verified?	X		
4. Instrument Detection Limit (IDL) study			
Was an IDL study performed?	X		
5. Sample Holding Time			
Were samples analyzed within holding times?	X		
6. Initial Calibration			
Did the initial calibration consist of:			
a) One high calibration standard and a blank?	X		
b) Three or more standards and a blank?	X		

	Yes	No	N/A
7. Low Level Calibration Check Standard (daily after 1 point ICAL)			
Was the percentage "D" ≤20%?	X		
8. Initial Calibration Verification (ICV)			
a) Was it analyzed after each ICAL and the beginning of each analytical run?	X		
b) Was the mid-level (2nd source) within 90-110?	X		
9. Initial Calibration Blank (ICB)			
Was the ICB analyzed immediately following the ICV?	X		
10. Linear Dynamic Range or High Level Check Standard (every 6 months)			
Was recovery within 90-110?	X		
11. Interelement Check Standard (ICS)			
a) Was ICS-A (interferents only) conducted at the beginning of the analytical sequence?	X		
b) Were concentrations (absolute values) of all non-spiked analytes <LOD?	X		
c) Was ICS-B (interferents and target analytes) within QC limits (80-120)?	X		
12. Continuing Calibration Blank (CCB)			
a) Was a CCB conducted at least every 10 samples?	X		
b) Was a CCB conducted at the end of the analytical sequence?	X		
c) Were all analyte concentrations <LOD?	X		
13. Continuing Calibration Verification (CCV)			
a) Was a CCV conducted at least every 10 samples?	X		
b) Was a CCV conducted at the end of the analytical sequence?	X		
c) Were recoveries between 90-110%?	X		
14. Sample Quality Control			
a) Method Blanks			
1) Was a method blank present in every preparatory batch?	X		
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?		X	
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?		X	
b) Laboratory Control Sample (LCS)			
1) Was an LCS present in every preparatory batch?	X		

	Yes	No	N/A
2) Did the LCS contain all analytes to be reported?	X		
3) Were percent recoveries for the LCS within the limits (80-120)? (Enter out of control recoveries only)	X		

	Yes	No	N/A
c) Matrix Spike (MS)/Matrix Spike Duplicate (MSD)			
1) Was MS/MSD associated with project samples	X		
1) Were percent recoveries within limits (80-120)? (Enter out of control recoveries only)		X	
2) Were the relative percent differences (RPDs) within the acceptable limit (<20)? (Enter out of control recoveries only)	X		

Identification of Original Sample Used for QC

Sample ID	Analyte	Percent Reovery		mg/Kg		RPD
		MS	MSD	Original Sample	Duplicate Sample	
USTC501-CS-0001-072412(-01)	Antimony	27.8	21.9			Ok
	Barium	133.0	134.2			ok
	Potassium	121.9	Ok			ok
	Vanadium	140.2	Ok			ok
	Chromium	Ok	70.6			Ok

MS/MSD: The following were qualified J/UJ – MS/MSD: Antimony, Barium, Potassium, Vanadium, Chromium. Sample USTC501-CS-0001-072412(-01).
No qualification for RPD results since different spiking concentrations were used in the MS and MSD.

a) Was a 5-fold serial dilution conducted at least once preparatory batch?	X		
b) Was there an agreement between diluted and undiluted results (<10%)?	X		

16. Post Digestion Spike Addition

a) Was a post-digestion spike addition necessary?	X		
b) Were recoveries within acceptable limits (75-125%)?		X	
No qualification of data, spike recovery indicates matrix interference and sample concentrations were high due to a high level of sample amount relative to spike amount.			

17. Method of Standard Addition (MSA)

Was MSA performed on samples when matrix interference is confirmed (where dilution test fails or when concentrations in all samples are <50 times the LOD)?		X	

18. Analyte Detection

a) Were any results between the DL and the LOQ?	X		
b) Were any results between the DL and LOQ J flagged?	X		

19. Sample Analysis X

Were samples with analyte concentrations higher than the calibration range (E), diluted and re-analyzed? _____

20. Field Duplicates _____

a) Were field duplicates identified X

b) Did RPD between original and duplicated met criteria (soils/waters 50%) X

Sample/Duplicate Pair: USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)
Criteria met.

metals	Sample	RL	FD	RL	RPD
aluminum	USTC501-CS-0001-072412(-	19500	USTC501-CS-0002-072412-FD(-02)	16200	18.5%
antimony		ND		ND	-
arsenic		6.4		5	24.6%
barium		156		186	17.5%
beryllium		1.5		1.3	14.3%
cadmium		ND		ND	-
calcium		1E+05		122000	1.6%
chromium		25.6		20.2	23.6%
cobalt		8.4		8	4.9%
copper		16.2		13.8	16.0%
iron		22900		19300	17.1%
lead		12.9		11.8	8.9%
magnesium		20700		17300	17.9%
manganese		304		311	2.3%
mercury		ND		ND	-
nickel		23.8		20.5	14.9%
potassium		3570		3050	15.7%
selenium		ND		ND	-
silver		ND		ND	-
sodium		3460		3070	11.9%
thallium		ND		ND	-
vanadium		31.6		31.2	1.3%
zinc		64		55.5	14.2%

Comments (attach additional sheets if necessary):

Results J flagged by the lab were qualified as estimated J – DL-LOQ

MS/MSD: MS/MSD: The following were qualified J/UJ – MS/MSD: Antimony, Barium, Potassium, Vanadium, Chromium. Sample USTC501-CS-0001-072412(-01).

Validated/Reviewed by:

Signature: _____ Date: 9/05/12

Name: Beulah Brock

Overall Assessment of the Data Package:

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
SEMIVOLATILE ORGANIC ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: Accutest **Sampling Date:** 07/24/12 **COC No.** **F95217**

Report No.: **F95217** **Extraction Date:** 7/26/12 **Analysis Date:** 7/31/12; 8/02/12

Analytical Method: SW8270D **Matrix:** SOIL

Analyte: SVOAs **Sample IDs:**
USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02), USTC501-CS-0003-072412(-03), USTC501-CS-0004-072412(-04), USTC507-CS-0001-072412(-05), USTC507-CS-0002-072412(-06)

	Yes	No
1. Analytical Capability		
Was analytical capability demonstrated?	X	[ ]
2. Limit of Detection (LOD)		
Were LODs determined and verified?	[X]	[ ]
3. Limit of Quantitation (LOQ)		
Were LOQs determined and verified?	[X]	[ ]
4. Sample Holding Time		
a) Were samples extracted within holding times?	[X]	[ ]
b) Were samples analyzed within holding times?	[X]	[ ]
5. Instrument Tuning		
Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	[X]	[ ]
6. Ion Mass Assignments		
Was mass assignment based on m/z 198?	[X]	[ ]
7. Ion Abundance		
Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		

m/z	Acceptance Criteria		
51	30.0 - 60.0 %	[X]	[ ]
68	< 2% of mass 69	[X]	[ ]
70	< 2% of mass 69	[X]	[ ]
127	40-60%	[X]	[ ]
197	< 1%	[X]	[ ]
198	**100%, Base peak**	[X]	[ ]
199	5-9%	[X]	[ ]
275	5.0 - 9.0%	[X]	[ ]
365	> 1%	[X]	[ ]
441	present but < mass 443	[X]	[ ]
442	> 40%	[X]	[ ]
443	17-23% of mass 442	[X]	[ ]

	Yes	No
8. Initial Calibration		
a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model)	5+stds [X]	5+stds [ ]
b) Did the following System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)?		
RF		
N-nitroso-di-n-propylamine 0.05	[X]	[ ]
Hexachlorocyclopentadiene 0.05	[X]	[ ]
2,4-dinitrophenol 0.05	[X]	[ ]
4-nitrophenol 0.05	[X]	[ ]
c) Did the RSD meet the criteria ≤ 30% for the following individual Calibration Check Compound (CCC)?		
Base/Neutral Fraction		
Acenaphthene	[X]	[ ]
1,4-Dichlorobenzene	[X]	[ ]
Hexachlorobutadiene	[X]	[ ]
Diphenylamine	[X]	[ ]
Di-n-octylphthalate	[X]	[ ]
Fluoranthene	[X]	[ ]
Benzo(a)pyrene	[X]	[ ]
Acid Fraction		
4-Chloro-3-methylphenol	[X]	[ ]
2,4-Dichlorophenol	[X]	[ ]
2-Nitrophenol	[X]	[ ]
Phenol	[X]	[ ]
Pentachlorophenol	[X]	[ ]
2,4,6-Trichlorophenol	[X]	[ ]
d) In addition, has met one of the following options:		
1) RSD for each analyte $\leq$ 15%	[X]	[ ]
2) Linear least square regression r $\geq$ 0.995	[X]	[ ]
3) Non-linear regression-coefficient $r^2 \geq 0.99$	[X]	[ ]
9. Retention Time Window		
Were retention time window position established for each analyte and surrogate?	[X]	[ ]
10. Evaluation of relative retention time		
Was RRT of each target analyte within $\pm$ 0.06 RRT units	[X]	[ ]
11. Initial Calibration Verification (ICV)		
a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within $\pm$ 20% of the true value?	[X]	[ ]
12. Continuing Calibration Verification (CCV)		
a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did any of SPCC meet the minimum RF values?	[X]	[ ]

RF

		Yes	No
N-nitroso-di-n-propylamine	0.05	[X]	[ ]
Hexachlorocyclopentadiene	0.05	[X]	[ ]
2,4-dinitrophenol	0.05	[X]	[ ]
4-nitrophenol	0.05	[X]	[ ]

c) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?

Base/Neutral Fraction		
Acenaphthene	[X]	[ ]
1,4-Dichlorobenzene	[X]	[ ]
Hexachlorobutadiene	[X]	[ ]
Diphenylamine	[X]	[ ]
Di-n-octylphthalate	[X]	[ ]
Fluoranthene	[X]	[ ]
Benzo(a)pyrene	[X]	[ ]
Acid Fraction		
4-Chloro-3-methylphenol	[X]	[ ]
2,4-Dichlorophenol	[X]	[ ]
2-Nitrophenol	[X]	[ ]
Phenol	[X]	[ ]
Pentachlorophenol	[X]	[ ]
2,4,6-Trichlorophenol	[X]	[ ]

d) Primary Evaluation Was Drift or D ≤ 20% calculated from the initial calibration? [X] [ ]

13. Internal Standard Verification

a) Were retention times ± 30 seconds from the retention time of the mid- point standard in the ICAL? [X] [ ]

b) Were EICP areas within -50% to + 100% of the ICAL mid-point standard? [X] [ ]

14. Sample Quality Control

a) Method Blanks

1) Was a method blank present for each preparatory batch? [X] [ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater? [ ] [X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)? [ ] [X]

b) Common Contaminants

Were any analytes present >RL? [ ] [X]

	Yes	No
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD

d) MS/MSD

1) Were the percent recoveries within limits? [ ] [X]
(Enter out of control recoveries only)

2) Were the RPD within limits? [ ] [X]

Identification of Original Sample Used for QC

Spiked compound	MS %R	MSD%R	%RPD
Batch QC sample F95208-4, not related to this SDG.			

e) System Monitoring Compounds (Surrogates)
Are surrogate recoveries within QC limits? [X] [ ]
(Enter out of control recoveries only)

	%R					
	S1	**S2**	**S3**	**S4**	**S5**	**S6**
Sample ID	(40-125)	(50-110)	(20-110)	(40-110)	50-135)	(10-115)

NOTE: S1=2,4,6-Tribromophenol, S2=2-Fluorobiphenyl, S3=2-Fluorophenol, S4=Nitrobenzene-d5, S5=p-Terphenyl-d14 ~~S6: Phenol-d5~~

Was there a sample/duplicate pair: Yes
Was the RPD criteria met Yes

Sample/Duplicate Pair: USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)

15. Analyte Detection
a) Were results reported between the DL and the LOQ? [X] [ ]
b) Were results reported between the DL and the LOQ J flagged? [X] [ ]

Comments (attach additional sheets if necessary)

Data accepted as reported by the lab.

Validated/Reviewed by:

Signature: Date: 9/05/12

Name: Beulah Brock

Overall Assessment of the Data Package:

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
TPH_GRO / TPH(C10-C28) / TPH(28-40) ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: ACCUTEST **Sampling Date:** 7/24/12 **COC No.** F95217

Report No.: F95217 **Extraction Date:** 7/26/12 **Analysis Date:** 8/03,04/12

Analytical Method: 8015C **Matrix:** SOIL

Analyte: TPH(C10-C28) / TPH(28-40)

Sample IDs:
USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02), USTC501-CS-0003-072412(-03), USTC501-CS-0004-072412(-04), USTC507-CS-0001-072412(-05), USTC507-CS-0002-072412(-06)

	Yes	No
1. Initial Calibration		
a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model)	5+-stds [X]	5+stds [ ]
a) Did the RSD meet the criteria ≤ 15%.	X	
2. Initial Calibration Verification (ICV)		
a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within ± 20% of the true value?		
3. Continuing Calibration Verification (CCV)		
a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?	[X]	[ ]
4. Sample Quality Control		
a) Method Blanks		
1) Was a method blank present for each preparatory batch?	[X]	[ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?	[ ]	[X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?	[ ]	[X]
b) Common Contaminants		
Were any analytes present >RL?	[ ]	[X]
	Yes	No
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD

d) MS/MSD

1) Is batch MS/MSD associated with SDG [X] [ ]
2) Were the percent recoveries within limits? [X] [ ]
(Enter out of control recoveries only)
3) Were the RPD within limits? [X] [ ]

Identification of Original Sample Used for QC

Sample	Spiked compound	MS %R	MSD%R	%RPD
MS/MSD Sample: Batch QC F95178-3, not related to this SDG				

e) System Monitoring Compounds (Surrogates)
Are surrogate recoveries within QC limits? [X] [ ]
(Enter out of control recoveries only)

Sample	Spiked compound	%R		

5. Analyte Detection
   a) Were results reported between the DL and the LOQ? [X] [ ]
   b) Were results reported between the DL and the LOQ J flagged? [X] [ ]
6. Field duplicates
   a) Are field duplicated identified [X] [ ]
   b) Are field dups criteria met [X] [ ]
   c) If not identify below

Sample/Duplicate Pairs: USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)
All analytes are non-detect in both the sample/duplicate pair.

Comments (attach additional sheets if necessary)
Data accepted as reported from the lab.

Validated/Reviewed by:
Name: Beulah Brock Date: 9/05/12

Signature:

Overall Assessment of the Data Package:
Data acceptable as reported by laboratory

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
TPH_GRO / TPH(C10-C280 / TPH(28-40) ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: ACCUTEST **Sampling Date:** 7/24/12 **COC No.** F95217

Report No.: F95217 **Extraction Date:** N/A **Analysis Date:** 7/26/12

Analytical Method: 8015C **Matrix:** SOIL **Analyte:** TPH-GRO

Sample IDs:
USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02), USTC501-CS-0003-072412(-03), USTC501-CS-0004-072412(-04), USTC507-CS-0001-072412(-05), USTC507-CS-0002-072412(-06)

	Yes	No
1. Initial Calibration		
a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model)	5-stds [X]	5+stds [ ]
a) Did the RSD meet the criteria ≤ 15%.	X	
2. Initial Calibration Verification (ICV)		
a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within ± 20% of the true value?		
3. Continuing Calibration Verification (CCV)		
a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?	[X]	[ ]
4. Sample Quality Control		
a) Method Blanks		
1) Was a method blank present for each preparatory batch?	[X]	[ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?	[ ]	[X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?	[ ]	[X]
b) Common Contaminants		
Were any analytes present >RL?	[ ]	[X]
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD
	.		

d) MS/MSD

1) Is batch MS/MSD associated with SDG [ ] [X]
2) Were the percent recoveries within limits? [ ] [X]
(Enter out of control recoveries only)
3) Were the RPD within limits? [X] [ ]

Identification of Original Sample Used for QC

Sample	Spiked compound	MS %R	MSD%R	%RPD
	.			
MS/MSD Sample: Batch QC sample F95178-2; not related to SDG.				

e) System Monitoring Compounds (Surrogates)
Are surrogate recoveries within QC limits? [X] [ ]
(Enter out of control recoveries only)

5. Analyte Detection

a) Were results reported between the DL and the LOQ? [X] [ ]
b) Were results reported between the DL and the LOQ J flagged? [X] [ ]

a) Were field duplicates identified [X] [ ]

b) Did RPD between original and duplicated met criteria (soils/waters 50%) [X] [ ]

Sample/Duplicate Pair: USTC501-CS-0001-072412(-01), USTC501-CS-0002-072412-FD(-02)
All analytes are non-detect in both sample/duplicate pair.

Comments (attach additional sheets if necessary)
Data accepted as reported from the lab.

Validated/Reviewed by:
Name: Beulah Brock Date: 9/05/12

Signature:

Overall Assessment of the Data Package:
Data acceptable as reported by laboratory

Southeast ACCUTEST LABORATORIES

08/07/12

Technical Report for

SHAW E & I

Holloman AFB; NM

144106-JM20000

Accutest Job Number: F95217

Sampling Date: 07/24/12

Report to:

Shaw Environmental & Infrastructure, In.
5050 Section Ave
Cincinnati, OH 45212
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Christopher.long@shawgrp.com
ATTN: Maqsud Rahman

Total number of pages in report: **764**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

SHAW E & I

Job No: F95217

Holloman AFB; NM
Project No: 144106-JM20000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F95217-1	07/24/12	09:43	CL	07/25/12	SO	Soil	USTC501-CS-0001-072412
F95217-2	07/24/12	09:43	CL	07/25/12	SO	Soil	USTC501-CS-0002-072412-FD
F95217-3	07/24/12	11:14	CL	07/25/12	SO	Soil	USTC501-CS-0003-072412
F95217-4	07/24/12	11:40	CL	07/25/12	SO	Soil	USTC501-CS-0004-072412
F95217-5	07/24/12	14:45	CL	07/25/12	SO	Soil	USTC507-CS-0001-072412
F95217-6	07/24/12	14:50	CL	07/25/12	SO	Soil	USTC507-CS-0002-072412

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SHAW E & I **Job:** F95217

Site: Holloman AFB; NM **Report Date:** 8/7/2012 12:00:57 PM

6 Sample(s) were collected on 07/24/2012 and were received at Accutest SE on 07/25/2012 properly preserved, at 2.2 Deg. C and intact. These Samples received an Accutest job number of F95217. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VG3005

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95217-1MS, F95217-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, Methyl ethyl ketone are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,2,4-Trichlorobenzene, 2-Hexanone, 4-Methyl-2-pentanone, Bromoform, Chlorobenzene, cis-1,3-Dichloropropene, m-Dichlorobenzene, Methyl ethyl ketone, Methylcyclohexane, o-Dichlorobenzene, p-Dichlorobenzene, Styrene, Toluene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 4-Methyl-2-pentanone are outside control limits for sample F95217-1MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP42808

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95208-4MS, F95208-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachloroethane, Isophorone are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 2,4-Dinitrophenol are outside control limits for sample OP42808-MSD. Probable cause due to sample non-homogeneity.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3028

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95178-2MS, F95178-2MSD were used as the QC samples indicated.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP42817

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95178-3MS, F95178-3MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23311

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95217-1DUP, F95217-1MS, F95217-1MSD, F95217-1SDL, F95217-1PS were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Barium, Potassium, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Barium, Chromium, Antimony are outside control limits. Probable cause is due to matrix interference and/or sample non-homogeneity.

Matrix Spike Recovery(s) for Aluminum, Calcium, Iron, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix Spike Duplicate Recovery(s) for Aluminum, Calcium, Iron, Magnesium, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Chromium, Barium are outside control limits for sample MP23311-D1. High RPD due to possible sample non-homogeneity.

RPD(s) for MSD for Antimony, Vanadium are outside control limits for sample MP23311-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Arsenic, Vanadium are outside control limits for sample MP23311-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23311-D1 for Barium: RPD acceptable due to low duplicate and sample concentrations.

MP23311-SD1 for Vanadium: Serial dilution indicates possible matrix interference.

MP23311-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Beryllium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Cobalt: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Nickel: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23311

MP23311-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F95217-1 for Antimony: Sample dilution required due to sample matrix.
F95217-1 for Magnesium: Sample dilution required due to sample matrix.
F95217-1 for Lead: Sample dilution required due to sample matrix.
F95217-1 for Copper: Sample dilution required due to sample matrix.
F95217-1 for Chromium: Sample dilution required due to sample matrix.
F95217-1 for Calcium: Sample dilution required due to sample matrix.
F95217-1 for Cadmium: Sample dilution required due to sample matrix.
F95217-1 for Beryllium: Sample dilution required due to sample matrix.
F95217-1 for Arsenic: Sample dilution required due to sample matrix.
F95217-1 for Manganese: Sample dilution required due to sample matrix.
F95217-1 for Aluminum: Sample dilution required due to sample matrix.
F95217-1 for Iron: Sample dilution required due to sample matrix.
F95217-1 for Barium: Sample dilution required due to sample matrix.
F95217-3 for Iron: Sample dilution required due to sample matrix.
F95217-2 for Thallium: Sample dilution required due to sample matrix.
F95217-1 for Cobalt: Sample dilution required due to sample matrix.
F95217-3 for Aluminum: Sample dilution required due to sample matrix.
F95217-3 for Antimony: Sample dilution required due to sample matrix.
F95217-3 for Arsenic: Sample dilution required due to sample matrix.
F95217-3 for Barium: Sample dilution required due to sample matrix.
F95217-3 for Beryllium: Sample dilution required due to sample matrix.
F95217-3 for Cadmium: Sample dilution required due to sample matrix.
F95217-3 for Calcium: Sample dilution required due to sample matrix.
F95217-3 for Chromium: Sample dilution required due to sample matrix.
F95217-1 for Nickel: Sample dilution required due to sample matrix.
F95217-3 for Copper: Sample dilution required due to sample matrix.
F95217-2 for Sodium: Sample dilution required due to sample matrix.
F95217-3 for Lead: Sample dilution required due to sample matrix.
F95217-3 for Magnesium: Sample dilution required due to sample matrix.
F95217-3 for Manganese: Sample dilution required due to sample matrix.
F95217-3 for Nickel: Sample dilution required due to sample matrix.
F95217-3 for Potassium: Sample dilution required due to sample matrix.
F95217-3 for Selenium: Sample dilution required due to sample matrix.
F95217-3 for Silver: Sample dilution required due to sample matrix.
F95217-3 for Sodium: Sample dilution required due to sample matrix.
F95217-3 for Thallium: Sample dilution required due to sample matrix.
F95217-3 for Zinc: Sample dilution required due to sample matrix.
F95217-3 for Cobalt: Sample dilution required due to sample matrix.
F95217-2 for Beryllium: Sample dilution required due to sample matrix.
F95217-1 for Potassium: Sample dilution required due to sample matrix.
F95217-1 for Selenium: Sample dilution required due to sample matrix.
F95217-1 for Silver: Sample dilution required due to sample matrix.
F95217-1 for Sodium: Sample dilution required due to sample matrix.
F95217-1 for Thallium: Sample dilution required due to sample matrix.
F95217-1 for Zinc: Sample dilution required due to sample matrix.
F95217-2 for Aluminum: Sample dilution required due to sample matrix.
F95217-2 for Antimony: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23311

F95217-2 for Arsenic: Sample dilution required due to sample matrix.

F95217-2 for Zinc: Sample dilution required due to sample matrix.

F95217-2 for Barium: Sample dilution required due to sample matrix.

F95217-2 for Cadmium: Sample dilution required due to sample matrix.

F95217-2 for Calcium: Sample dilution required due to sample matrix.

F95217-2 for Manganese: Sample dilution required due to sample matrix.

F95217-2 for Silver: Sample dilution required due to sample matrix.

F95217-2 for Selenium: Sample dilution required due to sample matrix.

F95217-2 for Nickel: Sample dilution required due to sample matrix.

F95217-2 for Chromium: Sample dilution required due to sample matrix.

F95217-2 for Magnesium: Sample dilution required due to sample matrix.

F95217-2 for Lead: Sample dilution required due to sample matrix.

F95217-2 for Iron: Sample dilution required due to sample matrix.

F95217-2 for Copper: Sample dilution required due to sample matrix.

F95217-2 for Cobalt: Sample dilution required due to sample matrix.

F95217-2 for Potassium: Sample dilution required due to sample matrix.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23332

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95217-1MS, F95217-1MSD, F95217-1SDL, F95217-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23332-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23332-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN50949

Sample(s) F95217-3DUP, F95217-4DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN50960

Sample(s) F95235-4DUP was used as the QC sample for Solids, Percent.

RPD(s) for Duplicate for Solids, Percent are outside control limits for sample GN50960-D1. Probable cause due to sample non-homogeneity.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: August 7, 2012

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
F95178-2MS	GCVOA	QR069956.D	4-Bromofluorobenzene
F95178-2MSD	GCVOA	QR069957.D	4-Bromofluorobenzene
GQR3009-IC3009	GCVOA	QR069319.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069320.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069321.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069323.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069324.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-ICC3009	GCVOA	QR069322.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-ICV3009	GCVOA	QR069325.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069360.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069370.D	aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069380.D	aaa-Trifluorotoluene
GQR3010-ECC3009	GCVOA	QR069390.D	aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069394.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069405.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069416.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-ECC3009	GCVOA	QR069426.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3012-CC3009	GCVOA	QR069436.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3012-CC3009	GCVOA	QR069446.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069487.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069497.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069509.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-ECC3009	GCVOA	QR069520.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069523.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069533.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069545.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-ECC3009	GCVOA	QR069554.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3016-CC3009	GCVOA	QR069557.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3016-CC3009	GCVOA	QR069568.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069593.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069604.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069614.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-ECC3009	GCVOA	QR069623.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069633.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069643.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069654.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-ECC3009	GCVOA	QR069664.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069667.D	aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069677.D	aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069688.D	aaa-Trifluorotoluene
GQR3019-ECC3009	GCVOA	QR069698.D	aaa-Trifluorotoluene
GQR3020-CC3009	GCVOA	QR069702.D	aaa-Trifluorotoluene
GQR3020-CC3009	GCVOA	QR069710.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069929.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069940.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069951.D	aaa-Trifluorotoluene
GQR3028-ECC3009	GCVOA	QR069958.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069977.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069984.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069995.D	aaa-Trifluorotoluene
GYY1123-IC1123	GCSEMI	YY30342.D	o-Terphenyl
GYY1123-IC1123	GCSEMI	YY30343.D	o-Terphenyl
GYY1123-IC1123	GCSEMI	YY30344.D	o-Terphenyl
GYY1123-IC1123	GCSEMI	YY30346.D	o-Terphenyl
GYY1123-IC1123	GCSEMI	YY30347.D	o-Terphenyl
GYY1123-ICC1123	GCSEMI	YY30345.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30920.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30921.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30922.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30924.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30925.D	o-Terphenyl
GYY1143-ICC1143	GCSEMI	YY30923.D	o-Terphenyl
OP42808-BS	MSSEMI	T003200.D	1,4-Dioxane, Caprolactam
OP42808-MS	MSSEMI	T003205.D	1,4-Dioxane, Caprolactam, Pyridine
OP42808-MSD	MSSEMI	T003206.D	1,4-Dioxane, Caprolactam, Pyridine

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
SL2973-IC2973	MSSEMI	L058207.D	Benzo(k)fluoranthene
SL2973-IC2973	MSSEMI	L058208.D	Benzo(k)fluoranthene, Caprolactam
SL2973-IC2973	MSSEMI	L058209.D	1,4-Dioxane, Benzo(k)fluoranthene, Caprolactam
SL2973-ICC2973	MSSEMI	L058206.D	Benzo(k)fluoranthene
SL2973-ICV2973	MSSEMI	L058210.D	Caprolactam
SL2988-CC2973	MSSEMI	L058563.D	Caprolactam
ST170-IC170	MSSEMI	T003191.D	Benzo(b)fluoranthene, Benzoic Acid
ST170-IC170	MSSEMI	T003193.D	Benzoic Acid
ST170-IC170	MSSEMI	T003194.D	Caprolactam
ST170-IC170	MSSEMI	T003195.D	Caprolactam
ST170-IC170	MSSEMI	T003197.D	Benzoic Acid, Caprolactam
ST170-ICC170	MSSEMI	T003196.D	Caprolactam
ST170-ICV170	MSSEMI	T003198.D	Caprolactam
VG3005-BS	MSVOA	G0081249.D	Vinyl Acetate
VG3005-IC3005	MSVOA	G0081244.D	Ethyl alcohol
VG3005-ICV3005	MSVOA	G0081248.D	Ethyl alcohol

81 Manual Integrations were found for F95217

Summary of Hits

Job Number: F95217
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/24/12

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95217-1	**USTC501-CS-0001-072412**					
Aluminum [a]		19500	110	13	mg/kg	SW846 6010C
Arsenic [a]		6.4	5.6	1.1	mg/kg	SW846 6010C
Barium [a]		156	110	5.6	mg/kg	SW846 6010C
Beryllium [a]		1.5 J	2.8	0.56	mg/kg	SW846 6010C
Calcium [a]		124000	2800	56	mg/kg	SW846 6010C
Chromium [a]		25.6	5.6	0.56	mg/kg	SW846 6010C
Cobalt [a]		8.4 J	28	0.56	mg/kg	SW846 6010C
Copper [a]		16.2	14	1.1	mg/kg	SW846 6010C
Iron [a]		22900	170	18	mg/kg	SW846 6010C
Lead [a]		12.9	11	0.56	mg/kg	SW846 6010C
Magnesium [a]		20700	2800	56	mg/kg	SW846 6010C
Manganese [a]		304	8.4	0.56	mg/kg	SW846 6010C
Nickel [a]		23.8	22	0.56	mg/kg	SW846 6010C
Potassium [a]		3570 J	5600	280	mg/kg	SW846 6010C
Sodium [a]		3460 J	5600	610	mg/kg	SW846 6010C
Vanadium		31.6	28	0.56	mg/kg	SW846 6010C
Zinc [a]		64.0	11	2.8	mg/kg	SW846 6010C
F95217-2	**USTC501-CS-0002-072412-FD**					
bis(2-Ethylhexyl)phthalate		107 J	400	80	ug/kg	SW846 8270D
Aluminum [a]		16200	100	12	mg/kg	SW846 6010C
Arsenic [a]		5.0 J	5.2	1.0	mg/kg	SW846 6010C
Barium [a]		186	100	5.2	mg/kg	SW846 6010C
Beryllium [a]		1.3 J	2.6	0.52	mg/kg	SW846 6010C
Calcium [a]		122000	2600	52	mg/kg	SW846 6010C
Chromium [a]		20.2	5.2	0.52	mg/kg	SW846 6010C
Cobalt [a]		8.0 J	26	0.52	mg/kg	SW846 6010C
Copper [a]		13.8	13	1.0	mg/kg	SW846 6010C
Iron [a]		19300	160	17	mg/kg	SW846 6010C
Lead [a]		11.8	10	0.52	mg/kg	SW846 6010C
Magnesium [a]		17300	2600	52	mg/kg	SW846 6010C
Manganese [a]		311	7.8	0.52	mg/kg	SW846 6010C
Nickel [a]		20.5 J	21	0.52	mg/kg	SW846 6010C
Potassium [a]		3050 J	5200	260	mg/kg	SW846 6010C
Sodium [a]		3070 J	5200	570	mg/kg	SW846 6010C
Vanadium		31.2	26	0.52	mg/kg	SW846 6010C
Zinc [a]		55.5	10	2.6	mg/kg	SW846 6010C
F95217-3	**USTC501-CS-0003-072412**					
Aluminum [a]		12500	87	10	mg/kg	SW846 6010C
Arsenic [a]		3.9 J	4.3	0.87	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95217
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/24/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium [a]		186	87	4.3	mg/kg	SW846 6010C
Beryllium [a]		0.98 J	2.2	0.43	mg/kg	SW846 6010C
Calcium [a]		109000	2200	43	mg/kg	SW846 6010C
Chromium [a]		16.3	4.3	0.43	mg/kg	SW846 6010C
Cobalt [a]		6.1 J	22	0.43	mg/kg	SW846 6010C
Copper [a]		10.4 J	11	0.87	mg/kg	SW846 6010C
Iron [a]		15600	130	14	mg/kg	SW846 6010C
Lead [a]		9.9	8.7	0.43	mg/kg	SW846 6010C
Magnesium [a]		13300	2200	43	mg/kg	SW846 6010C
Manganese [a]		279	6.5	0.43	mg/kg	SW846 6010C
Nickel [a]		15.6 J	17	0.43	mg/kg	SW846 6010C
Potassium [a]		2420 J	4300	220	mg/kg	SW846 6010C
Sodium [a]		2420 J	4300	480	mg/kg	SW846 6010C
Vanadium		31.0	22	0.43	mg/kg	SW846 6010C
Zinc [a]		43.2	8.7	2.2	mg/kg	SW846 6010C
F95217-4	**USTC501-CS-0004-072412**					
Aluminum		8320	91	11	mg/kg	SW846 6010C
Arsenic		1.8 J	4.5	0.91	mg/kg	SW846 6010C
Barium		59.3 J	91	4.5	mg/kg	SW846 6010C
Beryllium		0.45 J	2.3	0.45	mg/kg	SW846 6010C
Calcium		182000	2300	45	mg/kg	SW846 6010C
Chromium		10.3	4.5	0.45	mg/kg	SW846 6010C
Cobalt		3.1 J	23	0.45	mg/kg	SW846 6010C
Copper		5.4 J	11	0.91	mg/kg	SW846 6010C
Iron		8460	140	15	mg/kg	SW846 6010C
Lead		6.4 J	9.1	0.45	mg/kg	SW846 6010C
Magnesium		7870	2300	45	mg/kg	SW846 6010C
Manganese		175	6.8	0.45	mg/kg	SW846 6010C
Nickel		8.0 J	18	0.45	mg/kg	SW846 6010C
Potassium		1830 J	4500	230	mg/kg	SW846 6010C
Sodium		722 J	4500	500	mg/kg	SW846 6010C
Vanadium		15.7 J	23	0.45	mg/kg	SW846 6010C
Zinc		25.1	9.1	2.3	mg/kg	SW846 6010C
F95217-5	**USTC507-CS-0001-072412**					
Aluminum		2330	83	10	mg/kg	SW846 6010C
Barium		19.8 J	83	4.1	mg/kg	SW846 6010C
Calcium		202000	2100	41	mg/kg	SW846 6010C
Chromium		3.8 J	4.1	0.41	mg/kg	SW846 6010C
Cobalt		0.70 J	21	0.41	mg/kg	SW846 6010C
Copper		1.2 J	10	0.83	mg/kg	SW846 6010C
Iron		2530	120	14	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95217
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/24/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		1.2 J	8.3	0.41	mg/kg	SW846 6010C
Magnesium		1100 J	2100	41	mg/kg	SW846 6010C
Manganese		34.2	6.2	0.41	mg/kg	SW846 6010C
Nickel		1.8 J	17	0.41	mg/kg	SW846 6010C
Potassium		580 J	4100	210	mg/kg	SW846 6010C
Vanadium		4.8 J	21	0.41	mg/kg	SW846 6010C
Zinc		5.6 J	8.3	2.1	mg/kg	SW846 6010C
F95217-6	**USTC507-CS-0002-072412**					
Aluminum		15800	110	14	mg/kg	SW846 6010C
Arsenic		2.7 J	5.7	1.1	mg/kg	SW846 6010C
Barium		88.3 J	110	5.7	mg/kg	SW846 6010C
Beryllium		0.81 J	2.9	0.57	mg/kg	SW846 6010C
Calcium		148000	2900	57	mg/kg	SW846 6010C
Chromium		18.5	5.7	0.57	mg/kg	SW846 6010C
Cobalt		4.5 J	29	0.57	mg/kg	SW846 6010C
Copper		8.1 J	14	1.1	mg/kg	SW846 6010C
Iron		13900	170	19	mg/kg	SW846 6010C
Lead		8.5 J	11	0.57	mg/kg	SW846 6010C
Magnesium		6750	2900	57	mg/kg	SW846 6010C
Manganese		234	8.6	0.57	mg/kg	SW846 6010C
Nickel		13.0 J	23	0.57	mg/kg	SW846 6010C
Potassium		2680 J	5700	290	mg/kg	SW846 6010C
Vanadium		24.2 J	29	0.57	mg/kg	SW846 6010C
Zinc		42.8	11	2.9	mg/kg	SW846 6010C

(a) Sample dilution required due to sample matrix.

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081251.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	8.14 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15 U	38	15	ug/kg	
71-43-2	Benzene	1.1 U	3.8	1.1	ug/kg	
75-27-4	Bromodichloromethane	0.84 U	3.8	0.84	ug/kg	
75-25-2	Bromoform	1.1 U	3.8	1.1	ug/kg	
108-90-7	Chlorobenzene	0.76 U	3.8	0.76	ug/kg	
75-00-3	Chloroethane	1.5 U	3.8	1.5	ug/kg	
67-66-3	Chloroform	0.91 U	3.8	0.91	ug/kg	
75-15-0	Carbon disulfide	1.5 U	3.8	1.5	ug/kg	
56-23-5	Carbon tetrachloride	1.4 U	3.8	1.4	ug/kg	
110-82-7	Cyclohexane	1.1 U	3.8	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	0.84 U	3.8	0.84	ug/kg	
75-35-4	1,1-Dichloroethylene	1.1 U	3.8	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	1.7 U	3.8	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	0.76 U	3.8	0.76	ug/kg	
107-06-2	1,2-Dichloroethane	0.76 U	3.8	0.76	ug/kg	
78-87-5	1,2-Dichloropropane	0.91 U	3.8	0.91	ug/kg	
124-48-1	Dibromochloromethane	0.76 U	3.8	0.76	ug/kg	
75-71-8	Dichlorodifluoromethane	1.1 U	3.8	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.1 U	3.8	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.76 U	3.8	0.76	ug/kg	
541-73-1	m-Dichlorobenzene	0.91 U	3.8	0.91	ug/kg	
95-50-1	o-Dichlorobenzene	0.84 U	3.8	0.84	ug/kg	
106-46-7	p-Dichlorobenzene	0.84 U	3.8	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.1 U	3.8	1.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.84 U	3.8	0.84	ug/kg	
100-41-4	Ethylbenzene	0.76 U	3.8	0.76	ug/kg	
76-13-1	Freon 113	1.3 U	3.8	1.3	ug/kg	
591-78-6	2-Hexanone	4.1 U	19	4.1	ug/kg	
98-82-8	Isopropylbenzene	0.84 U	3.8	0.84	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.2 U	19	4.2	ug/kg	
79-20-9	Methyl acetate	9.5 U	19	9.5	ug/kg	
74-83-9	Methyl bromide	1.5 U	3.8	1.5	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.5 U	3.8	1.5	ug/kg	
108-87-2	Methylcyclohexane	0.99 U	3.8	0.99	ug/kg	
75-09-2	Methylene chloride	3.5 U	7.6	3.5	ug/kg	
78-93-3	Methyl ethyl ketone	4.6 U	19	4.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.8	1.5	ug/kg	
100-42-5	Styrene	2.0 U	3.8	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.84 U	3.8	0.84	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.91 U	3.8	0.91	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.84 U	3.8	0.84	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	0.91 U	3.8	0.91	ug/kg	
127-18-4	Tetrachloroethylene	0.76 U	3.8	0.76	ug/kg	
108-88-3	Toluene	0.91 U	3.8	0.91	ug/kg	
79-01-6	Trichloroethylene	0.91 U	3.8	0.91	ug/kg	
75-69-4	Trichlorofluoromethane	1.5 U	3.8	1.5	ug/kg	
75-01-4	Vinyl chloride	1.1 U	3.8	1.1	ug/kg	
1330-20-7	Xylene (total)	2.4 U	11	2.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	107%		59-148%
17060-07-0	1,2-Dichloroethane-D4	101%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003207.D	1	07/31/12	FS	07/26/12	OP42808	ST170
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	26 U	200	26	ug/kg	
51-28-5	2,4-Dinitrophenol	410 U	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	82 U	410	82	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	250 U	1000	250	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	41 U	200	41	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	65 U	200	65	ug/kg	
91-58-7	2-Chloronaphthalene	41 U	200	41	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	41 U	410	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	82 U	410	82	ug/kg	
117-84-0	Di-n-octyl phthalate	41 U	200	41	ug/kg	
84-66-2	Diethyl phthalate	82 U	410	82	ug/kg	
131-11-3	Dimethyl phthalate	41 U	200	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	82 U	410	82	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	41 U	200	41	ug/kg	
77-47-4	Hexachlorocyclopentadiene	90 U	200	90	ug/kg	
67-72-1	Hexachloroethane	41 U	200	41	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	41 U	200	41	ug/kg	
99-09-2	3-Nitroaniline	41 U	200	41	ug/kg	
100-01-6	4-Nitroaniline	41 U	200	41	ug/kg	
91-20-3	Naphthalene	33 U	200	33	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	73%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%
4165-60-0	Nitrobenzene-d5	73%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069948.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.22 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.5 U	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0001-072412		
Lab Sample ID:	F95217-1	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	80.8
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30938.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.2 U	10	4.2	mg/kg	
	TPH (> C28-C40)	4.2 U	10	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC501-CS-0001-072412
Lab Sample ID: F95217-1
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/24/12
Date Received: 07/25/12
Percent Solids: 80.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	19500	110	13	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [a]	1.1 U	11	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	6.4	5.6	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	156	110	5.6	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	1.5 J	2.8	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	0.56 U	2.2	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium [a]	124000	2800	56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	25.6	5.6	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	8.4 J	28	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	16.2	14	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	22900	170	18	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	12.9	11	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	20700	2800	56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	304	8.4	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.0095 U	0.095	0.0095	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	23.8	22	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	3570 J	5600	280	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	2.2 U	11	2.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.56 U	5.6	0.56	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	3460 J	5600	610	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	1.4 U	5.6	1.4	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium	31.6	28	0.56	mg/kg	10	07/26/12	07/30/12	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc [a]	64.0	11	2.8	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Instrument QC Batch: MA9999
(4) Prep QC Batch: MP23311
(5) Prep QC Batch: MP23332

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081252.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	6.91 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17 U	44	17	ug/kg	
71-43-2	Benzene	1.3 U	4.4	1.3	ug/kg	
75-27-4	Bromodichloromethane	0.96 U	4.4	0.96	ug/kg	
75-25-2	Bromoform	1.3 U	4.4	1.3	ug/kg	
108-90-7	Chlorobenzene	0.87 U	4.4	0.87	ug/kg	
75-00-3	Chloroethane	1.7 U	4.4	1.7	ug/kg	
67-66-3	Chloroform	1.0 U	4.4	1.0	ug/kg	
75-15-0	Carbon disulfide	1.7 U	4.4	1.7	ug/kg	
56-23-5	Carbon tetrachloride	1.6 U	4.4	1.6	ug/kg	
110-82-7	Cyclohexane	1.2 U	4.4	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.96 U	4.4	0.96	ug/kg	
75-35-4	1,1-Dichloroethylene	1.2 U	4.4	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	4.4	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	0.87 U	4.4	0.87	ug/kg	
107-06-2	1,2-Dichloroethane	0.87 U	4.4	0.87	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	4.4	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.87 U	4.4	0.87	ug/kg	
75-71-8	Dichlorodifluoromethane	1.3 U	4.4	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.3 U	4.4	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.87 U	4.4	0.87	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	4.4	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	0.96 U	4.4	0.96	ug/kg	
106-46-7	p-Dichlorobenzene	0.96 U	4.4	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	4.4	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.96 U	4.4	0.96	ug/kg	
100-41-4	Ethylbenzene	0.87 U	4.4	0.87	ug/kg	
76-13-1	Freon 113	1.5 U	4.4	1.5	ug/kg	
591-78-6	2-Hexanone	4.7 U	22	4.7	ug/kg	
98-82-8	Isopropylbenzene	0.96 U	4.4	0.96	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.8 U	22	4.8	ug/kg	
79-20-9	Methyl acetate	11 U	22	11	ug/kg	
74-83-9	Methyl bromide	1.7 U	4.4	1.7	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.7 U	4.4	1.7	ug/kg	
108-87-2	Methylcyclohexane	1.1 U	4.4	1.1	ug/kg	
75-09-2	Methylene chloride	4.0 U	8.7	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	5.3 U	22	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.4	1.7	ug/kg	
100-42-5	Styrene	2.3 U	4.4	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.96 U	4.4	0.96	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	4.4	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.96 U	4.4	0.96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	4.4	1.0	ug/kg	
127-18-4	Tetrachloroethylene	0.87 U	4.4	0.87	ug/kg	
108-88-3	Toluene	1.0 U	4.4	1.0	ug/kg	
79-01-6	Trichloroethylene	1.0 U	4.4	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	1.7 U	4.4	1.7	ug/kg	
75-01-4	Vinyl chloride	1.3 U	4.4	1.3	ug/kg	
1330-20-7	Xylene (total)	2.8 U	13	2.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		80-121%
2037-26-5	Toluene-D8	93%		71-130%
460-00-4	4-Bromofluorobenzene	99%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003208.D	1	07/31/12	FS	07/26/12	OP42808	ST170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	80 U	400	80	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	1000	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	64 U	200	64	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	80 U	400	80	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	80 U	400	80	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	107	400	80	ug/kg	J
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	88 U	200	88	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		40-102%
4165-62-2	Phenol-d5	78%		41-100%
118-79-6	2,4,6-Tribromophenol	78%		42-108%
4165-60-0	Nitrobenzene-d5	78%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069949.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.66 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.8 U	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	83.0
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30939.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.0 U	10	4.0	mg/kg	
	TPH (> C28-C40)	4.0 U	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0002-072412-FD		
Lab Sample ID:	F95217-2	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
		Percent Solids:	83.0
Project:	Holloman AFB; NM		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	16200	100	12	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [a]	1.0 U	10	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	5.0 J	5.2	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	186	100	5.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	1.3 J	2.6	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	0.52 U	2.1	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium [a]	122000	2600	52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	20.2	5.2	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	8.0 J	26	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	13.8	13	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	19300	160	17	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	11.8	10	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	17300	2600	52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	311	7.8	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.0094 U	0.094	0.0094	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	20.5 J	21	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	3050 J	5200	260	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	2.1 U	10	2.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.52 U	5.2	0.52	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	3070 J	5200	570	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	1.4 U	5.2	1.4	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium	31.2	26	0.52	mg/kg	10	07/26/12	07/30/12	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc [a]	55.5	10	2.6	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Instrument QC Batch: MA9999
(4) Prep QC Batch: MP23311
(5) Prep QC Batch: MP23332

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081253.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	8.67 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14 U	35	14	ug/kg	
71-43-2	Benzene	1.0 U	3.5	1.0	ug/kg	
75-27-4	Bromodichloromethane	0.76 U	3.5	0.76	ug/kg	
75-25-2	Bromoform	1.0 U	3.5	1.0	ug/kg	
108-90-7	Chlorobenzene	0.69 U	3.5	0.69	ug/kg	
75-00-3	Chloroethane	1.4 U	3.5	1.4	ug/kg	
67-66-3	Chloroform	0.83 U	3.5	0.83	ug/kg	
75-15-0	Carbon disulfide	1.4 U	3.5	1.4	ug/kg	
56-23-5	Carbon tetrachloride	1.2 U	3.5	1.2	ug/kg	
110-82-7	Cyclohexane	0.97 U	3.5	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	0.76 U	3.5	0.76	ug/kg	
75-35-4	1,1-Dichloroethylene	0.97 U	3.5	0.97	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	1.6 U	3.5	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	0.69 U	3.5	0.69	ug/kg	
107-06-2	1,2-Dichloroethane	0.69 U	3.5	0.69	ug/kg	
78-87-5	1,2-Dichloropropane	0.83 U	3.5	0.83	ug/kg	
124-48-1	Dibromochloromethane	0.69 U	3.5	0.69	ug/kg	
75-71-8	Dichlorodifluoromethane	1.0 U	3.5	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.0 U	3.5	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.69 U	3.5	0.69	ug/kg	
541-73-1	m-Dichlorobenzene	0.83 U	3.5	0.83	ug/kg	
95-50-1	o-Dichlorobenzene	0.76 U	3.5	0.76	ug/kg	
106-46-7	p-Dichlorobenzene	0.76 U	3.5	0.76	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.0 U	3.5	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.76 U	3.5	0.76	ug/kg	
100-41-4	Ethylbenzene	0.69 U	3.5	0.69	ug/kg	
76-13-1	Freon 113	1.2 U	3.5	1.2	ug/kg	
591-78-6	2-Hexanone	3.7 U	17	3.7	ug/kg	
98-82-8	Isopropylbenzene	0.76 U	3.5	0.76	ug/kg	
108-10-1	4-Methyl-2-pentanone	3.8 U	17	3.8	ug/kg	
79-20-9	Methyl acetate	8.6 U	17	8.6	ug/kg	
74-83-9	Methyl bromide	1.4 U	3.5	1.4	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.4 U	3.5	1.4	ug/kg	
108-87-2	Methylcyclohexane	0.90 U	3.5	0.90	ug/kg	
75-09-2	Methylene chloride	3.2 U	6.9	3.2	ug/kg	
78-93-3	Methyl ethyl ketone	4.2 U	17	4.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.5	1.4	ug/kg	
100-42-5	Styrene	1.8 U	3.5	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.76 U	3.5	0.76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.83 U	3.5	0.83	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.76 U	3.5	0.76	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	0.83 U	3.5	0.83	ug/kg	
127-18-4	Tetrachloroethylene	0.69 U	3.5	0.69	ug/kg	
108-88-3	Toluene	0.83 U	3.5	0.83	ug/kg	
79-01-6	Trichloroethylene	0.83 U	3.5	0.83	ug/kg	
75-69-4	Trichlorofluoromethane	1.4 U	3.5	1.4	ug/kg	
75-01-4	Vinyl chloride	1.0 U	3.5	1.0	ug/kg	
1330-20-7	Xylene (total)	2.2 U	10	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		80-121%
2037-26-5	Toluene-D8	91%		71-130%
460-00-4	4-Bromofluorobenzene	97%		59-148%
17060-07-0	1,2-Dichloroethane-D4	103%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003209.D	1	07/31/12	FS	07/26/12	OP42808	ST170
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	990	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	80 U	400	80	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	990	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	990	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	990	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	64 U	200	64	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	23 U	200	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	80 U	400	80	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	80 U	400	80	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	80 U	400	80	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	88 U	200	88	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		40-102%
4165-62-2	Phenol-d5	74%		41-100%
118-79-6	2,4,6-Tribromophenol	74%		42-108%
4165-60-0	Nitrobenzene-d5	74%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069950.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.5 U	6.9	3.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0003-072412		
Lab Sample ID:	F95217-3	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	83.5
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30942.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.0 U	10	4.0	mg/kg	
	TPH (> C28-C40)	4.0 U	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC501-CS-0003-072412
Lab Sample ID: F95217-3
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/24/12
Date Received: 07/25/12
Percent Solids: 83.5

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	12500	87	10	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [a]	0.87 U	8.7	0.87	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	3.9 J	4.3	0.87	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	186	87	4.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.98 J	2.2	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [a]	0.43 U	1.7	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium [a]	109000	2200	43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [a]	16.3	4.3	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	6.1 J	22	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	10.4 J	11	0.87	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	15600	130	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [a]	9.9	8.7	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	13300	2200	43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	279	6.5	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.0097 U	0.097	0.0097	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	15.6 J	17	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	2420 J	4300	220	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [a]	1.7 U	8.7	1.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.43 U	4.3	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	2420 J	4300	480	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [a]	1.1 U	4.3	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium	31.0	22	0.43	mg/kg	10	07/26/12	07/30/12	LM	SW846 6010C [3]	SW846 3050B [4]
Zinc [a]	43.2	8.7	2.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Instrument QC Batch: MA9999
(4) Prep QC Batch: MP23311
(5) Prep QC Batch: MP23332

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081254.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	5.84 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19 U	47	19	ug/kg	
71-43-2	Benzene	1.4 U	4.7	1.4	ug/kg	
75-27-4	Bromodichloromethane	1.0 U	4.7	1.0	ug/kg	
75-25-2	Bromoform	1.4 U	4.7	1.4	ug/kg	
108-90-7	Chlorobenzene	0.95 U	4.7	0.95	ug/kg	
75-00-3	Chloroethane	1.9 U	4.7	1.9	ug/kg	
67-66-3	Chloroform	1.1 U	4.7	1.1	ug/kg	
75-15-0	Carbon disulfide	1.9 U	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	1.7 U	4.7	1.7	ug/kg	
110-82-7	Cyclohexane	1.3 U	4.7	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	1.0 U	4.7	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.3 U	4.7	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.2 U	4.7	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	0.95 U	4.7	0.95	ug/kg	
107-06-2	1,2-Dichloroethane	0.95 U	4.7	0.95	ug/kg	
78-87-5	1,2-Dichloropropane	1.1 U	4.7	1.1	ug/kg	
124-48-1	Dibromochloromethane	0.95 U	4.7	0.95	ug/kg	
75-71-8	Dichlorodifluoromethane	1.4 U	4.7	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	4.7	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.95 U	4.7	0.95	ug/kg	
541-73-1	m-Dichlorobenzene	1.1 U	4.7	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	1.0 U	4.7	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	1.0 U	4.7	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	4.7	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	4.7	1.0	ug/kg	
100-41-4	Ethylbenzene	0.95 U	4.7	0.95	ug/kg	
76-13-1	Freon 113	1.6 U	4.7	1.6	ug/kg	
591-78-6	2-Hexanone	5.1 U	24	5.1	ug/kg	
98-82-8	Isopropylbenzene	1.0 U	4.7	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.2 U	24	5.2	ug/kg	
79-20-9	Methyl acetate	12 U	24	12	ug/kg	
74-83-9	Methyl bromide	1.9 U	4.7	1.9	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.9 U	4.7	1.9	ug/kg	
108-87-2	Methylcyclohexane	1.2 U	4.7	1.2	ug/kg	
75-09-2	Methylene chloride	4.4 U	9.5	4.4	ug/kg	
78-93-3	Methyl ethyl ketone	5.8 U	24	5.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.9 U	4.7	1.9	ug/kg	
100-42-5	Styrene	2.5 U	4.7	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.0 U	4.7	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U	4.7	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.0 U	4.7	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.1 U	4.7	1.1	ug/kg	
127-18-4	Tetrachloroethylene	0.95 U	4.7	0.95	ug/kg	
108-88-3	Toluene	1.1 U	4.7	1.1	ug/kg	
79-01-6	Trichloroethylene	1.1 U	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	1.9 U	4.7	1.9	ug/kg	
75-01-4	Vinyl chloride	1.4 U	4.7	1.4	ug/kg	
1330-20-7	Xylene (total)	3.0 U	14	3.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-121%
2037-26-5	Toluene-D8	97%		71-130%
460-00-4	4-Bromofluorobenzene	105%		59-148%
17060-07-0	1,2-Dichloroethane-D4	107%		77-123%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003210.D	1	07/31/12	FS	07/26/12	OP42808	ST170
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	19 U	190	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	19 U	190	19	ug/kg	
120-83-2	2,4-Dichlorophenol	19 U	190	19	ug/kg	
105-67-9	2,4-Dimethylphenol	23 U	190	23	ug/kg	
51-28-5	2,4-Dinitrophenol	370 U	930	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	74 U	370	74	ug/kg	
95-48-7	2-Methylphenol	19 U	190	19	ug/kg	
	3&4-Methylphenol	27 U	190	27	ug/kg	
88-75-5	2-Nitrophenol	19 U	190	19	ug/kg	
100-02-7	4-Nitrophenol	150 U	930	150	ug/kg	
87-86-5	Pentachlorophenol	220 U	930	220	ug/kg	
108-95-2	Phenol	19 U	190	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	19 U	190	19	ug/kg	
88-06-2	2,4,6-Trichlorophenol	19 U	190	19	ug/kg	
83-32-9	Acenaphthene	19 U	190	19	ug/kg	
208-96-8	Acenaphthylene	19 U	190	19	ug/kg	
98-86-2	Acetophenone	19 U	190	19	ug/kg	
120-12-7	Anthracene	19 U	190	19	ug/kg	
1912-24-9	Atrazine	19 U	190	19	ug/kg	
100-52-7	Benzaldehyde	190 U	930	190	ug/kg	
56-55-3	Benzo(a)anthracene	19 U	190	19	ug/kg	
50-32-8	Benzo(a)pyrene	19 U	190	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	19 U	190	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	19 U	190	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	19 U	190	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	19 U	190	19	ug/kg	
85-68-7	Butyl benzyl phthalate	37 U	190	37	ug/kg	
92-52-4	1,1'-Biphenyl	19 U	190	19	ug/kg	
105-60-2	Caprolactam	60 U	190	60	ug/kg	
91-58-7	2-Chloronaphthalene	37 U	190	37	ug/kg	
106-47-8	4-Chloroaniline	19 U	190	19	ug/kg	
86-74-8	Carbazole	19 U	190	19	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	19 U	190	19	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	19 U	190	19	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	19 U	190	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	19 U	190	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	19 U	190	19	ug/kg	
121-14-2	2,4-Dinitrotoluene	19 U	190	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	22 U	190	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	37 U	370	37	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	19 U	190	19	ug/kg	
132-64-9	Dibenzofuran	19 U	190	19	ug/kg	
84-74-2	Di-n-butyl phthalate	74 U	370	74	ug/kg	
117-84-0	Di-n-octyl phthalate	37 U	190	37	ug/kg	
84-66-2	Diethyl phthalate	74 U	370	74	ug/kg	
131-11-3	Dimethyl phthalate	37 U	190	37	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	74 U	370	74	ug/kg	
206-44-0	Fluoranthene	19 U	190	19	ug/kg	
86-73-7	Fluorene	19 U	190	19	ug/kg	
118-74-1	Hexachlorobenzene	19 U	190	19	ug/kg	
87-68-3	Hexachlorobutadiene	37 U	190	37	ug/kg	
77-47-4	Hexachlorocyclopentadiene	82 U	190	82	ug/kg	
67-72-1	Hexachloroethane	37 U	190	37	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19 U	190	19	ug/kg	
78-59-1	Isophorone	19 U	190	19	ug/kg	
91-57-6	2-Methylnaphthalene	19 U	190	19	ug/kg	
88-74-4	2-Nitroaniline	37 U	190	37	ug/kg	
99-09-2	3-Nitroaniline	37 U	190	37	ug/kg	
100-01-6	4-Nitroaniline	37 U	190	37	ug/kg	
91-20-3	Naphthalene	30 U	190	30	ug/kg	
98-95-3	Nitrobenzene	19 U	190	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	19 U	190	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	19 U	190	19	ug/kg	
85-01-8	Phenanthrene	19 U	190	19	ug/kg	
129-00-0	Pyrene	19 U	190	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		40-102%
4165-62-2	Phenol-d5	75%		41-100%
118-79-6	2,4,6-Tribromophenol	74%		42-108%
4165-60-0	Nitrobenzene-d5	75%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069953.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.11 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.5 U	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0004-072412		
Lab Sample ID:	F95217-4	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	90.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30943.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3.7 U	9.2	3.7	mg/kg	
	TPH (> C28-C40)	3.7 U	9.2	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC501-CS-0004-072412
Lab Sample ID: F95217-4
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/24/12
Date Received: 07/25/12
Percent Solids: 90.2

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8320	91	11	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	0.91 U	9.1	0.91	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.8 J	4.5	0.91	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	59.3 J	91	4.5	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.45 J	2.3	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.45 U	1.8	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	182000	2300	45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	10.3	4.5	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	3.1 J	23	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	5.4 J	11	0.91	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	8460	140	15	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	6.4 J	9.1	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	7870	2300	45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	175	6.8	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0087 U	0.087	0.0087	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.0 J	18	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	1830 J	4500	230	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	1.8 U	9.1	1.8	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.45 U	4.5	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	722 J	4500	500	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.2 U	4.5	1.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	15.7 J	23	0.45	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	25.1	9.1	2.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081255.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	5.79 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20 U	50	20	ug/kg	
71-43-2	Benzene	1.5 U	5.0	1.5	ug/kg	
75-27-4	Bromodichloromethane	1.1 U	5.0	1.1	ug/kg	
75-25-2	Bromoform	1.5 U	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	1.0 U	5.0	1.0	ug/kg	
75-00-3	Chloroethane	2.0 U	5.0	2.0	ug/kg	
67-66-3	Chloroform	1.2 U	5.0	1.2	ug/kg	
75-15-0	Carbon disulfide	2.0 U	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	1.8 U	5.0	1.8	ug/kg	
110-82-7	Cyclohexane	1.4 U	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	1.1 U	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	5.0	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.3 U	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	1.0 U	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	1.0 U	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	1.2 U	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	1.5 U	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	1.2 U	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	1.1 U	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	1.1 U	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/kg	
76-13-1	Freon 113	1.7 U	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	5.4 U	25	5.4	ug/kg	
98-82-8	Isopropylbenzene	1.1 U	5.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.5 U	25	5.5	ug/kg	
79-20-9	Methyl acetate	12 U	25	12	ug/kg	
74-83-9	Methyl bromide	2.0 U	5.0	2.0	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	2.0 U	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	1.3 U	5.0	1.3	ug/kg	
75-09-2	Methylene chloride	4.6 U	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	6.1 U	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.0 U	5.0	2.0	ug/kg	
100-42-5	Styrene	2.6 U	5.0	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.1 U	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.1 U	5.0	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.2 U	5.0	1.2	ug/kg	
127-18-4	Tetrachloroethylene	1.0 U	5.0	1.0	ug/kg	
108-88-3	Toluene	1.2 U	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	1.2 U	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	2.0 U	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	1.5 U	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	3.2 U	15	3.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-121%
2037-26-5	Toluene-D8	96%		71-130%
460-00-4	4-Bromofluorobenzene	102%		59-148%
17060-07-0	1,2-Dichloroethane-D4	102%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003211.D	1	07/31/12	FS	07/26/12	OP42808	ST170
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	19 U	190	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	19 U	190	19	ug/kg	
120-83-2	2,4-Dichlorophenol	19 U	190	19	ug/kg	
105-67-9	2,4-Dimethylphenol	24 U	190	24	ug/kg	
51-28-5	2,4-Dinitrophenol	380 U	950	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	76 U	380	76	ug/kg	
95-48-7	2-Methylphenol	19 U	190	19	ug/kg	
	3&4-Methylphenol	27 U	190	27	ug/kg	
88-75-5	2-Nitrophenol	19 U	190	19	ug/kg	
100-02-7	4-Nitrophenol	150 U	950	150	ug/kg	
87-86-5	Pentachlorophenol	230 U	950	230	ug/kg	
108-95-2	Phenol	19 U	190	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	19 U	190	19	ug/kg	
88-06-2	2,4,6-Trichlorophenol	19 U	190	19	ug/kg	
83-32-9	Acenaphthene	19 U	190	19	ug/kg	
208-96-8	Acenaphthylene	19 U	190	19	ug/kg	
98-86-2	Acetophenone	19 U	190	19	ug/kg	
120-12-7	Anthracene	19 U	190	19	ug/kg	
1912-24-9	Atrazine	19 U	190	19	ug/kg	
100-52-7	Benzaldehyde	190 U	950	190	ug/kg	
56-55-3	Benzo(a)anthracene	19 U	190	19	ug/kg	
50-32-8	Benzo(a)pyrene	19 U	190	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	19 U	190	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	19 U	190	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	19 U	190	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	19 U	190	19	ug/kg	
85-68-7	Butyl benzyl phthalate	38 U	190	38	ug/kg	
92-52-4	1,1'-Biphenyl	19 U	190	19	ug/kg	
105-60-2	Caprolactam	61 U	190	61	ug/kg	
91-58-7	2-Chloronaphthalene	38 U	190	38	ug/kg	
106-47-8	4-Chloroaniline	19 U	190	19	ug/kg	
86-74-8	Carbazole	19 U	190	19	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	19 U	190	19	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	19 U	190	19	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	19 U	190	19	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	19 U	190	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	19 U	190	19	ug/kg	
121-14-2	2,4-Dinitrotoluene	19 U	190	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	22 U	190	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	38 U	380	38	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	19 U	190	19	ug/kg	
132-64-9	Dibenzofuran	19 U	190	19	ug/kg	
84-74-2	Di-n-butyl phthalate	76 U	380	76	ug/kg	
117-84-0	Di-n-octyl phthalate	38 U	190	38	ug/kg	
84-66-2	Diethyl phthalate	76 U	380	76	ug/kg	
131-11-3	Dimethyl phthalate	38 U	190	38	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	76 U	380	76	ug/kg	
206-44-0	Fluoranthene	19 U	190	19	ug/kg	
86-73-7	Fluorene	19 U	190	19	ug/kg	
118-74-1	Hexachlorobenzene	19 U	190	19	ug/kg	
87-68-3	Hexachlorobutadiene	38 U	190	38	ug/kg	
77-47-4	Hexachlorocyclopentadiene	83 U	190	83	ug/kg	
67-72-1	Hexachloroethane	38 U	190	38	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19 U	190	19	ug/kg	
78-59-1	Isophorone	19 U	190	19	ug/kg	
91-57-6	2-Methylnaphthalene	19 U	190	19	ug/kg	
88-74-4	2-Nitroaniline	38 U	190	38	ug/kg	
99-09-2	3-Nitroaniline	38 U	190	38	ug/kg	
100-01-6	4-Nitroaniline	38 U	190	38	ug/kg	
91-20-3	Naphthalene	30 U	190	30	ug/kg	
98-95-3	Nitrobenzene	19 U	190	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	19 U	190	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	19 U	190	19	ug/kg	
85-01-8	Phenanthrene	19 U	190	19	ug/kg	
129-00-0	Pyrene	19 U	190	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	70%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069954.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.79 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.4 U	6.8	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0001-072412		
Lab Sample ID:	F95217-5	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	86.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30944.D	1	08/04/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3.9 U	9.7	3.9	mg/kg	
	TPH (> C28-C40)	3.9 U	9.7	3.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0001-072412
Lab Sample ID: F95217-5
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/24/12
Date Received: 07/25/12
Percent Solids: 86.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2330	83	10	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	0.83 U	8.3	0.83	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	0.83 U	4.1	0.83	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	19.8 J	83	4.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.41 U	2.1	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.41 U	1.7	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	202000	2100	41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	3.8 J	4.1	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	0.70 J	21	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	1.2 J	10	0.83	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	2530	120	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	1.2 J	8.3	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	1100 J	2100	41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	34.2	6.2	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0093 U	0.093	0.0093	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	1.8 J	17	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	580 J	4100	210	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	1.7 U	8.3	1.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.41 U	4.1	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	460 U	4100	460	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.1 U	4.1	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	4.8 J	21	0.41	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	5.6 J	8.3	2.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081256.D	1	07/25/12	EP	n/a	n/a	VG3005
Run #2							

	Initial Weight
Run #1	7.05 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17 U	43	17	ug/kg	
71-43-2	Benzene	1.3 U	4.3	1.3	ug/kg	
75-27-4	Bromodichloromethane	0.94 U	4.3	0.94	ug/kg	
75-25-2	Bromoform	1.3 U	4.3	1.3	ug/kg	
108-90-7	Chlorobenzene	0.85 U	4.3	0.85	ug/kg	
75-00-3	Chloroethane	1.7 U	4.3	1.7	ug/kg	
67-66-3	Chloroform	1.0 U	4.3	1.0	ug/kg	
75-15-0	Carbon disulfide	1.7 U	4.3	1.7	ug/kg	
56-23-5	Carbon tetrachloride	1.5 U	4.3	1.5	ug/kg	
110-82-7	Cyclohexane	1.2 U	4.3	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.94 U	4.3	0.94	ug/kg	
75-35-4	1,1-Dichloroethylene	1.2 U	4.3	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	4.3	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	0.85 U	4.3	0.85	ug/kg	
107-06-2	1,2-Dichloroethane	0.85 U	4.3	0.85	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	4.3	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.85 U	4.3	0.85	ug/kg	
75-71-8	Dichlorodifluoromethane	1.3 U	4.3	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.3 U	4.3	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.85 U	4.3	0.85	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	4.3	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	0.94 U	4.3	0.94	ug/kg	
106-46-7	p-Dichlorobenzene	0.94 U	4.3	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	4.3	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.94 U	4.3	0.94	ug/kg	
100-41-4	Ethylbenzene	0.85 U	4.3	0.85	ug/kg	
76-13-1	Freon 113	1.4 U	4.3	1.4	ug/kg	
591-78-6	2-Hexanone	4.6 U	21	4.6	ug/kg	
98-82-8	Isopropylbenzene	0.94 U	4.3	0.94	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.7 U	21	4.7	ug/kg	
79-20-9	Methyl acetate	11 U	21	11	ug/kg	
74-83-9	Methyl bromide	1.7 U	4.3	1.7	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.7 U	4.3	1.7	ug/kg	
108-87-2	Methylcyclohexane	1.1 U	4.3	1.1	ug/kg	
75-09-2	Methylene chloride	3.9 U	8.5	3.9	ug/kg	
78-93-3	Methyl ethyl ketone	5.2 U	21	5.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.3	1.7	ug/kg	
100-42-5	Styrene	2.2 U	4.3	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.94 U	4.3	0.94	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	4.3	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.94 U	4.3	0.94	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	4.3	1.0	ug/kg	
127-18-4	Tetrachloroethylene	0.85 U	4.3	0.85	ug/kg	
108-88-3	Toluene	1.0 U	4.3	1.0	ug/kg	
79-01-6	Trichloroethylene	1.0 U	4.3	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	1.7 U	4.3	1.7	ug/kg	
75-01-4	Vinyl chloride	1.3 U	4.3	1.3	ug/kg	
1330-20-7	Xylene (total)	2.7 U	13	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-121%
2037-26-5	Toluene-D8	99%		71-130%
460-00-4	4-Bromofluorobenzene	103%		59-148%
17060-07-0	1,2-Dichloroethane-D4	108%		77-123%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058580.D	1	08/02/12	NAF	07/26/12	OP42808	SL2988
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	81 U	400	81	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	1000	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	65 U	200	65	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	81 U	400	81	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	81 U	400	81	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	81 U	400	81	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	89 U	200	89	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	81%		42-108%
4165-60-0	Nitrobenzene-d5	66%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069955.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.43 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.8 U	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0002-072412		
Lab Sample ID:	F95217-6	**Date Sampled:**	07/24/12
Matrix:	SO - Soil	**Date Received:**	07/25/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY30945.D	1	08/04/12	SJL	07/26/12	OP42817	GYY1143
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.0 U	9.9	4.0	mg/kg	
	TPH (> C28-C40)	4.0 U	9.9	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0002-072412
Lab Sample ID: F95217-6
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/24/12
Date Received: 07/25/12
Percent Solids: 83.2

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	15800	110	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	1.1 U	11	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.7 J	5.7	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	88.3 J	110	5.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.81 J	2.9	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.57 U	2.3	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	148000	2900	57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	18.5	5.7	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	4.5 J	29	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	8.1 J	14	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	13900	170	19	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	8.5 J	11	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	6750	2900	57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	234	8.6	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0099 U	0.099	0.0099	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	13.0 J	23	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	2680 J	5700	290	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.3 U	11	2.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.57 U	5.7	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	630 U	5700	630	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.5 U	5.7	1.5	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	24.2 J	29	0.57	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	42.8	11	2.9	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

F95217

Shaw® Shaw E & I

FS003.1_0

Shaw E & I Chain of Custody Form

Ref. Document # 144106-H018

Page 1 of 1

Project Number: 144106.JM20000
Project Name / Location: Holloman AFB/Midwest
Purchase Order #: 144106.

Project Contact: Chris Long (Name & phone #)

Send Report To: Mark Lyon
Phone/Fax Number: (505) 262-8920
Address: 2440 Louisiana Blvd NE
City: Albuquerque, NM 87110

Shipment Date: 7/24/12
Waybill/Airbill Number: 8005 2380 3660
Lab Destination: Accutest
Lab Contact Name / ph. #: Sue Bell (813) 742-5238

Sampler's Name(s):

	Sample ID Number	Sample Description	Collection Information Date	Time	G/C	Matrix	# of containers	Container type	Preservative HCL	NaOH	HNO_3	H_2SO_4	Ice	VOCs by 8260C	TPH-GRO by 8015B	TPH-DRO/ORO by 8015B	SVOCs by 8270D	Metals by 6010C/6020A/7471A					Turn Around Time Requested
1	USTC501-CS-0001-072412	Soil	7/24/12	0943	G	SO	6	Varies						X	X	X	X	X					ST
2	USTC501-CS-0002-072412-FD	Soil	7/24/12	0943	G	SO	6	"						X	X	X	X	X					ST
3	USTC501-CS-0003-072412	Soil	7/24/12	1114	G	SO	6	"						X	X	X	X	X					ST
4	USTC501-CS-0004-072412	Soil	7/24/12	1140	G	SO	6	"						X	X	X	X	X					ST
5	USTC507-CS-0001-072412	Soil	7/24/12	1445	G	SO	6	"						X	X	X	X	X					ST
6	USTC507-CS-0002-072412	Soil	7/24/12	1450	G	SO	6	"						X	X	X	X	X					ST

Special Instructions:

QC/Data Package Level Required: I II III IV/Project Specific:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	7/24/12	1600	FX		
FX	7-25-12	900	[signature]	7-25-12	900

G/C Codes
C = Composite
G = Grab

Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
SW = Surface Water
LIQ = Other Liquid
AS = Air Sample
SO = Soil
SL = Sludge
CP = Chip Samples
WP = Wipe Samples
SOL = Other Solid
SED = Sediment

2-2

Page 1 of 2

F95217: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F95217 CLIENT: Shaw PROJECT: Holloman AFB

DATE/TIME RECEIVED: 07-25-12 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 2380 3660

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM____ 5-GRAM____

NUMBER OF 5035 FIELD KITS ? 6

NUMBER OF LAB FILTERED METALS ? ____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.0
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Received Water trip Blank.

TECHNICIAN SIGNATURE/DATE R W Ur 07-25-12 REVIEWER SIGNATURE/DATE [signature] 07/25/12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F95217: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3005-MB	G0081250.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
79-20-9	Methyl acetate	ND	25	13	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	1.3	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3005-MB	G0081250.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.2	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	80-121%
2037-26-5	Toluene-D8	102%	71-130%
460-00-4	4-Bromofluorobenzene	105%	59-148%
17060-07-0	1,2-Dichloroethane-D4	91%	77-123%

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3005-BS	G0081249.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	259	104	61-144
71-43-2	Benzene	50	50.9	102	78-130
75-27-4	Bromodichloromethane	50	53.4	107	73-122
75-25-2	Bromoform	50	48.4	97	70-139
108-90-7	Chlorobenzene	50	52.6	105	83-122
75-00-3	Chloroethane	50	50.8	102	61-153
67-66-3	Chloroform	50	52.5	105	79-129
75-15-0	Carbon disulfide	50	48.5	97	61-142
56-23-5	Carbon tetrachloride	50	51.4	103	79-135
110-82-7	Cyclohexane	50	47.8	96	76-135
75-34-3	1,1-Dichloroethane	50	52.2	104	77-132
75-35-4	1,1-Dichloroethylene	50	52.7	105	66-132
96-12-8	1,2-Dibromo-3-chloropropane	50	48.0	96	67-129
106-93-4	1,2-Dibromoethane	50	52.5	105	77-126
107-06-2	1,2-Dichloroethane	50	51.4	103	78-129
78-87-5	1,2-Dichloropropane	50	53.0	106	74-127
124-48-1	Dibromochloromethane	50	54.9	110	78-117
75-71-8	Dichlorodifluoromethane	50	55.7	111	35-162
156-59-2	cis-1,2-Dichloroethylene	50	53.0	106	74-123
10061-01-5	cis-1,3-Dichloropropene	50	52.3	105	79-130
541-73-1	m-Dichlorobenzene	50	50.0	100	82-126
95-50-1	o-Dichlorobenzene	50	50.1	100	83-123
106-46-7	p-Dichlorobenzene	50	49.4	99	84-124
156-60-5	trans-1,2-Dichloroethylene	50	51.5	103	77-129
10061-02-6	trans-1,3-Dichloropropene	50	56.2	112	87-131
100-41-4	Ethylbenzene	50	52.2	104	82-124
76-13-1	Freon 113	50	43.8	88	62-147
591-78-6	2-Hexanone	250	262	105	67-130
98-82-8	Isopropylbenzene	50	59.2	118	82-133
108-10-1	4-Methyl-2-pentanone	250	262	105	69-125
79-20-9	Methyl acetate	250	285	114	67-130
74-83-9	Methyl bromide	50	56.7	113	60-146
74-87-3	Methyl chloride	50	57.3	115	58-163
108-87-2	Methylcyclohexane	50	46.3	93	81-145
75-09-2	Methylene chloride	50	48.7	97	62-140
78-93-3	Methyl ethyl ketone	250	258	103	66-134

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3005-BS	G0081249.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	49.6	99	70-131
100-42-5	Styrene	50	53.0	106	79-123
71-55-6	1,1,1-Trichloroethane	50	51.7	103	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	70-128
79-00-5	1,1,2-Trichloroethane	50	52.3	105	76-118
120-82-1	1,2,4-Trichlorobenzene	50	46.7	93	82-137
127-18-4	Tetrachloroethylene	50	56.1	112	79-132
108-88-3	Toluene	50	50.9	102	80-123
79-01-6	Trichloroethylene	50	54.0	108	78-132
75-69-4	Trichlorofluoromethane	50	54.5	109	67-149
75-01-4	Vinyl chloride	50	54.9	110	60-145
1330-20-7	Xylene (total)	150	161	107	83-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	80-121%
2037-26-5	Toluene-D8	95%	71-130%
460-00-4	4-Bromofluorobenzene	92%	59-148%
17060-07-0	1,2-Dichloroethane-D4	92%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95217-1MS	G0081259.D	1	07/25/12	EP	n/a	n/a	VG3005
F95217-1MSD	G0081260.D	1	07/25/12	EP	n/a	n/a	VG3005
F95217-1	G0081251.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95217-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	38	U	309	246	80	232	75	6	61-144/29
71-43-2	Benzene	3.8	U	61.8	53.3	86	48.8	79	9	78-130/25
75-27-4	Bromodichloromethane	3.8	U	61.8	54.7	89	49.2	80	11	73-122/25
75-25-2	Bromoform	3.8	U	61.8	51.9	84	42.5	69*	20	70-139/26
108-90-7	Chlorobenzene	3.8	U	61.8	56.7	92	49.4	80*	14	83-122/23
75-00-3	Chloroethane	3.8	U	61.8	50.8	82	46.4	75	9	61-153/31
67-66-3	Chloroform	3.8	U	61.8	54.5	88	49.1	80	10	79-129/27
75-15-0	Carbon disulfide	3.8	U	61.8	45.5	74	43.3	70	5	61-142/27
56-23-5	Carbon tetrachloride	3.8	U	61.8	54.0	87	48.6	79	11	79-135/29
110-82-7	Cyclohexane	3.8	U	61.8	52.2	85	47.9	78	9	76-135/25
75-34-3	1,1-Dichloroethane	3.8	U	61.8	52.9	86	48.6	79	8	77-132/26
75-35-4	1,1-Dichloroethylene	3.8	U	61.8	53.7	87	50.8	82	6	66-132/27
96-12-8	1,2-Dibromo-3-chloropropane	3.8	U	61.8	56.7	92	55.0	89	3	67-129/29
106-93-4	1,2-Dibromoethane	3.8	U	61.8	55.0	89	48.9	79	12	77-126/24
107-06-2	1,2-Dichloroethane	3.8	U	61.8	57.1	92	51.7	84	10	78-129/24
78-87-5	1,2-Dichloropropane	3.8	U	61.8	53.3	86	50.6	82	5	74-127/27
124-48-1	Dibromochloromethane	3.8	U	61.8	54.3	88	49.6	80	9	78-117/27
75-71-8	Dichlorodifluoromethane	3.8	U	61.8	59.3	96	53.5	87	10	35-162/30
156-59-2	cis-1,2-Dichloroethylene	3.8	U	61.8	50.6	82	46.9	76	8	74-123/26
10061-01-5	cis-1,3-Dichloropropene	3.8	U	61.8	51.9	84	45.3	73*	14	79-130/23
541-73-1	m-Dichlorobenzene	3.8	U	61.8	55.5	90	48.3	78*	14	82-126/29
95-50-1	o-Dichlorobenzene	3.8	U	61.8	57.4	93	49.9	81*	14	83-123/28
106-46-7	p-Dichlorobenzene	3.8	U	61.8	54.8	89	47.2	77*	15	84-124/28
156-60-5	trans-1,2-Dichloroethylene	3.8	U	61.8	52.1	84	48.1	78	8	77-129/27
10061-02-6	trans-1,3-Dichloropropene	3.8	U	61.8	55.0	89	48.4	79*	13	87-131/27
100-41-4	Ethylbenzene	3.8	U	61.8	59.5	96	51.8	84	14	82-124/25
76-13-1	Freon 113	3.8	U	61.8	49.7	80	46.4	75	7	62-147/29
591-78-6	2-Hexanone	19	U	309	ND	0*	ND	0*	nc	67-130/29
98-82-8	Isopropylbenzene	3.8	U	61.8	63.4	103	54.7	89	15	82-133/27
108-10-1	4-Methyl-2-pentanone	19	U	309	17.5	6*	102	33*	141*	69-125/24
79-20-9	Methyl acetate	19	U	309	263	85	244	79	7	67-130/26
74-83-9	Methyl bromide	3.8	U	61.8	55.6	90	49.6	80	11	60-146/31
74-87-3	Methyl chloride	3.8	U	61.8	59.1	96	54.1	88	9	58-163/26
108-87-2	Methylcyclohexane	3.8	U	61.8	51.6	84	46.8	76*	10	81-145/27
75-09-2	Methylene chloride	7.6	U	61.8	53.1	86	51.4	83	3	62-140/25
78-93-3	Methyl ethyl ketone	19	U	309	180	58*	186	60*	3	66-134/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95217-1MS	G0081259.D	1	07/25/12	EP	n/a	n/a	VG3005
F95217-1MSD	G0081260.D	1	07/25/12	EP	n/a	n/a	VG3005
F95217-1	G0081251.D	1	07/25/12	EP	n/a	n/a	VG3005

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95217-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	3.8	U	61.8	53.4	86	48.1	78	10	70-131/25
100-42-5	Styrene	3.8	U	61.8	56.2	91	47.0	76*	18	79-123/28
71-55-6	1,1,1-Trichloroethane	3.8	U	61.8	53.8	87	48.8	79*	10	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	3.8	U	61.8	54.3	88	50.2	81	8	70-128/30
79-00-5	1,1,2-Trichloroethane	3.8	U	61.8	53.9	87	48.3	78	11	76-118/28
120-82-1	1,2,4-Trichlorobenzene	3.8	U	61.8	59.3	96	48.2	78*	21	82-137/32
127-18-4	Tetrachloroethylene	3.8	U	61.8	56.7	92	51.0	83	11	79-132/27
108-88-3	Toluene	3.8	U	61.8	52.6	85	47.0	76*	11	80-123/26
79-01-6	Trichloroethylene	3.8	U	61.8	54.3	88	50.4	82	7	78-132/28
75-69-4	Trichlorofluoromethane	3.8	U	61.8	58.6	95	53.4	87	9	67-149/29
75-01-4	Vinyl chloride	3.8	U	61.8	55.4	90	51.5	84	7	60-145/29
1330-20-7	Xylene (total)	11	U	185	187	101	160	87	16	83-127/24

CAS No.	Surrogate Recoveries	MS	MSD	F95217-1	Limits
1868-53-7	Dibromofluoromethane	97%	96%	92%	80-121%
2037-26-5	Toluene-D8	91%	91%	103%	71-130%
460-00-4	4-Bromofluorobenzene	95%	96%	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	101%	77-123%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-BFB
Lab File ID: G0081240.D
Instrument ID: GCMSG
Injection Date: 07/25/12
Injection Time: 09:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	67181	19.5		Pass
75	30.0 - 60.0% of mass 95	196629	57.1		Pass
95	Base peak, 100% relative abundance	344640	100.0		Pass
96	5.0 - 9.0% of mass 95	24645	7.15		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	311936	90.5		Pass
175	5.0 - 9.0% of mass 174	23550	6.83	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	304768	88.4	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	22168	6.43	(7.27) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG3005-IC3005	G0081241.D	07/25/12	10:39	00:48	Initial cal 1
VG3005-IC3005	G0081242.D	07/25/12	11:06	01:15	Initial cal 2
VG3005-IC3005	G0081243.D	07/25/12	11:33	01:42	Initial cal 3
VG3005-IC3005	G0081244.D	07/25/12	12:00	02:09	Initial cal 4
VG3005-ICC3005	G0081245.D	07/25/12	12:27	02:36	Initial cal 5
VG3005-IC3005	G0081246.D	07/25/12	12:54	03:03	Initial cal 6
VG3005-IC3005	G0081247.D	07/25/12	13:21	03:30	Initial cal 7
VG3005-ICV3005	G0081248.D	07/25/12	14:18	04:27	Initial cal verification 4
VG3005-BS	G0081249.D	07/25/12	14:45	04:54	Blank Spike
VG3005-MB	G0081250.D	07/25/12	15:12	05:21	Method Blank
F95217-1	G0081251.D	07/25/12	15:39	05:48	USTC501-CS-0001-072412
F95217-2	G0081252.D	07/25/12	16:06	06:15	USTC501-CS-0002-072412-FD
F95217-3	G0081253.D	07/25/12	16:33	06:42	USTC501-CS-0003-072412
F95217-4	G0081254.D	07/25/12	17:00	07:09	USTC501-CS-0004-072412
F95217-5	G0081255.D	07/25/12	17:27	07:36	USTC507-CS-0001-072412
F95217-6	G0081256.D	07/25/12	17:54	08:03	USTC507-CS-0002-072412
ZZZZZZ	G0081257.D	07/25/12	18:21	08:30	(unrelated sample)
F95217-1MS	G0081259.D	07/25/12	19:15	09:24	Matrix Spike
F95217-1MSD	G0081260.D	07/25/12	19:43	09:52	Matrix Spike Duplicate
ZZZZZZ	G0081261.D	07/25/12	20:10	10:19	(unrelated sample)
ZZZZZZ	G0081262.D	07/25/12	20:36	10:45	(unrelated sample)
ZZZZZZ	G0081263.D	07/25/12	21:04	11:13	(unrelated sample)
ZZZZZZ	G0081264.D	07/25/12	21:30	11:39	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	VG3005-ICC3005	**Injection Date:**	07/25/12
Lab File ID:	G0081245.D	**Injection Time:**	12:27
Instrument ID:	GCMSG	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	2106179	9.34	1592439	13.25	723175	15.86	222386	6.04
Check Std [b]	2106179	9.34	1592439	13.25	723175	15.86	222386	6.04
Upper Limit [c]	4212358	9.84	3184878	13.75	1446350	16.36	444772	6.54
Lower Limit [d]	1053090	8.84	796220	12.75	361588	15.36	111193	5.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VG3005-BS	2201486	9.34	1641696	13.25	739258	15.86	229094	6.03
VG3005-MB	1983910	9.35	1284790	13.27	470127	15.88	171248	6.04
F95217-1	1810990	9.34	1230016	13.25	464387	15.86	176487	6.04
F95217-2	1800903	9.34	1281940	13.25	487974	15.86	11638*	6.07
F95217-3	1684918	9.34	1221106	13.26	518642	15.86	0*	0.00*
F95217-4	1689328	9.34	1165823	13.25	449438	15.86	144760	6.05
F95217-5	1722874	9.34	1219092	13.26	449728	15.86	146050	6.05
F95217-6	1594213	9.34	1077027	13.25	421571	15.86	158757	6.04
ZZZZZZ	1758286	9.34	1294193	13.25	603142	15.86	151207	6.06
F95217-1MS	1767725	9.34	1335381	13.25	575912	15.86	165900	6.04
F95217-1MSD	1860850	9.34	1400796	13.25	573058	15.86	182292	6.04
ZZZZZZ	1592961	9.34	1083569	13.25	288132*	15.86	112797	6.05
ZZZZZZ	1535466	9.34	1103668	13.25	389939	15.86	126137	6.04
ZZZZZZ	1622196	9.34	1082700	13.25	344193*	15.86	113751	6.05
ZZZZZZ	1605718	9.34	1218927	13.25	480430	15.86	123923	6.03

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VG3005-ICC3005 G0081245.D 07/25/12 12:27
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F95217-1	G0081251.D	92.0	103.0	107.0	101.0
F95217-2	G0081252.D	92.0	93.0	99.0	104.0
F95217-3	G0081253.D	91.0	91.0	97.0	103.0
F95217-4	G0081254.D	93.0	97.0	105.0	107.0
F95217-5	G0081255.D	93.0	96.0	102.0	102.0
F95217-6	G0081256.D	95.0	99.0	103.0	108.0
F95217-1MS	G0081259.D	97.0	91.0	95.0	97.0
F95217-1MSD	G0081260.D	96.0	91.0	96.0	97.0
VG3005-BS	G0081249.D	93.0	95.0	92.0	92.0
VG3005-MB	G0081250.D	88.0	102.0	105.0	91.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-121%
S2 = Toluene-D8	71-130%
S3 = 4-Bromofluorobenzene	59-148%
S4 = 1,2-Dichloroethane-D4	77-123%

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-ICC3005
Lab FileID: G0081245.D

Response Factor Report MSVOA1

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration

Calibration Files
1 =G0081241.D 2 =G0081242.D 3 =G0081243.D 4 =G0081244.D
5 =G0081245.D 6 =G0081246.D 7 =G0081247.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.402	0.343	0.354	0.355	0.303	0.303	0.286	0.335	12.04
3)P Chloromethane	0.330	0.287	0.320	0.306	0.250	0.267	0.251	0.287	11.31
4)C Vinyl Chloride	0.321	0.297	0.315	0.303	0.244	0.253	0.236	0.281	12.74
5) Bromomethane	0.312	0.308	0.314	0.299	0.227	0.234		0.282	14.45
6) Chloroethane	0.203	0.177	0.185	0.181	0.144	0.147		0.173	13.29
7) Trichlorofluorome	0.667	0.553	0.581	0.578	0.472	0.499	0.462	0.545	13.35
8) Ethyl Ether	0.245	0.220	0.232	0.230	0.215	0.223	0.216	0.226	4.70
9) 1,2-Dichlorotrifl	0.451	0.374	0.386	0.384	0.328	0.334	0.308	0.366	13.12
10)C 1,1-Dichloroethen	0.462	0.416	0.416	0.416	0.355	0.363	0.349	0.397	10.63
11) Freon 113	0.393	0.323	0.333	0.339	0.278	0.284	0.272	0.318	13.68
12) Carbon Disulfide	0.778	0.738	0.756	0.800	0.688	0.726	0.706	0.742	5.31
13) Iodomethane	0.790	0.747	0.770	0.787	0.682	0.716	0.693	0.741	5.98
14) Allyl chloride	0.328	0.271	0.322	0.331	0.285	0.298	0.292	0.304	7.76
15) Methylene Chlorid	0.470	0.429	0.417	0.413	0.374	0.370	0.351	0.404	10.17
16) Acetone	0.082	0.078	0.076	0.074	0.077	0.079	0.078	0.078	3.33
17) Methyl acetate	0.156	0.165	0.171	0.160	0.158	0.160	0.155	0.161	3.51
18) trans-1,2-Dichlor	0.457	0.430	0.448	0.441	0.391	0.395	0.384	0.421	7.17
19) Hexane	0.248	0.211	0.214	0.216	0.171	0.179	0.172	0.202	14.31
20) Methyl Tert Butyl	0.991	0.972	0.994	0.966	0.939	0.961	0.948	0.967	2.13
21) Acetonitrile	0.025	0.021	0.021	0.022	0.022	0.023	0.023	0.022	6.01
22) Di-isopropyl ethe	0.904	0.899	0.958	0.937	0.845	0.864	0.849	0.894	4.88
23) Chloroprene	0.382	0.355	0.400	0.415	0.352	0.368	0.358	0.376	6.47
24)P 1,1-Dichloroethan	0.585	0.567	0.566	0.581	0.511	0.523	0.505	0.548	6.22
25) Acrylonitrile	0.051	0.060	0.063	0.067	0.068	0.073	0.072	0.065	11.91
26) ETBE	0.956	1.003	1.021	1.000	0.947	0.965	0.948	0.977	3.08
27) Vinyl acetate	0.212	0.243	0.327	0.391	0.404	0.411	0.385	0.339	24.03
---- Linear regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 0.39508 *A									
28) cis-1,2-Dichloroe	0.347	0.373	0.386	0.380	0.343	0.351	0.344	0.361	5.12
29) 2,2-Dichloropropa	0.459	0.437	0.448	0.448	0.369	0.379	0.357	0.414	10.50
30) Bromochloromethan	0.215	0.216	0.231	0.234	0.214	0.218	0.216	0.221	3.71
31) Cyclohexane	0.445	0.370	0.390	0.399	0.337	0.340	0.325	0.372	11.48
32)C Chloroform	0.696	0.691	0.744	0.736	0.656	0.672	0.657	0.693	5.10
33) Ethyl acetate	0.187	0.202	0.217	0.215	0.223	0.231	0.231	0.215	7.50
34) Tetrahydrofuran	0.070	0.055	0.064	0.061	0.063	0.062	0.063	0.063	7.17
35)S Dibromofluorometh	0.352	0.369	0.380	0.356	0.385	0.389	0.388	0.374	4.04
36) Carbon Tetrachlor	0.488	0.443	0.478	0.493	0.436	0.450	0.438	0.461	5.34
37) 1,1,1-Trichloroet	0.616	0.551	0.613	0.610	0.519	0.533	0.515	0.565	8.15
38) 2-Butanone	0.083	0.086	0.100	0.098	0.107	0.110	0.111	0.099	11.30
39) 1,1-Dichloroprope	0.421	0.396	0.436	0.425	0.359	0.372	0.359	0.396	8.23
40) Propionitrile	0.024	0.024	0.025	0.025	0.026	0.027	0.027	0.025	4.90
41) Methacrylonitrile	0.099	0.111	0.122	0.121	0.122	0.125	0.121	0.117	7.96
42) Benzene	1.169	1.134	1.161	1.163	1.019	1.011	0.992	1.093	7.42
43) TAME	0.821	0.884	0.914	0.907	0.879	0.904	0.899	0.887	3.56

Initial Calibration Summary

Job Number: F95217 **Sample:** VG3005-ICC3005
Account: SEITXH SHAW E & I **Lab FileID:** G0081245.D
Project: Holloman AFB; NM

```
44)S 1,2-Dichloroethan 0.349 0.374 0.391 0.354 0.385 0.389 0.389 0.376   4.73
45)  1,2-Dichloroethan 0.524 0.529 0.562 0.537 0.506 0.522 0.502 0.526   3.82
46)  Trichloroethene   0.346 0.346 0.375 0.366 0.314 0.327 0.313 0.341   7.08
47)  Methylcyclohexane 0.509 0.433 0.439 0.448 0.376 0.387 0.376 0.424  11.41
48)  Dibromomethane    0.220 0.238 0.243 0.247 0.239 0.249 0.250 0.241   4.27
49)C 1,2-Dichloropropa 0.274 0.285 0.294 0.287 0.263 0.276 0.267 0.278   4.00
50)  Bromodichlorometh 0.384 0.427 0.447 0.477 0.462 0.484 0.475 0.451   7.84
51)  Methyl methacryla 0.153 0.157 0.162 0.171 0.176 0.187 0.189 0.171   8.37
52)  2-Chloroethyl vin 0.070 0.088 0.106 0.109 0.125             0.100  20.99
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9973
              Response Ratio = 0.00000 + 0.12070 *A

53)  cis-1,3-Dichlorop 0.366 0.407 0.496 0.471 0.485 0.517 0.496 0.462  11.85

54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.375 1.435 1.543 1.388 1.419 1.439 1.387 1.427   3.99
56)C Toluene           1.731 1.758 1.876 1.801 1.554 1.598 1.486 1.686   8.45
57)  2-Nitropropane    0.055 0.060 0.073 0.082 0.090             0.072  20.08
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.08761 *A

58)  4-Methyl-2-pentan 0.224 0.263 0.294 0.292 0.299 0.298 0.290 0.280   9.82
59)  trans-1,3-Dichlor 0.430 0.455 0.558 0.575 0.545 0.561 0.554 0.525  11.01
60)  Tetrachloroethene 0.560 0.510 0.549 0.527 0.449 0.461 0.458 0.502   9.17
61)  Ethyl methacrylat 0.260 0.289 0.367 0.375 0.404             0.339  18.04
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.39609 *A

62)  1,1,2-Trichloroet 0.307 0.306 0.341 0.308 0.296 0.304 0.296 0.308   4.99
63)  Dibromochlorometh 0.383 0.436 0.523 0.497 0.510 0.544 0.544 0.491  12.27
64)  1,3-Dichloropropa 0.563 0.593 0.673 0.599 0.569 0.587 0.582 0.595   6.17
65)  1,2-Dibromoethane 0.343 0.376 0.429 0.413 0.411 0.426 0.432 0.405   8.15
66)  2-hexanone        0.150 0.160 0.170 0.177 0.199 0.216 0.214 0.184  14.32
67)  1-Chlorohexane    0.481 0.461 0.521 0.515 0.456 0.465 0.448 0.478   6.07
68)C Ethylbenzene      1.834 1.821 1.942 1.908 1.632 1.705 1.597 1.777   7.56
69)P Chlorobenzene     1.118 1.142 1.208 1.155 1.035 1.074 1.043 1.111   5.72
70)  1,1,1,2-Tetrachlo 0.433 0.444 0.474 0.468 0.434 0.458 0.450 0.452   3.58
71)  m,p-Xylene        1.384 1.406 1.575 1.525 1.325 1.244 1.018 1.354  13.74
72)  o-Xylene          1.464 1.513 1.655 1.554 1.483 1.489 1.383 1.506   5.58
73)  Styrene           0.803 0.863 1.024 1.025 1.028 1.072 1.045 0.980  10.54
74)P Bromoform         0.193 0.218 0.252 0.278 0.299             0.248  17.44
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.29294 *A

75)  Isopropylbenzene  1.479 1.492 1.569 1.542 1.426 1.501 1.407 1.488   3.90

76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.990 0.980 1.014 0.908 0.978 0.974 0.959 0.972   3.38
78)  cis-1,4-Dichloro- 0.215 0.193 0.215 0.200 0.232 0.251 0.249 0.222  10.23
79)  n-Propylbenzene   4.385 4.287 4.588 4.387 3.979 3.972 3.472 4.153   9.02
80)  Bromobenzene      1.233 1.218 1.208 1.121 1.066 1.101 1.056 1.143   6.55
81)P 1,1,2,2-Tetrachlo 0.998 0.968 0.979 0.888 0.876 0.927 0.917 0.936   4.98
82)  1,3,5-Trimethylbe 3.549 3.626 3.812 3.587 3.140 3.196 2.894 3.401   9.63
83)  2-Chlorotoluene   3.637 3.364 3.681 3.487 2.953 3.003 2.825 3.279  10.63
84)  trans-1,4-Dichlor 0.202 0.192 0.196 0.212 0.232 0.238 0.252 0.218  10.60
85)  1,2,3-Trichloropr 0.309 0.310 0.327 0.294 0.289 0.299 0.285 0.302   4.81
86)  Cyclohexanone     0.023 0.029 0.022 0.022 0.020 0.021 0.021 0.023  13.54
87)  4-Chlorotoluene   2.773 2.974 3.005 2.970 2.595 2.683 2.577 2.797   6.65
88)  tert-Butylbenzene 2.123 2.400 2.314 2.194 1.856 1.880 1.760 2.075  11.87
89)  1,2,4-Trimethylbe 3.319 3.452 3.569 3.556 3.151 3.189 2.986 3.317   6.66
```

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-ICC3005
Lab FileID: G0081245.D

```
 90)  Pentachloroethane 0.560 0.571 0.582 0.569 0.505             0.557   5.42
 91)  sec-Butylbenzene  4.041 3.949 4.030 4.122 3.509 3.489 3.117 3.751  10.14
 92)  4-Isopropyltoluen 2.851 2.964 3.142 3.236 2.730 2.668 2.547 2.877   8.76
 93)  1,3-Dichlorobenze 1.742 1.801 1.837 1.859 1.669 1.674 1.633 1.745   5.12
 94)  1,4-Dichlorobenze 1.819 1.796 1.877 1.826 1.652 1.687 1.621 1.754   5.63
 95)  n-Butylbenzene    1.203 1.333 1.416 1.517 1.345 1.405 1.376 1.371   6.98
 96)  Benzyl Chloride   0.153 0.168 0.165 0.218 0.235             0.188  19.43
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 0.22916 *A

 97)  1,2-Dichlorobenze 1.591 1.684 1.702 1.709 1.542 1.587 1.546 1.623   4.52
 98)  1,2-Dibromo-3-Chl 0.113 0.119 0.097 0.111 0.109 0.115 0.124 0.112   7.53
 99)  Hexachlorobutadie 0.562 0.500 0.542 0.531 0.432 0.441 0.426 0.491  11.60
100)  1,2,4-Trichlorobe 0.535 0.592 0.658 0.807 0.766             0.671  17.04
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.76857 *A

101)  Naphthalene       0.883 0.895 1.106 1.293 1.411 1.503 1.543 1.234  22.39
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9986
               Response Ratio = 0.00000 + 1.50215 *A

102)  1,2,3-Trichlorobe 0.509 0.524 0.631 0.713 0.671 0.693 0.662 0.629  12.92

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.056 0.061 0.074 0.076 0.063 0.062 0.055 0.064  13.02
105)  Acrolein          0.773 1.007 1.085 1.069 1.002 1.019 0.959 0.988  10.49
106)  Tert Butyl Alcoho 1.449 1.293 1.440 1.309 1.273 1.356 1.309 1.347   5.27
107)  Isobutyl alcohol  0.208 0.186 0.198 0.209 0.231 0.242 0.238 0.216   9.89
108)  Tert Amyl Alcohol 0.784 0.925 0.978 0.920 0.942 1.010 0.991 0.936   8.01
109)  1,4-Dioxane       0.108 0.143 0.133 0.130 0.123 0.124 0.124 0.126   8.41
 ---------------------------------------------------------------------------
 (#) = Out of Range

           072512APP9-G.M        Thu Jul 26 10:44:37 2012
```

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-ICV3005
Lab FileID: G0081248.D

Evaluate Continuing Calibration Report

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.01	9.35
2		Dichlorodifluoromethane	0.335	0.385	-14.9	117	0.00	2.59
3	P	Chloromethane	0.287	0.325	-13.2	115	0.00	2.86
4	C	Vinyl Chloride	0.281	0.300	-6.8	107	0.00	3.00
5		Bromomethane	0.282	0.315	-11.7	114	0.00	3.49
6		Chloroethane	0.173	0.170	1.7	102	0.01	3.70
7		Trichlorofluoromethane	0.545	0.581	-6.6	109	0.00	3.90
8		Ethyl Ether	0.226	0.216	4.4	102	0.00	4.35
9		1,2-Dichlorotrifluoroetha	0.366	0.325	11.2	92	0.01	4.66
10	C	1,1-Dichloroethene	0.397	0.393	1.0	102	0.00	4.69
11		Freon 113	0.318	0.297	6.6	95	0.00	4.78
12		Carbon Disulfide	0.742	0.689	7.1	93	0.01	4.77
13		Iodomethane	0.741	0.717	3.2	99	0.00	4.94
14		Allyl chloride	0.304	0.325	-6.9	106	0.01	5.46
15		Methylene Chloride	0.404	0.381	5.7	100	0.00	5.62
16		Acetone	0.078	0.076	2.6	113	0.01	5.69
17		Methyl acetate	0.161	0.154	4.3	105	0.01	5.88
18		trans-1,2-Dichloroethene	0.421	0.415	1.4	102	0.01	5.88
19		Hexane	0.202	0.182	9.9	91	0.01	6.01
20		Methyl Tert Butyl Ether	0.967	0.926	4.2	104	0.01	6.04
21		Acetonitrile	0.022	0.022	0.0	108	0.01	6.41
22		Di-isopropyl ether	0.894	0.860	3.8	99	0.01	6.61
23		Chloroprene	0.376	0.409	-8.8	107	0.01	6.78
24	P	1,1-Dichloroethane	0.548	0.536	2.2	100	0.01	6.81
25		Acrylonitrile	0.065	0.063	3.1	102	0.00	6.87
26		ETBE	0.977	0.919	5.9	99	0.01	7.15
			Amount	Calc.	%Drift			
27		Vinyl acetate	250.000	227.002	9.2	99	0.01	7.15
			AvgRF	CCRF	%Dev			
28		cis-1,2-Dichloroethene	0.361	0.358	0.8	102	0.01	7.60
29		2,2-Dichloropropane	0.414	0.407	1.7	98	0.01	7.76
30		Bromochloromethane	0.221	0.207	6.3	96	0.01	7.88
31		Cyclohexane	0.372	0.343	7.8	93	0.02	7.91
32	C	Chloroform	0.693	0.685	1.2	101	0.01	7.97
33		Ethyl acetate	0.215	0.214	0.5	108	0.02	8.12
34		Tetrahydrofuran	0.063	0.063	0.0	112	0.01	8.20
35	S	Dibromofluoromethane	0.374	0.356	4.8	108	0.01	8.23
36		Carbon Tetrachloride	0.461	0.461	0.0	101	0.02	8.20
37		1,1,1-Trichloroethane	0.565	0.562	0.5	100	0.01	8.28
38		2-Butanone	0.099	0.094	5.1	104	0.01	8.39

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-ICV3005
Lab FileID: G0081248.D

39		1,1-Dichloropropene	0.396	0.392	1.0	100	0.02	8.45
40		Propionitrile	0.025	0.026	-4.0	114	0.02	8.80
41		Methacrylonitrile	0.117	0.128	-9.4	114	0.01	8.83
42		Benzene	1.093	1.042	4.7	97	0.01	8.79
43		TAME	0.887	0.843	5.0	101	0.01	8.93
44	S	1,2-Dichloroethane-d4	0.376	0.335	10.9	103	0.01	8.97
45		1,2-Dichloroethane	0.526	0.506	3.8	102	0.02	9.07
46		Trichloroethene	0.341	0.340	0.3	100	0.02	9.59
47		Methylcyclohexane	0.424	0.396	6.6	96	0.01	9.59
48		Dibromomethane	0.241	0.231	4.1	101	0.01	10.16
49	C	1,2-Dichloropropane	0.278	0.267	4.0	100	0.01	10.29
50		Bromodichloromethane	0.451	0.445	1.3	101	0.02	10.37
51		Methyl methacrylate	0.171	0.188	-9.9	119	0.01	10.53
		----------	Amount	Calc.	%Drift	----------		
52		2-Chloroethyl vinyl ether	250.000	211.759	15.3	101	0.02	11.07
		----------	AvgRF	CCRF	%Dev	----------		
53		cis-1,3-Dichloropropene	0.462	0.457	1.1	105	0.01	11.17
54	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.02	13.27
55	S	Toluene-d8	1.427	1.352	5.3	102	0.01	11.41
56	C	Toluene	1.686	1.652	2.0	96	0.02	11.48
		----------	Amount	Calc.	%Drift	----------		
57		2-Nitropropane	250.000	224.909	10.0	101	0.01	11.74
		----------	AvgRF	CCRF	%Dev	----------		
58		4-Methyl-2-pentanone	0.280	0.275	1.8	99	0.02	11.91
59		trans-1,3-Dichloropropene	0.525	0.584	-11.2	106	0.02	11.97
60		Tetrachloroethene	0.502	0.500	0.4	99	0.01	11.96
		----------	Amount	Calc.	%Drift	----------		
61		Ethyl methacrylate	50.000	49.568	0.9	109	0.01	12.13
		----------	AvgRF	CCRF	%Dev	----------		
62		1,1,2-Trichloroethane	0.308	0.307	0.3	104	0.02	12.17
63		Dibromochloromethane	0.491	0.510	-3.9	107	0.01	12.39
64		1,3-Dichloropropane	0.595	0.575	3.4	100	0.02	12.50
65		1,2-Dibromoethane	0.405	0.409	-1.0	103	0.02	12.69
66		2-hexanone	0.184	0.186	-1.1	110	0.02	12.90
67		1-Chlorohexane	0.478	0.486	-1.7	99	0.02	13.24
68	C	Ethylbenzene	1.777	1.812	-2.0	99	0.01	13.30
69	P	Chlorobenzene	1.111	1.118	-0.6	101	0.02	13.29
70		1,1,1,2-Tetrachloroethane	0.452	0.460	-1.8	103	0.02	13.36
71		m,p-Xylene	1.354	1.440	-6.4	99	0.02	13.47
72		o-Xylene	1.506	1.529	-1.5	103	0.02	13.96
73		Styrene	0.980	1.025	-4.6	104	0.02	14.02
		----------	Amount	Calc.	%Drift	----------		
74	P	Bromoform	50.000	46.218	7.6	102	0.01	14.07
		----------	AvgRF	CCRF	%Dev	----------		
75		Isopropylbenzene	1.488	1.722	-15.7	117	0.02	14.30
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.01	15.87
77	S	4-Bromofluorobenzene	0.972	0.962	1.0	108	0.01	14.64
78		cis-1,4-Dichloro-2-butene	0.222	0.230	-3.6	117	0.02	14.69
79		n-Propylbenzene	4.153	4.302	-3.6	100	0.02	14.77
80		Bromobenzene	1.143	1.157	-1.2	105	0.01	14.77

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VG3005-ICV3005
Lab FileID: G0081248.D

81	P	1,1,2,2-Tetrachloroethane	0.936	0.898	4.1	103	0.02	14.84
82		1,3,5-Trimethylbenzene	3.401	3.338	1.9	95	0.02	14.97
83		2-Chlorotoluene	3.279	3.253	0.8	95	0.02	14.96
84		trans-1,4-Dichloro-2-Bute	0.218	0.204	6.4	98	0.02	15.03
85		1,2,3-Trichloropropane	0.302	0.293	3.0	101	0.01	15.00
86		Cyclohexanone	0.023	0.020	13.0	95	0.01	15.06
87		4-Chlorotoluene	2.797	2.795	0.1	96	0.01	15.14
88		tert-Butylbenzene	2.075	2.065	0.5	96	0.02	15.34
89		1,2,4-Trimethylbenzene	3.317	3.262	1.7	93	0.01	15.41
90		Pentachloroethane	0.557	0.691	-24.1#	123	0.01	15.38
91		sec-Butylbenzene	3.751	3.865	-3.0	95	0.02	15.53
92		4-Isopropyltoluene	2.877	3.046	-5.9	96	0.01	15.67
93		1,3-Dichlorobenzene	1.745	1.768	-1.3	97	0.02	15.80
94		1,4-Dichlorobenzene	1.754	1.757	-0.2	98	0.01	15.89
95		n-Butylbenzene	1.371	1.431	-4.4	96	0.02	16.14
		----------	Amount	Calc.	%Drift		----------	
96		Benzyl Chloride	50.000	49.059	1.9	105	0.02	16.15
		----------	AvgRF	CCRF	%Dev		----------	
97		1,2-Dichlorobenzene	1.623	1.682	-3.6	100	0.01	16.34
98		1,2-Dibromo-3-Chloropropa	0.112	0.115	-2.7	106	0.02	17.17
99		Hexachlorobutadiene	0.491	0.523	-6.5	100	0.01	17.79
		----------	Amount	Calc.	%Drift		----------	
100		1,2,4-Trichlorobenzene	50.000	50.307	-0.6	97	0.02	17.84
101		Naphthalene	50.000	43.899	12.2	104	0.02	18.16
		----------	AvgRF	CCRF	%Dev		----------	
102		1,2,3-Trichlorobenzene	0.629	0.675	-7.3	96	0.02	18.34
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	116	0.00	6.04
104		Ethanol	0.064	0.070	-9.4	106	0.00	4.56
105		Acrolein	0.988	1.021	-3.3	111	0.01	5.23
106		Tert Butyl Alcohol	1.347	1.314	2.4	116	0.00	6.15
107		Isobutyl alcohol	0.216	0.215	0.5	119	0.01	9.03
108		Tert Amyl Alcohol	0.936	0.895	4.4	113	0.01	9.16
109		1,4-Dioxane	0.126	0.116	7.9	103	0.01	10.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G0081244.D 072512APP9-G.M Thu Jul 26 10:44:20 2012

6.7.2

6

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081251.D Vial: 11
Acq On : 25 Jul 2012 3:39 pm Operator: ericp
Sample : F95217-1 Inst : MSVOA1
Misc : ms21675,vg3005,8.14,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:33:21 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1810990	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1230016	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	464387	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	176487	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	623126	45.98	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 91.96%			
44) 1,2-Dichloroethane-d4	8.96	65	688276	50.58	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 101.16%			
55) Toluene-d8	11.40	98	1805949	51.46	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 102.92%			
77) 4-Bromofluorobenzene	14.63	174	481202	53.30	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 106.60%			

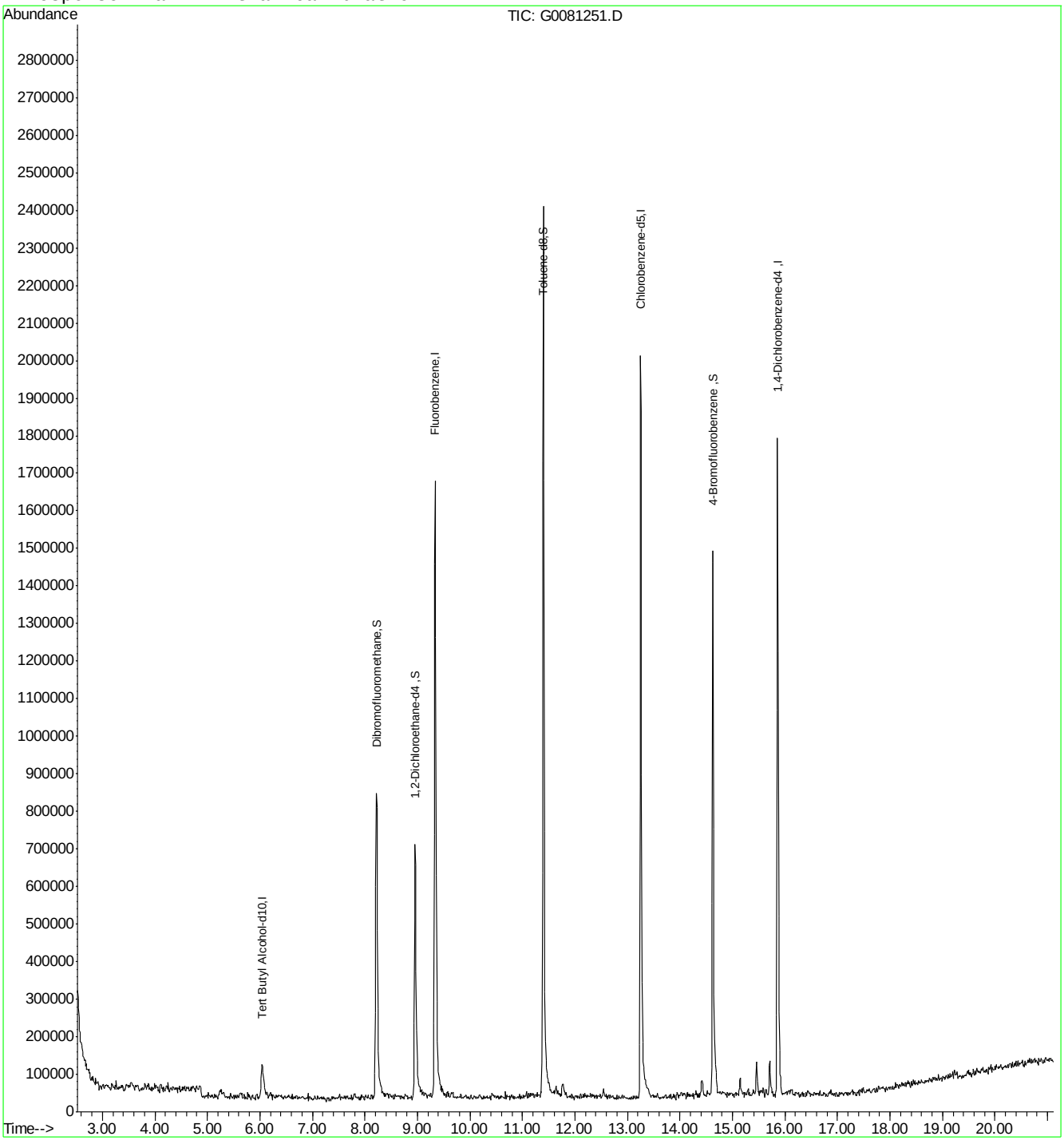
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081251.D Vial: 11
Acq On : 25 Jul 2012 3:39 pm Operator: ericp
Sample : F95217-1 Inst : MSVOA1
Misc : ms21675,vg3005,8.14,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:43 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081252.D Vial: 12
Acq On : 25 Jul 2012 4:06 pm Operator: ericp
Sample : F95217-2 Inst : MSVOA1
Misc : ms21675,vg3005,6.91,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:33:33 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1800903	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1281940	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	487974	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.07	65	11638	250.00	ug/Kg	0.03

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	617899	45.85	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 91.70%			
44) 1,2-Dichloroethane-d4	8.96	65	706785	52.23	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 104.46%			
55) Toluene-d8	11.40	98	1698454	46.44	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 92.88%			
77) 4-Bromofluorobenzene	14.63	174	468190	49.35	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 98.70%			

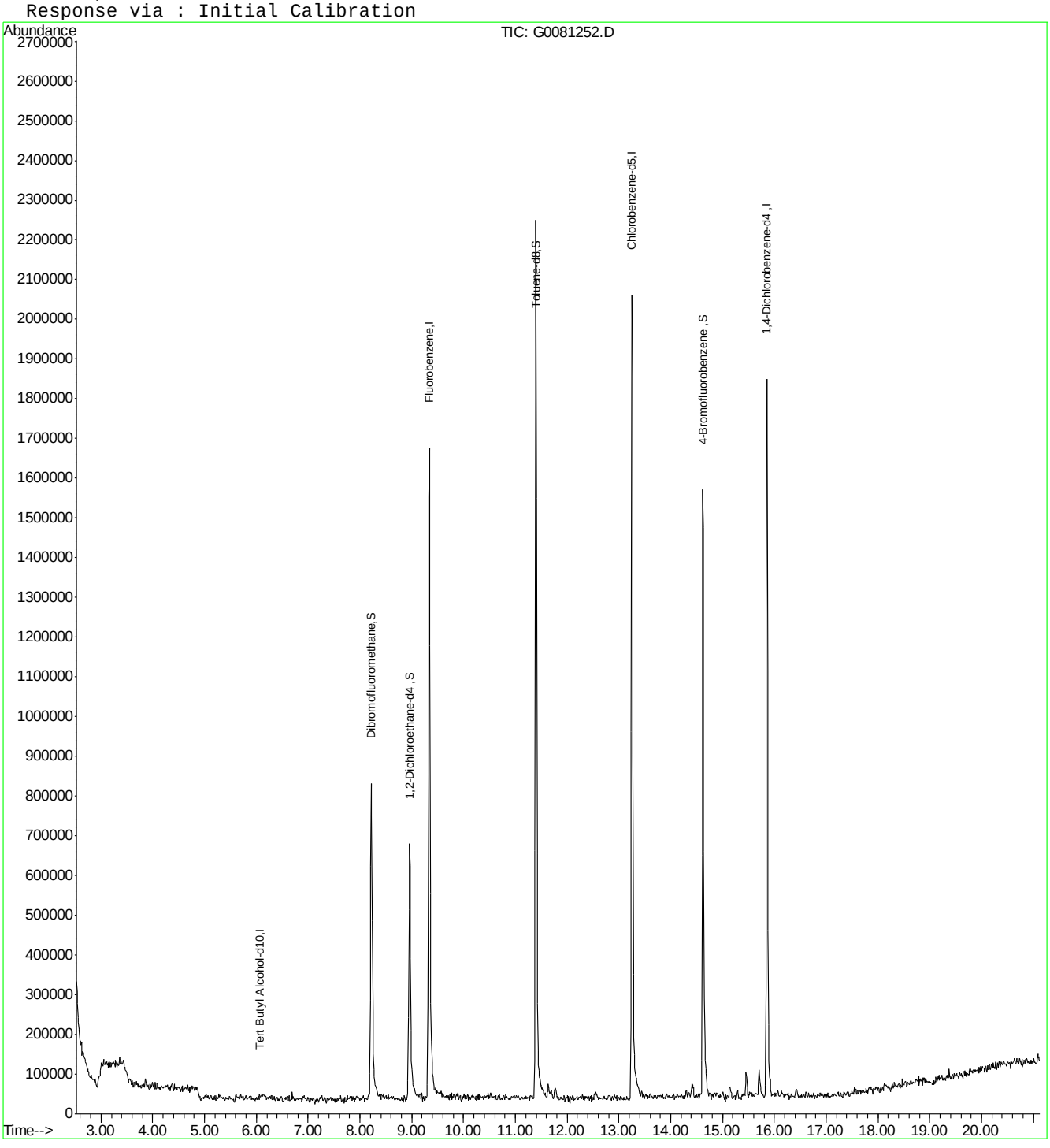
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081252.D Vial: 12
Acq On : 25 Jul 2012 4:06 pm Operator: ericp
Sample : F95217-2 Inst : MSVOA1
Misc : ms21675,vg3005,6.91,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:43 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081253.D Vial: 13
Acq On : 25 Jul 2012 4:33 pm Operator: ericp
Sample : F95217-3 Inst : MSVOA1
Misc : ms21675,vg3005,8.67,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:33:48 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1684918	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.26	117	1221106	50.00	ug/Kg	0.01
76) 1,4-Dichlorobenzene-d4	15.86	152	518642	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	0.00	65	0	0.00	ug/Kg	-6.04

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	574171	45.54	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 91.08%			
44) 1,2-Dichloroethane-d4	8.96	65	651488	51.45	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 102.90%			
55) Toluene-d8	11.40	98	1592833	45.72	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 91.44%			
77) 4-Bromofluorobenzene	14.63	174	486881	48.28	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 96.56%			

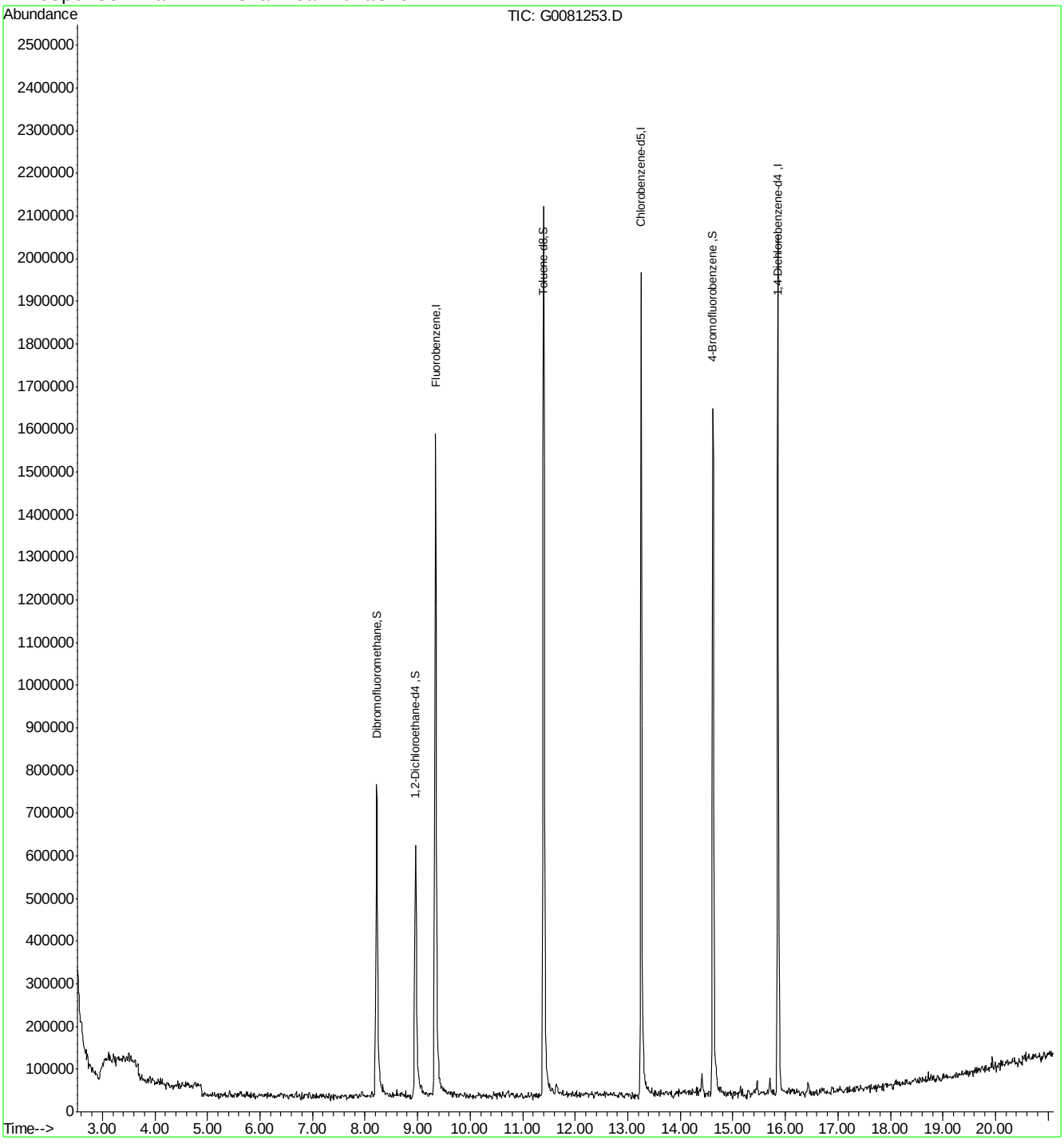
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081253.D Vial: 13
Acq On : 25 Jul 2012 4:33 pm Operator: ericp
Sample : F95217-3 Inst : MSVOA1
Misc : ms21675,vg3005,8.67,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:43 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081254.D Vial: 14
Acq On : 25 Jul 2012 5:00 pm Operator: ericp
Sample : F95217-4 Inst : MSVOA1
Misc : ms21675,vg3005,5.84,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:34:00 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1689328	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1165823	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	449438	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.05	65	144760	250.00	ug/Kg	0.01

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	585947	46.35	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 92.70%			
44) 1,2-Dichloroethane-d4	8.96	65	677957	53.41	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 106.82%			
55) Toluene-d8	11.40	98	1618200	48.65	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 97.30%			
77) 4-Bromofluorobenzene	14.63	174	457517	52.36	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 104.72%			

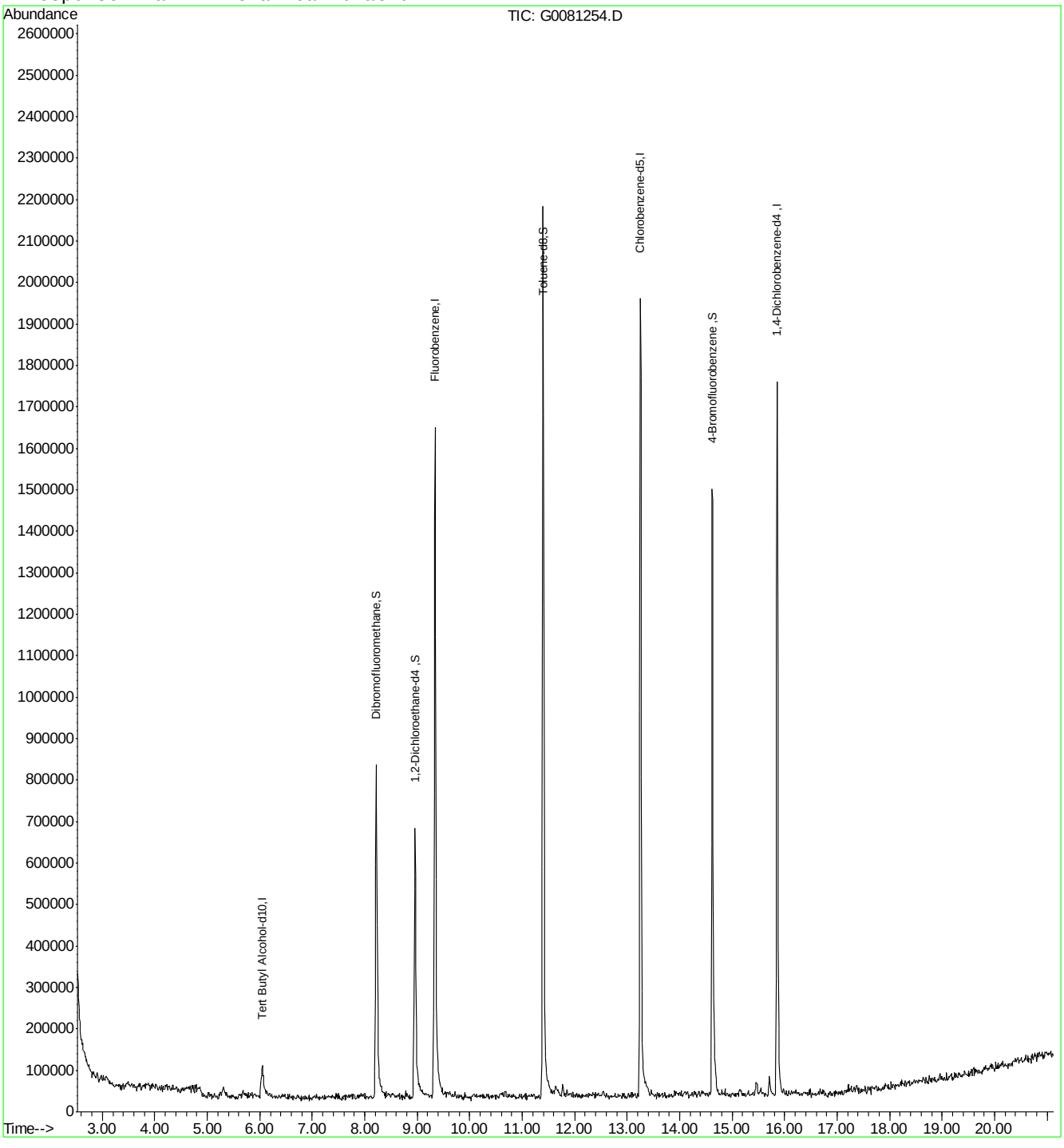
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081254.D Vial: 14
Acq On : 25 Jul 2012 5:00 pm Operator: ericp
Sample : F95217-4 Inst : MSVOA1
Misc : ms21675,vg3005,5.84,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:44 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081255.D Vial: 15
Acq On : 25 Jul 2012 5:27 pm Operator: ericp
Sample : F95217-5 Inst : MSVOA1
Misc : ms21675,vg3005,5.79,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:34:18 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1722874	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.26	117	1219092	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	449728	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.05	65	146050	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	596443	46.26	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 92.52%			
44) 1,2-Dichloroethane-d4	8.96	65	659073	50.91	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 101.82%			
55) Toluene-d8	11.40	98	1664154	47.84	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.68%			
77) 4-Bromofluorobenzene	14.63	174	444580	50.85	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 101.70%			

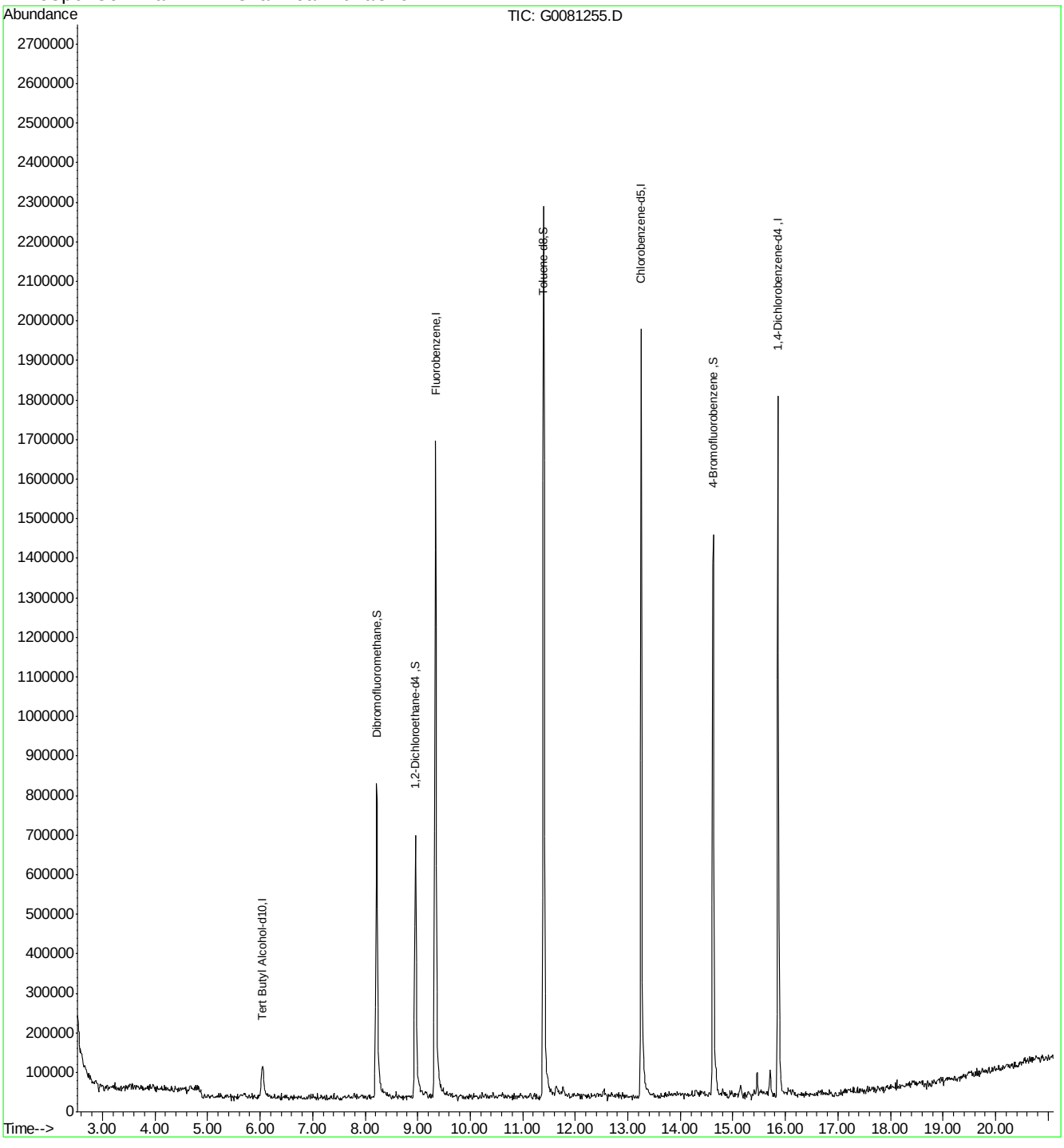
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081255.D Vial: 15
Acq On : 25 Jul 2012 5:27 pm Operator: ericp
Sample : F95217-5 Inst : MSVOA1
Misc : ms21675,vg3005,5.79,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:44 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081256.D Vial: 16
Acq On : 25 Jul 2012 5:54 pm Operator: ericp
Sample : F95217-6 Inst : MSVOA1
Misc : ms21675,vg3005,7.05,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:34:30 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1594213	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1077027	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	421571	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	158757	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	565382	47.39	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 94.78%			
44) 1,2-Dichloroethane-d4	8.96	65	644073	53.76	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 107.52%			
55) Toluene-d8	11.39	98	1518200	49.40	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 98.80%			
77) 4-Bromofluorobenzene	14.62	174	422789	51.58	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 103.16%			

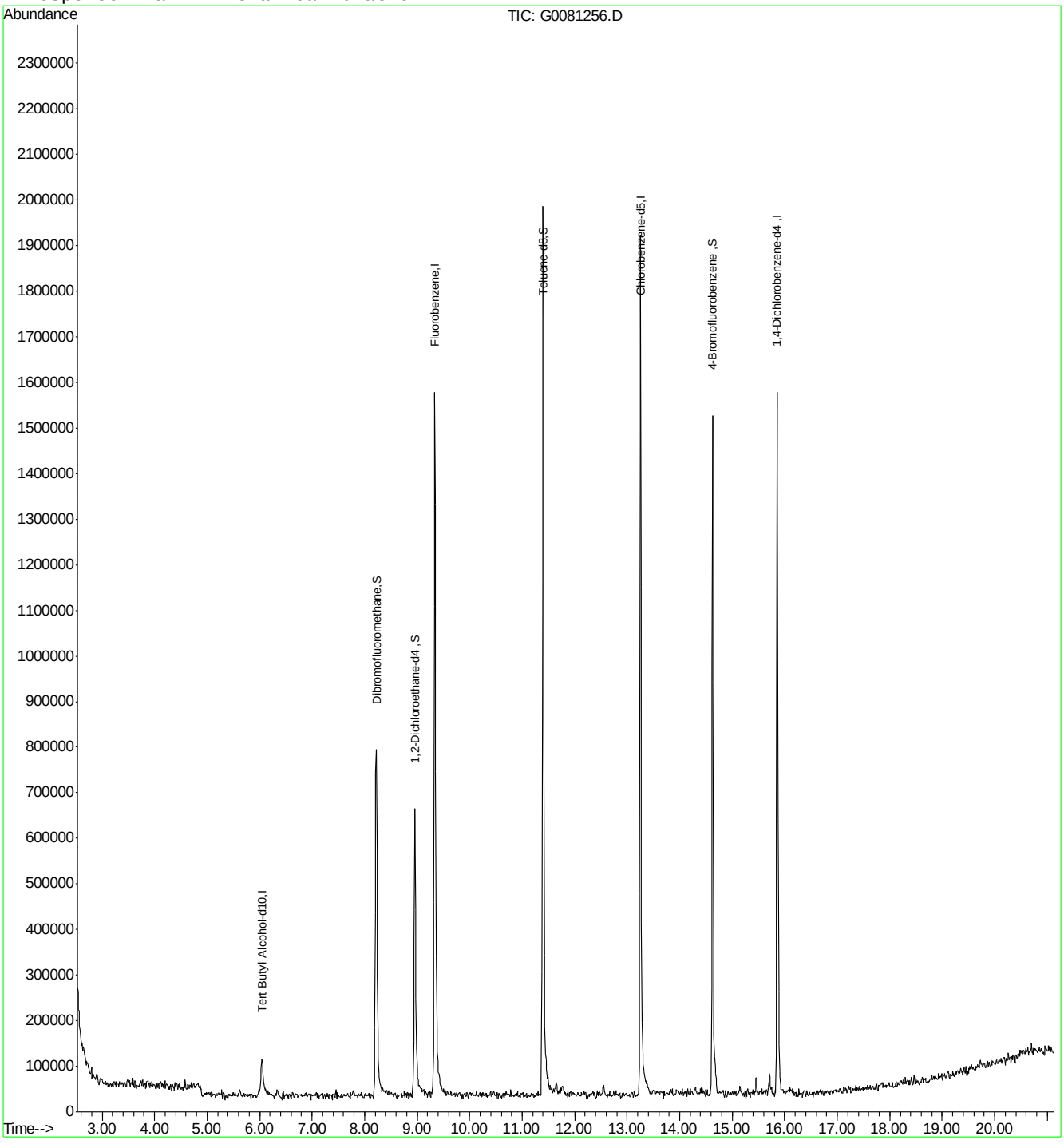
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081256.D Vial: 16
Acq On : 25 Jul 2012 5:54 pm Operator: ericp
Sample : F95217-6 Inst : MSVOA1
Misc : ms21675,vg3005,7.05,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:44 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081250.D Vial: 10
Acq On : 25 Jul 2012 3:12 pm Operator: ericp
Sample : MB Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:33:08 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.35	96	1983910	50.00	ug/Kg	0.01
54) Chlorobenzene-d5	13.27	117	1284790	50.00	ug/Kg	0.02
76) 1,4-Dichlorobenzene-d4	15.88	152	470127	50.00	ug/Kg	0.02
103) Tert Butyl Alcohol-d10	6.04	65	171248	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.23	113	651728	43.90	ug/Kg	0.01
Spiked Amount 50.000	Range 80 - 121		Recovery = 87.80%			
44) 1,2-Dichloroethane-d4	8.97	65	676865	45.40	ug/Kg	0.01
Spiked Amount 50.000	Range 77 - 123		Recovery = 90.80%			
55) Toluene-d8	11.41	98	1875010	51.15	ug/Kg	0.01
Spiked Amount 50.000	Range 71 - 130		Recovery = 102.30%			
77) 4-Bromofluorobenzene	14.64	174	481445	52.67	ug/Kg	0.01
Spiked Amount 50.000	Range 59 - 148		Recovery = 105.34%			

Target Compounds						Qvalue
15) Methylene Chloride	5.62	49	40145	2.51	ug/Kg	90

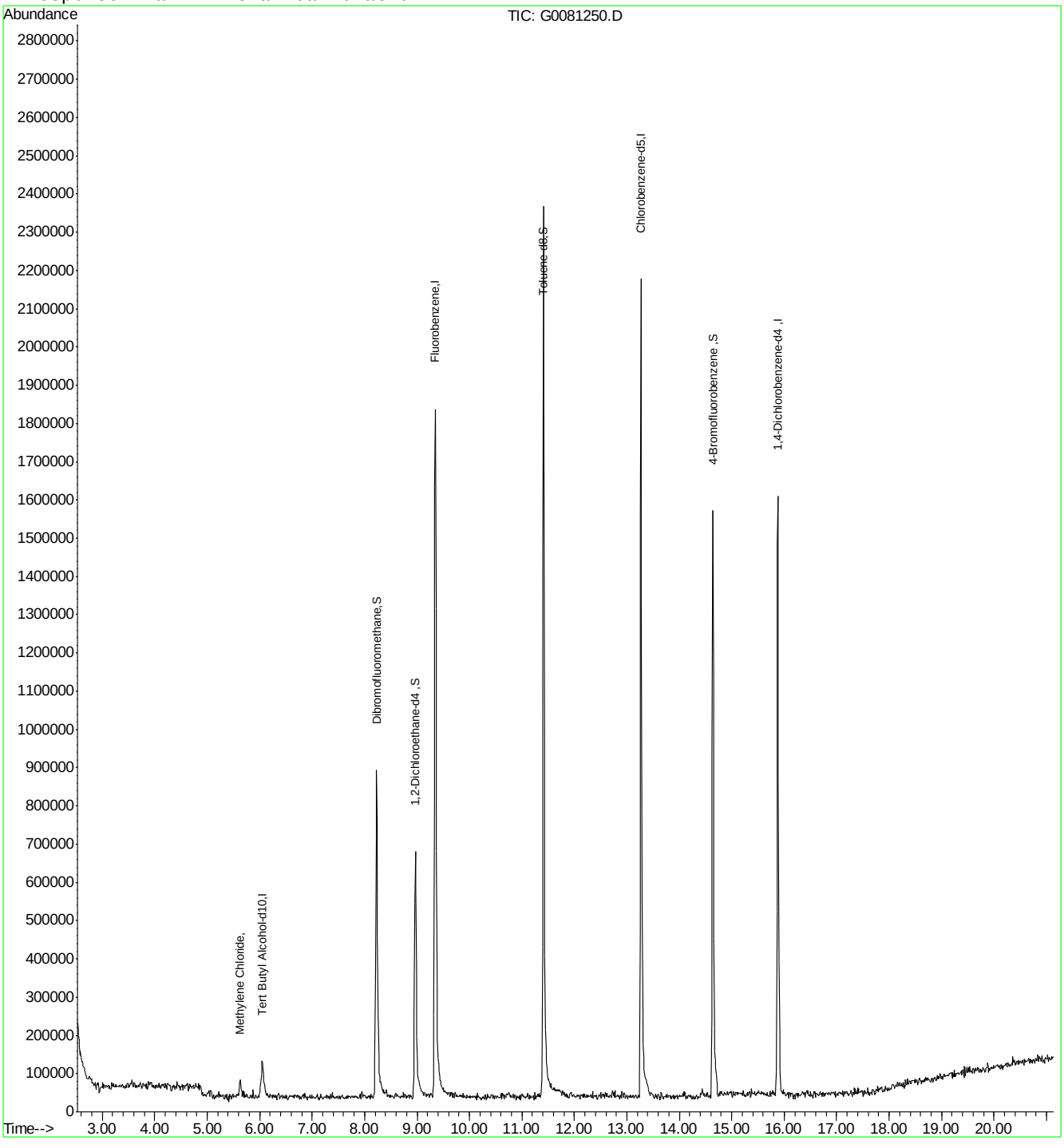
(#) = qualifier out of range (m) = manual integration (+) = signals summed

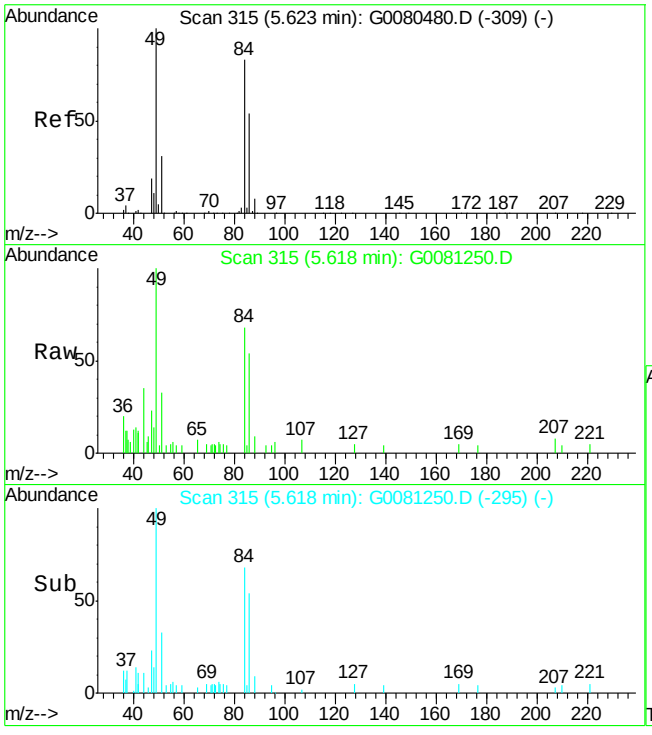
Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081250.D
Acq On : 25 Jul 2012 3:12 pm
Sample : MB
Misc : ms21569,vg3005,5.00,,,,,
MS Integration Params: rteint.p
Quant Time: Jul 26 8:43 2012

Vial: 10
Operator: ericp
Inst : MSVOA1
Multiplr: 1.00
Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration

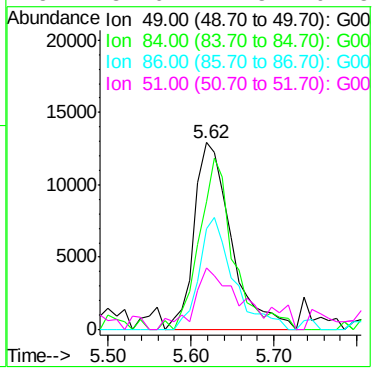




#15
Methylene Chloride
Concen: 2.51 ug/Kg
RT: 5.62 min Scan# 315
Delta R.T. 0.00 min
Lab File: G0081250.D
Acq: 25 Jul 2012 3:12 pm

Tgt Ion: 49 Resp: 40145

Ion	Ratio	Lower	Upper
49	100		
84	68.1	53.5	113.5
86	53.7	22.6	82.6
51	32.9	1.3	61.3



7.2.1

7

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/26/12 14:26

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:31:47 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	2201486	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1641696	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	739258	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.03	65	229094	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	768119	46.63	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 93.26%			
44) 1,2-Dichloroethane-d4	8.96	65	760054	45.94	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 91.88%			
55) Toluene-d8	11.40	98	2216729	47.32	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 94.64%			
77) 4-Bromofluorobenzene	14.63	174	663225	46.14	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 92.28%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	822284	55.71	ug/Kg	93
3) Chloromethane	2.86	50	724889	57.33	ug/Kg	99
4) Vinyl Chloride	3.00	62	679529	54.87	ug/Kg	90
5) Bromomethane	3.49	94	704719	56.70	ug/Kg	99
6) Chloroethane	3.70	64	386208	50.81	ug/Kg	94
7) Trichlorofluoromethane	3.90	101	1306103	54.48	ug/Kg	93
8) Ethyl Ether	4.35	59	492540	49.50	ug/Kg	96
9) 1,2-Dichlorotrifluoroethan	4.66	67	711986	44.14	ug/Kg	91
10) 1,1-Dichloroethene	4.70	61	919792	52.67	ug/Kg	96
11) Freon 113	4.79	101	611979	43.77	ug/Kg	95
12) Carbon Disulfide	4.77	76	1585319	48.55	ug/Kg	93
13) Iodomethane	4.94	142	1640214	50.28	ug/Kg	91
14) Allyl chloride	5.45	41	750313	56.11	ug/Kg	96
15) Methylene Chloride	5.62	49	864876	48.68	ug/Kg	91
16) Acetone	5.69	43	885828	259.07	ug/Kg	96
17) Methyl acetate	5.87	43	2014330	284.92	ug/Kg	93
18) trans-1,2-Dichloroethene	5.88	61	954809	51.52	ug/Kg	90
19) Hexane	6.00	56	403971	45.48	ug/Kg	93
20) Methyl Tert Butyl Ether	6.04	73	2113320	49.61	ug/Kg	89
21) Acetonitrile	6.40	41	526513	533.04	ug/Kg	96
22) Di-isopropyl ether	6.60	45	2029743	51.58	ug/Kg	99
23) Chloroprene	6.78	53	938924	56.76	ug/Kg	96
24) 1,1-Dichloroethane	6.81	63	1260408	52.22	ug/Kg	99
25) Acrylonitrile	6.87	53	776805	271.81	ug/Kg	92
26) ETBE	7.14	59	2129366	49.49	ug/Kg	98
27) Vinyl acetate	7.15	43	3454925m	198.61	ug/Kg	
28) cis-1,2-Dichloroethene	7.59	96	841243	52.96	ug/Kg	89
29) 2,2-Dichloropropane	7.74	77	918508	50.42	ug/Kg	99
30) Bromochloromethane	7.87	128	480515	49.44	ug/Kg	98
31) Cyclohexane	7.90	56	782981	47.77	ug/Kg	89
32) Chloroform	7.96	83	1602760	52.53	ug/Kg	99
33) Ethyl acetate	8.11	43	2544693	268.51	ug/Kg	96
34) Tetrahydrofuran	8.20	42	139461	50.63	ug/Kg	89
36) Carbon Tetrachloride	8.19	117	1043741	51.43	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:31:47 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.28	97	1285689	51.66 ug/Kg	97
38) 2-Butanone	8.37	43	1124085	257.60 ug/Kg	94
39) 1,1-Dichloropropene	8.43	75	895822	51.43 ug/Kg	96
40) Propionitrile	8.79	54	625117	560.97 ug/Kg	88
41) Methacrylonitrile	8.82	41	3095993	599.59 ug/Kg	98
42) Benzene	8.78	78	2447304	50.87 ug/Kg	99
43) TAME	8.92	73	2015865	51.61 ug/Kg	97
45) 1,2-Dichloroethane	9.05	62	1189989	51.39 ug/Kg	97
46) Trichloroethene	9.58	95	811633	54.03 ug/Kg	94
47) Methylcyclohexane	9.58	83	863974	46.29 ug/Kg	99
48) Dibromomethane	10.15	93	547711	51.65 ug/Kg	97
49) 1,2-Dichloropropane	10.28	63	647867	52.95 ug/Kg	94
50) Bromodichloromethane	10.34	83	1060068	53.39 ug/Kg	99
51) Methyl methacrylate	10.52	41	483932	64.38 ug/Kg	93
52) 2-Chloroethyl vinyl ether	11.06	63	1272065	239.35 ug/Kg	91
53) cis-1,3-Dichloropropene	11.16	75	1063961	52.25 ug/Kg	94
56) Toluene	11.46	91	2817016	50.88 ug/Kg	97
57) 2-Nitropropane	11.73	41	683004	237.43 ug/Kg	98
58) 4-Methyl-2-pentanone	11.89	43	2405600	261.54 ug/Kg	97
59) trans-1,3-Dichloropropene	11.96	75	970378	56.25 ug/Kg	84
60) Tetrachloroethene	11.95	166	924998	56.11 ug/Kg	94
61) Ethyl methacrylate	12.12	69	666283	51.23 ug/Kg	89
62) 1,1,2-Trichloroethane	12.16	83	529437	52.33 ug/Kg	95
63) Dibromochloromethane	12.37	129	885958	54.95 ug/Kg	96
64) 1,3-Dichloropropane	12.48	76	983015	50.30 ug/Kg	97
65) 1,2-Dibromoethane	12.67	107	697410	52.50 ug/Kg	99
66) 2-hexanone	12.87	43	1578482	261.74 ug/Kg	98
67) 1-Chlorohexane	13.22	91	781309	49.75 ug/Kg	94
68) Ethylbenzene	13.29	91	3043952	52.18 ug/Kg	99
69) Chlorobenzene	13.28	112	1918996	52.61 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.34	131	779113	52.55 ug/Kg	96
71) m,p-Xylene	13.45	91	4842739	108.94 ug/Kg	97
72) o-Xylene	13.94	91	2566086	51.91 ug/Kg	97
73) Styrene	14.00	104	1706467	53.03 ug/Kg	93
74) Bromoform	14.06	173	465478	48.40 ug/Kg	97
75) Isopropylbenzene	14.29	105	2893751	59.23 ug/Kg	100
78) cis-1,4-Dichloro-2-butene	14.67	53	171750	52.31 ug/Kg	84
79) n-Propylbenzene	14.75	91	3088281	50.30 ug/Kg	99
80) Bromobenzene	14.76	156	810826	47.96 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	14.81	83	672309	48.58 ug/Kg	95
82) 1,3,5-Trimethylbenzene	14.95	105	2364402	47.02 ug/Kg	96
83) 2-Chlorotoluene	14.94	91	2336929	48.21 ug/Kg	98
84) trans-1,4-Dichloro-2-Buten	15.01	53	141367	43.92 ug/Kg	89
85) 1,2,3-Trichloropropane	14.99	110	216089	48.45 ug/Kg	91
86) Cyclohexanone	15.05	55	72484	215.50 ug/Kg	88
87) 4-Chlorotoluene	15.13	91	2173229	52.56 ug/Kg	96
88) tert-Butylbenzene	15.32	91	1531307	49.90 ug/Kg	97
89) 1,2,4-Trimethylbenzene	15.40	105	2393780	48.80 ug/Kg	97
90) Pentachloroethane	15.37	167	464135	56.33 ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:31:47 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

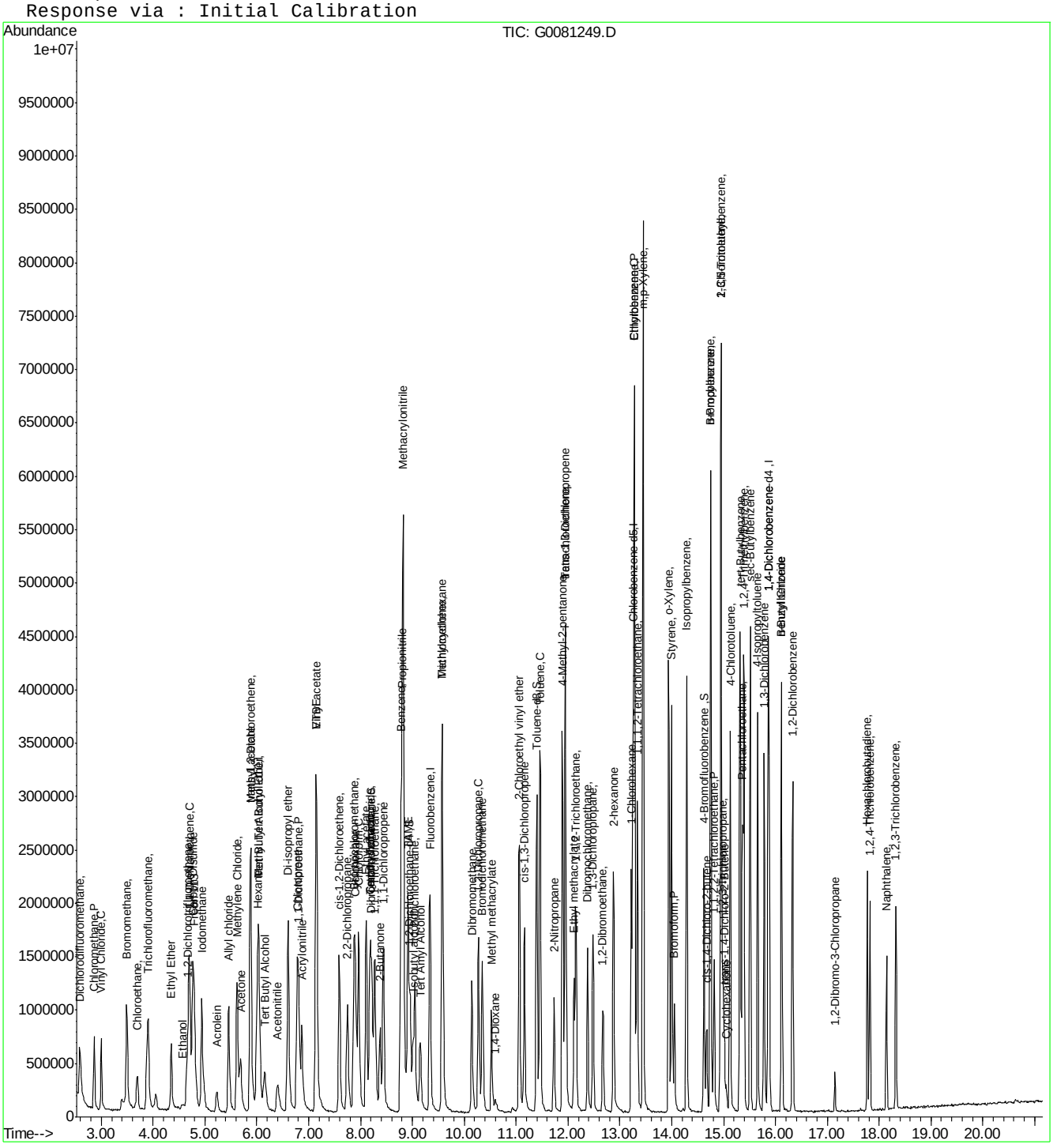
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	2852373	51.43	ug/Kg	98
92)	4-Isopropyltoluene	15.66	119	2234240	52.53	ug/Kg	99
93)	1,3-Dichlorobenzene	15.78	146	1291246	50.05	ug/Kg	94
94)	1,4-Dichlorobenzene	15.88	146	1280962	49.39	ug/Kg	97
95)	n-Butylbenzene	16.11	92	1004949	49.59	ug/Kg	99
96)	Benzyl Chloride	16.12	126	135657	40.04	ug/Kg#	73
97)	1,2-Dichlorobenzene	16.33	146	1201473	50.07	ug/Kg	97
98)	1,2-Dibromo-3-Chloropropan	17.15	75	79879	48.02	ug/Kg	85
99)	Hexachlorobutadiene	17.77	225	352457	48.59	ug/Kg	87
100)	1,2,4-Trichlorobenzene	17.82	180	531136	46.74	ug/Kg	97
101)	Naphthalene	18.14	128	934005	42.05	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.32	180	467095	50.23	ug/Kg	96
104)	Ethanol	4.56	45	65263	1117.94	ug/Kg	90
105)	Acrolein	5.22	56	246105	271.92	ug/Kg	98
106)	Tert Butyl Alcohol	6.15	59	636643	515.74	ug/Kg	92
107)	Isobutyl alcohol	9.01	42	206514	1042.58	ug/Kg	92
108)	Tert Amyl Alcohol	9.15	59	441139	514.37	ug/Kg	88
109)	1,4-Dioxane	10.60	88	125320	1081.71	ug/Kg	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:42 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

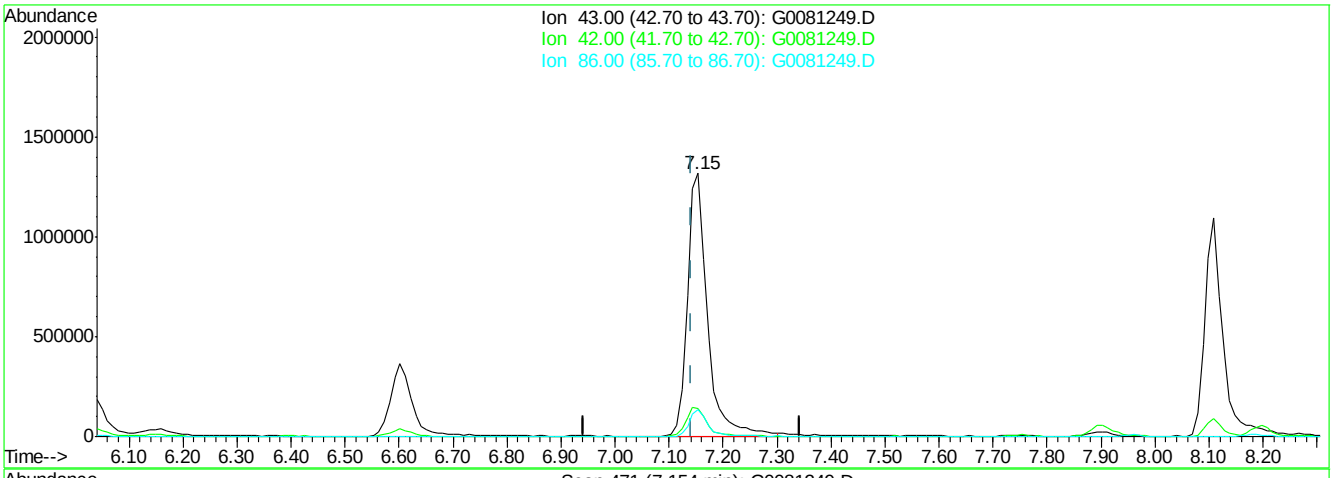
Sample Number:	VG3005-BS	**Method:**	SW846 8260B
Lab FileID:	G0081249.D	**Analyst approved:**	07/26/12 11:19 Eric Parrish
Injection Time:	07/25/12 14:45	**Supervisor approved:**	07/26/12 14:26 Karen Watson

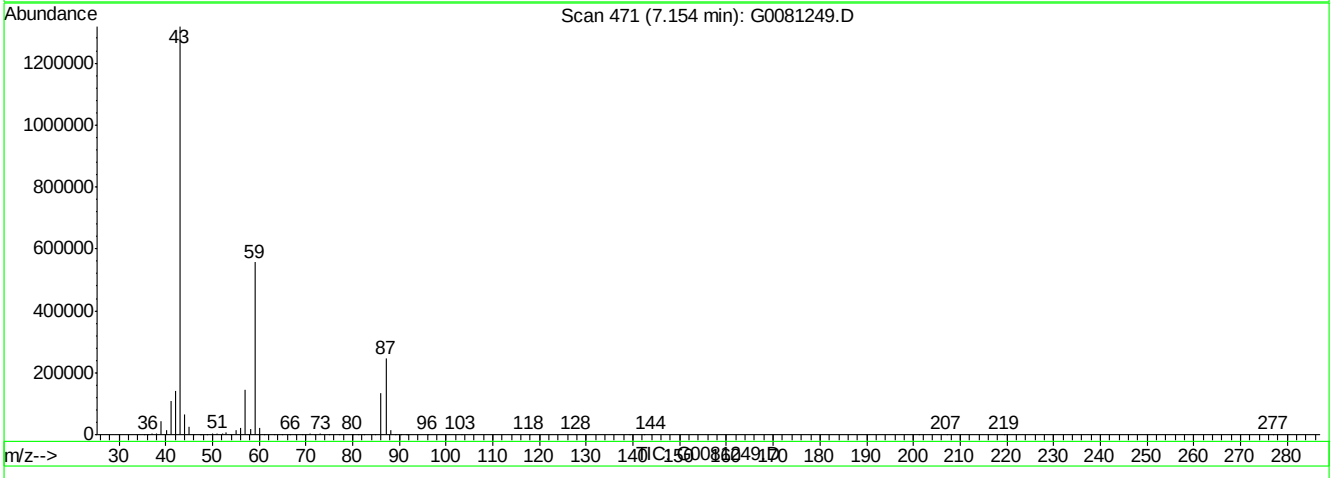
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Acetate	108-05-4		7.15	Poor instrument integration

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:41 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Multiple Level Calibration





(27) Vinyl acetate

7.15min (+0.011) 194.91ug/Kg

response 3390431

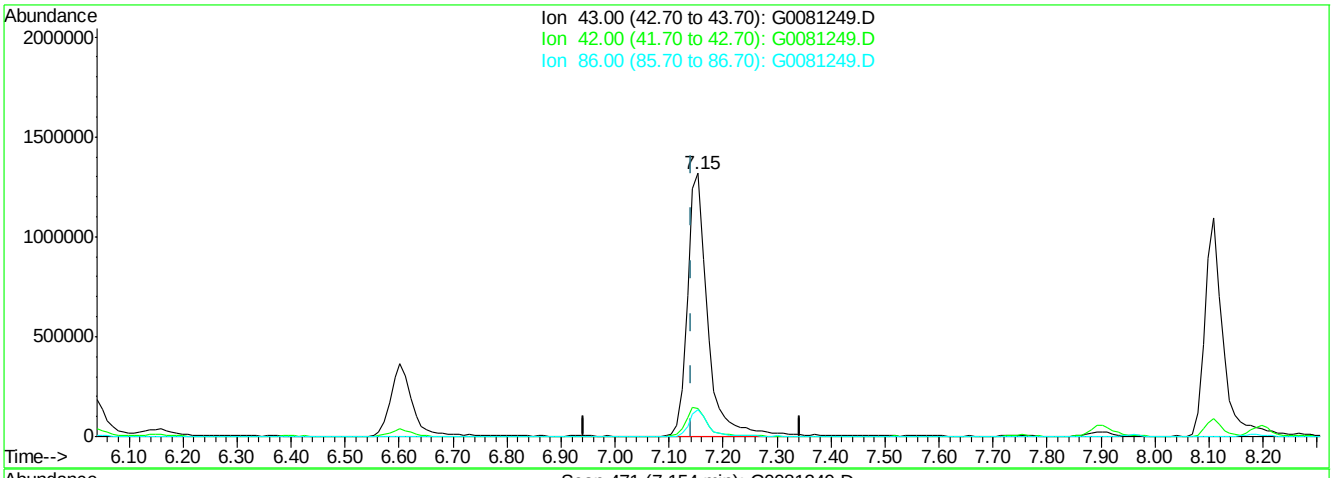
Ion	Exp%	Act%
43.00	100	100
42.00	12.00	10.78
86.00	8.60	10.17
0.00	0.00	0.00

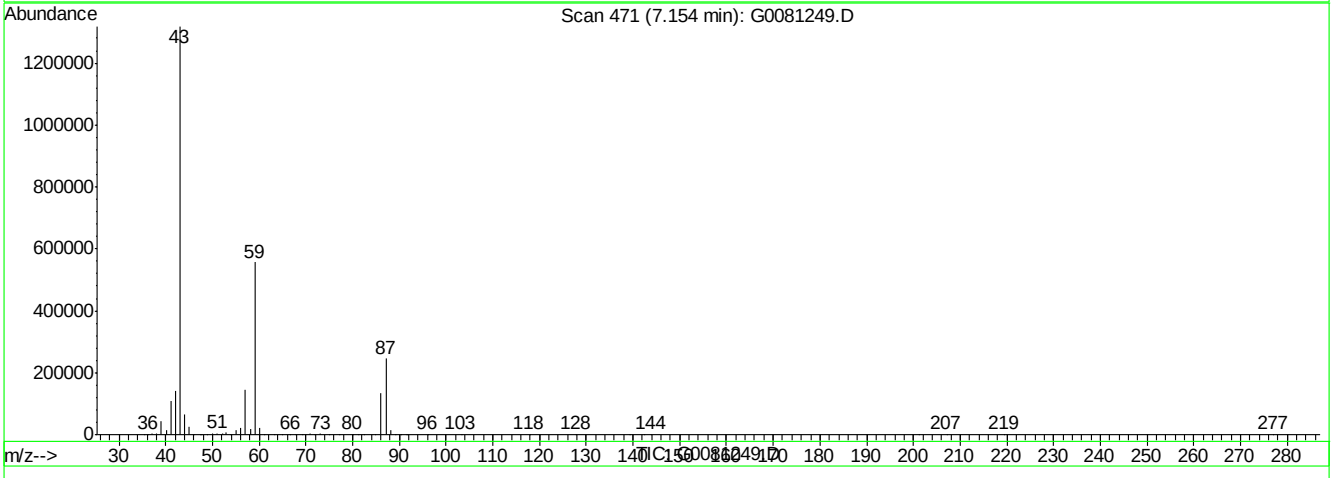
G0081249.D 072512APP9-G.M Thu Jul 26 08:32:24 2012

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081249.D Vial: 9
Acq On : 25 Jul 2012 2:45 pm Operator: ericp
Sample : BS Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:42 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Multiple Level Calibration





(27) Vinyl acetate

7.15min (+0.011) 198.61ug/Kg m

response 3454925

Ion	Exp%	Act%
43.00	100	100
42.00	12.00	10.85
86.00	8.60	10.16
0.00	0.00	0.00

G0081249.D 072512APP9-G.M Thu Jul 26 08:32:33 2012

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081259.D Vial: 19
Acq On : 25 Jul 2012 7:15 pm Operator: ericp
Sample : F95217-1MS Inst : MSVOA1
Misc : ms21675,vg3005,5.01,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:40:40 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1767725	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1335381	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	575912	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	165900	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	642085	48.54	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 97.08%			
44) 1,2-Dichloroethane-d4	8.96	65	646038	48.63	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 97.26%			
55) Toluene-d8	11.40	98	1742792	45.74	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 91.48%			
77) 4-Bromofluorobenzene	14.62	174	532307	47.54	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 95.08%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	568918	48.00	ug/Kg	89
3) Chloromethane	2.86	50	485572	47.83	ug/Kg	96
4) Vinyl Chloride	3.00	62	445927	44.84	ug/Kg	95
5) Bromomethane	3.49	94	449420	45.03	ug/Kg	93
6) Chloroethane	3.70	64	251062	41.13	ug/Kg	90
7) Trichlorofluoromethane	3.89	101	912706	47.41	ug/Kg	94
8) Ethyl Ether	4.35	59	354832	44.41	ug/Kg	94
9) 1,2-Dichlorotrifluoroethan	4.66	67	502518	38.80	ug/Kg	95
10) 1,1-Dichloroethene	4.69	61	609792	43.48	ug/Kg	96
11) Freon 113	4.79	101	451473	40.21	ug/Kg	96
12) Carbon Disulfide	4.76	76	966563	36.86	ug/Kg	100
13) Iodomethane	4.94	142	1064059	40.62	ug/Kg	97
14) Allyl chloride	5.46	41	482752	44.96	ug/Kg	94
15) Methylene Chloride	5.62	49	613097	42.98	ug/Kg	97
16) Acetone	5.69	43	547887	199.56	ug/Kg	93
17) Methyl acetate	5.87	43	1208778	212.93	ug/Kg	97
18) trans-1,2-Dichloroethene	5.88	61	627398	42.16	ug/Kg	90
19) Hexane	6.00	56	290523	40.73	ug/Kg	96
20) Methyl Tert Butyl Ether	6.03	73	1477698	43.20	ug/Kg	97
21) Acetonitrile	6.40	41	348945	439.96	ug/Kg	95
22) Di-isopropyl ether	6.60	45	1467954	46.46	ug/Kg	94
23) Chloroprene	6.78	53	602108	45.33	ug/Kg	97
24) 1,1-Dichloroethane	6.81	63	830347	42.85	ug/Kg	94
25) Acrylonitrile	6.87	53	513390	223.72	ug/Kg	97
26) ETBE	7.14	59	1163709	33.68	ug/Kg	97
27) Vinyl acetate	7.15	43	2944602	210.81	ug/Kg	98
28) cis-1,2-Dichloroethene	7.59	96	522026	40.93	ug/Kg	93
29) 2,2-Dichloropropane	7.74	77	577955	39.51	ug/Kg	93
30) Bromochloromethane	7.87	128	318423	40.80	ug/Kg	97
31) Cyclohexane	7.90	56	556363	42.28	ug/Kg	92
32) Chloroform	7.96	83	1081606	44.14	ug/Kg	98
33) Ethyl acetate	8.11	43	1204375	158.27	ug/Kg	94
34) Tetrahydrofuran	8.20	42	103460	46.78	ug/Kg	96
36) Carbon Tetrachloride	8.19	117	712858	43.75	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081259.D Vial: 19
Acq On : 25 Jul 2012 7:15 pm Operator: ericp
Sample : F95217-1MS Inst : MSVOA1
Misc : ms21675,vg3005,5.01,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:40:40 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	870955	43.59 ug/Kg	97
38) 2-Butanone	8.37	43	511990	146.12 ug/Kg	90
39) 1,1-Dichloropropene	8.44	75	598337	42.78 ug/Kg	96
40) Propionitrile	8.79	54	370299	413.84 ug/Kg	98
41) Methacrylonitrile	8.82	41	2061620	497.24 ug/Kg	99
42) Benzene	8.78	78	1665450	43.12 ug/Kg	96
43) TAME	8.92	73	868329	27.69 ug/Kg	99
45) 1,2-Dichloroethane	9.04	62	859081	46.21 ug/Kg	96
46) Trichloroethene	9.58	95	530556	43.99 ug/Kg	94
47) Methylcyclohexane	9.58	83	626566	41.80 ug/Kg	97
48) Dibromomethane	10.15	93	377929	44.38 ug/Kg	95
49) 1,2-Dichloropropane	10.27	63	424166	43.18 ug/Kg	96
50) Bromodichloromethane	10.34	83	705448	44.25 ug/Kg	93
51) Methyl methacrylate	10.52	41	234711	38.89 ug/Kg	98
53) cis-1,3-Dichloropropene	11.16	75	687448	42.04 ug/Kg	98
56) Toluene	11.46	91	1916086	42.55 ug/Kg	100
57) 2-Nitropropane	11.73	41	437644	187.04 ug/Kg	97
58) 4-Methyl-2-pentanone	11.89	43	105726	14.13 ug/Kg	95
59) trans-1,3-Dichloropropene	11.95	75	624535	44.50 ug/Kg	93
60) Tetrachloroethene	11.95	166	616053	45.94 ug/Kg	97
61) Ethyl methacrylate	12.12	69	57236	5.41 ug/Kg	88
62) 1,1,2-Trichloroethane	12.15	83	359103	43.64 ug/Kg	95
63) Dibromochloromethane	12.37	129	576130	43.93 ug/Kg	95
64) 1,3-Dichloropropane	12.48	76	678644	42.69 ug/Kg	97
65) 1,2-Dibromoethane	12.67	107	481325	44.54 ug/Kg	98
67) 1-Chlorohexane	13.22	91	591863	46.33 ug/Kg	97
68) Ethylbenzene	13.29	91	2286201	48.18 ug/Kg	96
69) Chlorobenzene	13.27	112	1361943	45.91 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.34	131	544539	45.15 ug/Kg	96
71) m,p-Xylene	13.45	91	3737742	103.37 ug/Kg	99
72) o-Xylene	13.94	91	1930896	48.02 ug/Kg	99
73) Styrene	14.00	104	1190420	45.48 ug/Kg	95
74) Bromoform	14.06	173	328529	41.99 ug/Kg	94
75) Isopropylbenzene	14.28	105	2041053	51.36 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.67	53	110722	43.28 ug/Kg	90
79) n-Propylbenzene	14.75	91	2282595	47.72 ug/Kg	99
80) Bromobenzene	14.76	156	569897	43.27 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	14.81	83	474333	43.99 ug/Kg	94
82) 1,3,5-Trimethylbenzene	14.95	105	1871822	47.79 ug/Kg	98
83) 2-Chlorotoluene	14.94	91	1659335	43.94 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	15.01	53	91784	36.60 ug/Kg	96
85) 1,2,3-Trichloropropane	14.98	110	152838	43.99 ug/Kg	98
87) 4-Chlorotoluene	15.13	91	1426522	44.28 ug/Kg	100
88) tert-Butylbenzene	15.32	91	1096288	45.86 ug/Kg	98
89) 1,2,4-Trimethylbenzene	15.40	105	1820571	47.65 ug/Kg	99
90) Pentachloroethane	15.37	167	294417	45.87 ug/Kg	95
91) sec-Butylbenzene	15.51	105	2109290	48.82 ug/Kg	99
92) 4-Isopropyltoluene	15.66	119	1724091	52.03 ug/Kg	99
93) 1,3-Dichlorobenzene	15.78	146	902456	44.90 ug/Kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081259.D Vial: 19
Acq On : 25 Jul 2012 7:15 pm Operator: ericp
Sample : F95217-1MS Inst : MSVOA1
Misc : ms21675,vg3005,5.01,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:40:40 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

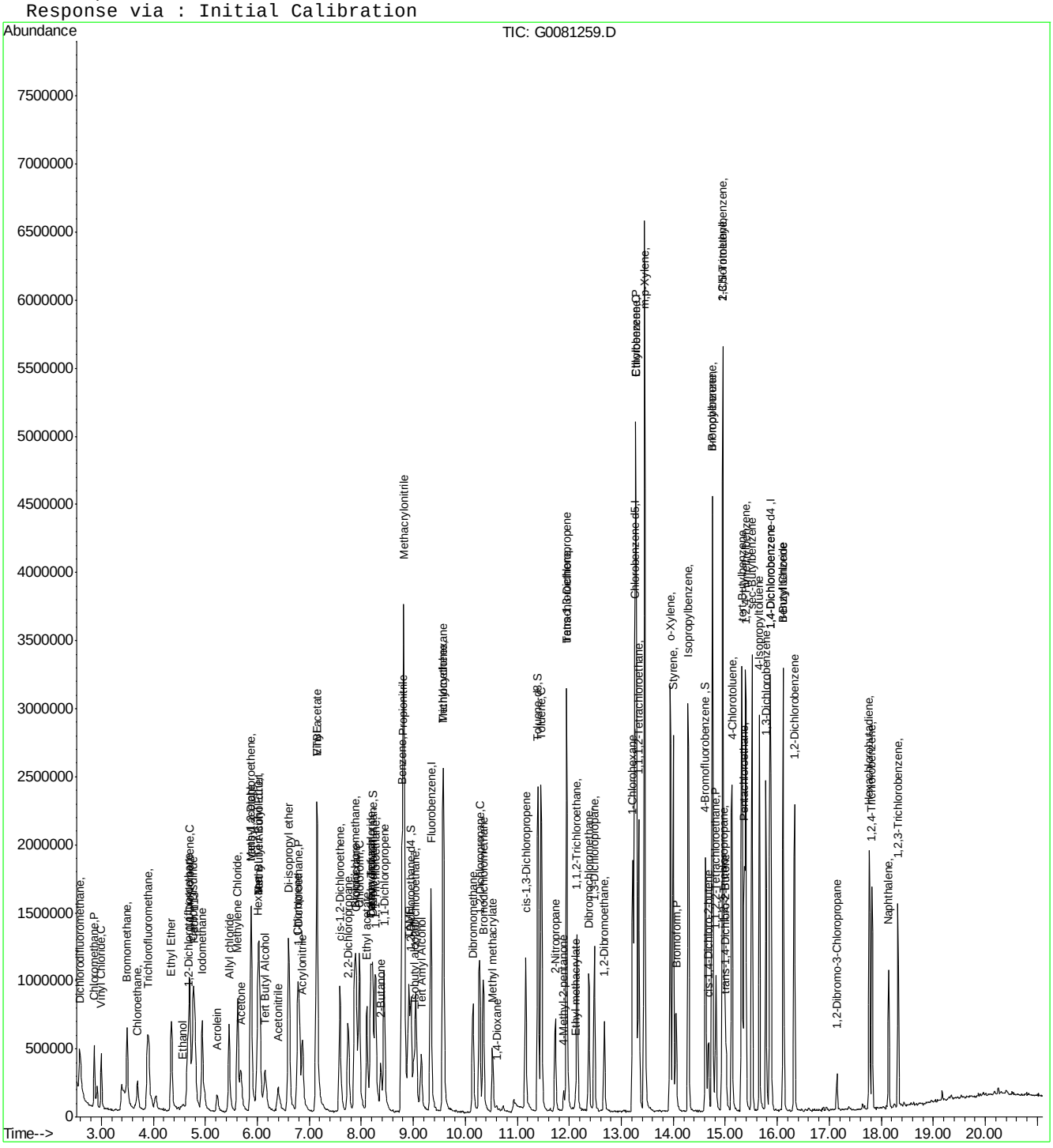
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	1,4-Dichlorobenzene	15.88	146	897009	44.40	ug/Kg	97
95)	n-Butylbenzene	16.11	92	804252	50.94	ug/Kg	94
96)	Benzyl Chloride	16.12	126	70256	26.62	ug/Kg#	44
97)	1,2-Dichlorobenzene	16.33	146	868321	46.45	ug/Kg	96
98)	1,2-Dibromo-3-Chloropropan	17.15	75	59436	45.87	ug/Kg	88
99)	Hexachlorobutadiene	17.78	225	295965	52.38	ug/Kg	97
100)	1,2,4-Trichlorobenzene	17.83	180	424854	47.99	ug/Kg	91
101)	Naphthalene	18.14	128	642056	37.11	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.32	180	375183	51.79	ug/Kg	96
104)	Ethanol	4.55	45	63216	1495.36	ug/Kg	94
105)	Acrolein	5.23	56	164022	250.26	ug/Kg	97
106)	Tert Butyl Alcohol	6.15	59	499741	559.04	ug/Kg	93
107)	Isobutyl alcohol	9.01	42	124303	866.58	ug/Kg	89
108)	Tert Amyl Alcohol	9.15	59	277242	446.40	ug/Kg	97
109)	1,4-Dioxane	10.60	88	45288	539.81	ug/Kg	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081259.D Vial: 19
Acq On : 25 Jul 2012 7:15 pm Operator: ericp
Sample : F95217-1MS Inst : MSVOA1
Misc : ms21675,vg3005,5.01,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:50 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081260.D Vial: 20
Acq On : 25 Jul 2012 7:43 pm Operator: ericp
Sample : F95217-1MSD Inst : MSVOA1
Misc : ms21675,vg3005,5.02,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:41:05 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	1860850	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1400796	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	573058	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	182292	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	668696	48.02	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 96.04%			
44) 1,2-Dichloroethane-d4	8.96	65	677483	48.45	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 96.90%			
55) Toluene-d8	11.40	98	1812705	45.35	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 90.70%			
77) 4-Bromofluorobenzene	14.62	174	536166	48.12	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 96.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	541261	43.38	ug/Kg	96
3) Chloromethane	2.86	50	468741	43.86	ug/Kg	99
4) Vinyl Chloride	3.00	62	436931	41.74	ug/Kg	94
5) Bromomethane	3.49	94	423128	40.28	ug/Kg	96
6) Chloroethane	3.70	64	241639	37.61	ug/Kg	92
7) Trichlorofluoromethane	3.89	101	878289	43.34	ug/Kg	98
8) Ethyl Ether	4.35	59	340260	40.45	ug/Kg	92
9) 1,2-Dichlorotrifluoroethan	4.66	67	489138	35.87	ug/Kg	97
10) 1,1-Dichloroethene	4.69	61	608384	41.21	ug/Kg	95
11) Freon 113	4.78	101	444784	37.63	ug/Kg	95
12) Carbon Disulfide	4.77	76	969014	35.11	ug/Kg	96
13) Iodomethane	4.94	142	1041619	37.78	ug/Kg	94
14) Allyl chloride	5.46	41	484882	42.90	ug/Kg	93
15) Methylene Chloride	5.62	49	626174	41.70	ug/Kg	96
16) Acetone	5.69	43	544033	188.24	ug/Kg	99
17) Methyl acetate	5.87	43	1184931	198.29	ug/Kg	96
18) trans-1,2-Dichloroethene	5.88	61	611485	39.04	ug/Kg	89
19) Hexane	6.00	56	277744	36.99	ug/Kg	95
20) Methyl Tert Butyl Ether	6.03	73	1406198	39.05	ug/Kg	91
21) Acetonitrile	6.40	41	337252	403.93	ug/Kg	92
22) Di-isopropyl ether	6.60	45	1400338	42.10	ug/Kg	94
23) Chloroprene	6.78	53	588038	42.05	ug/Kg	98
24) 1,1-Dichloroethane	6.81	63	804814	39.45	ug/Kg	96
25) Acrylonitrile	6.87	53	500055	207.01	ug/Kg	89
26) ETBE	7.14	59	1101117	30.28	ug/Kg	97
27) Vinyl acetate	7.15	43	2633037	179.07	ug/Kg	97
28) cis-1,2-Dichloroethene	7.59	96	510314	38.01	ug/Kg	93
29) 2,2-Dichloropropane	7.74	77	552974	35.91	ug/Kg	99
30) Bromochloromethane	7.87	128	321865	39.18	ug/Kg	94
31) Cyclohexane	7.90	56	538750	38.89	ug/Kg	92
32) Chloroform	7.96	83	1027973	39.86	ug/Kg	95
33) Ethyl acetate	8.11	43	1252712	156.38	ug/Kg	95
34) Tetrahydrofuran	8.19	42	98635	42.36	ug/Kg	87
36) Carbon Tetrachloride	8.18	117	676452	39.44	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081260.D Vial: 20
Acq On : 25 Jul 2012 7:43 pm Operator: ericp
Sample : F95217-1MSD Inst : MSVOA1
Misc : ms21675,vg3005,5.02,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:41:05 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	832869	39.59 ug/Kg	98
38) 2-Butanone	8.37	43	557411	151.12 ug/Kg	97
39) 1,1-Dichloropropene	8.43	75	584169	39.67 ug/Kg	98
40) Propionitrile	8.78	54	366764	389.38 ug/Kg	100
41) Methacrylonitrile	8.82	41	1999499	458.12 ug/Kg	98
42) Benzene	8.78	78	1609570	39.58 ug/Kg	100
43) TAME	8.92	73	861098	26.08 ug/Kg	97
45) 1,2-Dichloroethane	9.04	62	821597	41.98 ug/Kg	97
46) Trichloroethene	9.58	95	519531	40.92 ug/Kg	97
47) Methylcyclohexane	9.58	83	599133	37.97 ug/Kg	96
48) Dibromomethane	10.15	93	358174	39.96 ug/Kg	93
49) 1,2-Dichloropropane	10.28	63	424408	41.04 ug/Kg	93
50) Bromodichloromethane	10.34	83	669404	39.89 ug/Kg	99
51) Methyl methacrylate	10.52	41	234508	36.91 ug/Kg	97
53) cis-1,3-Dichloropropene	11.16	75	632174	36.73 ug/Kg	98
56) Toluene	11.46	91	1801906	38.15 ug/Kg	96
57) 2-Nitropropane	11.73	41	408716	166.52 ug/Kg	98
58) 4-Methyl-2-pentanone	11.89	43	652095	83.09 ug/Kg	97
59) trans-1,3-Dichloropropene	11.95	75	577483	39.23 ug/Kg	95
60) Tetrachloroethene	11.95	166	581646	41.35 ug/Kg	97
61) Ethyl methacrylate	12.12	69	220908	19.91 ug/Kg	93
62) 1,1,2-Trichloroethane	12.15	83	338576	39.22 ug/Kg	94
63) Dibromochloromethane	12.37	129	553544	40.24 ug/Kg	92
64) 1,3-Dichloropropane	12.48	76	637110	38.21 ug/Kg	91
65) 1,2-Dibromoethane	12.67	107	449188	39.63 ug/Kg	99
67) 1-Chlorohexane	13.22	91	550686	41.09 ug/Kg	94
68) Ethylbenzene	13.29	91	2090601	42.00 ug/Kg	99
69) Chlorobenzene	13.27	112	1246130	40.04 ug/Kg	98
70) 1,1,1,2-Tetrachloroethane	13.34	131	511302	40.42 ug/Kg	95
71) m,p-Xylene	13.45	91	3408917	89.87 ug/Kg	99
72) o-Xylene	13.94	91	1693335	40.14 ug/Kg	98
73) Styrene	14.00	104	1046471	38.11 ug/Kg	97
74) Bromoform	14.06	173	282968	34.48 ug/Kg	96
75) Isopropylbenzene	14.28	105	1850543	44.39 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.67	53	104634	41.11 ug/Kg	90
79) n-Propylbenzene	14.75	91	2054696	43.17 ug/Kg	97
80) Bromobenzene	14.76	156	523803	39.97 ug/Kg	88
81) 1,1,2,2-Tetrachloroethane	14.81	83	437133	40.75 ug/Kg	99
82) 1,3,5-Trimethylbenzene	14.95	105	1681260	43.14 ug/Kg	98
83) 2-Chlorotoluene	14.94	91	1481916	39.44 ug/Kg	98
84) trans-1,4-Dichloro-2-Buten	15.01	53	84777	33.97 ug/Kg	92
85) 1,2,3-Trichloropropane	14.99	110	144476	41.79 ug/Kg	89
87) 4-Chlorotoluene	15.13	91	1263660	39.42 ug/Kg	97
88) tert-Butylbenzene	15.32	91	994201	41.80 ug/Kg	97
89) 1,2,4-Trimethylbenzene	15.39	105	1592763	41.89 ug/Kg	95
90) Pentachloroethane	15.37	167	254719	39.88 ug/Kg	95
91) sec-Butylbenzene	15.51	105	1856136	43.18 ug/Kg	97
92) 4-Isopropyltoluene	15.65	119	1457571	44.20 ug/Kg	97
93) 1,3-Dichlorobenzene	15.78	146	783089	39.15 ug/Kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081260.D Vial: 20
Acq On : 25 Jul 2012 7:43 pm Operator: ericp
Sample : F95217-1MSD Inst : MSVOA1
Misc : ms21675,vg3005,5.02,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 08:41:05 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

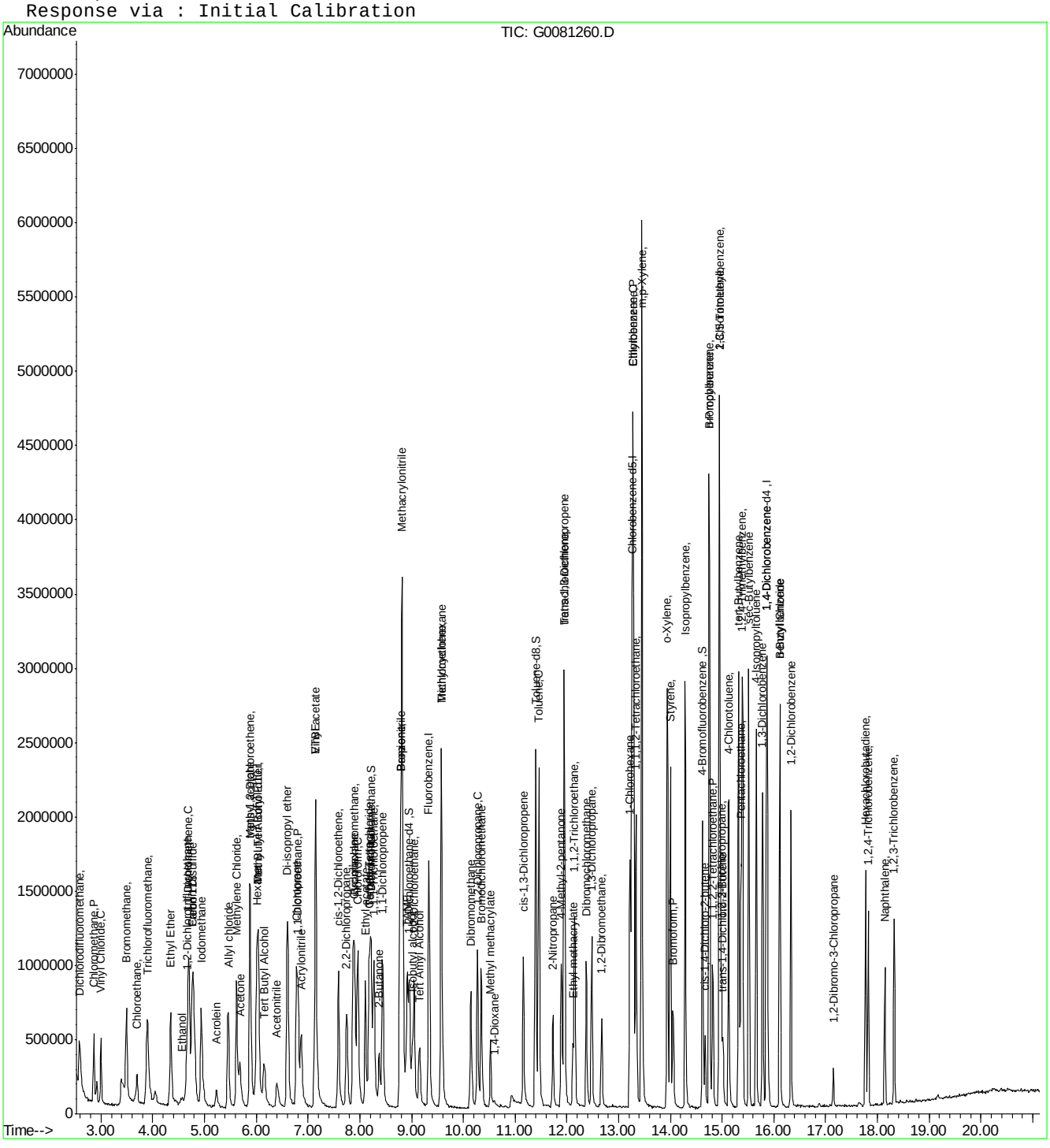
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	1,4-Dichlorobenzene	15.87	146	770419	38.32	ug/Kg	95
95)	n-Butylbenzene	16.11	92	668450	42.55	ug/Kg	99
96)	Benzyl Chloride	16.12	126	62733	23.88	ug/Kg#	73
97)	1,2-Dichlorobenzene	16.33	146	753300	40.50	ug/Kg	97
98)	1,2-Dibromo-3-Chloropropan	17.15	75	57570	44.65	ug/Kg	84
99)	Hexachlorobutadiene	17.77	225	237999	42.33	ug/Kg	81
100)	1,2,4-Trichlorobenzene	17.82	180	344325	39.09	ug/Kg	92
101)	Naphthalene	18.14	128	590613	34.31	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.32	180	311252	43.18	ug/Kg	97
104)	Ethanol	4.55	45	65416	1408.25	ug/Kg	99
105)	Acrolein	5.22	56	162952	226.27	ug/Kg	99
106)	Tert Butyl Alcohol	6.15	59	487955	496.78	ug/Kg	97
107)	Isobutyl alcohol	9.01	42	122878	779.61	ug/Kg	85
108)	Tert Amyl Alcohol	9.15	59	279825	410.05	ug/Kg	93
109)	1,4-Dioxane	10.61	88	51509	558.75	ug/Kg	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

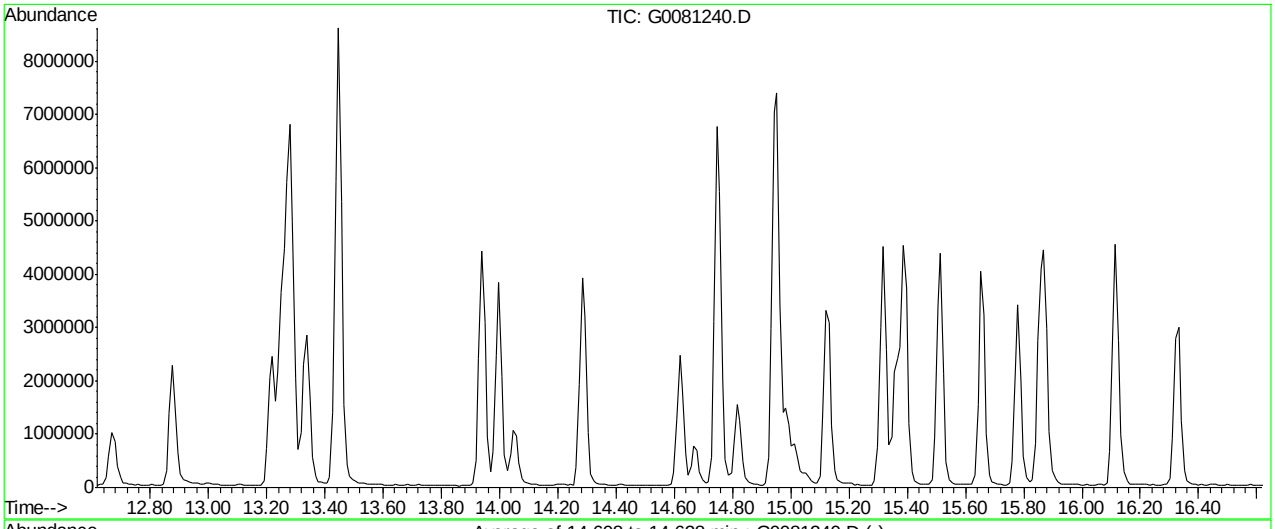
Data File : G:\1\DATA\072512\G0081260.D Vial: 20
Acq On : 25 Jul 2012 7:43 pm Operator: ericp
Sample : F95217-1MSD Inst : MSVOA1
Misc : ms21675,vg3005,5.02,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:51 2012 Quant Results File: 072512APP9-G.RES

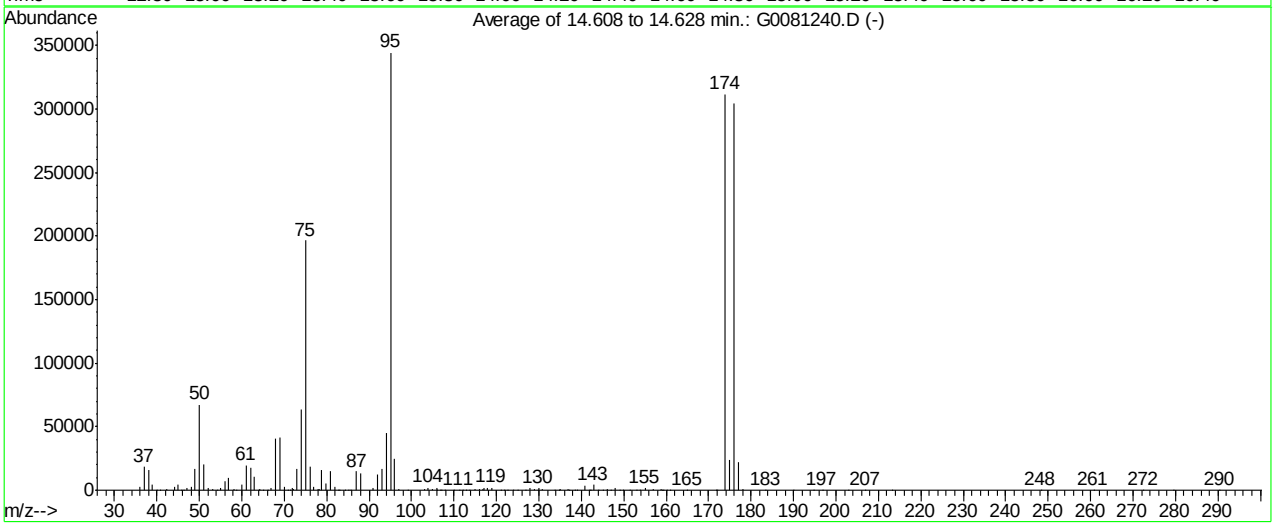
Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Methods: SW-846 8260B

Data File : G:\1\DATA\072512\G0081240.D Vial: 1
Acq On : 25 Jul 2012 9:51 am Operator: ericp
Sample : BFB Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B





AutoFind: Scans 1228, 1229, 1230; Background Corrected with Scan 1220

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	67181	PASS
75	95	30	60	57.1	196629	PASS
95	95	100	100	100.0	344640	PASS
96	95	5	9	7.2	24645	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.5	311936	PASS
175	174	5	9	7.5	23550	PASS
176	174	95	101	97.7	304768	PASS
177	176	5	9	7.3	22168	PASS

G0081240.D 072512APP9-G.M Thu Jul 26 10:42:37 2012

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081241.D Vial: 1
Acq On : 25 Jul 2012 10:39 am Operator: ericp
Sample : IC3005-1 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:45:45 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:45:41 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	2083087	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1417456	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	541178	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	188601	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	733788	44.53	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 89.06%			
44) 1,2-Dichloroethane-d4	8.96	65	726414	43.75	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 87.50%			
55) Toluene-d8	11.40	98	1949400	52.03	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 104.06%			
77) 4-Bromofluorobenzene	14.63	174	535874	52.78	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 105.56%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	83771	4.92	ug/Kg	89
3) Chloromethane	2.86	50	68748	5.06	ug/Kg	99
4) Vinyl Chloride	3.00	62	66935	5.35	ug/Kg	86
5) Bromomethane	3.49	94	65084	5.15	ug/Kg	99
6) Chloroethane	3.70	64	42208	5.88	ug/Kg	86
7) Trichlorofluoromethane	3.90	101	139008	5.18	ug/Kg	98
8) Ethyl Ether	4.35	59	51062	5.24	ug/Kg	95
9) 1,2-Dichlorotrifluoroethan	4.67	67	93946	5.69	ug/Kg	95
10) 1,1-Dichloroethene	4.69	61	96321	5.26	ug/Kg	93
11) Freon 113	4.80	101	81959	5.58	ug/Kg	90
12) Carbon Disulfide	4.77	76	162051	4.70	ug/Kg	97
13) Iodomethane	4.94	142	164573	4.99	ug/Kg	93
14) Allyl chloride	5.46	41	68394	4.77	ug/Kg	93
15) Methylene Chloride	5.62	49	97919	5.04	ug/Kg	91
16) Acetone	5.69	43	85246	24.80	ug/Kg	83
17) Methyl acetate	5.88	43	162683	21.98	ug/Kg	92
18) trans-1,2-Dichloroethene	5.88	61	95230	4.92	ug/Kg	90
19) Hexane	6.01	56	51745	5.64	ug/Kg	89
20) Methyl Tert Butyl Ether	6.04	73	206528	5.13	ug/Kg	86
21) Acetonitrile	6.40	41	51520	49.85	ug/Kg	85
22) Di-isopropyl ether	6.60	45	188251	4.77	ug/Kg	92
23) Chloroprene	6.78	53	79590	4.58	ug/Kg	91
24) 1,1-Dichloroethane	6.81	63	121853	5.07	ug/Kg	97
25) Acrylonitrile	6.88	53	53201	17.63	ug/Kg	95
26) ETBE	7.14	59	199131	4.73	ug/Kg	90
27) Vinyl acetate	7.15	43	220390	11.30	ug/Kg	98
28) cis-1,2-Dichloroethene	7.59	96	72361	4.74	ug/Kg	85
29) 2,2-Dichloropropane	7.74	77	95591	5.15	ug/Kg	99
30) Bromochloromethane	7.87	128	44866	4.78	ug/Kg	95
31) Cyclohexane	7.90	56	92716	5.60	ug/Kg	83
32) Chloroform	7.96	83	144987	4.63	ug/Kg	94
33) Ethyl acetate	8.12	43	194258	19.60	ug/Kg	98
34) Tetrahydrofuran	8.11	42	14631	4.69	ug/Kg#	34
36) Carbon Tetrachloride	8.19	117	101559	4.53	ug/Kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081241.D Vial: 1
Acq On : 25 Jul 2012 10:39 am Operator: ericp
Sample : IC3005-1 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:45:45 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:45:41 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	128239	4.93 ug/Kg	94
38) 2-Butanone	8.37	43	86208	19.43 ug/Kg	100
39) 1,1-Dichloropropene	8.44	75	87742	5.12 ug/Kg	94
40) Propionitrile	8.80	54	50274	44.57 ug/Kg	94
41) Methacrylonitrile	8.82	41	205533	35.27 ug/Kg	96
42) Benzene	8.78	78	243469	5.23 ug/Kg	92
43) TAME	8.92	73	171115	4.64 ug/Kg	99
45) 1,2-Dichloroethane	9.05	62	109128	4.50 ug/Kg	95
46) Trichloroethene	9.58	95	72178	4.72 ug/Kg	94
47) Methylcyclohexane	9.58	83	106080	6.00 ug/Kg	89
48) Dibromomethane	10.15	93	45865	4.20 ug/Kg	91
49) 1,2-Dichloropropane	10.27	63	57040	4.65 ug/Kg	86
50) Bromodichloromethane	10.35	83	80066	3.62 ug/Kg	97
51) Methyl methacrylate	10.52	41	31835	3.63 ug/Kg	94
52) 2-Chloroethyl vinyl ether	11.06	63	73324	13.31 ug/Kg	89
53) cis-1,3-Dichloropropene	11.16	75	76312	3.71 ug/Kg	95
56) Toluene	11.46	91	245393	5.76 ug/Kg	94
57) 2-Nitropropane	11.72	41	39144	18.29 ug/Kg	90
58) 4-Methyl-2-pentanone	11.89	43	158815	21.07 ug/Kg	92
59) trans-1,3-Dichloropropene	11.96	75	60970	4.08 ug/Kg	89
60) Tetrachloroethene	11.95	166	79439	6.00 ug/Kg	97
61) Ethyl methacrylate	12.12	69	36922	3.49 ug/Kg	83
62) 1,1,2-Trichloroethane	12.15	83	43497	5.41 ug/Kg	96
63) Dibromochloromethane	12.38	129	54265	3.84 ug/Kg	91
64) 1,3-Dichloropropane	12.48	76	79795	5.18 ug/Kg	97
65) 1,2-Dibromoethane	12.68	107	48682	4.61 ug/Kg	90
66) 2-hexanone	12.88	43	106158	18.35 ug/Kg	93
67) 1-Chlorohexane	13.22	91	68215	5.71 ug/Kg	96
68) Ethylbenzene	13.29	91	259946	5.62 ug/Kg	99
69) Chlorobenzene	13.28	112	158525	5.54 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	13.34	131	61353	4.97 ug/Kg#	74
71) m,p-Xylene	13.45	91	392288	10.75 ug/Kg	95
72) o-Xylene	13.94	91	207479	5.22 ug/Kg	98
73) Styrene	14.00	104	113842	4.45 ug/Kg	97
74) Bromoform	14.06	173	27344	3.21 ug/Kg	97
75) Isopropylbenzene	14.28	105	209697	5.33 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.68	53	11609	4.75 ug/Kg#	44
79) n-Propylbenzene	14.75	91	237291	5.85 ug/Kg	98
80) Bromobenzene	14.76	156	66702	5.91 ug/Kg	94
81) 1,1,2,2-Tetrachloroethane	14.81	83	54004	5.96 ug/Kg	91
82) 1,3,5-Trimethylbenzene	14.95	105	192089	5.94 ug/Kg	88
83) 2-Chlorotoluene	14.94	91	196828	6.26 ug/Kg	97
84) trans-1,4-Dichloro-2-Buten	15.02	53	10923	5.34 ug/Kg#	62
85) 1,2,3-Trichloropropane	14.98	110	16720	5.76 ug/Kg	80
86) Cyclohexanone	15.06	55	6236	32.88 ug/Kg	76
87) 4-Chlorotoluene	15.13	91	150095	5.67 ug/Kg	100
88) tert-Butylbenzene	15.32	91	114914	5.81 ug/Kg	92
89) 1,2,4-Trimethylbenzene	15.40	105	179624	5.99 ug/Kg	92
90) Pentachloroethane	15.37	167	30282	5.45 ug/Kg	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081241.D Vial: 1
Acq On : 25 Jul 2012 10:39 am Operator: ericp
Sample : IC3005-1 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:45:45 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:45:41 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

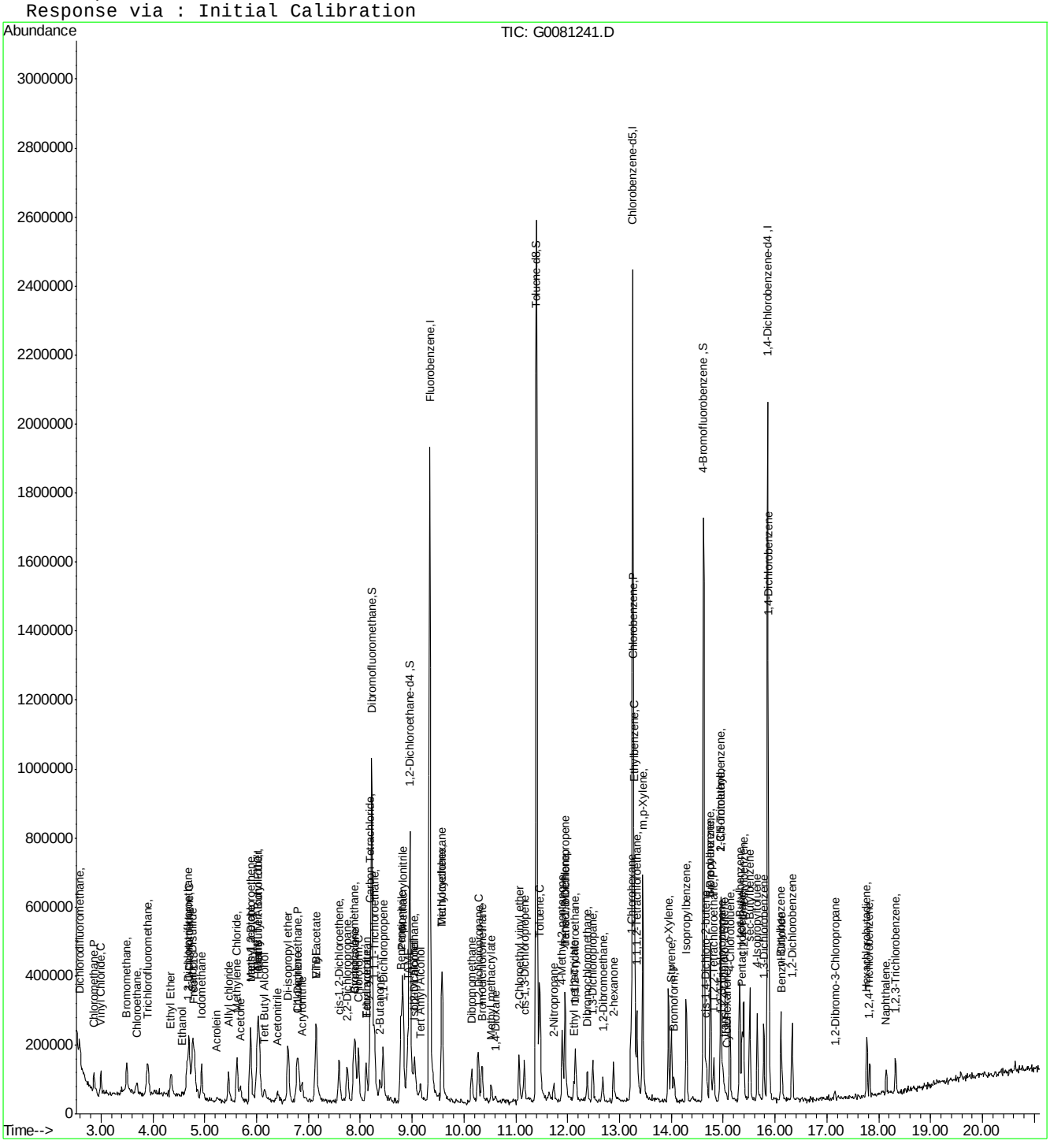
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	218710	6.46	ug/Kg	98
92)	4-Isopropyltoluene	15.65	119	154281	6.02	ug/Kg	94
93)	1,3-Dichlorobenzene	15.78	146	94299	5.76	ug/Kg	98
94)	1,4-Dichlorobenzene	15.88	146	98428	6.00	ug/Kg	91
95)	n-Butylbenzene	16.11	92	65088	5.02	ug/Kg	94
96)	Benzyl Chloride	16.13	126	8279	4.49	ug/Kg#	20
97)	1,2-Dichlorobenzene	16.33	146	86087	5.62	ug/Kg	95
98)	1,2-Dibromo-3-Chloropropan	17.15	75	6099	4.55	ug/Kg	84
99)	Hexachlorobutadiene	17.77	225	30400	5.73	ug/Kg	81
100)	1,2,4-Trichlorobenzene	17.83	180	28953	3.89	ug/Kg	92
101)	Naphthalene	18.14	128	47763	3.70	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.33	180	27525	4.29	ug/Kg	91
104)	Ethanol	4.55	45	4195	67.91	ug/Kg#	21
105)	Acrolein	5.23	56	14584	15.29	ug/Kg#	63
106)	Tert Butyl Alcohol	6.16	59	54649	57.93	ug/Kg	93
107)	Isobutyl alcohol	9.02	42	15674	91.14	ug/Kg#	73
108)	Tert Amyl Alcohol	9.16	59	29587	46.72	ug/Kg	85
109)	1,4-Dioxane	10.60	88	8178	89.55	ug/Kg	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081241.D Vial: 1
Acq On : 25 Jul 2012 10:39 am Operator: ericp
Sample : IC3005-1 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:55 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081242.D Vial: 2
Acq On : 25 Jul 2012 11:06 am Operator: ericp
Sample : IC3005-2 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:46:39 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:32 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.33	96	2008525	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1409305	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	568134	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	186242	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	8.22	113	1038202	73.37	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 146.74%#			
44) 1,2-Dichloroethane-d4	8.96	65	1051558	75.07	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 150.14%#			
55) Toluene-d8	11.40	98	2831398	73.04	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 146.08%#			
77) 4-Bromofluorobenzene	14.62	174	779498	69.28	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 138.56%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	137709	8.52	ug/Kg	87
3) Chloromethane	2.86	50	115244	8.69	ug/Kg	97
4) Vinyl Chloride	3.00	62	119349	9.25	ug/Kg	100
5) Bromomethane	3.50	94	123589	9.85	ug/Kg	93
6) Chloroethane	3.70	64	71259	8.75	ug/Kg	88
7) Trichlorofluoromethane	3.89	101	222100	8.29	ug/Kg	97
8) Ethyl Ether	4.35	59	88327	8.97	ug/Kg	98
9) 1,2-Dichlorotrifluoroethan	4.65	67	150197	8.29	ug/Kg	95
10) 1,1-Dichloroethene	4.69	61	166952	8.99	ug/Kg	92
11) Freon 113	4.79	101	129948	8.22	ug/Kg	94
12) Carbon Disulfide	4.76	76	296375	9.48	ug/Kg	99
13) Iodomethane	4.94	142	300120	9.46	ug/Kg	93
14) Allyl chloride	5.46	41	108738	8.24	ug/Kg	95
15) Methylene Chloride	5.62	49	172484	9.13	ug/Kg	91
16) Acetone	5.69	43	157412	47.88	ug/Kg	91
17) Methyl acetate	5.87	43	331959	52.91	ug/Kg	92
18) trans-1,2-Dichloroethene	5.88	61	172827	9.41	ug/Kg	87
19) Hexane	6.00	56	84918	8.51	ug/Kg	89
20) Methyl Tert Butyl Ether	6.03	73	390648	9.81	ug/Kg	94
21) Acetonitrile	6.41	41	83265	83.81	ug/Kg	83
22) Di-isopropyl ether	6.60	45	361263	9.95	ug/Kg	94
23) Chloroprene	6.78	53	142560	9.29	ug/Kg	95
24) 1,1-Dichloroethane	6.81	63	227672	9.69	ug/Kg	94
25) Acrylonitrile	6.87	53	119821	58.40	ug/Kg	97
26) ETBE	7.14	59	402916	10.49	ug/Kg	97
27) Vinyl acetate	7.14	43	487916	57.40	ug/Kg	97
28) cis-1,2-Dichloroethene	7.59	96	149907	10.74	ug/Kg	86
29) 2,2-Dichloropropane	7.74	77	175560	9.52	ug/Kg	93
30) Bromochloromethane	7.87	128	86792	10.03	ug/Kg	88
31) Cyclohexane	7.90	56	148530	8.31	ug/Kg	87
32) Chloroform	7.96	83	277705	9.93	ug/Kg	98
33) Ethyl acetate	8.11	43	406033	54.19	ug/Kg	94
34) Tetrahydrofuran	8.20	42	22167	7.86	ug/Kg	69
36) Carbon Tetrachloride	8.18	117	178026	9.09	ug/Kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081242.D Vial: 2
Acq On : 25 Jul 2012 11:06 am Operator: ericp
Sample : IC3005-2 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:46:39 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:32 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	221267	8.95 ug/Kg	98
38) 2-Butanone	8.37	43	172009	51.73 ug/Kg	98
39) 1,1-Dichloropropene	8.43	75	158933	9.39 ug/Kg	93
40) Propionitrile	8.79	54	95121	98.11 ug/Kg	98
41) Methacrylonitrile	8.82	41	445497	112.40 ug/Kg	95
42) Benzene	8.78	78	455524	9.70 ug/Kg	96
43) TAME	8.91	73	355067	10.76 ug/Kg	98
45) 1,2-Dichloroethane	9.04	62	212600	10.10 ug/Kg	97
46) Trichloroethene	9.58	95	139050	9.99 ug/Kg	98
47) Methylcyclohexane	9.58	83	173875	8.50 ug/Kg	91
48) Dibromomethane	10.15	93	95518	10.80 ug/Kg	96
49) 1,2-Dichloropropane	10.27	63	114343	10.40 ug/Kg	93
50) Bromodichloromethane	10.34	83	171506	11.11 ug/Kg	93
51) Methyl methacrylate	10.52	41	62937	10.25 ug/Kg	96
52) 2-Chloroethyl vinyl ether	11.05	63	176696	62.48 ug/Kg	96
53) cis-1,3-Dichloropropene	11.16	75	163599	11.12 ug/Kg	94
56) Toluene	11.46	91	495400	10.15 ug/Kg	97
57) 2-Nitropropane	11.73	41	84946	54.57 ug/Kg	98
58) 4-Methyl-2-pentanone	11.89	43	371175	58.77 ug/Kg	95
59) trans-1,3-Dichloropropene	11.95	75	128159	10.57 ug/Kg	93
60) Tetrachloroethene	11.95	166	143757	9.10 ug/Kg	95
61) Ethyl methacrylate	12.12	69	81523	11.10 ug/Kg	90
62) 1,1,2-Trichloroethane	12.15	83	86154	9.96 ug/Kg	98
63) Dibromochloromethane	12.37	129	122931	11.39 ug/Kg	95
64) 1,3-Dichloropropane	12.48	76	167122	10.53 ug/Kg	94
65) 1,2-Dibromoethane	12.67	107	106006	10.95 ug/Kg	94
66) 2-hexanone	12.87	43	224808	53.25 ug/Kg	92
67) 1-Chlorohexane	13.22	91	129799	9.57 ug/Kg	94
68) Ethylbenzene	13.29	91	513365	9.93 ug/Kg	97
69) Chlorobenzene	13.27	112	321969	10.21 ug/Kg	93
70) 1,1,1,2-Tetrachloroethane	13.34	131	125084	10.25 ug/Kg	92
71) m,p-Xylene	13.45	91	792548	20.32 ug/Kg	99
72) o-Xylene	13.94	91	426344	10.33 ug/Kg	100
73) Styrene	14.00	104	243270	10.75 ug/Kg	97
74) Bromoform	14.05	173	61459	11.30 ug/Kg	92
75) Isopropylbenzene	14.28	105	420648	10.09 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.67	53	21877	8.98 ug/Kg#	71
79) n-Propylbenzene	14.75	91	487098	9.78 ug/Kg	99
80) Bromobenzene	14.76	156	138451	9.89 ug/Kg	100
81) 1,1,2,2-Tetrachloroethane	14.81	83	109949	9.70 ug/Kg	96
82) 1,3,5-Trimethylbenzene	14.95	105	412002	10.22 ug/Kg	99
83) 2-Chlorotoluene	14.94	91	382249	9.25 ug/Kg	96
84) trans-1,4-Dichloro-2-Buten	15.01	53	21838	9.52 ug/Kg	93
85) 1,2,3-Trichloropropane	14.98	110	35223	10.03 ug/Kg	84
86) Cyclohexanone	15.05	55	16739	63.92 ug/Kg	77
87) 4-Chlorotoluene	15.13	91	337927	10.72 ug/Kg	97
88) tert-Butylbenzene	15.32	91	272717	11.30 ug/Kg	96
89) 1,2,4-Trimethylbenzene	15.39	105	392262	10.40 ug/Kg	98
90) Pentachloroethane	15.36	167	64867	10.20 ug/Kg	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081242.D Vial: 2
Acq On : 25 Jul 2012 11:06 am Operator: ericp
Sample : IC3005-2 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:46:39 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:32 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

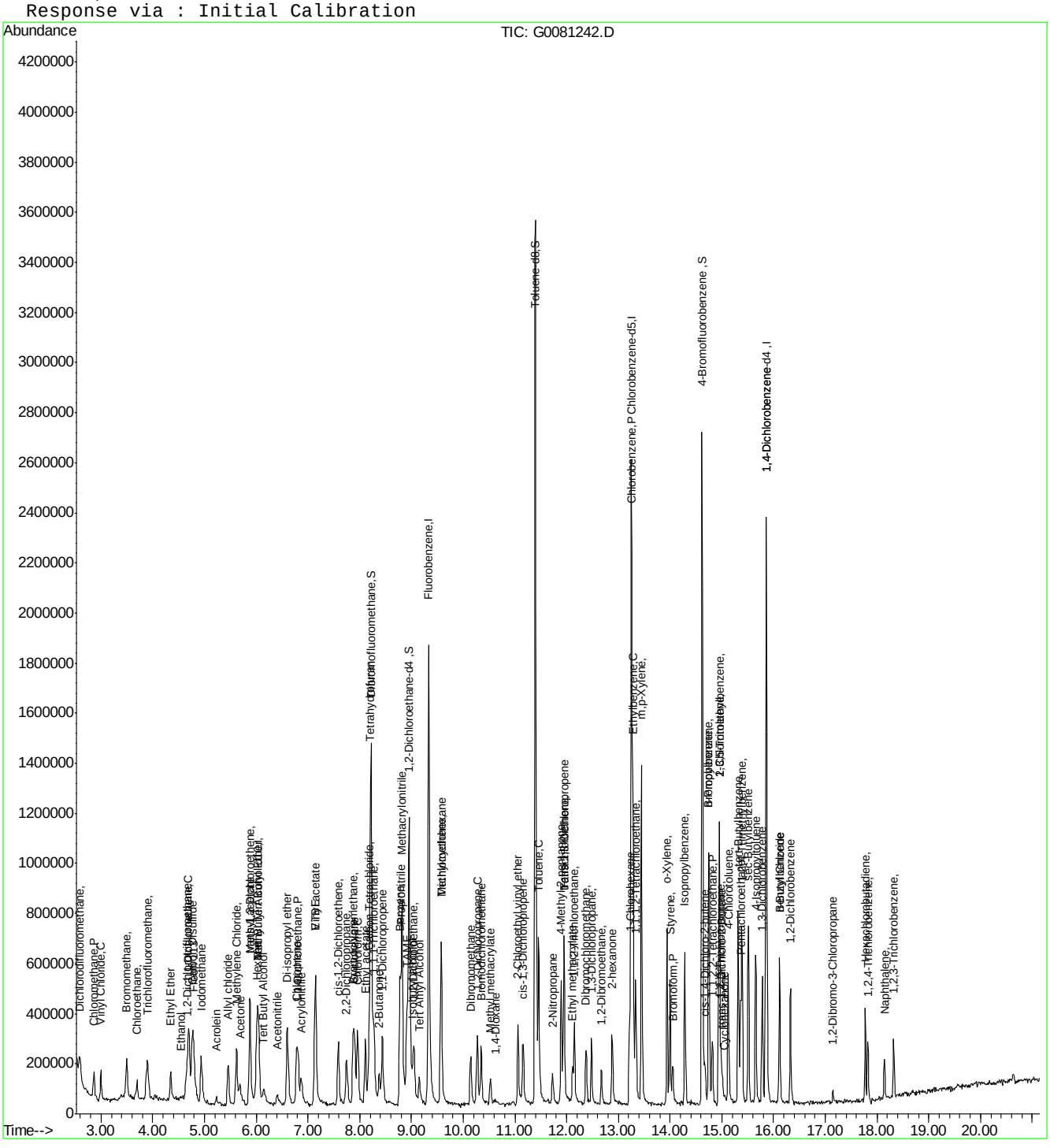
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	448664	9.77	ug/Kg	97
92)	4-Isopropyltoluene	15.65	119	336779	10.40	ug/Kg	96
93)	1,3-Dichlorobenzene	15.78	146	204633	10.34	ug/Kg	94
94)	1,4-Dichlorobenzene	15.87	146	204127	9.88	ug/Kg	86
95)	n-Butylbenzene	16.11	92	151419	11.08	ug/Kg	98
96)	Benzyl Chloride	16.12	126	19034	10.95	ug/Kg#	83
97)	1,2-Dichlorobenzene	16.33	146	191354	10.59	ug/Kg	95
98)	1,2-Dibromo-3-Chloropropan	17.15	75	13527	10.56	ug/Kg#	79
99)	Hexachlorobutadiene	17.77	225	56786	8.90	ug/Kg	88
100)	1,2,4-Trichlorobenzene	17.82	180	67263	11.06	ug/Kg	95
101)	Naphthalene	18.14	128	101733	10.14	ug/Kg	93
102)	1,2,3-Trichlorobenzene	18.32	180	59491	10.29	ug/Kg	88
104)	Ethanol	4.55	45	9020	217.74	ug/Kg	83
105)	Acrolein	5.23	56	37492	65.08	ug/Kg	85
106)	Tert Butyl Alcohol	6.14	59	96330	89.25	ug/Kg	92
107)	Isobutyl alcohol	9.01	42	27776	179.46	ug/Kg	89
108)	Tert Amyl Alcohol	9.15	59	68928	117.96	ug/Kg	94
109)	1,4-Dioxane	10.61	88	21316	263.95	ug/Kg	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081242.D Vial: 2
Acq On : 25 Jul 2012 11:06 am Operator: ericp
Sample : IC3005-2 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:56 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081243.D Vial: 3
Acq On : 25 Jul 2012 11:33 am Operator: ericp
Sample : IC3005-3 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:06 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:59 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.33	96	2012525	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1435925	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	628217	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	183757	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	1374820	94.69	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 189.38%#			
44) 1,2-Dichloroethane-d4	8.96	65	1417402	97.46	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 194.92%#			
55) Toluene-d8	11.40	98	3987530	98.81	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 197.62%#			
77) 4-Bromofluorobenzene	14.62	174	1147059	92.67	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 185.34%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	285194	19.02	ug/Kg	94
3) Chloromethane	2.86	50	257376	20.73	ug/Kg	97
4) Vinyl Chloride	3.00	62	253254	20.35	ug/Kg	93
5) Bromomethane	3.49	94	253153	20.29	ug/Kg	87
6) Chloroethane	3.69	64	148728	19.45	ug/Kg	89
7) Trichlorofluoromethane	3.89	101	467509	19.04	ug/Kg	91
8) Ethyl Ether	4.35	59	187014	19.98	ug/Kg	96
9) 1,2-Dichlorotrifluoroethan	4.66	67	310974	18.73	ug/Kg	93
10) 1,1-Dichloroethene	4.69	61	335112	18.96	ug/Kg	94
11) Freon 113	4.79	101	268220	18.59	ug/Kg	95
12) Carbon Disulfide	4.76	76	608878	19.96	ug/Kg	99
13) Iodomethane	4.94	142	620032	20.04	ug/Kg	96
14) Allyl chloride	5.45	41	259203	21.50	ug/Kg	98
15) Methylene Chloride	5.62	49	335661	18.54	ug/Kg	93
16) Acetone	5.69	43	304777	94.52	ug/Kg	96
17) Methyl acetate	5.87	43	687351	106.24	ug/Kg	95
18) trans-1,2-Dichloroethene	5.88	61	360604	20.19	ug/Kg	89
19) Hexane	6.00	56	172526	18.64	ug/Kg	93
20) Methyl Tert Butyl Ether	6.03	73	800140	20.24	ug/Kg	96
21) Acetonitrile	6.40	41	170804	186.69	ug/Kg	98
22) Di-isopropyl ether	6.60	45	771071	21.25	ug/Kg	97
23) Chloroprene	6.78	53	321611	21.68	ug/Kg	93
24) 1,1-Dichloroethane	6.80	63	455775	19.66	ug/Kg	98
25) Acrylonitrile	6.87	53	253953	113.95	ug/Kg	95
26) ETBE	7.13	59	821575	20.84	ug/Kg	96
27) Vinyl acetate	7.15	43	1317146	143.99	ug/Kg	97
28) cis-1,2-Dichloroethene	7.59	96	311080	21.45	ug/Kg	91
29) 2,2-Dichloropropane	7.74	77	360591	20.00	ug/Kg	100
30) Bromochloromethane	7.87	128	185938	21.41	ug/Kg	95
31) Cyclohexane	7.90	56	313968	19.15	ug/Kg	86
32) Chloroform	7.96	83	598531	21.44	ug/Kg	100
33) Ethyl acetate	8.11	43	874137	111.75	ug/Kg	98
34) Tetrahydrofuran	8.20	42	51818	20.53	ug/Kg	93
36) Carbon Tetrachloride	8.18	117	384776	20.54	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081243.D Vial: 3
Acq On : 25 Jul 2012 11:33 am Operator: ericp
Sample : IC3005-3 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:06 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:59 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,1,1-Trichloroethane	8.27	97	493128	21.01	ug/Kg	97
38)	2-Butanone	8.37	43	402659	118.80	ug/Kg	89
39)	1,1-Dichloropropene	8.43	75	351200	21.36	ug/Kg	94
40)	Propionitrile	8.78	54	201354	209.25	ug/Kg	97
41)	Methacrylonitrile	8.82	41	980915	232.57	ug/Kg	99
42)	Benzene	8.78	78	934431	20.16	ug/Kg	97
43)	TAME	8.92	73	736155	21.45	ug/Kg	97
45)	1,2-Dichloroethane	9.04	62	452117	21.33	ug/Kg	99
46)	Trichloroethene	9.57	95	301503	21.63	ug/Kg	94
47)	Methylcyclohexane	9.58	83	353075	18.62	ug/Kg	97
48)	Dibromomethane	10.15	93	195405	21.20	ug/Kg	96
49)	1,2-Dichloropropane	10.28	63	236393	21.03	ug/Kg	97
50)	Bromodichloromethane	10.34	83	359590	22.02	ug/Kg	94
51)	Methyl methacrylate	10.52	41	130498	20.95	ug/Kg	93
52)	2-Chloroethyl vinyl ether	11.05	63	428547	134.46	ug/Kg	98
53)	cis-1,3-Dichloropropene	11.16	75	398947	25.62	ug/Kg	94
56)	Toluene	11.46	91	1077515	21.51	ug/Kg	96
57)	2-Nitropropane	11.72	41	210521	126.93	ug/Kg	93
58)	4-Methyl-2-pentanone	11.89	43	844303	120.62	ug/Kg	96
59)	trans-1,3-Dichloropropene	11.95	75	320484	25.22	ug/Kg	92
60)	Tetrachloroethene	11.95	166	315348	20.52	ug/Kg	95
61)	Ethyl methacrylate	12.12	69	211072	26.74	ug/Kg	93
62)	1,1,2-Trichloroethane	12.15	83	195936	22.28	ug/Kg	96
63)	Dibromochloromethane	12.37	129	300600	25.56	ug/Kg	96
64)	1,3-Dichloropropane	12.48	76	386754	23.30	ug/Kg	95
65)	1,2-Dibromoethane	12.67	107	246481	23.86	ug/Kg	94
66)	2-hexanone	12.87	43	488976	110.10	ug/Kg	99
67)	1-Chlorohexane	13.22	91	299322	22.13	ug/Kg	94
68)	Ethylbenzene	13.28	91	1115209	21.25	ug/Kg	99
69)	Chlorobenzene	13.27	112	693774	21.37	ug/Kg	99
70)	1,1,1,2-Tetrachloroethane	13.34	131	272390	21.64	ug/Kg	94
71)	m,p-Xylene	13.45	91	1809551	45.17	ug/Kg	97
72)	o-Xylene	13.94	91	950516	22.24	ug/Kg	96
73)	Styrene	14.00	104	588313	24.59	ug/Kg	90
74)	Bromoform	14.05	173	144507	24.49	ug/Kg	91
75)	Isopropylbenzene	14.28	105	901304	21.12	ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	14.67	53	54078	21.15	ug/Kg#	79
79)	n-Propylbenzene	14.75	91	1152997	21.17	ug/Kg	99
80)	Bromobenzene	14.76	156	303649	19.72	ug/Kg	93
81)	1,1,2,2-Tetrachloroethane	14.81	83	246113	19.93	ug/Kg	98
82)	1,3,5-Trimethylbenzene	14.95	105	958004	21.25	ug/Kg	98
83)	2-Chlorotoluene	14.94	91	925078	21.03	ug/Kg	100
84)	trans-1,4-Dichloro-2-Buten	15.01	53	49331	19.93	ug/Kg	98
85)	1,2,3-Trichloropropane	14.98	110	82052	21.10	ug/Kg	99
86)	Cyclohexanone	15.05	55	27604	83.68	ug/Kg#	65
87)	4-Chlorotoluene	15.12	91	755110	20.91	ug/Kg	96
88)	tert-Butylbenzene	15.32	91	581445	20.46	ug/Kg	97
89)	1,2,4-Trimethylbenzene	15.39	105	896837	21.08	ug/Kg	98
90)	Pentachloroethane	15.37	167	146229	20.59	ug/Kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081243.D Vial: 3
Acq On : 25 Jul 2012 11:33 am Operator: ericp
Sample : IC3005-3 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:06 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:46:59 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

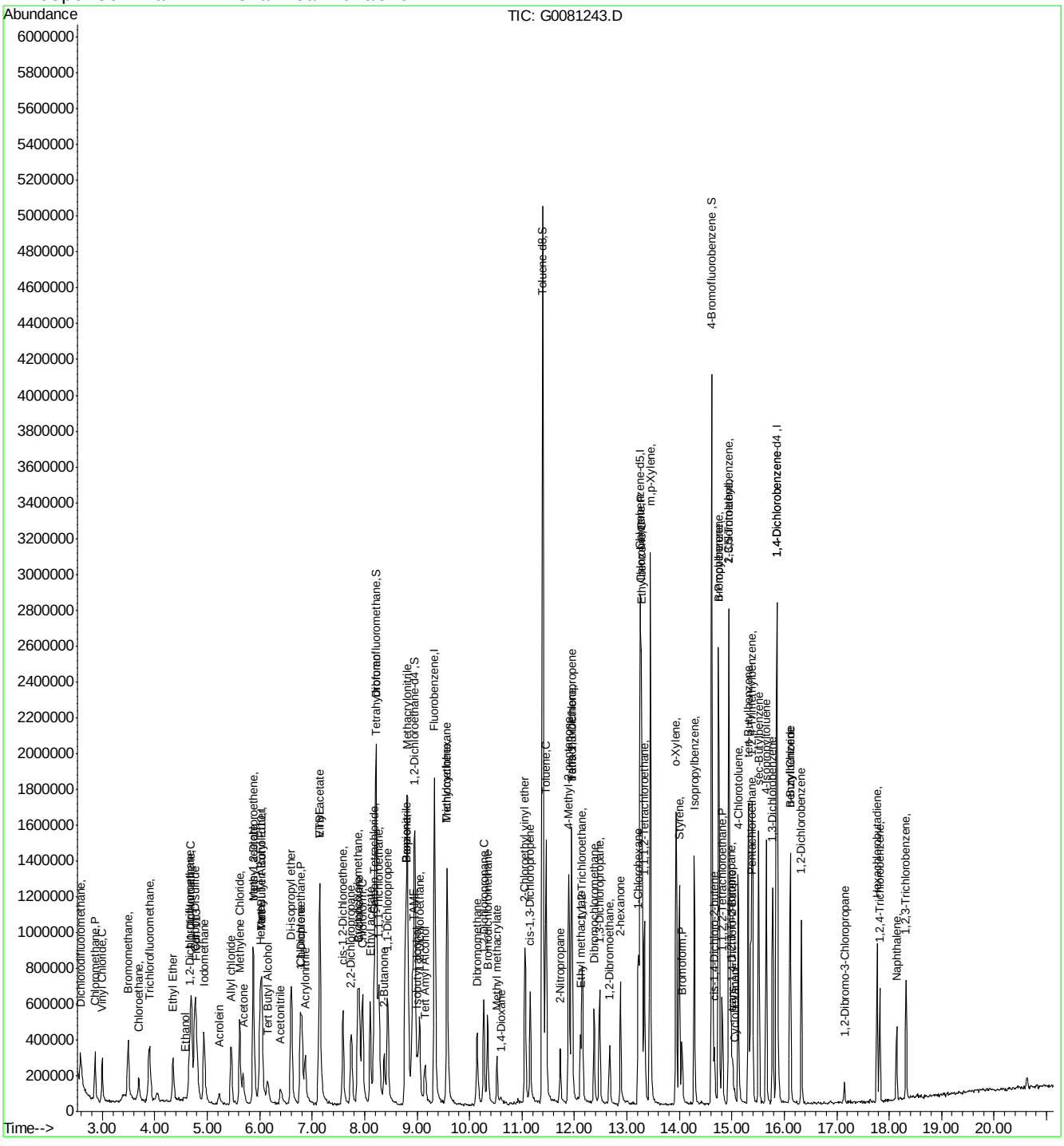
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	1012693	20.18	ug/Kg	94
92)	4-Isopropyltoluene	15.65	119	789565	21.61	ug/Kg	99
93)	1,3-Dichlorobenzene	15.78	146	461571	20.74	ug/Kg	94
94)	1,4-Dichlorobenzene	15.87	146	471551	20.76	ug/Kg	87
95)	n-Butylbenzene	16.11	92	355699	22.33	ug/Kg	91
96)	Benzyl Chloride	16.12	126	41360	20.54	ug/Kg#	41
97)	1,2-Dichlorobenzene	16.33	146	427678	20.79	ug/Kg	94
98)	1,2-Dibromo-3-Chloropropan	17.14	75	24417	16.77	ug/Kg#	66
99)	Hexachlorobutadiene	17.77	225	136137	20.41	ug/Kg	87
100)	1,2,4-Trichlorobenzene	17.82	180	165229	23.34	ug/Kg	97
101)	Naphthalene	18.14	128	277952	24.89	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.32	180	158604	24.46	ug/Kg	95
104)	Ethanol	4.57	45	21711	508.63	ug/Kg	76
105)	Acrolein	5.22	56	79756	121.93	ug/Kg	98
106)	Tert Butyl Alcohol	6.15	59	211633	210.02	ug/Kg	92
107)	Isobutyl alcohol	9.00	42	58114	401.14	ug/Kg	93
108)	Tert Amyl Alcohol	9.15	59	143794	228.86	ug/Kg	98
109)	1,4-Dioxane	10.60	88	38967	421.64	ug/Kg	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081243.D Vial: 3
Acq On : 25 Jul 2012 11:33 am Operator: ericp
Sample : IC3005-3 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:57 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/26/12 14:26

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:32 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:26 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.33	96	2077916	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1546986	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	679061	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	199524	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	740382	48.54	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 97.08%			
44) 1,2-Dichloroethane-d4	8.96	65	734585	47.60	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 95.20%			
55) Toluene-d8	11.40	98	2147584	47.84	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.68%			
77) 4-Bromofluorobenzene	14.62	174	616642	45.64	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 91.28%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	738082	48.47	ug/Kg	90
3) Chloromethane	2.86	50	635009	48.94	ug/Kg	99
4) Vinyl Chloride	3.00	62	629822	48.73	ug/Kg	97
5) Bromomethane	3.49	94	620796	47.95	ug/Kg	96
6) Chloroethane	3.70	64	375105	47.95	ug/Kg	93
7) Trichlorofluoromethane	3.90	101	1200775	48.13	ug/Kg	96
8) Ethyl Ether	4.35	59	477837	49.47	ug/Kg	98
9) 1,2-Dichlorotrifluoroethan	4.66	67	797052	47.50	ug/Kg	92
10) 1,1-Dichloroethene	4.69	61	864805	48.23	ug/Kg	91
11) Freon 113	4.79	101	705180	48.48	ug/Kg	97
12) Carbon Disulfide	4.76	76	1661609	52.79	ug/Kg	97
13) Iodomethane	4.94	142	1635818	51.18	ug/Kg	94
14) Allyl chloride	5.45	41	688053	53.93	ug/Kg	96
15) Methylene Chloride	5.62	49	858456	47.07	ug/Kg	92
16) Acetone	5.68	43	764079	233.78	ug/Kg	99
17) Methyl acetate	5.87	43	1657144	243.02	ug/Kg	97
18) trans-1,2-Dichloroethene	5.88	61	916115	49.52	ug/Kg	88
19) Hexane	6.00	56	449617	48.15	ug/Kg	92
20) Methyl Tert Butyl Ether	6.03	73	2008038	49.01	ug/Kg	96
21) Acetonitrile	6.40	41	459588	497.56	ug/Kg	99
22) Di-isopropyl ether	6.60	45	1947490	50.92	ug/Kg	98
23) Chloroprene	6.77	53	863276	54.83	ug/Kg	96
24) 1,1-Dichloroethane	6.81	63	1206263	50.69	ug/Kg	97
25) Acrylonitrile	6.87	53	696145	289.10	ug/Kg	93
26) ETBE	7.13	59	2078444	50.36	ug/Kg	97
27) Vinyl acetate	7.14	43	4062129	375.10	ug/Kg	99
28) cis-1,2-Dichloroethene	7.59	96	789614	51.49	ug/Kg	88
29) 2,2-Dichloropropane	7.74	77	929882	49.95	ug/Kg	98
30) Bromochloromethane	7.87	128	486468	53.01	ug/Kg	91
31) Cyclohexane	7.90	56	830110	49.74	ug/Kg	86
32) Chloroform	7.96	83	1528551	51.78	ug/Kg	97
33) Ethyl acetate	8.11	43	2238788	266.76	ug/Kg	94
34) Tetrahydrofuran	8.19	42	125798	47.85	ug/Kg	90
36) Carbon Tetrachloride	8.18	117	1025441	52.55	ug/Kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:32 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:26 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	1268497	51.47 ug/Kg	97
38) 2-Butanone	8.37	43	1021585	274.71 ug/Kg	93
39) 1,1-Dichloropropene	8.43	75	883719	50.91 ug/Kg	97
40) Propionitrile	8.78	54	515445	510.93 ug/Kg	96
41) Methacrylonitrile	8.82	41	2523731	549.70 ug/Kg	98
42) Benzene	8.78	78	2416531	50.37 ug/Kg	95
43) TAME	8.92	73	1885673	51.96 ug/Kg	99
45) 1,2-Dichloroethane	9.04	62	1116376	49.91 ug/Kg	99
46) Trichloroethene	9.57	95	761109	51.48 ug/Kg	97
47) Methylcyclohexane	9.58	83	929933	48.62 ug/Kg	97
48) Dibromomethane	10.14	93	512723	52.82 ug/Kg	90
49) 1,2-Dichloropropane	10.28	63	596610	50.54 ug/Kg	93
50) Bromodichloromethane	10.34	83	991393	56.89 ug/Kg	99
51) Methyl methacrylate	10.52	41	355303	54.39 ug/Kg	93
52) 2-Chloroethyl vinyl ether	11.05	63	1135431	309.48 ug/Kg	96
53) cis-1,3-Dichloropropene	11.15	75	978279	55.64 ug/Kg	98
56) Toluene	11.46	91	2785570	50.35 ug/Kg	100
57) 2-Nitropropane	11.72	41	631396	324.25 ug/Kg	98
58) 4-Methyl-2-pentanone	11.89	43	2255499	279.86 ug/Kg	99
59) trans-1,3-Dichloropropene	11.95	75	889245	59.76 ug/Kg	89
60) Tetrachloroethene	11.95	166	814913	48.79 ug/Kg	92
61) Ethyl methacrylate	12.12	69	580664	61.39 ug/Kg	89
62) 1,1,2-Trichloroethane	12.15	83	476197	48.42 ug/Kg	94
63) Dibromochloromethane	12.37	129	768663	55.52 ug/Kg	98
64) 1,3-Dichloropropane	12.48	76	927214	49.15 ug/Kg	95
65) 1,2-Dibromoethane	12.67	107	639430	53.98 ug/Kg	94
66) 2-hexanone	12.87	43	1369922	276.98 ug/Kg	99
67) 1-Chlorohexane	13.22	91	796907	52.82 ug/Kg	94
68) Ethylbenzene	13.28	91	2951173	51.13 ug/Kg	99
69) Chlorobenzene	13.27	112	1787316	49.96 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.34	131	724556	52.01 ug/Kg	97
71) m,p-Xylene	13.45	91	4718945	104.83 ug/Kg	98
72) o-Xylene	13.94	91	2403746	50.33 ug/Kg	97
73) Styrene	14.00	104	1586250	57.17 ug/Kg	94
74) Bromoform	14.06	173	429997	62.93 ug/Kg	95
75) Isopropylbenzene	14.28	105	2385731	50.94 ug/Kg	100
78) cis-1,4-Dichloro-2-butene	14.67	53	136080	48.31 ug/Kg	81
79) n-Propylbenzene	14.75	91	2979174	49.63 ug/Kg	99
80) Bromobenzene	14.76	156	761366	45.96 ug/Kg	94
81) 1,1,2,2-Tetrachloroethane	14.81	83	603282	45.25 ug/Kg	97
82) 1,3,5-Trimethylbenzene	14.95	105	2436068	48.97 ug/Kg	95
83) 2-Chlorotoluene	14.94	91	2368062	48.97 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	15.01	53	143672	53.76 ug/Kg	95
85) 1,2,3-Trichloropropane	14.98	110	199711	46.66 ug/Kg	96
86) Cyclohexanone	15.05	55	73648	218.43 ug/Kg	79
87) 4-Chlorotoluene	15.12	91	2016518	50.89 ug/Kg	96
88) tert-Butylbenzene	15.32	91	1489933	48.13 ug/Kg	96
89) 1,2,4-Trimethylbenzene	15.39	105	2415005	51.59 ug/Kg	96
90) Pentachloroethane	15.37	167	386164	49.82 ug/Kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:32 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:26 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

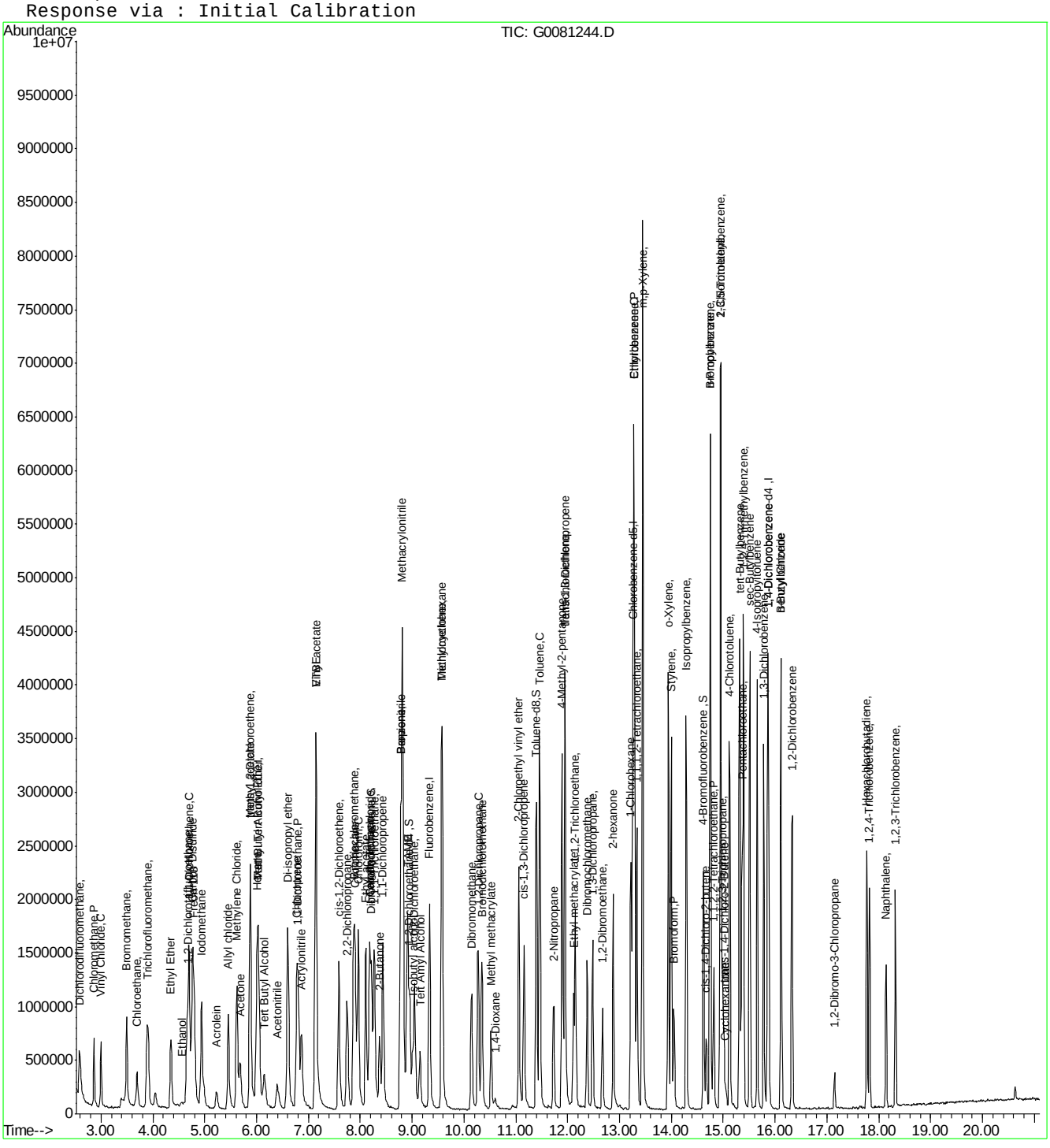
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	2798790	51.43	ug/Kg	100
92)	4-Isopropyltoluene	15.65	119	2197472	54.19	ug/Kg	95
93)	1,3-Dichlorobenzene	15.78	146	1262363	51.83	ug/Kg	95
94)	1,4-Dichlorobenzene	15.87	146	1239708	49.86	ug/Kg	92
95)	n-Butylbenzene	16.11	92	1030240	57.60	ug/Kg	94
96)	Benzyl Chloride	16.12	126	147716	67.27	ug/Kg#	25
97)	1,2-Dichlorobenzene	16.33	146	1160586	51.51	ug/Kg	92
98)	1,2-Dibromo-3-Chloropropan	17.15	75	75056	50.41	ug/Kg	86
99)	Hexachlorobutadiene	17.77	225	360799	49.71	ug/Kg	90
100)	1,2,4-Trichlorobenzene	17.82	180	547921	67.82	ug/Kg	94
101)	Naphthalene	18.14	128	877843	67.24	ug/Kg	100
102)	1,2,3-Trichlorobenzene	18.32	180	484003	64.28	ug/Kg	97
104)	Ethanol	4.55	45	60752m	1201.97	ug/Kg	
105)	Acrolein	5.22	56	213197	279.73	ug/Kg	99
106)	Tert Butyl Alcohol	6.15	59	522540	469.74	ug/Kg	90
107)	Isobutyl alcohol	9.01	42	167124	1061.43	ug/Kg	98
108)	Tert Amyl Alcohol	9.15	59	367220	513.57	ug/Kg	89
109)	1,4-Dioxane	10.60	88	103860	1016.66	ug/Kg	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:01 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Manual Integration Approval Summary

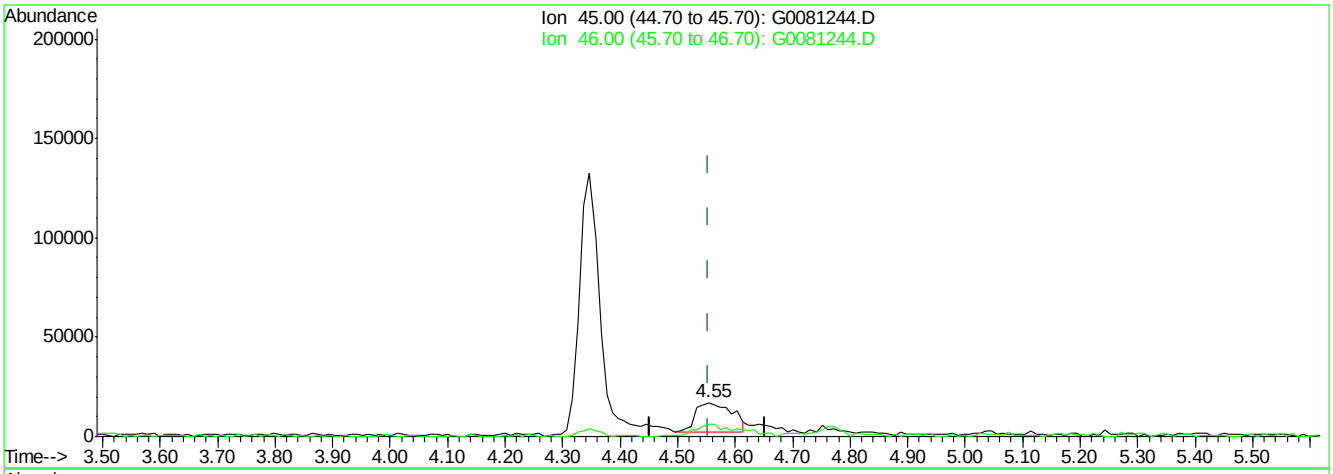
Sample Number:	VG3005-IC3005	**Method:**	SW846 8260B
Lab FileID:	G0081244.D	**Analyst approved:**	07/26/12 11:19 Eric Parrish
Injection Time:	07/25/12 12:00	**Supervisor approved:**	07/26/12 14:26 Karen Watson

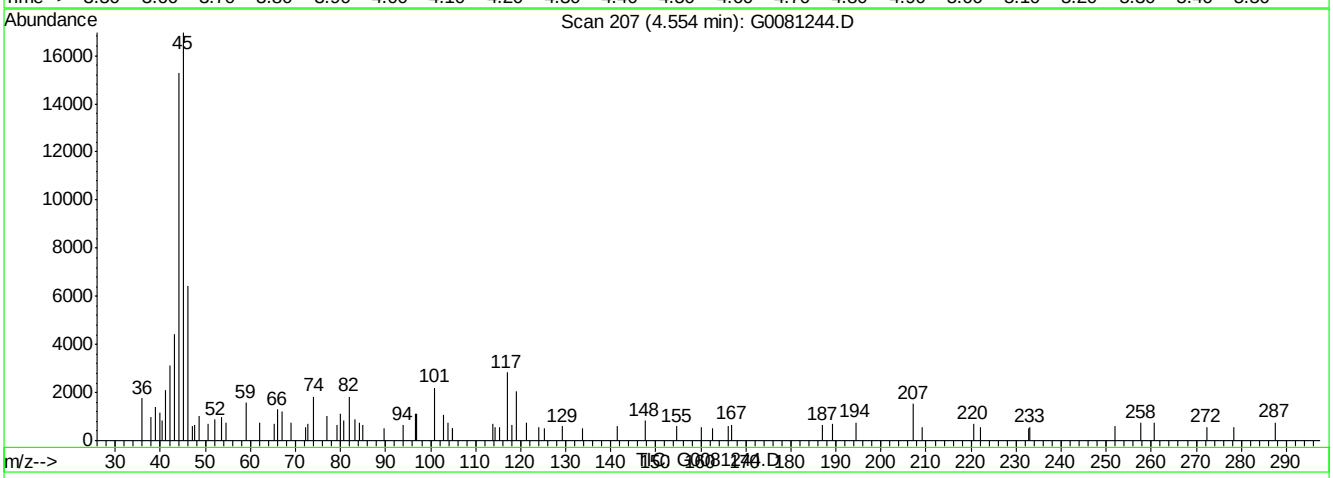
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl alcohol	64-17-5		4.55	Poor instrument integration

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:57 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:48:22 2012
Response via : Multiple Level Calibration





(104) Ethanol

4.55min (+0.001) 1272.65ug/Kg

response 64324

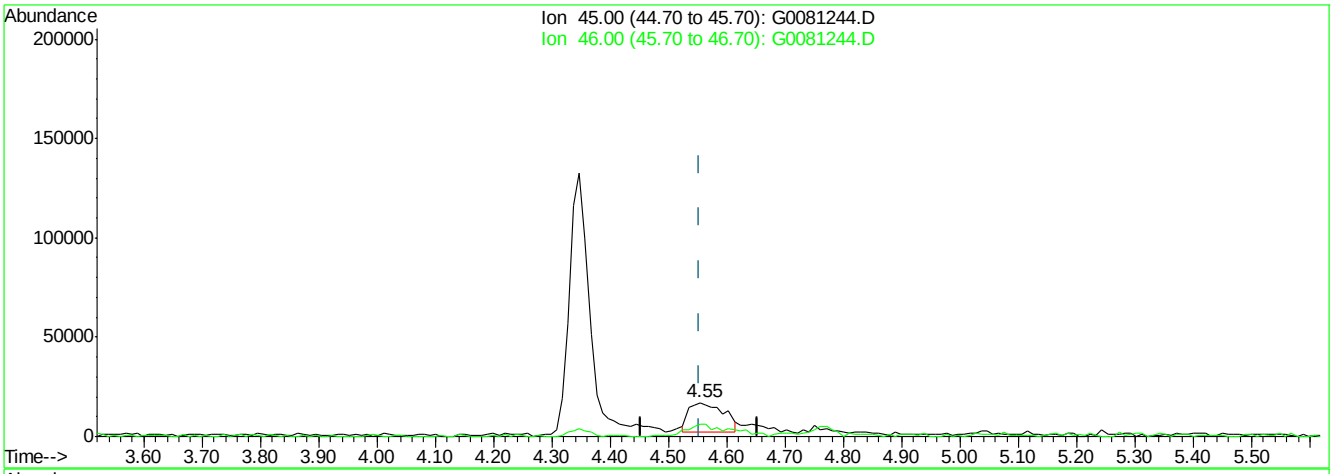
Ion	Exp%	Act%
45.00	100	100
46.00	35.30	41.77
0.00	0.00	0.00
0.00	0.00	0.00

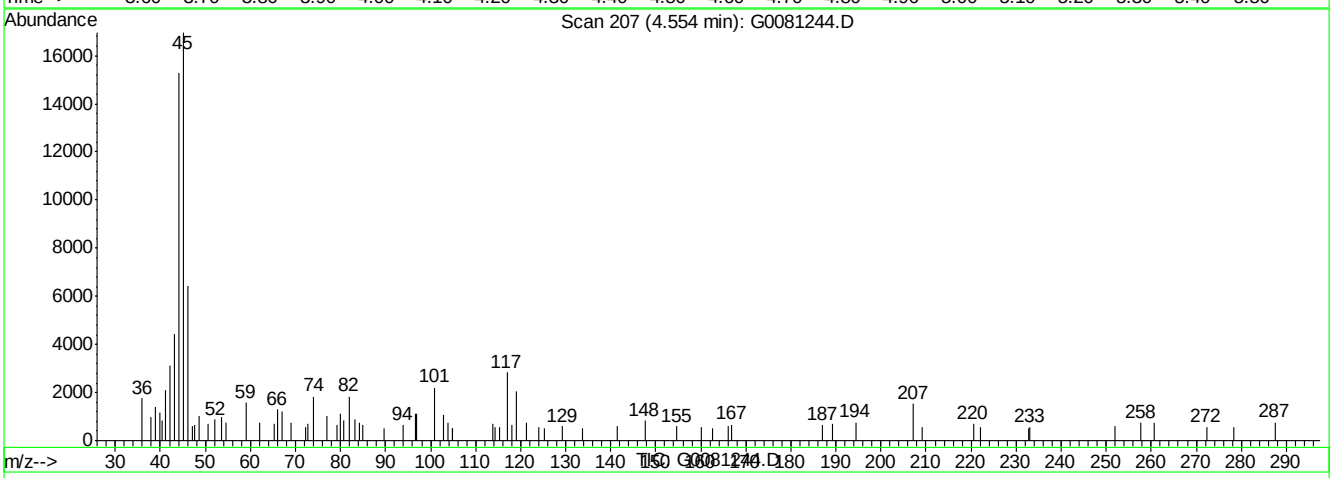
G0081244.D 072512APP9-G.M Wed Jul 25 12:50:41 2012

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081244.D Vial: 4
Acq On : 25 Jul 2012 12:00 pm Operator: ericp
Sample : IC3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:01 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:48:22 2012
Response via : Multiple Level Calibration





(104) Ethanol

4.55min (+0.001) 1201.97ug/Kg m

response 60752

Ion	Exp%	Act%
45.00	100	100
46.00	35.30	37.89
0.00	0.00	0.00
0.00	0.00	0.00

G0081244.D 072512APP9-G.M Wed Jul 25 12:51:08 2012

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081245.D Vial: 5
Acq On : 25 Jul 2012 12:27 pm Operator: ericp
Sample : ICC3005-5 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:58 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:51 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	2106179	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1592439	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	723175	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	222386	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	1622488	105.72	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 211.44%#			
44) 1,2-Dichloroethane-d4	8.96	65	1620566	104.87	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 209.74%#			
55) Toluene-d8	11.40	98	4518156	98.84	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 197.68%#			
77) 4-Bromofluorobenzene	14.62	174	1415062	100.53	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 201.06%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	1275650	83.29	ug/Kg	89
3) Chloromethane	2.86	50	1054650	80.62	ug/Kg	96
4) Vinyl Chloride	3.00	62	1026445	78.85	ug/Kg	95
5) Bromomethane	3.49	94	954754	73.51	ug/Kg	97
6) Chloroethane	3.69	64	605947	77.21	ug/Kg	95
7) Trichlorofluoromethane	3.90	101	1990103	79.44	ug/Kg	98
8) Ethyl Ether	4.35	59	905678	92.75	ug/Kg	98
9) 1,2-Dichlorotrifluoroethan	4.66	67	1381941	82.29	ug/Kg	94
10) 1,1-Dichloroethene	4.69	61	1494673	82.98	ug/Kg	98
11) Freon 113	4.78	101	1170317	79.98	ug/Kg	96
12) Carbon Disulfide	4.76	76	2900071	89.65	ug/Kg	96
13) Iodomethane	4.94	142	2874719	88.21	ug/Kg	92
14) Allyl chloride	5.45	41	1198869	90.92	ug/Kg	96
15) Methylene Chloride	5.62	49	1574466	86.44	ug/Kg	92
16) Acetone	5.68	43	1627829	499.47	ug/Kg	100
17) Methyl acetate	5.87	43	3319168	483.61	ug/Kg	96
18) trans-1,2-Dichloroethene	5.87	61	1645829	87.99	ug/Kg	92
19) Hexane	6.00	56	720945	76.88	ug/Kg	97
20) Methyl Tert Butyl Ether	6.03	73	3953520	95.67	ug/Kg	95
21) Acetonitrile	6.40	41	926781	991.10	ug/Kg	92
22) Di-isopropyl ether	6.60	45	3559188	91.39	ug/Kg	97
23) Chloroprene	6.77	53	1484621	90.84	ug/Kg	97
24) 1,1-Dichloroethane	6.81	63	2152797	88.94	ug/Kg	98
25) Acrylonitrile	6.87	53	1434154	565.48	ug/Kg	98
26) ETBE	7.13	59	3990586	95.22	ug/Kg	98
27) Vinyl acetate	7.14	43	8502991	688.50	ug/Kg	98
28) cis-1,2-Dichloroethene	7.59	96	1446493	92.37	ug/Kg	92
29) 2,2-Dichloropropane	7.74	77	1555579	82.46	ug/Kg	100
30) Bromochloromethane	7.86	128	903074	95.65	ug/Kg	95
31) Cyclohexane	7.90	56	1417653	83.91	ug/Kg	92
32) Chloroform	7.96	83	2763158	91.54	ug/Kg	98
33) Ethyl acetate	8.11	43	4704348	543.90	ug/Kg	95
34) Tetrahydrofuran	8.19	42	263790	100.06	ug/Kg	89
36) Carbon Tetrachloride	8.18	117	1836791	91.69	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081245.D Vial: 5
Acq On : 25 Jul 2012 12:27 pm Operator: ericp
Sample : ICC3005-5 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:58 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:51 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	1,1,1-Trichloroethane	8.27	97	2186017	86.87 ug/Kg	98
38)	2-Butanone	8.37	43	2244568	581.12 ug/Kg	94
39)	1,1-Dichloropropene	8.43	75	1513743	85.64 ug/Kg	98
40)	Propionitrile	8.78	54	1092316	1062.40 ug/Kg	85
41)	Methacrylonitrile	8.82	41	5136470	1077.01 ug/Kg	98
42)	Benzene	8.78	78	4292096	88.10 ug/Kg	99
43)	TAME	8.91	73	3704030	99.72 ug/Kg	95
45)	1,2-Dichloroethane	9.04	62	2130421	94.01 ug/Kg	98
46)	Trichloroethene	9.57	95	1324237	87.72 ug/Kg	97
47)	Methylcyclohexane	9.58	83	1585070	82.33 ug/Kg	97
48)	Dibromomethane	10.14	93	1007471	100.97 ug/Kg	92
49)	1,2-Dichloropropane	10.28	63	1107039	92.27 ug/Kg	94
50)	Bromodichloromethane	10.34	83	1947815	106.60 ug/Kg	97
51)	Methyl methacrylate	10.52	41	742584	109.73 ug/Kg	95
52)	2-Chloroethyl vinyl ether	11.05	63	2623900	665.98 ug/Kg	99
53)	cis-1,3-Dichloropropene	11.16	75	2042808	111.49 ug/Kg	93
56)	Toluene	11.46	91	4948180	86.73 ug/Kg	92
57)	2-Nitropropane	11.72	41	1433715	665.82 ug/Kg	97
58)	4-Methyl-2-pentanone	11.89	43	4763769	557.57 ug/Kg	97
59)	trans-1,3-Dichloropropene	11.95	75	1735817	108.05 ug/Kg	87
60)	Tetrachloroethene	11.95	166	1429054	83.62 ug/Kg	95
61)	Ethyl methacrylate	12.11	69	1286142	124.97 ug/Kg	95
62)	1,1,2-Trichloroethane	12.15	83	941788	93.76 ug/Kg	96
63)	Dibromochloromethane	12.37	129	1623919	110.89 ug/Kg	92
64)	1,3-Dichloropropane	12.48	76	1813359	93.78 ug/Kg	95
65)	1,2-Dibromoethane	12.67	107	1309627	105.30 ug/Kg	98
66)	2-hexanone	12.88	43	3172462	606.75 ug/Kg	93
67)	1-Chlorohexane	13.22	91	1453597	92.30 ug/Kg	94
68)	Ethylbenzene	13.28	91	5197011	86.98 ug/Kg	99
69)	Chlorobenzene	13.27	112	3295713	89.52 ug/Kg	99
70)	1,1,1,2-Tetrachloroethane	13.34	131	1381865	95.40 ug/Kg	97
71)	m,p-Xylene	13.45	91	8441957	180.00 ug/Kg	97
72)	o-Xylene	13.94	91	4722026	95.89 ug/Kg	97
73)	Styrene	14.00	104	3272671	110.61 ug/Kg	93
74)	Bromoform	14.05	173	953345	127.31 ug/Kg	97
75)	Isopropylbenzene	14.28	105	4541481	93.76 ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	14.67	53	335854	112.91 ug/Kg	79
79)	n-Propylbenzene	14.75	91	5755374	90.20 ug/Kg	99
80)	Bromobenzene	14.76	156	1542054	89.21 ug/Kg	100
81)	1,1,2,2-Tetrachloroethane	14.82	83	1266979	91.41 ug/Kg	98
82)	1,3,5-Trimethylbenzene	14.95	105	4542006	86.18 ug/Kg	96
83)	2-Chlorotoluene	14.94	91	4270922	83.36 ug/Kg	98
84)	trans-1,4-Dichloro-2-Buten	15.01	53	335936	115.85 ug/Kg	91
85)	1,2,3-Trichloropropane	14.98	110	417393	93.12 ug/Kg	97
86)	Cyclohexanone	15.05	55	145700	418.99 ug/Kg	73
87)	4-Chlorotoluene	15.12	91	3752682	88.54 ug/Kg	100
88)	tert-Butylbenzene	15.32	91	2684442	82.20 ug/Kg	95
89)	1,2,4-Trimethylbenzene	15.39	105	4557352	90.70 ug/Kg	98
90)	Pentachloroethane	15.37	167	730639	88.58 ug/Kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081245.D Vial: 5
Acq On : 25 Jul 2012 12:27 pm Operator: ericp
Sample : ICC3005-5 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:47:58 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:47:51 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

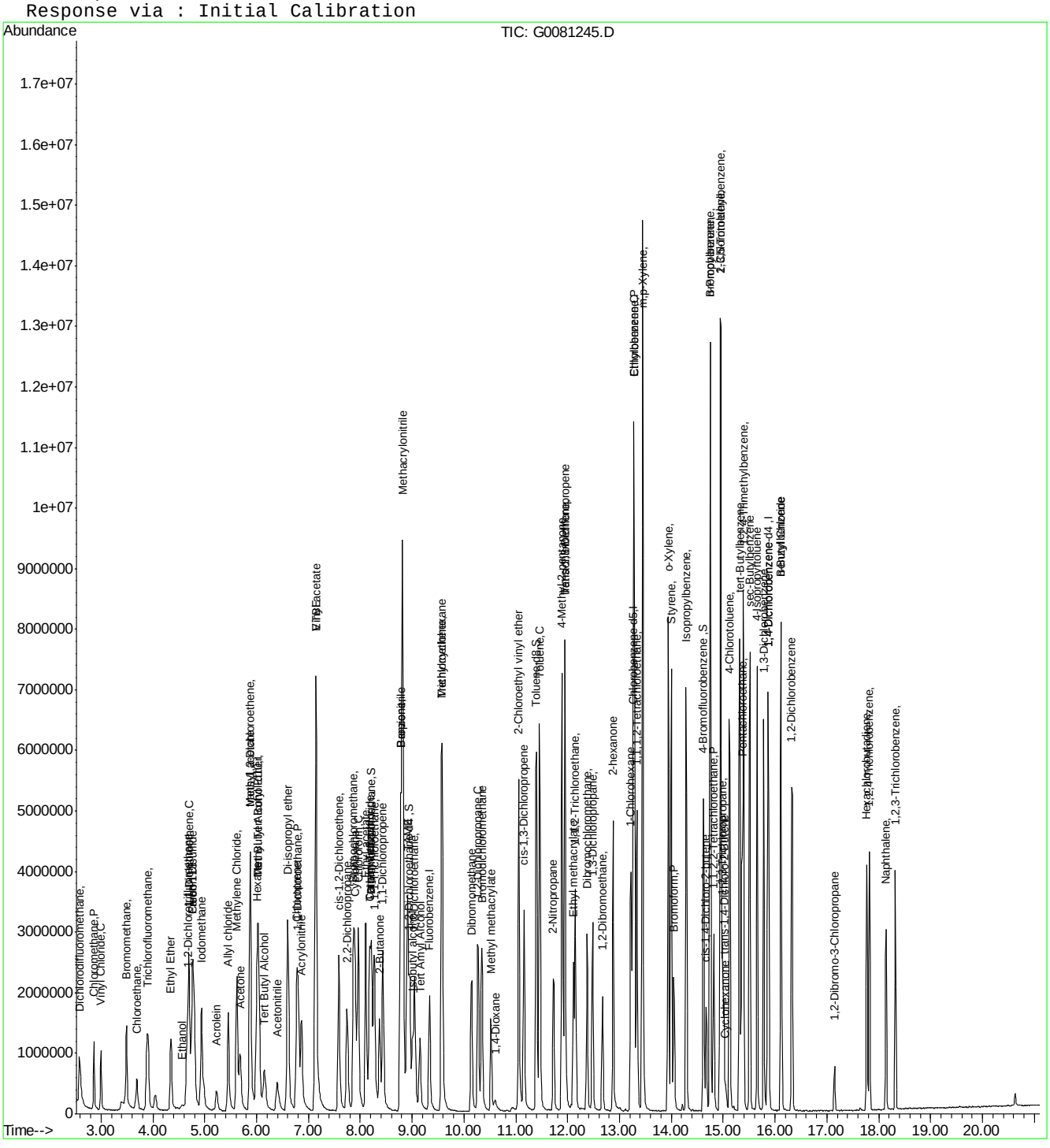
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	5075525	86.96	ug/Kg	100
92)	4-Isopropyltoluene	15.65	119	3949103	89.57	ug/Kg	99
93)	1,3-Dichlorobenzene	15.78	146	2413616	92.21	ug/Kg	89
94)	1,4-Dichlorobenzene	15.87	146	2389501	90.31	ug/Kg	95
95)	n-Butylbenzene	16.11	92	1945973	98.42	ug/Kg#	84
96)	Benzyl Chloride	16.12	126	340561	134.05	ug/Kg#	16
97)	1,2-Dichlorobenzene	16.33	146	2230029	92.24	ug/Kg	95
98)	1,2-Dibromo-3-Chloropropan	17.15	75	157620	99.20	ug/Kg	90
99)	Hexachlorobutadiene	17.77	225	625157	81.00	ug/Kg	89
100)	1,2,4-Trichlorobenzene	17.82	180	1107597	118.21	ug/Kg	95
101)	Naphthalene	18.14	128	2041497	135.18	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.32	180	970639	112.97	ug/Kg	97
104)	Ethanol	4.55	45	111230	1848.45	ug/Kg	86
105)	Acrolein	5.22	56	445819	509.66	ug/Kg	93
106)	Tert Butyl Alcohol	6.15	59	1132634	927.54	ug/Kg	94
107)	Isobutyl alcohol	9.01	42	411741	2310.72	ug/Kg	89
108)	Tert Amyl Alcohol	9.15	59	838138	1044.57	ug/Kg	91
109)	1,4-Dioxane	10.60	88	218392	1910.06	ug/Kg	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081245.D Vial: 5
Acq On : 25 Jul 2012 12:27 pm Operator: ericp
Sample : ICC3005-5 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:58 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081246.D Vial: 6
Acq On : 25 Jul 2012 12:54 pm Operator: ericp
Sample : IC3005-6 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:10:28 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:51:16 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.34	96	2154170	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1626383	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	767964	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	225560	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	2513448	158.32	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 316.64%#			
44) 1,2-Dichloroethane-d4	8.96	65	2513301	157.48	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 314.96%#			
55) Toluene-d8	11.40	98	7023311	150.78	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 301.56%#			
77) 4-Bromofluorobenzene	14.62	174	2244573	150.01	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 300.02%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	1960102	129.45	ug/Kg	92
3) Chloromethane	2.86	50	1723787	134.03	ug/Kg	96
4) Vinyl Chloride	3.00	62	1635264	128.25	ug/Kg	96
5) Bromomethane	3.48	94	1510223	120.05	ug/Kg	94
6) Chloroethane	3.69	64	947966	123.73	ug/Kg	97
7) Trichlorofluoromethane	3.89	101	3224518	131.25	ug/Kg	96
8) Ethyl Ether	4.35	59	1442966	146.60	ug/Kg	96
9) 1,2-Dichlorotrifluoroethan	4.66	67	2158781	130.29	ug/Kg	92
10) 1,1-Dichloroethene	4.69	61	2343437	131.68	ug/Kg	93
11) Freon 113	4.78	101	1833563	127.62	ug/Kg	96
12) Carbon Disulfide	4.76	76	4689806	144.74	ug/Kg	94
13) Iodomethane	4.94	142	4627474	142.18	ug/Kg	93
14) Allyl chloride	5.45	41	1923635	145.27	ug/Kg	97
15) Methylene Chloride	5.62	49	2390742	131.91	ug/Kg	97
16) Acetone	5.68	43	2541341	762.56	ug/Kg	99
17) Methyl acetate	5.87	43	5169591	741.29	ug/Kg	97
18) trans-1,2-Dichloroethene	5.87	61	2555575	136.87	ug/Kg	92
19) Hexane	6.00	56	1155046	126.26	ug/Kg	94
20) Methyl Tert Butyl Ether	6.03	73	6211830	148.25	ug/Kg	92
21) Acetonitrile	6.40	41	1489628	1560.30	ug/Kg	95
22) Di-isopropyl ether	6.60	45	5585584	142.69	ug/Kg	96
23) Chloroprene	6.77	53	2377767	144.90	ug/Kg	95
24) 1,1-Dichloroethane	6.81	63	3380200	139.63	ug/Kg	100
25) Acrylonitrile	6.87	53	2363427	887.87	ug/Kg	97
26) ETBE	7.14	59	6239008	146.95	ug/Kg	96
27) Vinyl acetate	7.14	43	13278774	775.72	ug/Kg	97
28) cis-1,2-Dichloroethene	7.59	96	2267727	143.78	ug/Kg	87
29) 2,2-Dichloropropane	7.74	77	2447313	131.45	ug/Kg	98
30) Bromochloromethane	7.87	128	1410021	147.30	ug/Kg	94
31) Cyclohexane	7.89	56	2198473	131.46	ug/Kg	91
32) Chloroform	7.96	83	4343743	143.11	ug/Kg	98
33) Ethyl acetate	8.11	43	7480335	830.99	ug/Kg	96
34) Tetrahydrofuran	8.19	42	402023	149.08	ug/Kg	86
36) Carbon Tetrachloride	8.18	117	2909147	144.39	ug/Kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081246.D Vial: 6
Acq On : 25 Jul 2012 12:54 pm Operator: ericp
Sample : IC3005-6 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:10:28 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:51:16 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	3442717	137.37 ug/Kg	97
38) 2-Butanone	8.38	43	3544734	869.09 ug/Kg	96
39) 1,1-Dichloropropene	8.43	75	2406666	137.06 ug/Kg	94
40) Propionitrile	8.79	54	1728594	1623.54 ug/Kg	85
41) Methacrylonitrile	8.82	41	8093352	1634.04 ug/Kg	99
42) Benzene	8.78	78	6531686	134.27 ug/Kg	99
43) TAME	8.92	73	5843369	153.89 ug/Kg	98
45) 1,2-Dichloroethane	9.04	62	3370412	147.17 ug/Kg	97
46) Trichloroethene	9.57	95	2114728	140.42 ug/Kg	97
47) Methylcyclohexane	9.58	83	2500102	131.62 ug/Kg	97
48) Dibromomethane	10.15	93	1611547	157.61 ug/Kg	96
49) 1,2-Dichloropropane	10.28	63	1782334	147.53 ug/Kg	94
50) Bromodichloromethane	10.34	83	3124947	165.03 ug/Kg	97
51) Methyl methacrylate	10.52	41	1210827	171.60 ug/Kg	92
52) 2-Chloroethyl vinyl ether	11.05	63	4077577	784.10 ug/Kg	97
53) cis-1,3-Dichloropropene	11.16	75	3340317	174.23 ug/Kg	93
56) Toluene	11.46	91	7796158	137.44 ug/Kg	93
57) 2-Nitropropane	11.73	41	2207928	774.77 ug/Kg	98
58) 4-Methyl-2-pentanone	11.89	43	7280357	815.55 ug/Kg	97
59) trans-1,3-Dichloropropene	11.95	75	2737903	164.23 ug/Kg	86
60) Tetrachloroethene	11.95	166	2250878	133.33 ug/Kg	96
61) Ethyl methacrylate	12.12	69	2170389	168.46 ug/Kg	90
62) 1,1,2-Trichloroethane	12.15	83	1481265	146.22 ug/Kg	95
63) Dibromochloromethane	12.37	129	2655737	173.78 ug/Kg	94
64) 1,3-Dichloropropane	12.48	76	2864685	146.88 ug/Kg	97
65) 1,2-Dibromoethane	12.67	107	2080446	162.07 ug/Kg	100
66) 2-hexanone	12.88	43	5261710	944.98 ug/Kg	98
67) 1-Chlorohexane	13.22	91	2271069	143.40 ug/Kg	95
68) Ethylbenzene	13.29	91	8317400	139.94 ug/Kg	96
69) Chlorobenzene	13.27	112	5241336	142.38 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	13.34	131	2235341	152.50 ug/Kg	98
71) m,p-Xylene	13.45	91	12141798	258.66 ug/Kg	76
72) o-Xylene	13.94	91	7262697	145.60 ug/Kg	98
73) Styrene	14.00	104	5230673	169.50 ug/Kg	92
74) Bromoform	14.05	173	1573448	165.13 ug/Kg	97
75) Isopropylbenzene	14.28	105	7322904	149.90 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.67	53	577876	178.34 ug/Kg	76
79) n-Propylbenzene	14.75	91	9150414	137.74 ug/Kg	97
80) Bromobenzene	14.76	156	2537383	141.28 ug/Kg	91
81) 1,1,2,2-Tetrachloroethane	14.82	83	2134569	147.55 ug/Kg	97
82) 1,3,5-Trimethylbenzene	14.95	105	7362686	135.30 ug/Kg	98
83) 2-Chlorotoluene	14.94	91	6918824	131.54 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	15.01	53	547875	172.46 ug/Kg	85
85) 1,2,3-Trichloropropane	14.98	110	688215	146.61 ug/Kg	99
86) Cyclohexanone	15.05	55	247629	783.53 ug/Kg	75
87) 4-Chlorotoluene	15.12	91	6181864	140.57 ug/Kg	97
88) tert-Butylbenzene	15.32	91	4332456	129.54 ug/Kg	96
89) 1,2,4-Trimethylbenzene	15.39	105	7346243	140.28 ug/Kg	98
90) Pentachloroethane	15.37	167	1186298	138.61 ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081246.D Vial: 6
Acq On : 25 Jul 2012 12:54 pm Operator: ericp
Sample : IC3005-6 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:10:28 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 12:51:16 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

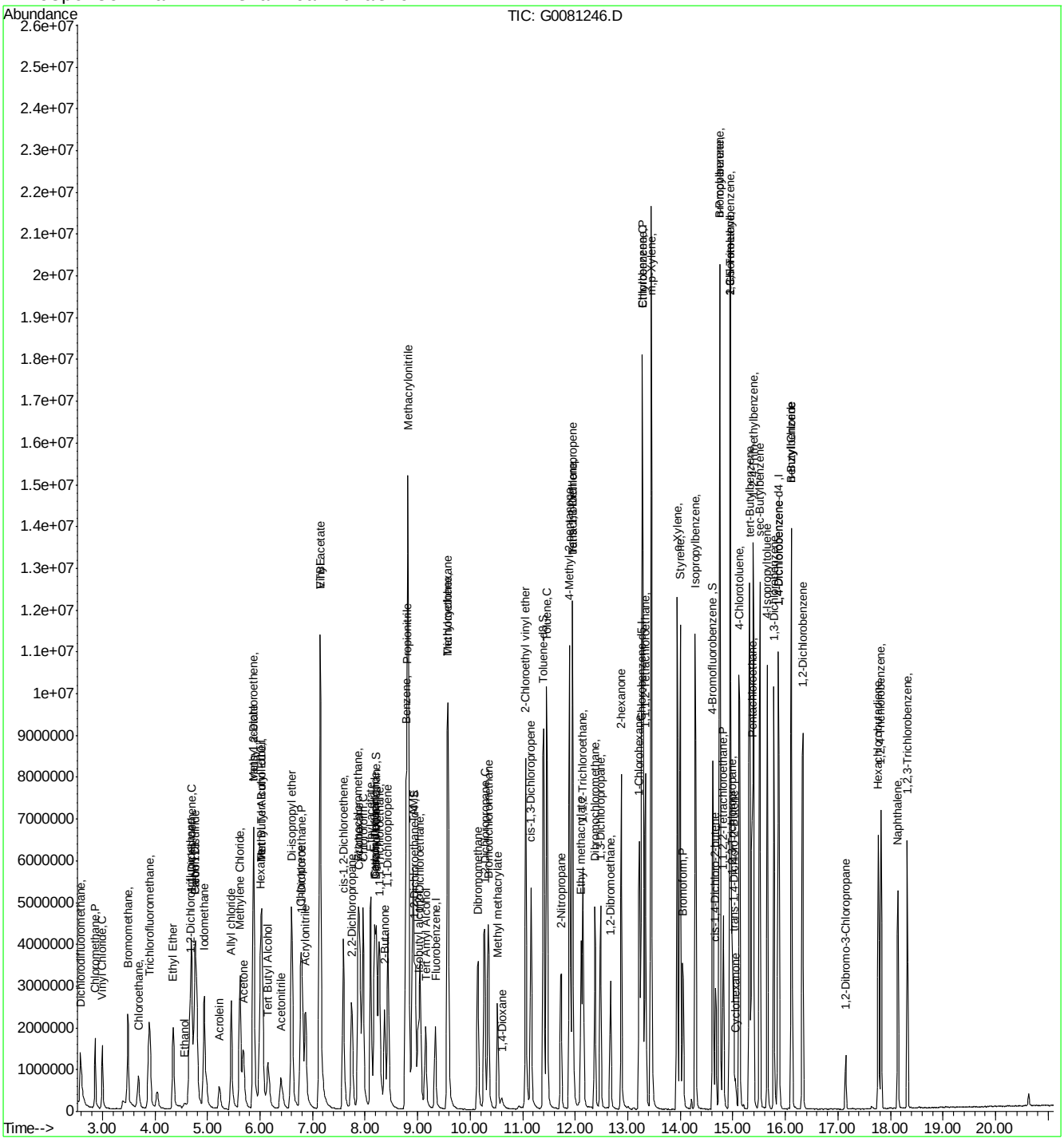
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	8038305	133.16	ug/Kg	98
92)	4-Isopropyltoluene	15.66	119	6146658	134.08	ug/Kg	98
93)	1,3-Dichlorobenzene	15.78	146	3856950	140.95	ug/Kg	90
94)	1,4-Dichlorobenzene	15.87	146	3886976	141.07	ug/Kg	96
95)	n-Butylbenzene	16.12	92	3236243	154.62	ug/Kg	88
96)	Benzyl Chloride	16.12	126	619206	175.92	ug/Kg#	5
97)	1,2-Dichlorobenzene	16.33	146	3656322	144.67	ug/Kg	96
98)	1,2-Dibromo-3-Chloropropan	17.15	75	265503	157.60	ug/Kg	87
99)	Hexachlorobutadiene	17.77	225	1017033	128.99	ug/Kg	88
100)	1,2,4-Trichlorobenzene	17.82	180	1875832	158.91	ug/Kg	97
101)	Naphthalene	18.14	128	3463492	164.08	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.32	180	1597660	170.68	ug/Kg	98
104)	Ethanol	4.56	45	168894	2848.08	ug/Kg	99
105)	Acrolein	5.22	56	689675	774.35	ug/Kg	97
106)	Tert Butyl Alcohol	6.15	59	1835551	1503.82	ug/Kg	92
107)	Isobutyl alcohol	9.02	42	656180	3521.29	ug/Kg	94
108)	Tert Amyl Alcohol	9.15	59	1367473	1665.46	ug/Kg	88
109)	1,4-Dioxane	10.60	88	334720	2912.47	ug/Kg	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081246.D Vial: 6
Acq On : 25 Jul 2012 12:54 pm Operator: ericp
Sample : IC3005-6 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:20 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081247.D Vial: 7
Acq On : 25 Jul 2012 1:21 pm Operator: ericp
Sample : IC3005-7 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:35:34 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 13:12:20 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.33	96	2267938	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.25	117	1721244	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.86	152	807851	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	6.04	65	251407	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.22	113	3516653	208.47	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 416.94%#			
44) 1,2-Dichloroethane-d4	8.96	65	3528770	208.28	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 416.56%#			
55) Toluene-d8	11.40	98	9548348	193.53	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 387.06%#			
77) 4-Bromofluorobenzene	14.62	174	3100439	196.97	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 393.94%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	2595677	166.63	ug/Kg	94
3) Chloromethane	2.86	50	2275716	171.10	ug/Kg	97
4) Vinyl Chloride	3.00	62	2141134	163.45	ug/Kg	96
5) Bromomethane	3.48	94	1972782	154.08	ug/Kg	99
6) Chloroethane	3.68	64	1191584	152.17	ug/Kg	95
7) Trichlorofluoromethane	3.89	101	4187277	165.33	ug/Kg	97
8) Ethyl Ether	4.35	59	1963786	190.23	ug/Kg	97
9) 1,2-Dichlorotrifluoroethan	4.68	67	2791054	163.59	ug/Kg	96
10) 1,1-Dichloroethene	4.69	61	3162085	172.28	ug/Kg	94
11) Freon 113	4.78	101	2466283	167.21	ug/Kg	98
12) Carbon Disulfide	4.76	76	6401578	188.77	ug/Kg	93
13) Iodomethane	4.94	142	6286696	185.08	ug/Kg	91
14) Allyl chloride	5.45	41	2645572	190.77	ug/Kg	95
15) Methylene Chloride	5.62	49	3187522	170.48	ug/Kg	94
16) Acetone	5.69	43	3546175	1007.88	ug/Kg	98
17) Methyl acetate	5.87	43	7014988	957.31	ug/Kg	94
18) trans-1,2-Dichloroethene	5.87	61	3482036	179.75	ug/Kg	93
19) Hexane	6.00	56	1559223	166.28	ug/Kg	93
20) Methyl Tert Butyl Ether	6.03	73	8601389	195.36	ug/Kg	89
21) Acetonitrile	6.40	41	2103684	2079.03	ug/Kg	96
22) Di-isopropyl ether	6.60	45	7697878	188.31	ug/Kg	96
23) Chloroprene	6.77	53	3245670	188.94	ug/Kg	96
24) 1,1-Dichloroethane	6.80	63	4577725	181.70	ug/Kg	97
25) Acrylonitrile	6.87	53	3278650	1135.13	ug/Kg	96
26) ETBE	7.13	59	8596855	192.99	ug/Kg	98
27) Vinyl acetate	7.14	43	17482243	949.43	ug/Kg	94
28) cis-1,2-Dichloroethene	7.59	96	3120121	189.21	ug/Kg	85
29) 2,2-Dichloropropane	7.74	77	3237344	168.64	ug/Kg	100
30) Bromochloromethane	7.86	128	1961177	195.19	ug/Kg	98
31) Cyclohexane	7.90	56	2944211	170.73	ug/Kg	90
32) Chloroform	7.96	83	5956620	187.85	ug/Kg	99
33) Ethyl acetate	8.10	43	10456251	1083.81	ug/Kg	94
34) Tetrahydrofuran	8.19	42	569465	200.79	ug/Kg	92
36) Carbon Tetrachloride	8.18	117	3972450	188.45	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081247.D Vial: 7
Acq On : 25 Jul 2012 1:21 pm Operator: ericp
Sample : IC3005-7 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:35:34 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 13:12:20 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	8.27	97	4673656	179.66 ug/Kg	97
38) 2-Butanone	8.38	43	5021024	1139.14 ug/Kg	94
39) 1,1-Dichloropropene	8.43	75	3259520	178.89 ug/Kg	95
40) Propionitrile	8.79	54	2435935	2143.70 ug/Kg	81
41) Methacrylonitrile	8.82	41	10964851	2071.88 ug/Kg	97
42) Benzene	8.78	78	8996294	178.79 ug/Kg	99
43) TAME	8.92	73	8151839	203.04 ug/Kg	99
45) 1,2-Dichloroethane	9.04	62	4552507	189.41 ug/Kg	98
46) Trichloroethene	9.57	95	2840165	181.05 ug/Kg	94
47) Methylcyclohexane	9.58	83	3413339	174.24 ug/Kg	97
48) Dibromomethane	10.14	93	2268665	208.98 ug/Kg	93
49) 1,2-Dichloropropane	10.27	63	2424595	191.15 ug/Kg	94
50) Bromodichloromethane	10.34	83	4313399	212.82 ug/Kg	99
51) Methyl methacrylate	10.52	41	1712401	225.11 ug/Kg	92
52) 2-Chloroethyl vinyl ether	11.05	63	5906949	1048.70 ug/Kg	97
53) cis-1,3-Dichloropropene	11.16	75	4495054	216.86 ug/Kg	95
56) Toluene	11.46	91	10229633	172.82 ug/Kg	95
57) 2-Nitropropane	11.73	41	3215367	1044.26 ug/Kg	97
58) 4-Methyl-2-pentanone	11.89	43	9992198	1042.46 ug/Kg	96
59) trans-1,3-Dichloropropene	11.95	75	3816312	212.93 ug/Kg	91
60) Tetrachloroethene	11.95	166	3154616	179.90 ug/Kg	94
61) Ethyl methacrylate	12.12	69	3072799	209.06 ug/Kg	89
62) 1,1,2-Trichloroethane	12.15	83	2038433	190.93 ug/Kg	94
63) Dibromochloromethane	12.37	129	3744956	225.59 ug/Kg	95
64) 1,3-Dichloropropane	12.48	76	4003959	194.66 ug/Kg	98
65) 1,2-Dibromoethane	12.67	107	2977446	216.26 ug/Kg	100
66) 2-hexanone	12.88	43	7371241	1198.93 ug/Kg	96
67) 1-Chlorohexane	13.22	91	3087088	185.54 ug/Kg	91
68) Ethylbenzene	13.29	91	10993441	176.74 ug/Kg	93
69) Chlorobenzene	13.27	112	7179793	185.86 ug/Kg	98
70) 1,1,1,2-Tetrachloroethane	13.34	131	3095650	199.00 ug/Kg	97
71) m,p-Xylene	13.45	91	14015354	288.75 ug/Kg#	54
72) o-Xylene	13.94	91	9521461	181.25 ug/Kg	93
73) Styrene	14.00	104	7198089	215.73 ug/Kg	92
74) Bromoform	14.05	173	2230162	207.87 ug/Kg	96
75) Isopropylbenzene	14.28	105	9684971	187.35 ug/Kg	98
78) cis-1,4-Dichloro-2-butene	14.67	53	804390	228.78 ug/Kg#	70
79) n-Propylbenzene	14.75	91	11219851	162.77 ug/Kg	87
80) Bromobenzene	14.76	156	3412699	182.40 ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	14.82	83	2961982	195.17 ug/Kg	99
82) 1,3,5-Trimethylbenzene	14.95	105	9351201	166.06 ug/Kg	95
83) 2-Chlorotoluene	14.94	91	9130180	168.47 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	15.01	53	814492	237.79 ug/Kg	92
85) 1,2,3-Trichloropropane	14.98	110	919956	187.00 ug/Kg	98
86) Cyclohexanone	15.05	55	346307	933.16 ug/Kg	79
87) 4-Chlorotoluene	15.12	91	8327044	181.90 ug/Kg	94
88) tert-Butylbenzene	15.32	91	5687821	165.43 ug/Kg	94
89) 1,2,4-Trimethylbenzene	15.39	105	9647665	177.04 ug/Kg	99
90) Pentachloroethane	15.37	167	1618813	182.11 ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081247.D Vial: 7
Acq On : 25 Jul 2012 1:21 pm Operator: ericp
Sample : IC3005-7 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:35:34 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 13:12:20 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

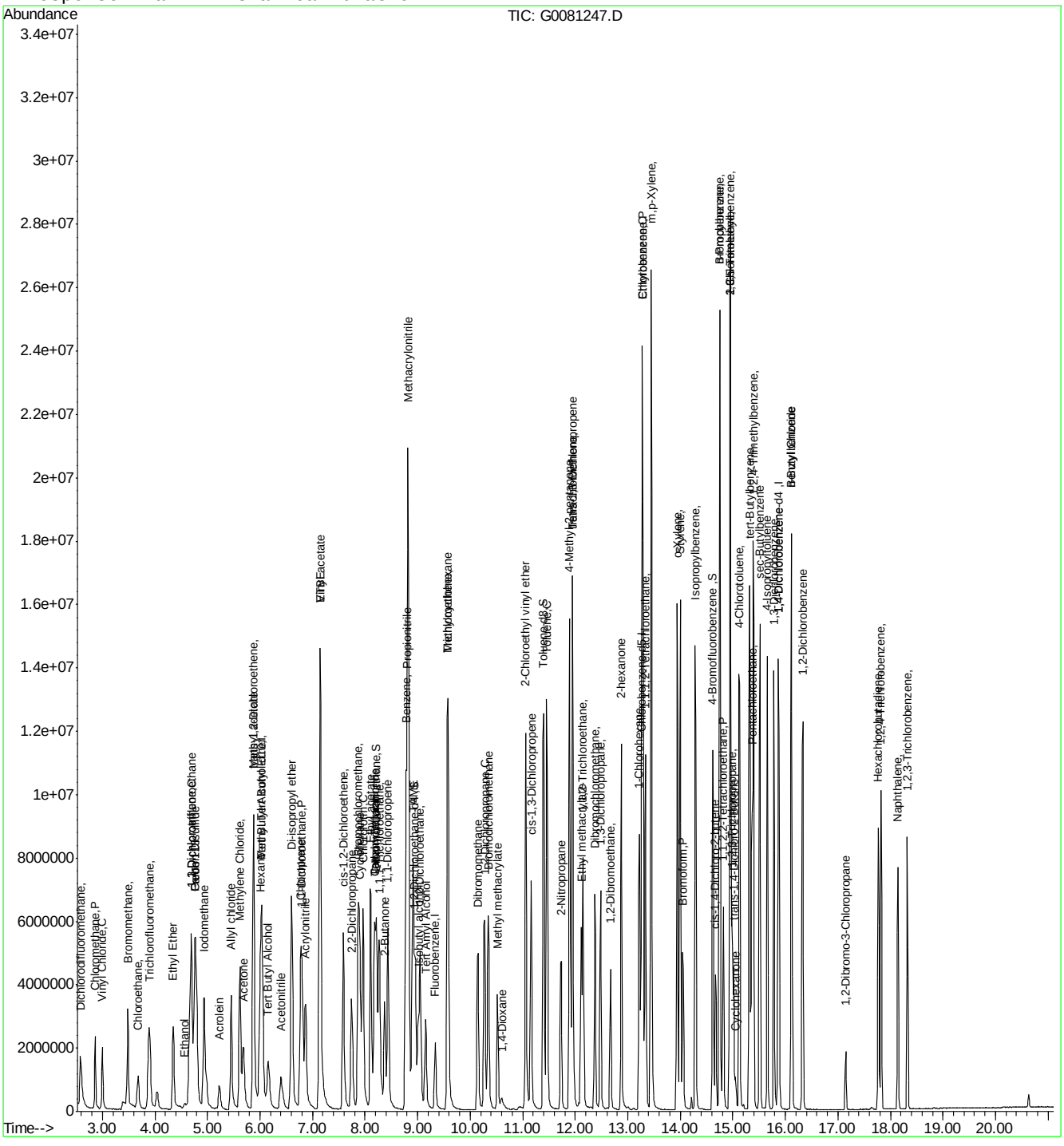
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.51	105	10073159	161.66	ug/Kg	94
92)	4-Isopropyltoluene	15.65	119	8231430	173.77	ug/Kg	99
93)	1,3-Dichlorobenzene	15.78	146	5276807	185.18	ug/Kg	96
94)	1,4-Dichlorobenzene	15.88	146	5239172	182.57	ug/Kg	94
95)	n-Butylbenzene	16.12	92	4446672	200.93	ug/Kg	93
96)	Benzyl Chloride	16.13	126	885679	215.61	ug/Kg#	6
97)	1,2-Dichlorobenzene	16.33	146	4995226	189.00	ug/Kg	96
98)	1,2-Dibromo-3-Chloropropan	17.15	75	400148	223.90	ug/Kg	87
99)	Hexachlorobutadiene	17.77	225	1376041	169.87	ug/Kg	84
100)	1,2,4-Trichlorobenzene	17.82	180	2646868	205.43	ug/Kg	97
101)	Naphthalene	18.14	128	4986413	211.96	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.32	180	2139189	212.37	ug/Kg	97
104)	Ethanol	4.56	45	220862	3369.96	ug/Kg	99
105)	Acrolein	5.22	56	964056	965.91	ug/Kg	97
106)	Tert Butyl Alcohol	6.16	59	2632724	1934.35	ug/Kg	89
107)	Isobutyl alcohol	9.02	42	957268	4479.18	ug/Kg	93
108)	Tert Amyl Alcohol	9.15	59	1992336	2137.72	ug/Kg	86
109)	1,4-Dioxane	10.60	88	500488	3926.22	ug/Kg	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081247.D Vial: 7
Acq On : 25 Jul 2012 1:21 pm Operator: ericp
Sample : IC3005-7 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:45 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/26/12 14:26

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:34:03 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.35	96	2249315	50.00	ug/Kg	0.01
54) Chlorobenzene-d5	13.27	117	1617228	50.00	ug/Kg	0.02
76) 1,4-Dichlorobenzene-d4	15.87	152	689854	50.00	ug/Kg	0.01
103) Tert Butyl Alcohol-d10	6.04	65	231378	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	8.23	113	800280	47.55	ug/Kg	0.01
Spiked Amount 50.000	Range 80 - 121		Recovery = 95.10%			
44) 1,2-Dichloroethane-d4	8.97	65	753605	44.59	ug/Kg	0.01
Spiked Amount 50.000	Range 77 - 123		Recovery = 89.18%			
55) Toluene-d8	11.41	98	2185793	47.37	ug/Kg	0.01
Spiked Amount 50.000	Range 71 - 130		Recovery = 94.74%			
77) 4-Bromofluorobenzene	14.64	174	663384	49.46	ug/Kg	0.01
Spiked Amount 50.000	Range 59 - 148		Recovery = 98.92%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.59	85	865704	57.40	ug/Kg	93
3) Chloromethane	2.86	50	731620	56.63	ug/Kg	98
4) Vinyl Chloride	3.00	62	674622	53.32	ug/Kg	91
5) Bromomethane	3.49	94	708469	55.79	ug/Kg	93
6) Chloroethane	3.70	64	383167	49.34	ug/Kg	92
7) Trichlorofluoromethane	3.90	101	1306583	53.34	ug/Kg	99
8) Ethyl Ether	4.35	59	486671	47.87	ug/Kg	98
9) 1,2-Dichlorotrifluoroethan	4.66	67	731495	44.38	ug/Kg	96
10) 1,1-Dichloroethene	4.69	61	883201	49.50	ug/Kg	98
11) Freon 113	4.78	101	666928	46.68	ug/Kg	97
12) Carbon Disulfide	4.77	76	1550550	46.47	ug/Kg	96
13) Iodomethane	4.94	142	1613065	48.40	ug/Kg	93
14) Allyl chloride	5.46	41	730646	53.48	ug/Kg	96
15) Methylene Chloride	5.62	49	855913	47.15	ug/Kg	93
16) Acetone	5.69	43	860075	246.19	ug/Kg	89
17) Methyl acetate	5.88	43	1736434	240.39	ug/Kg	94
18) trans-1,2-Dichloroethene	5.88	61	932511	49.25	ug/Kg	90
19) Hexane	6.01	56	408969	45.06	ug/Kg	96
20) Methyl Tert Butyl Ether	6.04	73	2083443	47.87	ug/Kg	88
21) Acetonitrile	6.41	41	495782	491.25	ug/Kg	98
22) Di-isopropyl ether	6.61	45	1935318	48.14	ug/Kg	93
23) Chloroprene	6.78	53	919565	54.40	ug/Kg	94
24) 1,1-Dichloroethane	6.81	63	1204524	48.85	ug/Kg	98
25) Acrylonitrile	6.87	53	710706	243.40	ug/Kg	93
26) ETBE	7.15	59	2066685	47.01	ug/Kg	98
27) Vinyl acetate	7.15	43	4034532	227.00	ug/Kg	97
28) cis-1,2-Dichloroethene	7.60	96	804313	49.56	ug/Kg	88
29) 2,2-Dichloropropane	7.76	77	914871	49.15	ug/Kg	98
30) Bromochloromethane	7.88	128	465728	46.90	ug/Kg	95
31) Cyclohexane	7.91	56	771394	46.07	ug/Kg	86
32) Chloroform	7.97	83	1540358	49.41	ug/Kg	97
33) Ethyl acetate	8.12	43	2411403	249.03	ug/Kg	93
34) Tetrahydrofuran	8.20	42	140979	50.09	ug/Kg	94
36) Carbon Tetrachloride	8.20	117	1037312	50.03	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:34:03 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,1,1-Trichloroethane	8.28	97	1264997	49.75	ug/Kg	96
38)	2-Butanone	8.39	43	1062491	238.31	ug/Kg	91
39)	1,1-Dichloropropene	8.45	75	881009	49.50	ug/Kg	92
40)	Propionitrile	8.80	54	586159	514.82	ug/Kg	84
41)	Methacrylonitrile	8.83	41	2879411	545.79	ug/Kg	98
42)	Benzene	8.79	78	2342987	47.67	ug/Kg	97
43)	TAME	8.93	73	1895141	47.49	ug/Kg	97
45)	1,2-Dichloroethane	9.07	62	1138467	48.12	ug/Kg	97
46)	Trichloroethene	9.59	95	764109	49.79	ug/Kg	94
47)	Methylcyclohexane	9.59	83	890800	46.71	ug/Kg	98
48)	Dibromomethane	10.16	93	518838	47.88	ug/Kg	99
49)	1,2-Dichloropropane	10.29	63	599568	47.96	ug/Kg	96
50)	Bromodichloromethane	10.37	83	999902	49.29	ug/Kg	96
51)	Methyl methacrylate	10.53	41	422033	54.95	ug/Kg	95
52)	2-Chloroethyl vinyl ether	11.07	63	1149856	211.76	ug/Kg	95
53)	cis-1,3-Dichloropropene	11.17	75	1027608	49.39	ug/Kg	97
56)	Toluene	11.48	91	2672436	49.00	ug/Kg	92
57)	2-Nitropropane	11.74	41	637332	224.91	ug/Kg	95
58)	4-Methyl-2-pentanone	11.91	43	2225436	245.62	ug/Kg	94
59)	trans-1,3-Dichloropropene	11.97	75	944092	55.55	ug/Kg	87
60)	Tetrachloroethene	11.96	166	808578	49.79	ug/Kg	96
61)	Ethyl methacrylate	12.13	69	635035	49.57	ug/Kg	93
62)	1,1,2-Trichloroethane	12.17	83	496529	49.82	ug/Kg	94
63)	Dibromochloromethane	12.39	129	824630	51.92	ug/Kg	96
64)	1,3-Dichloropropane	12.50	76	930114	48.31	ug/Kg	98
65)	1,2-Dibromoethane	12.69	107	661234	50.53	ug/Kg	99
66)	2-hexanone	12.90	43	1504812	253.30	ug/Kg	99
67)	1-Chlorohexane	13.24	91	786305	50.82	ug/Kg	89
68)	Ethylbenzene	13.30	91	2930627	50.99	ug/Kg	99
69)	Chlorobenzene	13.29	112	1808071	50.32	ug/Kg	99
70)	1,1,1,2-Tetrachloroethane	13.36	131	744133	50.95	ug/Kg	99
71)	m,p-Xylene	13.47	91	4658123	106.37	ug/Kg	96
72)	o-Xylene	13.96	91	2472985	50.78	ug/Kg	98
73)	Styrene	14.02	104	1657493	52.28	ug/Kg	88
74)	Bromoform	14.07	173	437909	46.22	ug/Kg	94
75)	Isopropylbenzene	14.30	105	2784491	57.85	ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	14.69	53	158738	51.80	ug/Kg	80
79)	n-Propylbenzene	14.77	91	2968095	51.80	ug/Kg	98
80)	Bromobenzene	14.77	156	797828	50.57	ug/Kg	95
81)	1,1,2,2-Tetrachloroethane	14.84	83	619335	47.95	ug/Kg	97
82)	1,3,5-Trimethylbenzene	14.97	105	2302852	49.08	ug/Kg	94
83)	2-Chlorotoluene	14.96	91	2243870	49.60	ug/Kg	97
84)	trans-1,4-Dichloro-2-Buten	15.03	53	140990	46.94	ug/Kg	80
85)	1,2,3-Trichloropropane	15.00	110	202256	48.60	ug/Kg	94
86)	Cyclohexanone	15.06	55	69877	222.62	ug/Kg	89
87)	4-Chlorotoluene	15.14	91	1928171	49.97	ug/Kg	100
88)	tert-Butylbenzene	15.34	91	1424766	49.76	ug/Kg	93
89)	1,2,4-Trimethylbenzene	15.41	105	2250369	49.17	ug/Kg	99
90)	Pentachloroethane	15.38	167	476800	62.02	ug/Kg	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:34:03 2012 Quant Results File: 072512APP9-G.RES

Quant Method : C:\MSDCHEM\1...\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

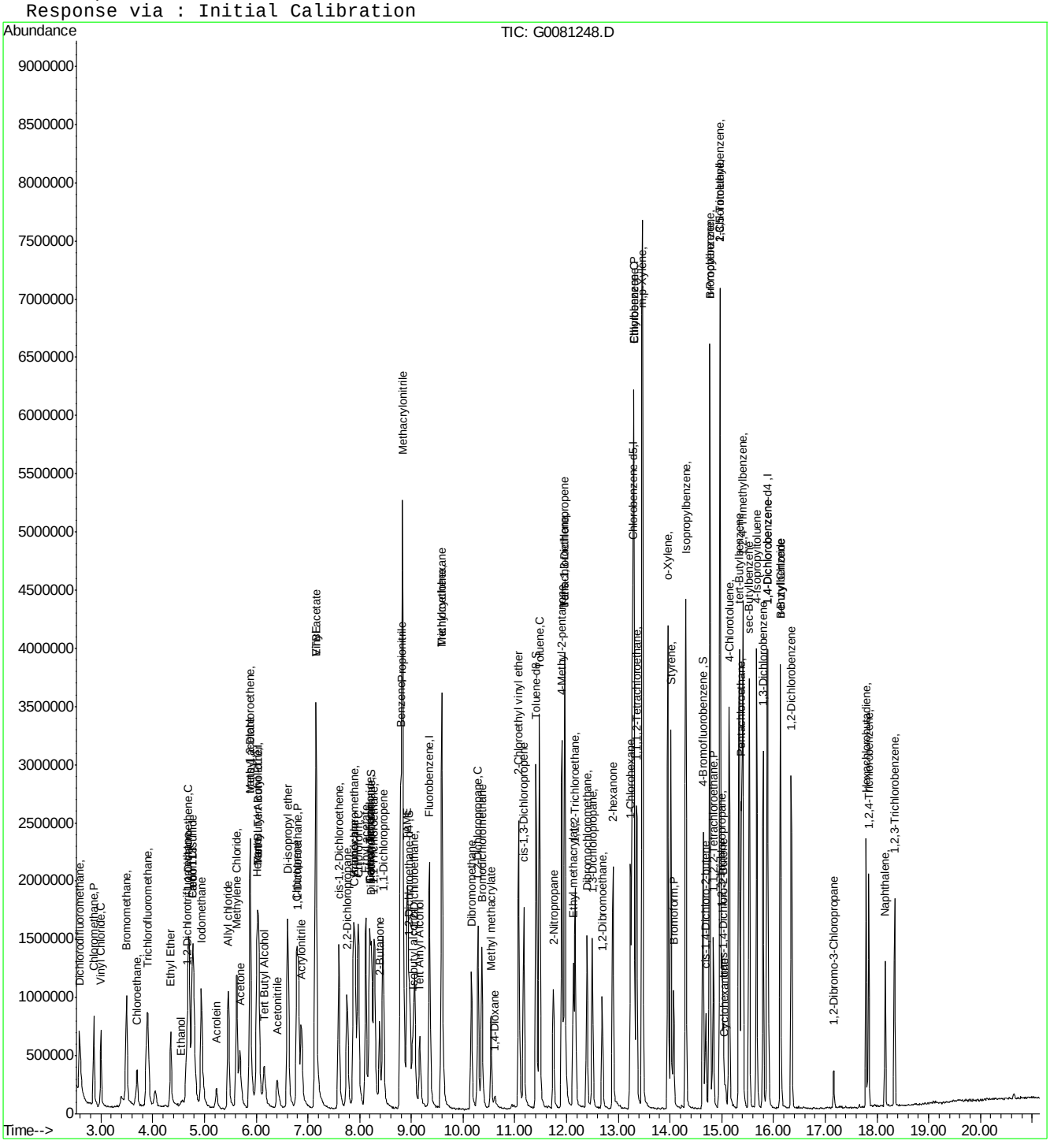
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.53	105	2666249	51.52	ug/Kg	98
92)	4-Isopropyltoluene	15.67	119	2100971	52.93	ug/Kg	99
93)	1,3-Dichlorobenzene	15.80	146	1219914	50.67	ug/Kg	88
94)	1,4-Dichlorobenzene	15.89	146	1212175	50.09	ug/Kg	97
95)	n-Butylbenzene	16.14	92	987319	52.21	ug/Kg	92
96)	Benzyl Chloride	16.15	126	155114	49.06	ug/Kg#	4
97)	1,2-Dichlorobenzene	16.34	146	1160173	51.81	ug/Kg	97
98)	1,2-Dibromo-3-Chloropropan	17.17	75	79254	51.06	ug/Kg	84
99)	Hexachlorobutadiene	17.79	225	360970	53.33	ug/Kg	92
100)	1,2,4-Trichlorobenzene	17.84	180	533455	50.31	ug/Kg	95
101)	Naphthalene	18.16	128	909822	43.90	ug/Kg	100
102)	1,2,3-Trichlorobenzene	18.34	180	465660	53.66	ug/Kg	94
104)	Ethanol	4.56	45	64558m	1094.95	ug/Kg	
105)	Acrolein	5.23	56	236139	258.33	ug/Kg	99
106)	Tert Butyl Alcohol	6.15	59	608201	487.84	ug/Kg	91
107)	Isobutyl alcohol	9.03	42	199122	995.34	ug/Kg	88
108)	Tert Amyl Alcohol	9.16	59	414143	478.13	ug/Kg	90
109)	1,4-Dioxane	10.61	88	107242	916.53	ug/Kg	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:44 2012 Quant Results File: 072512APP9-G.RES

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Thu Jul 26 08:33:06 2012
Response via : Initial Calibration



Manual Integration Approval Summary

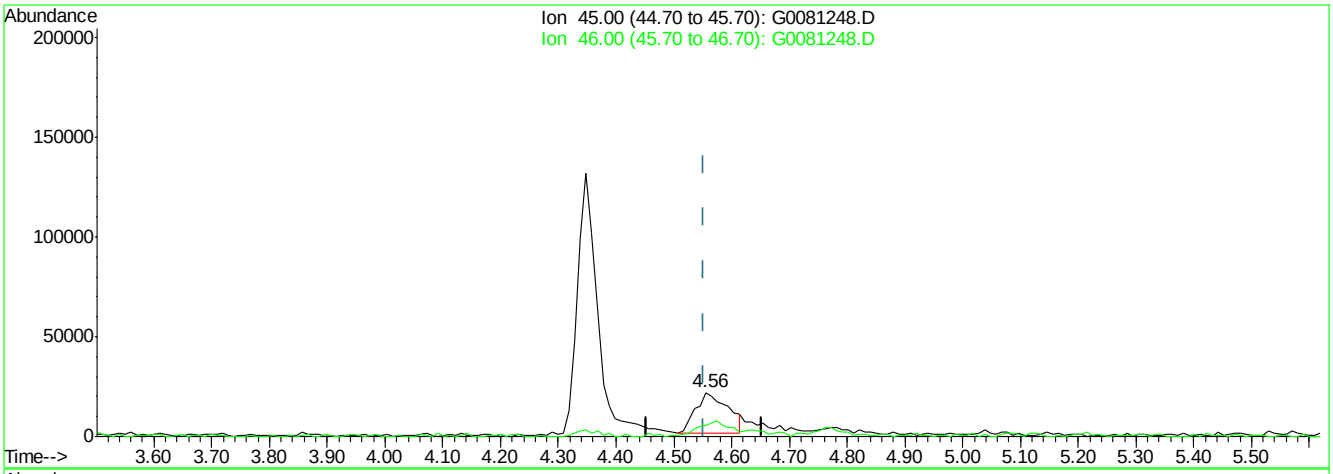
Sample Number:	VG3005-ICV3005	**Method:**	SW846 8260B
Lab FileID:	G0081248.D	**Analyst approved:**	07/26/12 11:19 Eric Parrish
Injection Time:	07/25/12 14:18	**Supervisor approved:**	07/26/12 14:26 Karen Watson

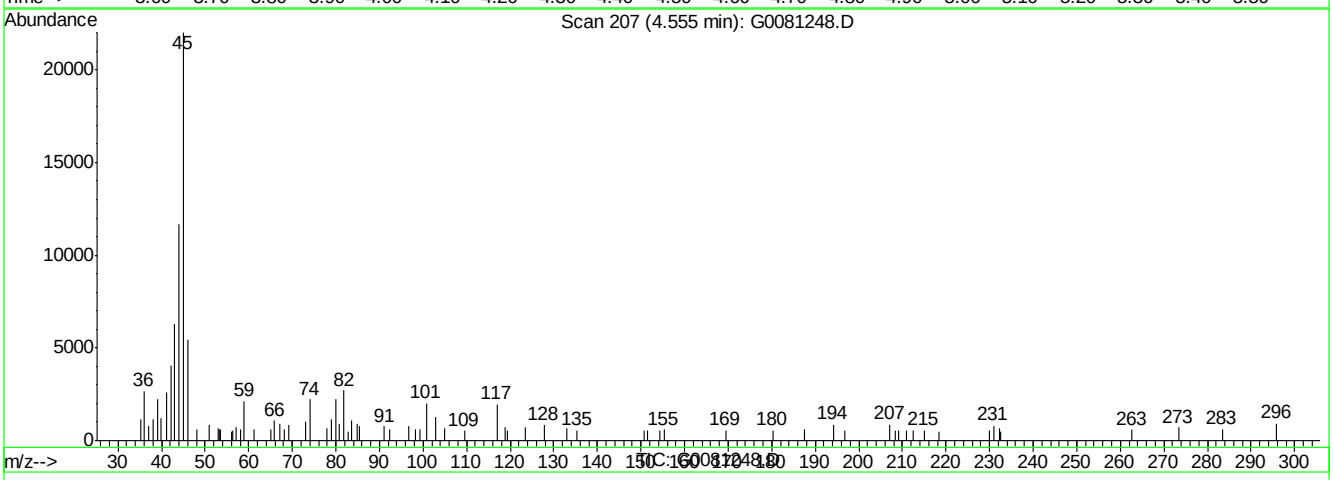
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl alcohol	64-17-5		4.56	Poor instrument integration

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:44 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Multiple Level Calibration





(104) Ethanol

4.56min (+0.002) 1369.47ug/Kg

response 80744

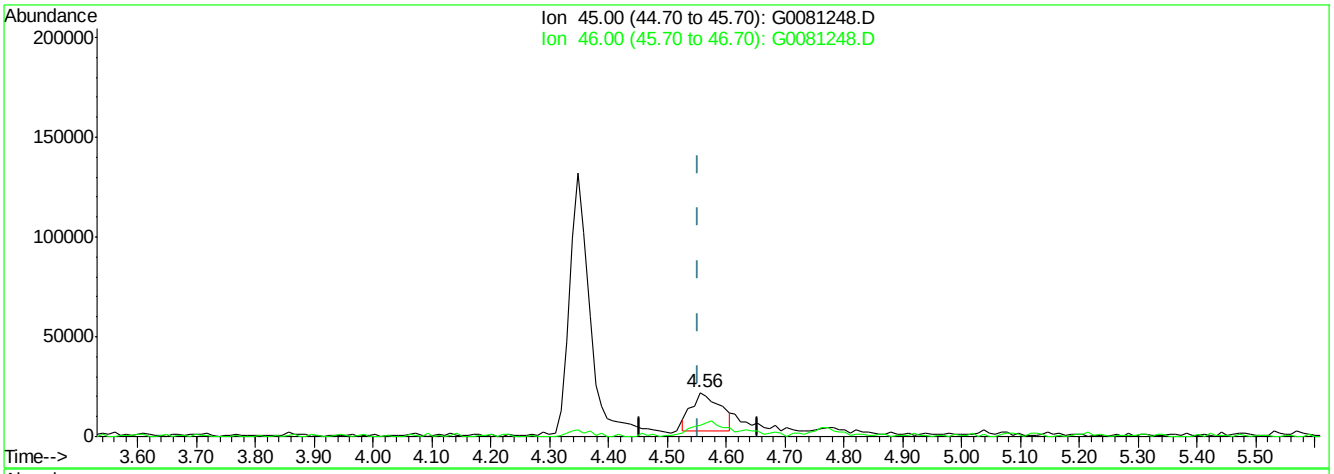
Ion	Exp%	Act%
45.00	100	100
46.00	35.30	24.17
0.00	0.00	0.00
0.00	0.00	0.00

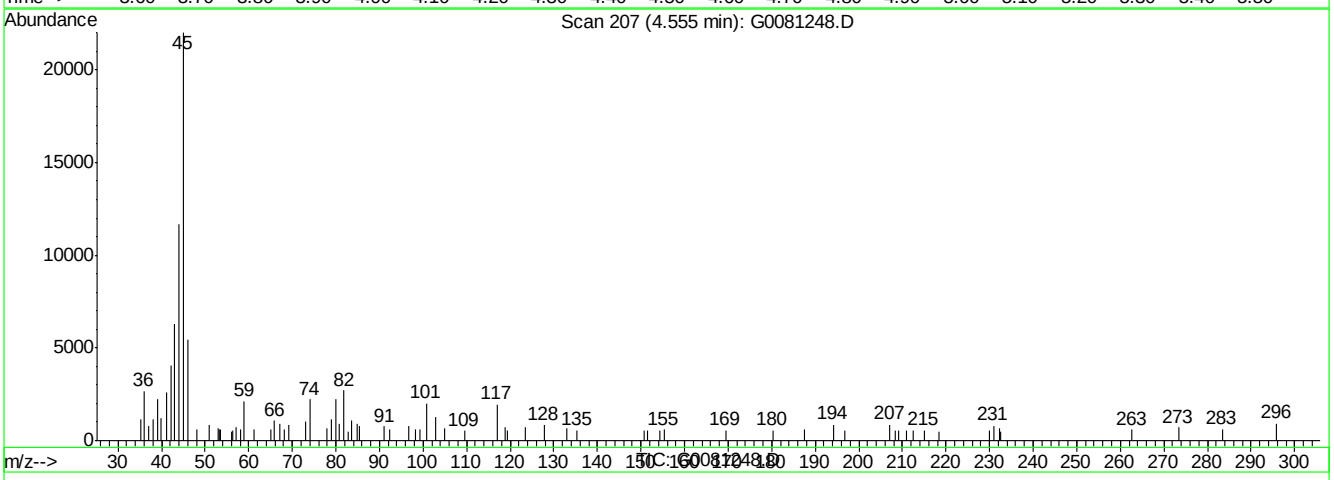
G0081248.D 072512APP9-G.M Wed Jul 25 14:34:47 2012

Quantitation Report (Qedit)

Data File : G:\1\DATA\072512\G0081248.D Vial: 8
Acq On : 25 Jul 2012 2:18 pm Operator: ericp
Sample : ICV3005-4 Inst : MSVOA1
Misc : ms21569,vg3005,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 14:44 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072512APP9-G.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Jul 25 14:34:00 2012
Response via : Multiple Level Calibration





(104) Ethanol

4.56min (+0.002) 1094.95ug/Kg m

response 64558

Ion	Exp%	Act%
45.00	100	100
46.00	35.30	24.86
0.00	0.00	0.00
0.00	0.00	0.00

G0081248.D 072512APP9-G.M Wed Jul 25 14:35:04 2012

ACCUTEST LABORATORIES SE

DATE:	7-25-12
COLUMN TYPE:	RTX Vms
DETECTOR:	5970 MSD
INSTRUMENT:	MSVOA1-G
PURGE PRESSURE:	20
ANALYST:	SJ

MS VOA1-G ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	072512AMA-G
CALIB. DATE:	07-25-12
EM VOLTAGE:	1541
BFB RESPONSE:	
RUN ID:	VG 3005

STANDARDS

BFB:	V14382
ICAL/CCV:	V14458, V14367, V14414, V14397A, V14438A
ISTD/SURR:	V14413
ICV/QC:	V14469, V14368, V14415, V14398A, V14439A
STD B = 250 µm = 75ml each / 24ml	
METHANOL LOT #:	K08601

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
G	D081239	BFB	—	—	—	—		—		—	STD A = 250 µm = 60ml each / 24ml
G	1240	CC2997-4 / BFB	—	—	—	—	1	—		—	1ml STD A / 5mL
G	1241	IC3005-1	—	—	—	—	1	—		—	0.1ml STD A / 5ml Surr = 50 (1ml)
G	1242	IC3005-2	—	—	—	—	2	—		—	0.2ml STD A / 5ml Surr = 70 (2ml)
G	1243	IC3005-3	—	—	—	—	3	—		—	0.4ml STD A / 5ml Surr = 90 (4ml)
G	1244	IC3005-4	—	—	—	—	4	—		—	1ml STD A / 5ml Surr = 50 (1ml)
G	1245	IC3005-5	—	—	—	—	5	—		—	2ml STD A / 5ml Surr = 100 (5ml)
G	1246	IC3005-6	—	—	—	—	6	—		—	3ml STD A / 5ml Surr = 150 (10ml)
G	1247	IC3005-7	—	—	—	—	7	—		—	4ml STD A / 5ml Surr = 200 (10ml)
G	1248	ICV3005-4	—	—	—	—	8	—		—	1ml STD B / 5ml
G	1249	BS	—	—	—	—	9	—		—	1ml STD B / 5ml
G	1250	MB	—	—	—	—	10	—		—	
.75 G	1251	F95217-1	R1735	S	8.14	—	11	PT		—	
G	1252	-2	R1739	S	6.91	—	12	PT		—	ISTD4↓ not required
G	1253	-3	R1743	S	8.67	—	13	PT		—	ISTD4↓ not Requir
G	1254	-4	R1747	S	5.84	—	14	PT		—	
G	1255	-5	R1751	S	5.79	—	15	PT		—	
G	1256	-6	R1755	S	7.05	—	16	PT		—	
653 G	1257	F95084-2,50x	R1517	S	5.26	100	17	PT	e-Combine	—	
675 G	1258	F95196-1	R1718	S	7.59	—	18	PT		RR	SS3↑,4↓ ISTD2,3,4↓
G	1259	F95217-1ms	—	S	5.01	—	19	—		—	1ml STD B added to vial
G	1260	-1msD	—	S	5.02	—	20	/		—	" " " "
G	1261	F95227-1	R1792	S	4.34	—	21	PT		—	ISTD3↓ not Required
G	1262	-2	R1795	S	4.71	—	22	PT		—	
G	1263	-3	R1798	S	7.64	—	23	PT		—	ISTD3↓ not Required
G	1264	-4	R1801	S	5.85	—	24	PT		—	
G	1265	-5	R1804	S	7.33	—	25	PT		RR	MISS 12hr Clock

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and 'TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa1_g_log.xls NF 08/10

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments [low soil comments, not accutest vials]
R1723	F95208-1	W	35.25	40.14	4.89	7/25/12	10:22	AD	PT	Preserved (NaHSO4)
24	-1	M	36.94	38.34	1.40					(MeOH)
25	F95208-3	W	35.84	40.31	4.47					(NaHSO4)
26	-3	W	35.50	40.25	4.75					
27	-3	M	32.43	37.12	4.69					(MeOH)
28	F95208-4	W	34.99	39.80	4.81					(NaHSO4)
29	-4	W	36.22	40.86	4.64					
30	-4	M	32.50	36.89	4.39		10:38			(MeOH)
31	F95212-3	W	30.78	39.71	8.93		11:25			In
32	-3	W	30.55	39.35	8.80					
33	-3	M	29.52	39.55	10.03					
34	F95217-1	W	30.53	39.40	8.87					
35	-1	W	30.42	38.56	8.14					
36	-1	M	28.87	37.09	8.22					
37	-1	M	29.64	36.62	6.98					
38	F95217-2	W	30.40	38.46	8.06					
39	-2	W	30.04	36.95	6.91					
40	-2	M	29.12	35.78	6.66					
41	-2	M	29.33	35.86	6.53					
42	F95217-3	W	30.47	37.34	6.87					
43	-3	W	30.04	38.71	8.67					
44	-3	M	28.93	33.99	5.06					
R1745	-3	M	29.55	36.80	7.25		11:42			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial # 4 AD 7/25/12	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1726	F95217-4	W	30.42	35.98	5.56	7/25/12	11:42	AD	PT	In
47	-4	W	30.41	36.25	5.84					
48	-4	M	29.02	35.13	6.11					
49	-4	M	29.35	34.31	4.96					
50	F95217-5	W	30.06	35.91	5.85					
51	-5	W	30.06	35.85	5.79					
52	-5	M	28.97	33.76	4.79					
53	-5	M	29.35	34.50	5.15					
54	F95217-6	W	30.61	38.04	7.43					
55	-6	W	30.29	37.34	7.05					
56	-6	M	28.94	35.37	6.43					
57	-6	M	29.39	36.41	7.02		11:55			
58	F95220-1	W	30.30	38.75	8.45		13:25			
59	-1	W	30.27	38.55	8.28					
60	-1	M	29.35	37.00	7.65					
61	F95220-2	W	30.53	36.89	6.36					
62	-2	W	30.37	39.00	8.63					
63	-2	M	29.60	37.28	7.68					
64	F95220-3	W	30.43	38.34	7.91					
65	-3	W	30.41	37.67	7.26					
66	-3	M	29.66	37.28	7.62					
67	F95220-4	W	30.53	38.77	8.24					
R1768	-4	W	30.80	38.29	7.49		13:40			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R15116	F95084-2	W	31.33	36.60	5.27	7-20-12	13:10	MJ	PT	Preav. ($NaHSO_4$)
17	-2	M	29.35	34.61	5.26					
18	-2	M	29.55	34.82	5.27					
19	F95084-3	W	31.02	36.08	5.06					
20	-3	W	31.01	35.72	4.71					
21	-3	M	29.55	34.40	4.85					
22	-3	M	29.44	34.56	5.12					
23	F95084-4	W	31.13	36.14	5.01					
24	-4	W	31.03	36.22	5.19					
25	-4	M	29.26	34.86	5.60					
26	-4	M	29.30	35.01	5.71					
27	F95084-5	W	31.02	36.65	5.63					
28	-5	W	31.17	36.25	5.08					
29	-5	M	29.24	34.24	5.00					
30	-5	M	29.22	34.65	5.43					
31	F95084-6	W	30.85	36.06	5.21					
32	-6	W	31.22	36.05	4.83					
33	-6	M	29.15	34.84	5.69					
34	-6	M	29.14	34.98	5.84					
35	F95084-7	W	31.25	36.61	5.36					
36	-7	W	31.39	36.66	5.27					
37	-7	M	29.37	34.66	5.29					
R15138	-7	M	29.42	34.73	5.34		13:30			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1700	F95178-6	M	29.34	34.99	5.65	7/24/12	11:04	AD	PT	OOH
01	F95178-7	W	30.12	31.12	1.00					TB
02	-7	W	30.85	30.85	0.00					
03	-7	M	29.14	28.93	-0.21					
04	F95179-1	W	31.10	37.76	6.66					
05	-1	W	30.92	37.74	6.82					
06	-1	M	29.49	35.83	6.34		11:15			
07	F95177-1	M AC 1913		–	5.12		13:18		5030A	In Reprep Bot 5
08	F95192-1	W	30.65	36.84	6.19		13:30		PT	In
09	-1	W	30.84	36.26	5.42					
10	-1	M	29.46	35.24	5.78					
11	F95192-2	W	30.77	36.93	6.16					
12	-2	W	30.90	37.23	6.33					
13	-2	M	29.38	35.28	5.90		13:38			
14	F95194-1	W AC 1922		–	5.04	7/24/12	15:15	AD	5030A	In Bot 4
15	-1	W		–	5.20					
16	-1	M AC 1913		–	5.04		15:19			
17	F95196-1	W	30.92	37.65	6.73	7/25/12	10:11		PT	In
18	-1	W	30.84	38.43	7.59					
19	-1	M	29.46	35.63	6.17					
20	F95197-1	M	29.17	34.29	5.12					Preserved (MeOH)
21	-1	M	29.20	33.80	4.60					
R1722	F95~~19~~ AD 7/25/12 208-1	W	35.53	40.37	4.84		10:22			Preserved (Na_2SO_4) [low soil amount; not accutest vials]

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1792	F95227-1	W	30.87	35.21	4.34	7/25/12	14:28	AD	PT	Frozen In (7/25/12 @ 11:00)
93	-1	M	29.69	34.52	4.83					
94	F95227-2	W	31.01	36.97	5.96					
95	-2	W	31.10	35.81	4.71					
96	-2	M	29.36	34.93	5.57					
97	F95227-3	W	30.82	38.16	7.34					
98	-3	W	30.81	38.45	7.64					
99	-3	M	29.44	37.01	7.57					
R1800	F95227-4	W	31.16	36.84	5.68					
01	-4	W	30.90	36.75	5.85					
02	-4	M	29.11	33.00	3.89					
03	F95227-5	W	30.96	38.73	7.77					
04	-5	W	30.75	38.08	7.33					
05	-5	M	29.35	37.53	8.18					
06	F95227-6	W	30.91	38.61	7.70					
07	-6	W	31.01	39.02	8.01					
08	-6	M	29.34	37.19	7.85					
09	F95227-7	W	30.66	36.63	5.97					
10	-7	W	31.00	37.30	6.30					
11	-7	M	29.58	35.65	6.07					
12	F95227-8	W	30.86	37.02	6.16					
13	-8	W	31.17	37.19	6.02					
R1814	-8	M	29.36	35.49	6.13		14:58			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

MS VOA6-J ANALYSIS LOG

DATE:	3/10/06
COLUMN TYPE:	RTXVMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
ANALYST:	Muna M.

METHODS:*	8260
METHOD FILE:	8260MSJ.m
CALIB. DATE:	3/10/06
RUN ID:	VJ883

STANDARDS	
BFB	V6403
ICAL/CCV	V6454 V6438 V6457 V6455 V6421 V6411
ISTD/SURR	V6452
ICV/QC	V6449 V6448 V6439 V6431 V6440

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS METHOD	ALS POSITION	ANALYTICAL METHOD	PH	Cl ?	RR	COMMENTS
J021272	BFB	N/A				BFB	N/A			Pass on autofind
J 73	CC881-4		W	1	1	8260	6.0	N/A	N/A	1,1DCE fail ↑ Use old mix 6411
J 74	CC881-4			1	1					Vinyl fail ↓; Recalibrate
J 75	BFB	N/A				BFB				Pass on autofind
J 76	Blank		W	1	1	8260				✓
J 77	IC883-1			1	2					✓
J 78	-2			1	3					✓
J 79	-3			1	4					✓
J 80	ICC883-4			1	5					✓
J 81	IC883-5			1	6					✓
J 82	-6			1	7					✓
J 83	ICV883-4 m.m 3/13/06			1	8					✓ Curve not consistant; change Trap.
J 84	~~IC883-1~~ Blank			1	1					✓
J 85	IC883-21			1	2					✓
J 86	3/13/06 -32			1	3					✓
J 87	m.m ~~ICC883-4~~ -3			1	4					✓
J 88	ICC883-4 ~~IC883-5~~ m.m			1	5					✓
J 89	IC883-5 ~~-6~~ 3/13/06			1	6					✓
J 90	~~ICV883-4~~ -6			1	7					✓
J 91	ICV883-4 m.m 3/13/06			1	8					✓
J										
J										
J										
J										
J										
J										

m.m 3/13/06

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

ACCUTEST LABORATORIES F95217

MS VOA6-J ANALYSIS LOG

DATE:	3/20/06
COLUMN TYPE:	BTXVMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
ANALYST:	Muna M.

METHODS:*	8260
METHOD FILE:	8260MSJ.M
CALIB. DATE:	3/10/06
RUN ID:	VJ 890

STANDARDS	
BFB	V6403
ICAL/CCV	V6478 V6403 V6411 V6455 V6461
ISTD/SURR	V6452
ICV/QC	V6466 V6405 V6439 V6440 V6459

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS METHOD	ALS POSITION	ANALYTICAL METHOD	PH	CI ?	RR	COMMENTS
J02140331	BFB	N/A				BFB	N/A			Pass on autofind
J 32 04	CC883-4		W	1	1	8260	6.0	N	N	fail ↑, 1,1-DCE
J 33 05	CC883-4			1	1					✓
J 34 06	BS			1	2					✓
J 35 07	MB			1	3				N/D	
J 36 08	F39117-14	2		1	4		1	N	3/20/06 M.M.	✓
J 37 09	F39123-4	2		1	5		1		~~N~~	✓
J 38 10	F39117-13, 20X	2		1	6		1		N	✓
J 39 11	-16, 50X	2		1	7		1		20X 50X	✓ Dilution does not match
J 40 12	-19, 5X	2		1	8		1			✓
J 41 13	-22, 5X	2		1	9		1			✓
J 42 14	F39262-4	1		1	10		1			✓
J 43 15	-1	1		1	11		1		2X	✓
J 44 16	F39151-1	1		1	12		1		N	✓
J 45 17	-2	1		1	13		1		5X	✓
J 46 18	-3	1		1	14		1		10X	✓
J 47 19	F39117-13ms, 20X	2		1	15		1		N	✓
J 48 20	-13msD, 20X	2		2	15		1			✓
J 49 21	F39151-4	1		2	16		1		2X	✓
J 50 22	-5	1		2	17		1		20X	✓
J 51 23	-6, 10X	1		2	18		1		N	✓
J 52 24	F39262-2, 50X	1		2	19		1		1X	✓
J 53 25	-3, 50X	1		2	20		1		5X	✓
J 54	-5, 100X	1		2	21		1		5X	✓
J 55	F39151-7	1		2	22		1		N	✓
J 56	F39262-6	1		2	23		1	Y		✓
57	F39041-1CF	NA		2	24		N/A	N/A		✓
58	F39107-1CF			2	25					✓
59	BLANK			2	26					✓

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

MM 3/21/06

MSVOA6_J_log.xls NF 12/05

MS VOA6-J ANALYSIS LOG

DATE:	3/22/06
COLUMN TYPE:	BTXUM5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
ANALYST:	Muna M.

METHODS:*	8260
METHOD FILE:	8260MSJ.M
CALIB. DATE:	3/22/03
RUN ID:	VJ 892

STANDARDS	
BFB	V6478
ICAL/CCV	V6482 V6473 V6457 V6455 V6461
ISTD/SURR	V6452.
ICV/QCV	V6481 V6448 V6439 V6480 V6440

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS METHOD	ALS POSITION	ANALYTICAL METHOD	PH	CI ?	RR	COMMENTS
J021489	BFB	N/A	N/A	N/A	N/A	BFB	N/A	N	N	fail ↑
J 90	BFB									fail ↑
J 91	BFB									fail
J 92	BFB									fail ↓
J 93	BFB									fail.
J 94	BFB		↓	↓	↓	↓				Pass on autofind.
J 95	Blank		W	1	1	8260				
J 96	1C892-1			1	2					✓
J 97	-2			1	3					✓
J 98	-3			1	4					✓
J 99	1CC892-4			1	5					✓
J 500	1C892-5			1	6					✓
J 01	-6			1	7					✓
J 02	1CV892-4		↓	1	8	↓				✓
J 03	BFB		N/A	N/A	N/A	BFB				fail ↓
J 04	BFB									fail ↓
J 05	BFB									fail ↓
J 06	BFB		↓	↓	↓	↓				Pass on autofind.
J 07	CC892-4		W	1	1	8260				✓
J 08	BS			1	2					✓
J 09	MB	↓		1	3		↓	↓	↓	N/D
J 10	F39151-2,5X	2		1	4		1.0			✓
J 11	-3,10X	2		1	5		1.0			✓
J 12	-4,2X	2		1	6		1.0			✓
J 13	-5,20X	2		1	7		1.0			✓
J 14	F39295-8	2	↓	1	8	↓	1.0	↓	↓	✓

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

MS VOA6-J ANALYSIS LOG

DATE:	3/22/06
COLUMN TYPE:	RTXUMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
ANALYST:	Muna M.

METHODS:*	8260
METHOD FILE:	8260MSJ.M
CALIB. DATE:	3/22/06
RUN ID:	VJ 892

STANDARDS	
BFB	V6478
ICAL/CCV	V6482 V6473 V6457 V6455 V6461
ISTD/SURR	V6452
ICV/QC	V6481 V6448 V6439 V6480 V6440

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS METHOD	ALS POSITION	ANALYTICAL METHOD	PH	CI ?	RR	COMMENTS
J021515	F39295-11	2	W	1	9	8260	1.0	N	N	✓
J 16	-12	2		1	10		1.0			✓
J 17	-13	2		1	11		1.0			✓
J 18	-14	2		1	12		1.0			✓
J 19	F39164-5	1		1	13		1.0			✓
J 20	F39217-1	1		1	14		1.0			✓
J 21	F39151-5MS,20X	2		1	15		1.0			✓
J 22	-5MSD,20X	2		2	15		1.0			✓
J 23	F39217-2	1		2	16		1.0			✓
J 24	-3	1		2	17		1.0			✓
J 25	-4	1		2	18		1.0			✓
J 26	F39164-1	1		2	19		1.0		1X	✓
J 27	-2	1		2	20		1.0		1X	✓
J 28	-3	1		2	21		1.0		1X	✓
J 29	-4	1		2	22		1.0		N	✓
J 30	F39218-1CF	1		2	23		1.0			✓
J 31	F39219-3CF	1		2	24		1.0			✓
J 32	F39219-4CF	N/A		2	25		N/A			✓
J 33	F39200-3CF	1		2	26		1.0			✓
J 34	-5CF	1		2	27		1.0			✓
J										
J										
J										
J										
J										
J										

3/23/06 M.M

Notes:

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	T003201.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
1912-24-9	Atrazine	ND	170	17	ug/kg	
100-52-7	Benzaldehyde	ND	830	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
92-52-4	1,1'-Biphenyl	ND	170	17	ug/kg	
105-60-2	Caprolactam	ND	170	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	T003201.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	69%	40-102%
4165-62-2	Phenol-d5	71%	41-100%
118-79-6	2,4,6-Tribromophenol	72%	42-108%

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	T003201.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	70%	40-105%
321-60-8	2-Fluorobiphenyl	69%	43-107%
1718-51-0	Terphenyl-d14	81%	45-119%

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	L058579.D	1	08/02/12	NAF	07/26/12	OP42808	SL2988

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
1912-24-9	Atrazine	ND	170	17	ug/kg	
100-52-7	Benzaldehyde	ND	830	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
92-52-4	1,1'-Biphenyl	ND	170	17	ug/kg	
105-60-2	Caprolactam	ND	170	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	L058579.D	1	08/02/12	NAF	07/26/12	OP42808	SL2988

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	40-102%
4165-62-2	Phenol-d5	63%	41-100%
118-79-6	2,4,6-Tribromophenol	75%	42-108%

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MB	L058579.D	1	08/02/12	NAF	07/26/12	OP42808	SL2988

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	69%	40-105%
321-60-8	2-Fluorobiphenyl	70%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-BS	T003200.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1350	81	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1440	86	59-102
120-83-2	2,4-Dichlorophenol	1670	1390	83	60-101
105-67-9	2,4-Dimethylphenol	1670	1220	73	49-89
51-28-5	2,4-Dinitrophenol	3330	2690	81	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3390	102	58-109
95-48-7	2-Methylphenol	1670	1290	77	53-94
	3&4-Methylphenol	3330	2490	75	54-95
88-75-5	2-Nitrophenol	1670	1380	83	55-96
100-02-7	4-Nitrophenol	3330	2860	86	56-106
87-86-5	Pentachlorophenol	3330	2860	86	50-115
108-95-2	Phenol	1670	1310	79	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1420	85	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1490	89	60-100
83-32-9	Acenaphthene	1670	1420	85	59-97
208-96-8	Acenaphthylene	1670	1390	83	58-98
98-86-2	Acetophenone	1670	1270	76	47-95
120-12-7	Anthracene	1670	1490	89	61-104
1912-24-9	Atrazine	1670	1400	84	61-105
100-52-7	Benzaldehyde	1670	1220	73	37-113
56-55-3	Benzo(a)anthracene	1670	1550	93	60-106
50-32-8	Benzo(a)pyrene	1670	1460	88	59-102
205-99-2	Benzo(b)fluoranthene	1670	1520	91	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1460	88	56-103
207-08-9	Benzo(k)fluoranthene	1670	1570	94	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1520	91	60-104
85-68-7	Butyl benzyl phthalate	1670	1610	97	57-110
92-52-4	1,1'-Biphenyl	1670	1190	71	57-92
105-60-2	Caprolactam	1670	1340	80	53-107
91-58-7	2-Chloronaphthalene	1670	1370	82	57-95
106-47-8	4-Chloroaniline	1670	1030	62	19-85
86-74-8	Carbazole	1670	1500	90	60-106
218-01-9	Chrysene	1670	1560	94	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1430	86	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1340	80	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1120	67	44-94

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-BS	T003200.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
7005-72-3	4-Chlorophenyl phenyl ether	1670	1420	85	60-101
121-14-2	2,4-Dinitrotoluene	1670	1460	88	59-103
606-20-2	2,6-Dinitrotoluene	1670	1480	89	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1300	78	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1490	89	57-105
132-64-9	Dibenzofuran	1670	1440	86	58-103
84-74-2	Di-n-butyl phthalate	1670	1510	91	59-105
117-84-0	Di-n-octyl phthalate	1670	1680	101	59-117
84-66-2	Diethyl phthalate	1670	1500	90	59-106
131-11-3	Dimethyl phthalate	1670	1460	88	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1600	96	57-111
206-44-0	Fluoranthene	1670	1470	88	60-110
86-73-7	Fluorene	1670	1440	86	60-99
118-74-1	Hexachlorobenzene	1670	1490	89	58-103
87-68-3	Hexachlorobutadiene	1670	1320	79	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1370	82	36-94
67-72-1	Hexachloroethane	1670	915	55	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1490	89	57-104
78-59-1	Isophorone	1670	1160	70	58-97
91-57-6	2-Methylnaphthalene	1670	1360	82	57-103
88-74-4	2-Nitroaniline	1670	1420	85	53-106
99-09-2	3-Nitroaniline	1670	1120	67	29-85
100-01-6	4-Nitroaniline	1670	1370	82	49-104
91-20-3	Naphthalene	1670	1320	79	54-93
98-95-3	Nitrobenzene	1670	1350	81	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1280	77	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1520	91	53-107
85-01-8	Phenanthrene	1670	1510	91	61-103
129-00-0	Pyrene	1670	1630	98	58-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	78%	40-102%
4165-62-2	Phenol-d5	78%	41-100%
118-79-6	2,4,6-Tribromophenol	87%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-BS	T003200.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	40-105%
321-60-8	2-Fluorobiphenyl	82%	43-107%
1718-51-0	Terphenyl-d14	94%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MS	T003205.D	1	07/31/12	FS	07/26/12	OP42808	ST170
OP42808-MSD	T003206.D	1	07/31/12	FS	07/26/12	OP42808	ST170
F95208-4	T003204.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95208-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	190 U		1940	1400	72	1270	66	10	54-97/31
59-50-7	4-Chloro-3-methyl phenol	190 U		1940	1540	79	1410	73	9	59-102/27
120-83-2	2,4-Dichlorophenol	190 U		1940	1470	76	1370	71	7	60-101/30
105-67-9	2,4-Dimethylphenol	190 U		1940	1320	68	1220	63	8	49-89/31
51-28-5	2,4-Dinitrophenol	960 U		3880	1260	32*	739	19*	52*	39-107/40
534-52-1	4,6-Dinitro-o-cresol	390 U		3880	2150	55*	1540	40*	33	58-109/37
95-48-7	2-Methylphenol	190 U		1940	1410	73	1290	67	9	53-94/29
	3&4-Methylphenol	190 U		3880	2870	74	2630	68	9	54-95/31
88-75-5	2-Nitrophenol	190 U		1940	1390	72	1250	65	11	55-96/30
100-02-7	4-Nitrophenol	960 U		3880	2980	77	2540	66	16	56-106/29
87-86-5	Pentachlorophenol	960 U		3880	2820	73	2370	61	17	50-115/33
108-95-2	Phenol	190 U		1940	1440	74	1340	69	7	55-99/28
95-95-4	2,4,5-Trichlorophenol	190 U		1940	1520	78	1360	70	11	60-101/28
88-06-2	2,4,6-Trichlorophenol	190 U		1940	1580	81	1380	71	14	60-100/27
83-32-9	Acenaphthene	190 U		1940	1500	77	1400	72	7	59-97/29
208-96-8	Acenaphthylene	190 U		1940	1470	76	1370	71	7	58-98/30
98-86-2	Acetophenone	190 U		1940	1300	67	1170	61	11	47-95/30
120-12-7	Anthracene	190 U		1940	1550	80	1400	72	10	61-104/29
1912-24-9	Atrazine	190 U		1940	1220	63	1210	63	1	61-105/31
100-52-7	Benzaldehyde	960 U		1940	1240	64	1040	54	18	37-113/31
56-55-3	Benzo(a)anthracene	27.7	I	1940	1620	82	1560	79	4	60-106/31
50-32-8	Benzo(a)pyrene	25.7	I	1940	1480	75	1430	73	3	59-102/32
205-99-2	Benzo(b)fluoranthene	26.0	I	1940	1730	88	1680	86	3	60-107/31
191-24-2	Benzo(g,h,i)perylene	28.9	I	1940	1520	77	1460	74	4	56-103/32
207-08-9	Benzo(k)fluoranthene	22.9	I	1940	1700	86	1530	78	11	61-107/30
101-55-3	4-Bromophenyl phenyl ether	190 U		1940	1610	83	1470	76	9	60-104/26
85-68-7	Butyl benzyl phthalate	190 U		1940	1840	95	1680	87	9	57-110/28
92-52-4	1,1'-Biphenyl	190 U		1940	1210	62	1130	58	7	57-92/29
105-60-2	Caprolactam	190 U		1940	1390	72	1320	68	5	53-107/33
91-58-7	2-Chloronaphthalene	190 U		1940	1440	74	1350	70	6	57-95/28
106-47-8	4-Chloroaniline	190 U		1940	1000	52	856	44	16	19-85/34
86-74-8	Carbazole	190 U		1940	1530	79	1340	69	13	60-106/30
218-01-9	Chrysene	27.5	I	1940	1610	82	1570	80	3	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	190 U		1940	1440	74	1360	70	6	51-89/30
111-44-4	bis(2-Chloroethyl)ether	190 U		1940	1380	71	1210	63	13	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	190 U		1940	1180	61	1050	54	12	44-94/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MS	T003205.D	1	07/31/12	FS	07/26/12	OP42808	ST170
OP42808-MSD	T003206.D	1	07/31/12	FS	07/26/12	OP42808	ST170
F95208-4	T003204.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95208-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	190 U		1940	1550	80	1410	73	9	60-101/26
121-14-2	2,4-Dinitrotoluene	190 U		1940	1540	79	1370	71	12	59-103/30
606-20-2	2,6-Dinitrotoluene	190 U		1940	1550	80	1400	72	10	57-99/30
91-94-1	3,3'-Dichlorobenzidine	390 U		1940	1110	57	974	50	13	34-88/31
53-70-3	Dibenzo(a,h)anthracene	190 U		1940	1550	80	1450	75	7	57-105/29
132-64-9	Dibenzofuran	190 U		1940	1550	80	1400	72	10	58-103/27
84-74-2	Di-n-butyl phthalate	390 U		1940	1580	81	1410	73	11	59-105/27
117-84-0	Di-n-octyl phthalate	190 U		1940	2070	107	1840	95	12	59-117/28
84-66-2	Diethyl phthalate	390 U		1940	1600	82	1460	76	9	59-106/27
131-11-3	Dimethyl phthalate	190 U		1940	1570	81	1440	74	9	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	390 U		1940	1840	95	1680	87	9	57-111/29
206-44-0	Fluoranthene	45.2	I	1940	1440	72	1470	74	2	60-110/32
86-73-7	Fluorene	190 U		1940	1540	79	1400	72	10	60-99/30
118-74-1	Hexachlorobenzene	190 U		1940	1560	80	1400	72	11	58-103/27
87-68-3	Hexachlorobutadiene	190 U		1940	1270	65	1180	61	7	49-95/33
77-47-4	Hexachlorocyclopentadiene	190 U		1940	1200	62	1000	52	18	36-94/41
67-72-1	Hexachloroethane	190 U		1940	860	44	784	41*	9	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	23.7	I	1940	1540	78	1480	75	4	57-104/33
78-59-1	Isophorone	190 U		1940	1180	61	1110	57*	6	58-97/30
91-57-6	2-Methylnaphthalene	190 U		1940	1410	73	1310	68	7	57-103/32
88-74-4	2-Nitroaniline	190 U		1940	1560	80	1420	73	9	53-106/29
99-09-2	3-Nitroaniline	190 U		1940	1310	68	1090	56	18	29-85/31
100-01-6	4-Nitroaniline	190 U		1940	1470	76	1250	65	16	49-104/31
91-20-3	Naphthalene	190 U		1940	1320	68	1240	64	6	54-93/32
98-95-3	Nitrobenzene	190 U		1940	1350	70	1250	65	8	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	190 U		1940	1330	69	1220	63	9	49-94/28
86-30-6	N-Nitrosodiphenylamine	190 U		1940	1640	85	1480	77	10	53-107/28
85-01-8	Phenanthrene	21.0	I	1940	1580	80	1590	81	1	61-103/32
129-00-0	Pyrene	45.1	I	1940	1880	95	1950	99	4	58-109/33

CAS No.	Surrogate Recoveries	MS	MSD	F95208-4	Limits
367-12-4	2-Fluorophenol	70%	64%	66%	40-102%
4165-62-2	Phenol-d5	73%	66%	69%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	71%	81%	42-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42808-MS	T003205.D	1	07/31/12	FS	07/26/12	OP42808	ST170
OP42808-MSD	T003206.D	1	07/31/12	FS	07/26/12	OP42808	ST170
F95208-4	T003204.D	1	07/31/12	FS	07/26/12	OP42808	ST170

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Surrogate Recoveries	MS	MSD	F95208-4	Limits
4165-60-0	Nitrobenzene-d5	69%	64%	69%	40-105%
321-60-8	2-Fluorobiphenyl	75%	70%	74%	43-107%
1718-51-0	Terphenyl-d14	93%	86%	85%	45-119%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-DFTPP
Lab File ID: L058202.D
Instrument ID: GCMSL
Injection Date: 07/13/12
Injection Time: 13:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29378	38.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33930	44.8		Pass
70	Less than 2.0% of mass 69	228	0.30	(0.67) [a]	Pass
127	40.0 - 60.0% of mass 198	39925	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	75653	100.0		Pass
199	5.0 - 9.0% of mass 198	5450	7.20		Pass
275	10.0 - 30.0% of mass 198	18668	24.7		Pass
365	1.0 - 100.0% of mass 198	1990	2.63		Pass
441	Present, but less than mass 443	4059	5.37	(35.1) [b]	Pass
442	40.0 - 100.0% of mass 198	57426	75.9		Pass
443	17.0 - 23.0% of mass 442	11578	15.3	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL2973-IC2973	L058203.D	07/13/12	13:52	00:19	Initial cal 5
SL2973-IC2973	L058204.D	07/13/12	14:21	00:48	Initial cal 10
SL2973-IC2973	L058205.D	07/13/12	14:49	01:16	Initial cal 25
SL2973-ICC2973	L058206.D	07/13/12	15:19	01:46	Initial cal 50
SL2973-IC2973	L058207.D	07/13/12	15:49	02:16	Initial cal 60
SL2973-IC2973	L058208.D	07/13/12	16:18	02:45	Initial cal 75
SL2973-IC2973	L058209.D	07/13/12	16:47	03:14	Initial cal 100
SL2973-ICV2973	L058210.D	07/13/12	17:16	03:43	Initial cal verification 50
SL2973-ICV2973	L058211.D	07/13/12	17:45	04:12	Initial cal verification 50
OP42610-BS	L058213.D	07/13/12	18:43	05:10	Blank Spike
OP42610-MB	L058214.D	07/13/12	19:11	05:38	Method Blank
ZZZZZZ	L058215.D	07/13/12	19:40	06:07	(unrelated sample)
ZZZZZZ	L058218.D	07/13/12	21:04	07:31	(unrelated sample)
ZZZZZZ	L058219.D	07/13/12	21:31	07:58	(unrelated sample)
F94762-5	L058220.D	07/13/12	21:59	08:26	(used for QC only; not part of job F95217)
ZZZZZZ	L058221.D	07/13/12	22:27	08:54	(unrelated sample)
ZZZZZZ	L058222.D	07/13/12	22:54	09:21	(unrelated sample)
ZZZZZZ	L058223.D	07/13/12	23:21	09:48	(unrelated sample)
ZZZZZZ	L058224.D	07/13/12	23:49	10:16	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample:	SL2973-DFTPP	**Injection Date:**	07/13/12
Lab File ID:	L058202.D	**Injection Time:**	13:33
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L058225.D	07/14/12	00:16	10:43	(unrelated sample)
OP42610-MS	L058226.D	07/14/12	00:43	11:10	Matrix Spike
OP42610-MSD	L058227.D	07/14/12	01:11	11:38	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2988-DFTPP
Lab File ID: L058562.D
Instrument ID: GCMSL
Injection Date: 08/02/12
Injection Time: 09:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	22811	37.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	27592	45.5		Pass
70	Less than 2.0% of mass 69	71	0.12	(0.26) [a]	Pass
127	40.0 - 60.0% of mass 198	30760	50.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	60645	100.0		Pass
199	5.0 - 9.0% of mass 198	3995	6.59		Pass
275	10.0 - 30.0% of mass 198	14916	24.6		Pass
365	1.0 - 100.0% of mass 198	1490	2.46		Pass
441	Present, but less than mass 443	7170	11.8	(77.6) [b]	Pass
442	40.0 - 100.0% of mass 198	46118	76.0		Pass
443	17.0 - 23.0% of mass 442	9245	15.2	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL2988-CC2973	L058563.D	08/02/12	09:39	00:18	Continuing cal 50
OP42907-BS	L058564.D	08/02/12	10:07	00:46	Blank Spike
OP42907-MB	L058565.D	08/02/12	10:36	01:15	Method Blank
ZZZZZZ	L058569.D	08/02/12	12:32	03:11	(unrelated sample)
F95389-2	L058570.D	08/02/12	13:02	03:41	(used for QC only; not part of job F95217)
OP42907-MS	L058571.D	08/02/12	13:32	04:11	Matrix Spike
OP42907-MSD	L058572.D	08/02/12	14:02	04:41	Matrix Spike Duplicate
ZZZZZZ	L058573.D	08/02/12	14:32	05:11	(unrelated sample)
ZZZZZZ	L058574.D	08/02/12	15:02	05:41	(unrelated sample)
OP42872-MB	L058575.D	08/02/12	15:32	06:11	Method Blank
ZZZZZZ	L058576.D	08/02/12	16:01	06:40	(unrelated sample)
ZZZZZZ	L058577.D	08/02/12	16:33	07:12	(unrelated sample)
ZZZZZZ	L058578.D	08/02/12	17:03	07:42	(unrelated sample)
OP42808-MB	L058579.D	08/02/12	17:34	08:13	Method Blank
F95217-6	L058580.D	08/02/12	18:05	08:44	USTC507-CS-0002-072412
ZZZZZZ	L058581.D	08/02/12	18:35	09:14	(unrelated sample)
ZZZZZZ	L058582.D	08/02/12	19:05	09:44	(unrelated sample)
ZZZZZZ	L058583.D	08/02/12	19:35	10:14	(unrelated sample)
ZZZZZZ	L058584.D	08/02/12	20:05	10:44	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample:	SL2988-DFTPP	**Injection Date:**	08/02/12
Lab File ID:	L058562.D	**Injection Time:**	09:21
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L058585.D	08/02/12	20:34	11:13	(unrelated sample)
ZZZZZZ	L058586.D	08/02/12	21:03	11:42	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-DFTPP
Lab File ID: T003189.D
Instrument ID: GCMST
Injection Date: 07/31/12
Injection Time: 12:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	137540	54.8		Pass
68	Less than 2.0% of mass 69	484	0.19	(0.39) [a]	Pass
69	Mass 69 relative abundance	123772	49.3		Pass
70	Less than 2.0% of mass 69	640	0.25	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	148274	59.0		Pass
197	Less than 1.0% of mass 198	492	0.20		Pass
198	Base peak, 100% relative abundance	251205	100.0		Pass
199	5.0 - 9.0% of mass 198	17008	6.77		Pass
275	10.0 - 30.0% of mass 198	46394	18.5		Pass
365	1.0 - 100.0% of mass 198	4725	1.88		Pass
441	Present, but less than mass 443	21251	8.46	(74.7) [b]	Pass
442	40.0 - 100.0% of mass 198	146565	58.3		Pass
443	17.0 - 23.0% of mass 442	28450	11.3	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST170-IC170	T003191.D	07/31/12	13:20	01:10	Initial cal 5
ST170-IC170	T003192.D	07/31/12	13:52	01:42	Initial cal 10
ST170-IC170	T003193.D	07/31/12	14:25	02:15	Initial cal 25
ST170-IC170	T003194.D	07/31/12	14:58	02:48	Initial cal 50
ST170-IC170	T003195.D	07/31/12	15:30	03:20	Initial cal 60
ST170-ICC170	T003196.D	07/31/12	16:03	03:53	Initial cal 75
ST170-IC170	T003197.D	07/31/12	16:36	04:26	Initial cal 100
ST170-ICV170	T003198.D	07/31/12	17:08	04:58	Initial cal verification 50
ST170-ICV170	T003199.D	07/31/12	17:40	05:30	Initial cal verification 50
OP42808-BS	T003200.D	07/31/12	18:12	06:02	Blank Spike
OP42808-MB	T003201.D	07/31/12	18:44	06:34	Method Blank
ZZZZZZ	T003202.D	07/31/12	19:16	07:06	(unrelated sample)
ZZZZZZ	T003203.D	07/31/12	19:48	07:38	(unrelated sample)
F95208-4	T003204.D	07/31/12	20:20	08:10	(used for QC only; not part of job F95217)
OP42808-MS	T003205.D	07/31/12	20:52	08:42	Matrix Spike
OP42808-MSD	T003206.D	07/31/12	21:23	09:13	Matrix Spike Duplicate
F95217-1	T003207.D	07/31/12	21:55	09:45	USTC501-CS-0001-072412
F95217-2	T003208.D	07/31/12	22:26	10:16	USTC501-CS-0002-072412-FD
F95217-3	T003209.D	07/31/12	22:57	10:47	USTC501-CS-0003-072412

Instrument Performance Check (DFTPP)

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample:	ST170-DFTPP	**Injection Date:**	07/31/12
Lab File ID:	T003189.D	**Injection Time:**	12:10
Instrument ID:	GCMST		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F95217-4	T003210.D	07/31/12	23:28	11:18	USTC501-CS-0004-072412
F95217-5	T003211.D	07/31/12	23:59	11:49	USTC507-CS-0001-072412

Semivolatile Internal Standard Area Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	SL2988-CC2973	**Injection Date:**	08/02/12
Lab File ID:	L058563.D	**Injection Time:**	09:39
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	111899	4.37	420277	5.39	234288	7.47	366100	9.81	302086	14.66	249611	17.13
Check Std [b]	136967	4.19	472810	5.16	268795	7.16	405254	9.47	307310	14.28	264775	16.74
Upper Limit [c]	273934	4.69	945620	5.66	537590	7.66	810508	9.97	614620	14.78	529550	17.24
Lower Limit [d]	68484	3.69	236405	4.66	134398	6.66	202627	8.97	153655	13.78	132388	16.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP42907-BS	150290	4.19	517456	5.16	289090	7.16	424840	9.47	315872	14.28	250567	16.74
OP42907-MB	111978	4.18	389977	5.16	215787	7.16	318770	9.45	263292	14.26	226269	16.73
ZZZZZZ	111134	4.18	391380	5.16	228003	7.15	342276	9.45	286887	14.26	244507	16.73
F95389-2	124758	4.18	423582	5.16	240435	7.16	354756	9.45	286788	14.26	249138	16.73
OP42907-MS	125838	4.18	416942	5.17	228627	7.16	323252	9.47	240723	14.27	196362	16.73
OP42907-MSD	115014	4.18	392560	5.16	217237	7.16	312684	9.46	230740	14.27	192793	16.73
ZZZZZZ	113744	4.18	385737	5.16	210838	7.15	309887	9.46	244541	14.26	209619	16.73
ZZZZZZ	108618	4.18	375336	5.16	208797	7.16	316708	9.45	279117	14.26	242540	16.73
OP42872-MB	99629	4.18	355043	5.16	195006	7.15	289481	9.46	242120	14.26	213758	16.72
ZZZZZZ	120861	4.18	403582	5.16	228349	7.16	333398	9.46	259347	14.27	223673	16.73
ZZZZZZ	116846	4.18	392883	5.17	221602	7.16	319633	9.46	258441	14.28	228665	16.74
ZZZZZZ	140455	4.19	461358	5.17	250258	7.16	343807	9.46	228819	14.29	180520	16.73
OP42808-MB	175025	4.19	585820	5.16	328625	7.16	467024	9.46	358585	14.26	298250	16.73
F95217-6	135690	4.18	454593	5.16	247788	7.16	356107	9.46	273797	14.26	226170	16.73
ZZZZZZ	104507	4.18	355066	5.17	200409	7.15	294869	9.45	231544	14.26	198491	16.72
ZZZZZZ	102605	4.18	350978	5.16	194105	7.16	291673	9.45	237519	14.26	202624	16.73
ZZZZZZ	91317	4.18	308687	5.16	167770	7.15	242588	9.45	190849	14.26	158052	16.72
ZZZZZZ	113597	4.18	380176	5.16	210358	7.15	296571	9.45	227646	14.26	189115	16.72
ZZZZZZ	123256	4.18	415296	5.16	228824	7.16	318427	9.45	237807	14.26	191938	16.72
ZZZZZZ	138350	4.19	444183	5.16	245790	7.15	336175	9.46	235376	14.26	179603	16.73

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL2973-ICC2973 L058206.D 07/13/12 15:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	ST170-ICC170	**Injection Date:**	07/31/12
Lab File ID:	T003196.D	**Injection Time:**	16:03
Instrument ID:	GCMST	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	513827	4.02	2263815	4.97	1114563	6.88	1802120	9.14	1200280	13.92	959644	16.37
Check Std [b]	513827	4.02	2263815	4.97	1114563	6.88	1802120	9.14	1200280	13.92	959644	16.37
Upper Limit [c]	1027654	4.52	4527630	5.47	2229126	7.38	3604240	9.64	2400560	14.42	1919288	16.87
Lower Limit [d]	256914	3.52	1131908	4.47	557282	6.38	901060	8.64	600140	13.42	479822	15.87

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP42808-BS	710635	4.02	3078910	4.97	1472962	6.88	2326090	9.14	1512136	13.91	1135060	16.37
OP42808-MB	754721	4.02	3339073	4.97	1656984	6.87	2624962	9.13	1759338	13.90	1301693	16.36
ZZZZZZ	626185	4.02	2732356	4.97	1342402	6.87	2172074	9.13	1476725	13.90	1116204	16.36
ZZZZZZ	629547	4.02	2668728	4.97	1324843	6.87	2116053	9.13	1373977	13.90	1051972	16.36
F95208-4	722066	4.02	3180008	4.97	1503045	6.87	2293161	9.13	1348729	13.91	1060960	16.37
OP42808-MS	761199	4.03	3413833	4.97	1630411	6.88	2598134	9.14	1420056	13.93	950105	16.38
OP42808-MSD	733866	4.02	3203228	4.97	1551601	6.88	2435081	9.14	1239199	13.93	836754	16.38
F95217-1	505916	4.02	2194163	4.97	1105874	6.87	1840728	9.13	1178303	13.91	914565	16.37
F95217-2	608697	4.02	2724235	4.97	1347523	6.87	2143725	9.13	1261183	13.91	972938	16.37
F95217-3	578386	4.02	2521061	4.97	1266691	6.87	2068465	9.13	1364691	13.91	1083344	16.37
F95217-4	582562	4.02	2556439	4.97	1238810	6.87	1988288	9.13	1225194	13.91	967629	16.37
F95217-5	559566	4.02	2482701	4.97	1252882	6.87	2087849	9.13	1398145	13.91	1111456	16.37

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ST170-ICC170 T003196.D 07/31/12 16:03
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F95217-1	T003207.D	68.0	73.0	73.0	73.0	70.0	87.0
F95217-2	T003208.D	73.0	78.0	78.0	78.0	78.0	98.0
F95217-3	T003209.D	70.0	74.0	74.0	74.0	71.0	86.0
F95217-4	T003210.D	71.0	75.0	74.0	75.0	74.0	87.0
F95217-5	T003211.D	65.0	69.0	70.0	67.0	65.0	81.0
F95217-6	L058580.D	60.0	64.0	81.0	66.0	70.0	81.0
OP42808-BS	T003200.D	78.0	78.0	87.0	80.0	82.0	94.0
OP42808-MB	T003201.D	69.0	71.0	72.0	70.0	69.0	81.0
OP42808-MB	L058579.D	58.0	63.0	75.0	69.0	70.0	79.0
OP42808-MS	T003205.D	70.0	73.0	80.0	69.0	75.0	93.0
OP42808-MSD	T003206.D	64.0	66.0	71.0	64.0	70.0	86.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	40-102%
S2 = Phenol-d5	41-100%
S3 = 2,4,6-Tribromophenol	42-108%
S4 = Nitrobenzene-d5	40-105%
S5 = 2-Fluorobiphenyl	43-107%
S6 = Terphenyl-d14	45-119%

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

Response Factor Report MSBNA02

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

Calibration Files
5 =L058203.D 10 =L058204.D 25 =L058205.D 50 =L058206.D
60 =L058207.D 75 =L058208.D 100 =L058209.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.790	0.768	0.750	0.731	0.722	0.699	0.714	0.739	4.31
3) N-nitrosodimethyl	0.692	0.686	0.681	0.640	0.639	0.612	0.605	0.651	5.51
4) Pyridine	1.797	1.837	1.839	1.718	1.678	1.696	1.701	1.752	3.97
5)P Benzaldehyde	1.305	1.260	1.186	1.043	0.956	0.858	0.664	1.039	22.27
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 1.39616 *A + -0.29130 *A^2									
6) Aniline	2.917	2.716	2.522	2.262	2.214	2.122	2.064	2.402	13.45
7)S 2-Fluorophenol	1.711	1.606	1.565	1.383	1.343	1.276	1.201	1.441	13.10
8)P bis(2-Chloroethyl	1.609	1.648	1.541	1.408	1.380	1.340	1.342	1.467	8.86
9)S Phenol-d5	2.117	2.004	1.831	1.535	1.495	1.423	1.362	1.681	17.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 1.77857 *A + -0.08695 *A^2									
10)P Phenol	2.455	2.357	2.173	1.899	1.878	1.790	1.736	2.041	14.03
11)P 2-Chlorophenol	1.796	1.730	1.613	1.469	1.444	1.416	1.372	1.549	10.70
12) 1,3-Dichlorobenze	1.899	1.866	1.755	1.592	1.531	1.478	1.431	1.650	11.47
13) 1,4-Dichlorobenze	1.898	1.781	1.744	1.547	1.506	1.437	1.385	1.614	12.01
14) 1,2-Dichlorobenze	1.823	1.759	1.700	1.477	1.450	1.399	1.292	1.557	12.98
15) Benzyl alcohol	1.219	1.173	1.167	1.073	1.053	1.013	1.014	1.102	7.58
16)P bis(2-chloroisopr	2.093	2.027	1.879	1.619	1.558	1.455	1.368	1.714	16.66
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 1.90087 *A + -0.21972 *A^2									
17)P 2-Methylphenol	1.645	1.613	1.528	1.369	1.339	1.276	1.217	1.427	11.80
18)P Acetophenone	2.512	2.294	2.152	1.942	1.884	1.872	1.815	2.067	12.60
19)P Hexachloroethane	0.719	0.699	0.689	0.633	0.631	0.616	0.586	0.653	7.52
20)P N-Nitroso-di-n-pr	1.226	1.208	1.119	0.998	0.989	0.971	0.933	1.063	11.24
21)P 3&4-Methylphenol	1.739	1.707	1.579	1.408	1.397	1.340	1.289	1.494	12.06
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 1.57913 *A + -0.11935 *A^2									
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.522	0.488	0.439	0.422	0.426	0.416	0.405	0.445	9.67
24)P Nitrobenzene	0.526	0.475	0.429	0.414	0.411	0.394	0.379	0.433	11.78
25)P Isophorone	0.926	0.862	0.746	0.724	0.738	0.734	0.732	0.780	10.25
26)P 2-Nitrophenol	0.258	0.251	0.232	0.231	0.236	0.226	0.221	0.237	5.60
27)P 2,4-Dimethylpheno	0.498	0.462	0.406	0.399	0.395	0.385	0.371	0.417	11.04
28)P bis(2-Chloroethox	0.582	0.535	0.469	0.445	0.451	0.438	0.413	0.476	12.62
29) Benzoic Acid	0.310	0.359	0.368	0.352	0.372	0.396	0.406	0.366	8.62
30)P 2,4-Dichloropheno	0.393	0.379	0.334	0.327	0.326	0.313	0.302	0.339	10.03
31) 1,2,4-Trichlorobe	0.447	0.400	0.363	0.352	0.352	0.341	0.324	0.369	11.30
32) alpha-Terpineol	0.393	0.336	0.292	0.284	0.280	0.275	0.262	0.303	15.18
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

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                Response Ratio = 0.00000 + 0.30990 *A + -0.01923 *A^2

33)P Naphthalene       1.359 1.222 1.040 0.938 0.917 0.875 0.808 1.023  19.53
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.09804 *A + -0.11742 *A^2

34)P 4-Chloroaniline   0.588 0.548 0.493 0.472 0.471 0.451 0.432 0.494  11.22
35)  2,6-Dichloropheno 0.394 0.368 0.329 0.321 0.324 0.312 0.303 0.336   9.80
36)P Hexachlorobutadie 0.231 0.208 0.187 0.187 0.189 0.179 0.176 0.194   9.98
37)P Caprolactam       0.152 0.148 0.130 0.137 0.138 0.139 0.136 0.140   5.32
38)P 4-Chloro-3-methyl 0.414 0.396 0.353 0.353 0.356 0.347 0.338 0.365   7.71
39)P 2-Methylnaphthale 0.912 0.838 0.734 0.688 0.684 0.648 0.612 0.731  14.70
40)  1-Methylnaphthale 0.863 0.772 0.694 0.649 0.652 0.618 0.583 0.690  14.06
41)P 1,2,4,5-Tetrachlo 0.419 0.389 0.348 0.337 0.338 0.331 0.313 0.354  10.50

42) I   Acenaphthene-d10      ----------------ISTD---------------------
43)P Hexachlorocyclope 0.336 0.332 0.357 0.370 0.369 0.367 0.359 0.356   4.44
44)P 2,4,6-Trichloroph 0.448 0.437 0.429 0.407 0.403 0.393 0.389 0.415   5.51
45)P 2,4,5-Trichloroph 0.486 0.465 0.444 0.425 0.426 0.408 0.397 0.436   7.25
46)S 2-Fluorobiphenyl  1.679 1.526 1.456 1.304 1.281 1.207 1.160 1.373  13.62
47)P 1,1'-Biphenyl     1.890 1.698 1.524 1.332 1.247 1.192 1.093 1.425  20.36
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.57280 *A + -0.19622 *A^2

48)P 2-Chloronaphthale 1.372 1.307 1.223 1.103 1.058 1.025 0.978 1.152  13.02
49)P 2-Nitroaniline    0.421 0.406 0.399 0.389 0.388 0.382 0.378 0.395   3.82
50)  p-Dinitrobenzene  0.266 0.267 0.274 0.277 0.278 0.273 0.273 0.272   1.70
51)P Acenaphthylene    2.313 2.151 1.978 1.773 1.734 1.662 1.545 1.879  14.77
52)P Dimethylphthalate 1.553 1.490 1.385 1.237 1.211 1.147 1.087 1.301  13.59
53)  m-Dinitrobenzene  0.265 0.260 0.251 0.246 0.246 0.243 0.237 0.250   3.90
54)P 2,6-Dinitrotoluen 0.367 0.350 0.340 0.324 0.328 0.319 0.314 0.335   5.58
55)  o-Dinitrobenzene  0.185 0.189 0.180 0.177 0.181 0.175 0.172 0.180   3.26
56)P Acenaphthene      1.365 1.300 1.239 1.117 1.111 1.049 1.023 1.172  11.13
57)P 3-Nitroaniline    0.405 0.402 0.392 0.372 0.377 0.370 0.372 0.384   3.90
58)P 2,4-Dinitrophenol 0.108 0.150 0.194 0.218 0.230 0.233 0.234 0.195  25.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.20109 *A + 0.01456 *A^2

59)P Dibenzofuran      1.933 1.791 1.714 1.549 1.508 1.443 1.382 1.617  12.42
60)P 2,4-Dinitrotoluen 0.468 0.441 0.442 0.425 0.432 0.421 0.418 0.435   3.93
61)P 4-Nitrophenol     0.179 0.182 0.179 0.177 0.187 0.181 0.184 0.181   1.88
62)  2,3,5,6-Tetrachlo 0.365 0.358 0.354 0.350 0.348 0.340 0.333 0.350   3.12
63)P 2,3,4,6-Tetrachlo 0.361 0.359 0.336 0.332 0.335 0.323 0.322 0.338   4.62
64)P Fluorene          1.589 1.471 1.399 1.274 1.248 1.192 1.164 1.334  11.78
65)P 4-Chlorophenyl-ph 0.709 0.684 0.644 0.590 0.582 0.561 0.543 0.616  10.32
66)P Diethylphthalate  1.440 1.382 1.293 1.192 1.175 1.116 1.072 1.238  11.07
67)P 4-Nitroaniline    0.394 0.381 0.373 0.373 0.369 0.363 0.371 0.375   2.72

68) I   Phenanthrene-d10      ----------------ISTD---------------------
69)P 4,6-Dinitro-2-met 0.135 0.153 0.166 0.172 0.169 0.173 0.171 0.163   8.52
70)P n-Nitrosodiphenyl 0.713 0.656 0.627 0.569 0.555 0.543 0.517 0.597  11.78
71)  1,2-Diphenylhydra 1.001 0.935 0.891 0.889 0.845 0.833 0.790 0.883   7.94
72)S 2,4,6-Tribromophe 0.122 0.117 0.113 0.109 0.106 0.105 0.103 0.111   6.38
73)P 4-Bromophenyl-phe 0.258 0.233 0.236 0.222 0.212 0.214 0.209 0.226   7.65
74)P Hexachlorobenzene 0.277 0.260 0.247 0.236 0.228 0.229 0.220 0.242   8.42
75)  Simazine          0.142 0.129 0.126 0.123 0.120 0.120 0.118 0.125   6.55
76)P Atrazine          0.266 0.243 0.228 0.213 0.205 0.208 0.201 0.223  10.66
77)P Pentachlorophenol 0.144 0.144 0.154 0.167 0.164 0.165 0.162 0.157   6.21
78)P Phenanthrene      1.258 1.168 1.100 0.992 0.971 0.943 0.899 1.047  12.56
79)P Anthracene        1.286 1.211 1.137 1.033 0.981 0.965 0.919 1.076  12.80
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Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

80)P Carbazole	1.265	1.193	1.126	1.030	0.995	0.965	0.928	1.072	11.73
81)P Di-n-butylphthala	1.390	1.350	1.274	1.162	1.136	1.094	1.035	1.206	11.10
82)P Fluoranthene	1.261	1.193	1.148	1.033	1.007	0.975	0.928	1.078	11.48
83) I Chrysene-d12	----------ISTD----------								
84) Benzidine	0.921	0.885	0.860	0.782	0.751	0.686	0.597	0.783	14.76
85)P Pyrene	1.510	1.447	1.331	1.219	1.204	1.178	1.161	1.293	10.77
86)S Terphenyl-d14	1.025	0.965	0.920	0.880	0.852	0.843	0.832	0.903	7.93
87)P Butylbenzylphthal	0.635	0.609	0.612	0.598	0.592	0.592	0.582	0.603	2.89
88)P 3,3'-Dichlorobenz	0.477	0.451	0.450	0.424	0.420	0.405	0.378	0.429	7.72
89)P Benzo[a]anthracen	1.236	1.179	1.143	1.078	1.062	1.052	1.025	1.111	6.93
90)P Chrysene	1.130	1.075	1.020	0.940	0.935	0.915	0.887	0.986	9.19
91)P bis(2-Ethylhexyl)	0.806	0.786	0.774	0.770	0.767	0.760	0.752	0.774	2.31
92) I Perylene-d12	----------ISTD----------								
93)P Di-n-octylphthala	1.475	1.461	1.509	1.486	1.501	1.471	1.438	1.477	1.62
94)P Benzo[b]fluoranth	1.255	1.213	1.251	1.141	1.168	1.161	1.172	1.194	3.80
95)P Benzo[k]fluoranth	1.315	1.316	1.185	1.134	1.111	1.057	1.020	1.162	10.08
96)P Benzo[a]pyrene	1.207	1.207	1.181	1.107	1.102	1.088	1.075	1.138	5.09
97)P Indeno[1,2,3-cd]p	0.964	0.955	0.936	0.896	0.905	0.908	0.945	0.930	2.87
98)P Dibenz[a,h]anthra	0.958	0.963	0.940	0.888	0.921	0.920	0.934	0.932	2.75
99)P Benzo[g,h,i]peryl	1.088	1.078	0.971	0.946	0.941	0.929	0.953	0.987	6.81

(#) = Out of Range

8270da.m Mon Jul 16 09:15:01 2012

8.7.1

8

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058210.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\071312a\L058210.D Vial: 9
Acq On : 13 Jul 2012 5:16 pm Operator: nancyf
Sample : icv2973-50 Inst : MSBNA02
Misc : op42019,sl2973,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 16 08:52:32 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	116	0.00	4.37
2		1,4-Dioxane	50.000	45.394	9.2	106	0.04	1.91
3		N-nitrosodimethylamine	50.000	47.856	4.3	112	0.03	2.27
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	52.804	-5.6	118	0.00	4.05
		----------	Amount	Calc.	%Drift		----------	
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	44.987	10.0	108	0.00	4.21
		----------	Amount	Calc.	%Drift		----------	
9	S	Phenol-d5		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
10	P	Phenol	50.000	43.344	13.3	108	0.00	4.18
11	P	2-Chlorophenol	50.000	45.573	8.9	111	0.00	4.25
12		1,3-Dichlorobenzene	50.000	45.377	9.2	109	0.00	4.34
13		1,4-Dichlorobenzene	50.000	45.990	8.0	111	0.00	4.39
14		1,2-Dichlorobenzene	50.000	46.763	6.5	114	0.00	4.52
15		Benzyl alcohol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
16	P	bis(2-chloroisopropyl)eth	50.000	45.551	8.9	107	0.00	4.61
		----------	Amount	Calc.	%Drift		----------	
17	P	2-Methylphenol	50.000	43.034	13.9	104	0.00	4.61
18	P	Acetophenone	50.000	45.923	8.2	113	0.00	4.69
19	P	Hexachloroethane	50.000	47.271	5.5	113	0.00	4.74
20	P	N-Nitroso-di-n-propylamin	50.000	43.384	13.2	107	0.00	4.72
21	P	3&4-Methylphenol	100.000	89.788	10.2	108	0.00	4.72
22	I	Naphthalene-d8	40.000	40.000	0.0	108	0.00	5.39
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.541	2.9	109	0.00	4.82
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol	50.000	50.722	-1.4	112	0.00	5.07
27	P	2,4-Dimethylphenol	50.000	41.246	17.5	93	0.00	5.13
28	P	bis(2-Chloroethoxy)methan	50.000	48.240	3.5	111	0.00	5.20
29		Benzoic Acid	100.000	94.401	5.6	96	0.03	5.31

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058210.D

			Amount	Calc.	%Drift			
30	P	2,4-Dichlorophenol	50.000	47.497	5.0	106	0.00	5.29
31		1,2,4-Trichlorobenzene	50.000	45.653	8.7	103	0.00	5.35
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	51.268	-2.5	112	0.00	5.41
34	P	4-Chloroaniline		----------NA----------				
35		2,6-Dichlorophenol	50.000	47.314	5.4	107	0.00	5.49
36	P	Hexachlorobutadiene	50.000	49.667	0.7	111	0.00	5.58
37	P	Caprolactam	50.000	47.704	4.6	105	0.00	5.84
38	P	4-Chloro-3-methylphenol	50.000	46.975	6.0	105	0.00	6.00
39	P	2-Methylnaphthalene		----------NA----------				
40		1-Methylnaphthalene	50.000	47.433	5.1	109	0.00	6.23
41	P	1,2,4,5-Tetrachlorobenzen	50.000	44.430	11.1	101	0.00	6.35
42	I	Acenaphthene-d10	40.000	40.000	0.0	110	0.00	7.46
43	P	Hexachlorocyclopentadiene	50.000	53.074	-6.1	113	0.00	6.38
44	P	2,4,6-Trichlorophenol	50.000	47.094	5.8	106	0.00	6.48
45	P	2,4,5-Trichlorophenol	50.000	46.548	6.9	105	0.00	6.53
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl	50.000	48.268	3.5	107	0.00	6.68
48	P	2-Chloronaphthalene	50.000	45.227	9.5	104	0.00	6.68
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene	50.000	44.233	11.5	103	0.00	7.24
52	P	Dimethylphthalate	50.000	47.579	4.8	110	0.00	7.20
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene	50.000	44.851	10.3	102	0.00	7.28
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene	50.000	45.951	8.1	106	0.00	7.51
57	P	3-Nitroaniline		----------NA----------				
58	P	2,4-Dinitrophenol	100.000	84.306	15.7	95	0.00	7.62
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	44.843	10.3	101	-0.01	7.85
61	P	4-Nitrophenol	100.000	90.998	9.0	102	0.00	7.80
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol	50.000	45.674	8.7	103	0.00	8.03
64	P	Fluorene	50.000	44.139	11.7	102	0.00	8.28
65	P	4-Chlorophenyl-phenylethe	50.000	46.149	7.7	106	0.00	8.32
66	P	Diethylphthalate	50.000	45.187	9.6	104	0.00	8.29
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00	9.81
69	P	4,6-Dinitro-2-methylpheno	100.000	106.912	-6.9	107	0.00	8.50
70	P	n-Nitrosodiphenylamine	50.000	46.240	7.5	84	0.00	8.54
71		1,2-Diphenylhydrazine	50.000	48.968	2.1	101	0.00	8.57
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether	50.000	49.395	1.2	105	0.00	9.11
74	P	Hexachlorobenzene	50.000	46.516	7.0	100	0.00	9.31

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058210.D

75		Simazine		----------NA----------				
76	P	Atrazine	50.000	46.272	7.5	101	-0.01	9.57
77	P	Pentachlorophenol	100.000	95.786	4.2	98	0.00	9.65
78	P	Phenanthrene	50.000	46.404	7.2	102	0.00	9.85
79	P	Anthracene	50.000	45.627	8.7	99	0.00	9.93
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate	50.000	45.733	8.5	99	0.00	11.16
82	P	Fluoranthene	50.000	43.486	13.0	94	0.00	11.98
83	I	Chrysene-d12	40.000	40.000	0.0	96	0.00	14.65
84		Benzidine		----------NA----------				
85	P	Pyrene	50.000	48.840	2.3	99	0.00	12.36
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate	50.000	48.784	2.4	94	0.00	13.91
88	P	3,3'-Dichlorobenzidine		----------NA----------				
89	P	Benzo[a]anthracene	50.000	47.689	4.6	94	0.00	14.62
90	P	Chrysene	50.000	47.531	4.9	96	0.00	14.70
91	P	bis(2-Ethylhexyl)phthalat	50.000	48.346	3.3	93	0.00	15.13
92	I	Perylene-d12	40.000	40.000	0.0	97	0.00	17.13
93	P	Di-n-octylphthalate	50.000	48.888	2.2	94	0.00	16.24
94	P	Benzo[b]fluoranthene	50.000	47.582	4.8	96	0.00	16.53
95	P	Benzo[k]fluoranthene	50.000	47.434	5.1	94	0.00	16.57
96	P	Benzo[a]pyrene	50.000	44.956	10.1	89	0.00	17.03
97	P	Indeno[1,2,3-cd]pyrene	50.000	49.545	0.9	99	0.00	18.70
98	P	Dibenz[a,h]anthracene	50.000	51.371	-2.7	104	0.00	18.75
99	P	Benzo[g,h,i]perylene	50.000	49.824	0.4	100	0.00	19.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Mon Jul 16 09:04:02 2012

8.7.2
8

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\071312a\L058211.D          Vial: 10
Acq On    : 13 Jul 2012   5:45 pm                    Operator: nancyf
Sample    : icv2973-50                               Inst    : MSBNA02
Misc      : op42019,sl2973,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Jul 16 09:05:22 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	110	0.00	4.37
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	48.738	2.5	109	0.00	2.23
		---------- Amount Calc. %Drift ----------						
5	P	Benzaldehyde	25.000	23.387	6.5	122	0.00	4.05
		---------- Amount Calc. %Drift ----------						
6		Aniline	50.000	44.960	10.1	105	0.00	4.16
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
		---------- Amount Calc. %Drift ----------						
9	S	Phenol-d5		----------NA----------				
		---------- Amount Calc. %Drift ----------						
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	46.718	6.6	105	0.00	4.50
		---------- Amount Calc. %Drift ----------						
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
		---------- Amount Calc. %Drift ----------						
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
		---------- Amount Calc. %Drift ----------						
21	P	3&4-Methylphenol		----------NA----------				
		---------- Amount Calc. %Drift ----------						
22	I	Naphthalene-d8	40.000	40.000	0.0	104	0.00	5.38
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	45.008	10.0	101	-0.01	5.00

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Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

			Amount	Calc.	%Drift			
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
			Amount	Calc.	%Drift			
32		alpha-Terpineol	50.000	46.088	7.8	97	0.00	5.41
33	P	Naphthalene		----------NA----------				
			Amount	Calc.	%Drift			
34	P	4-Chloroaniline	50.000	47.960	4.1	104	0.00	5.48
35		2,6-Dichlorophenol		----------NA----------				
36	P	Hexachlorobutadiene		----------NA----------				
37	P	Caprolactam		----------NA----------				
38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene	50.000	48.660	2.7	107	0.00	6.10
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	105	0.00	7.46
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
			Amount	Calc.	%Drift			
47	P	1,1'-Biphenyl		----------NA----------				
			Amount	Calc.	%Drift			
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline	50.000	49.741	0.5	106	0.00	6.88
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene	50.000	50.028	-0.1	107	-0.01	7.19
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline	50.000	47.593	4.8	103	-0.01	7.47
			Amount	Calc.	%Drift			
58	P	2,4-Dinitrophenol		----------NA----------				
			Amount	Calc.	%Drift			
59	P	Dibenzofuran	50.000	47.799	4.4	105	0.00	7.74
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline	50.000	51.520	-3.0	109	-0.03	8.41
68	I	Phenanthrene-d10	40.000	40.000	0.0	106	-0.01	9.80
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene		----------NA----------				
75		Simazine	50.000	37.870	24.3#	82	-0.03	9.48
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole	50.000	47.343	5.3	105	0.00	10.27
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				
83	I	Chrysene-d12	40.000	40.000	0.0	113	-0.01	14.64
84		Benzidine	50.000	51.370	-2.7	116	0.00	12.34
85	P	Pyrene		----------NA----------				
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate		----------NA----------				
88	P	3,3'-Dichlorobenzidine	50.000	47.569	4.9	109	0.00	14.72
89	P	Benzo[a]anthracene		----------NA----------				
90	P	Chrysene		----------NA----------				
91	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
92	I	Perylene-d12	40.000	40.000	0.0	116	0.00	17.12
93	P	Di-n-octylphthalate		----------NA----------				
94	P	Benzo[b]fluoranthene		----------NA----------				
95	P	Benzo[k]fluoranthene		----------NA----------				
96	P	Benzo[a]pyrene		----------NA----------				
97	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
98	P	Dibenz[a,h]anthracene		----------NA----------				
99	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Mon Jul 16 09:13:08 2012

8.7.3

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Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2988-CC2973
Lab FileID: L058563.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\080212\L058563.D Vial: 2
Acq On : 2 Aug 2012 9:39 am Operator: nancyf
Sample : cc2973-50 Inst : MSBNA02
Misc : op42019,sl2988,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Aug 02 12:53:53 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00	4.19
2		1,4-Dioxane	0.739	0.751	-1.6	126	-0.01	1.68
3		N-nitrosodimethylamine	0.651	0.634	2.6	121	-0.02	2.03
4		Pyridine	1.752	1.757	-0.3	125	-0.03	2.00
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	46.861	6.3	116	0.01	3.87
			AvgRF	CCRF	%Dev			
6		Aniline	2.402	2.194	8.7	119	0.00	3.98
7	S	2-Fluorophenol	1.441	1.325	8.0	117	-0.04	3.27
8	P	bis(2-Chloroethyl)ether	1.467	1.378	6.1	120	0.00	4.04
			Amount	Calc.	%Drift			
9	S	Phenol-d5	100.000	99.065	0.9	124	0.00	4.01
			AvgRF	CCRF	%Dev			
10	P	Phenol	2.041	1.759	13.8	113	0.00	4.02
11	P	2-Chlorophenol	1.549	1.468	5.2	122	0.00	4.06
12		1,3-Dichlorobenzene	1.650	1.590	3.6	122	0.00	4.15
13		1,4-Dichlorobenzene	1.614	1.553	3.8	123	0.00	4.20
14		1,2-Dichlorobenzene	1.557	1.458	6.4	121	0.00	4.33
15		Benzyl alcohol	1.102	0.989	10.3	113	0.01	4.33
			Amount	Calc.	%Drift			
16	P	bis(2-chloroisopropyl)eth	50.000	49.022	2.0	121	0.02	4.43
			AvgRF	CCRF	%Dev			
17	P	2-Methylphenol	1.427	1.308	8.3	117	0.02	4.44
18	P	Acetophenone	2.067	1.932	6.5	122	0.02	4.51
19	P	Hexachloroethane	0.653	0.638	2.3	123	0.01	4.56
20	P	N-Nitroso-di-n-propylamin	1.063	0.956	10.1	117	0.02	4.54
			Amount	Calc.	%Drift			
21	P	3&4-Methylphenol	50.000	46.012	8.0	115	0.03	4.54
			AvgRF	CCRF	%Dev			
22	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00	5.16
23	S	Nitrobenzene-d5	0.445	0.435	2.2	116	0.00	4.61
24	P	Nitrobenzene	0.433	0.418	3.5	113	0.01	4.63
25	P	Isophorone	0.780	0.764	2.1	119	0.01	4.81

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2988-CC2973
Lab FileID: L058563.D

26	P	2-Nitrophenol	0.237	0.241	-1.7	117	0.00	4.88
27	P	2,4-Dimethylphenol	0.417	0.420	-0.7	118	0.02	4.93
28	P	bis(2-Chloroethoxy)methan	0.476	0.470	1.3	119	0.02	5.00
29		Benzoic Acid	0.366	0.396	-8.2	127	0.03	5.10
30	P	2,4-Dichlorophenol	0.339	0.346	-2.1	119	0.00	5.07
31		1,2,4-Trichlorobenzene	0.369	0.367	0.5	117	0.00	5.14
		----------	Amount	Calc.	%Drift	----------		
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	53.629	-7.3	121	0.00	5.19
		----------	AvgRF	CCRF	%Dev	----------		
34	P	4-Chloroaniline	0.494	0.474	4.0	113	0.00	5.27
35		2,6-Dichlorophenol	0.336	0.339	-0.9	119	0.00	5.27
36	P	Hexachlorobutadiene	0.194	0.207	-6.7	125	0.00	5.35
37	P	Caprolactam	0.140	0.142	-1.4	116	0.02	5.62
38	P	4-Chloro-3-methylphenol	0.365	0.356	2.5	113	0.01	5.77
39	P	2-Methylnaphthalene	0.731	0.725	0.8	119	0.00	5.85
40		1-Methylnaphthalene	0.690	0.680	1.4	118	0.00	5.97
41	P	1,2,4,5-Tetrachlorobenzen	0.354	0.349	1.4	117	0.00	6.09
42	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	7.16
43	P	Hexachlorocyclopentadiene	0.356	0.397	-11.5	123	0.00	6.12
44	P	2,4,6-Trichlorophenol	0.415	0.418	-0.7	118	0.00	6.22
45	P	2,4,5-Trichlorophenol	0.436	0.427	2.1	115	0.00	6.27
46	S	2-Fluorobiphenyl	1.373	1.306	4.9	115	0.00	6.31
		----------	Amount	Calc.	%Drift	----------		
47	P	1,1'-Biphenyl	50.000	53.026	-6.1	120	0.00	6.41
		----------	AvgRF	CCRF	%Dev	----------		
48	P	2-Chloronaphthalene	1.152	1.104	4.2	115	0.00	6.41
49	P	2-Nitroaniline	0.395	0.378	4.3	112	0.00	6.60
50		p-Dinitrobenzene	0.272	0.266	2.2	110	0.00	6.76
51	P	Acenaphthylene	1.879	1.722	8.4	111	0.00	6.95
52	P	Dimethylphthalate	1.301	1.219	6.3	113	0.01	6.93
53		m-Dinitrobenzene	0.250	0.235	6.0	109	0.00	6.92
54	P	2,6-Dinitrotoluene	0.335	0.318	5.1	112	0.00	7.00
55		o-Dinitrobenzene	0.180	0.171	5.0	111	0.00	7.08
56	P	Acenaphthene	1.172	1.129	3.7	116	0.00	7.21
57	P	3-Nitroaniline	0.384	0.365	4.9	112	0.00	7.18
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	50.323	-0.6	116	0.01	7.32
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.617	1.529	5.4	113	0.00	7.44
60	P	2,4-Dinitrotoluene	0.435	0.417	4.1	112	0.02	7.56
61	P	4-Nitrophenol	0.181	0.171	5.5	111	0.03	7.51
62		2,3,5,6-Tetrachlorophenol	0.350	0.348	0.6	114	0.02	7.65
63	P	2,3,4,6-Tetrachlorophenol	0.338	0.338	0.0	117	0.01	7.72
64	P	Fluorene	1.334	1.266	5.1	114	0.02	7.96
65	P	4-Chlorophenyl-phenylethe	0.616	0.593	3.7	115	0.02	8.01
66	P	Diethylphthalate	1.238	1.192	3.7	115	0.03	7.99
67	P	4-Nitroaniline	0.375	0.340	9.3	104	0.03	8.12
68	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	9.47
69	P	4,6-Dinitro-2-methylpheno	0.163	0.175	-7.4	113	-0.02	8.19
70	P	n-Nitrosodiphenylamine	0.597	0.587	1.7	114	-0.02	8.23
71		1,2-Diphenylhydrazine	0.883	0.898	-1.7	112	-0.02	8.25

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2988-CC2973
Lab FileID: L058563.D

72	S	2,4,6-Tribromophenol	0.111	0.114	-2.7	116	-0.02	8.38
73	P	4-Bromophenyl-phenylether	0.226	0.231	-2.2	115	-0.01	8.78
74	P	Hexachlorobenzene	0.242	0.242	0.0	114	-0.01	8.98
75		Simazine	0.125	0.052	58.4#	46#	0.00	9.16
76	P	Atrazine	0.223	0.228	-2.2	118	0.01	9.26
77	P	Pentachlorophenol	0.157	0.168	-7.0	112	0.00	9.31
78	P	Phenanthrene	1.047	1.006	3.9	112	0.00	9.51
79	P	Anthracene	1.076	1.028	4.5	110	0.00	9.58
80	P	Carbazole	1.072	0.992	7.5	107	0.01	9.93
81	P	Di-n-butylphthalate	1.206	1.151	4.6	110	0.06	10.83
82	P	Fluoranthene	1.078	1.020	5.4	109	0.05	11.62
83	I	Chrysene-d12	1.000	1.000	0.0	102	0.00	14.28
84		Benzidine	0.783	0.771	1.5	100	-0.04	11.98
85	P	Pyrene	1.293	1.289	0.3	108	-0.06	12.00
86	S	Terphenyl-d14	0.903	0.935	-3.5	108	-0.03	12.46
87	P	Butylbenzylphthalate	0.603	0.619	-2.7	105	0.00	13.56
88	P	3,3'-Dichlorobenzidine	0.429	0.433	-0.9	104	0.00	14.35
89	P	Benzo[a]anthracene	1.111	1.109	0.2	105	0.00	14.25
90	P	Chrysene	0.986	0.976	1.0	106	0.00	14.32
91	P	bis(2-Ethylhexyl)phthalat	0.774	0.805	-4.0	106	0.04	14.79
92	I	Perylene-d12	1.000	1.000	0.0	106	0.00	16.74
93	P	Di-n-octylphthalate	1.477	1.446	2.1	103	0.02	15.89
94	P	Benzo[b]fluoranthene	1.194	1.188	0.5	110	0.00	16.15
95	P	Benzo[k]fluoranthene	1.162	1.073	7.7	100	0.00	16.19
96	P	Benzo[a]pyrene	1.138	1.116	1.9	107	0.00	16.65
97	P	Indeno[1,2,3-cd]pyrene	0.930	0.965	-3.8	114	0.04	18.31
98	P	Dibenz[a,h]anthracene	0.932	0.983	-5.5	117	0.04	18.37
99	P	Benzo[g,h,i]perylene	0.987	0.997	-1.0	112	0.04	18.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Thu Aug 02 12:57:53 2012

8.7.4

8

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICC170
Lab FileID: T003196.D

Response Factor Report MSBNA06

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Aug 01 06:56:46 2012
Response via : Initial Calibration

Calibration Files
5 =T003191.D 10 =T003192.D 25 =T003193.D 50 =T003194.D
60 =T003195.D 75 =T003196.D 100 =T003197.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.747	0.788	0.794	0.810	0.794	0.778	0.668	0.768	6.28
3) N-nitrosodimethyl	1.075	1.121	1.111	1.124	1.092	1.077	0.917	1.074	6.72
4) Pyridine	2.201	1.996	2.148	2.160	2.179	2.172	1.845	2.100	6.24
5)P Benzaldehyde	1.513	1.446	1.445	1.074	1.001	0.914	0.687	1.154	27.48
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9960									
Response Ratio = 0.00000 + 1.53441 *A + -0.33930 *A^2									
6) Aniline	2.915	3.052	2.985	3.118	3.031	3.017	2.560	2.954	6.24
7)S 2-Fluorophenol	1.736	1.831	1.732	1.752	1.676	1.637	1.366	1.676	8.91
8)P bis(2-Chloroethyl	1.954	1.988	1.967	1.979	1.906	1.858	1.571	1.889	7.82
9)S Phenol-d5	2.401	2.421	2.343	2.334	2.224	2.139	1.786	2.235	9.92
10)P Phenol	2.446	2.461	2.347	2.337	2.187	2.235	1.825	2.263	9.61
11)P 2-Chlorophenol	1.795	1.849	1.750	1.771	1.728	1.693	1.424	1.716	8.04
12) 1,3-Dichlorobenze	1.803	1.889	1.787	1.778	1.731	1.681	1.408	1.725	8.91
13) 1,4-Dichlorobenze	1.835	1.853	1.786	1.768	1.715	1.632	1.361	1.707	9.94
14) 1,2-Dichlorobenze	1.722	1.792	1.697	1.590	1.503	1.417	1.158	1.554	14.03
15) Benzyl alcohol	1.288	1.309	1.270	1.232	1.167	1.119	0.941	1.189	10.82
16)P bis(2-chloroisopr	3.424	3.406	3.141	2.808	2.614	2.473	2.016	2.840	18.28
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 3.58083 *A + -0.62014 *A^2									
17)P 2-Methylphenol	1.751	1.757	1.660	1.616	1.543	1.514	1.290	1.590	10.17
18)P Acetophenone	2.879	2.748	2.832	2.715	2.639	2.620	2.177	2.658	8.74
19)P Hexachloroethane	0.737	0.751	0.723	0.629	0.571	0.504	0.417	0.619	20.72
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 0.81522 *A + -0.16061 *A^2									
20)P N-Nitroso-di-n-pr	1.464	1.456	1.363	1.220	1.101	1.040	0.918	1.223	17.44
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 1.46593 *A + -0.22167 *A^2									
21)P 3&4-Methylphenol	1.844	1.848	1.725	1.603	1.472	1.369	1.107	1.567	17.32
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 2.03516 *A + -0.36752 *A^2									
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.499	0.524	0.504	0.525	0.502	0.494	0.421	0.495	7.02
24)P Nitrobenzene	0.489	0.505	0.485	0.487	0.472	0.463	0.392	0.470	7.85
25)P Isophorone	0.897	0.929	0.884	0.940	0.911	0.909	0.789	0.894	5.58
26)P 2-Nitrophenol	0.217	0.224	0.217	0.223	0.215	0.211	0.182	0.213	6.72
27)P 2,4-Dimethylpheno	0.447	0.465	0.433	0.446	0.423	0.412	0.352	0.426	8.64
28)P bis(2-Chloroethox	0.525	0.535	0.507	0.521	0.502	0.488	0.414	0.499	8.15
29) Benzoic Acid	0.326	0.371	0.401	0.408	0.395	0.405	0.352	0.380	8.21
30)P 2,4-Dichloropheno	0.303	0.305	0.288	0.287	0.281	0.272	0.231	0.281	8.86

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICC170
Lab FileID: T003196.D

```
31)  1,2,4-Trichlorobe 0.331 0.336 0.314 0.318 0.306 0.289 0.247 0.306   9.91
32)P Naphthalene       1.135 1.161 1.124 1.136 1.090 1.069 0.879 1.085   8.83
33)P 4-Chloroaniline   0.484 0.497 0.461 0.456 0.431 0.413 0.331 0.439  12.71
34)  2,6-Dichloropheno 0.293 0.302 0.277 0.272 0.260 0.254 0.208 0.267  11.60
35)P Hexachlorobutadie 0.160 0.163 0.156 0.153 0.145 0.138 0.116 0.147  10.97
36)P Caprolactam       0.156 0.152 0.156 0.160 0.157 0.156 0.143 0.154   3.41
37)P 4-Chloro-3-methyl 0.365 0.387 0.370 0.385 0.372 0.367 0.310 0.365   7.11
38)P 2-Methylnaphthale 0.740 0.771 0.714 0.733 0.708 0.690 0.577 0.705   8.78
39)  1-Methylnaphthale 0.676 0.693 0.661 0.673 0.648 0.634 0.530 0.645   8.45
40)P 1,2,4,5-Tetrachlo 0.277 0.281 0.266 0.267 0.255 0.248 0.210 0.257   9.31

41) I   Acenaphthene-d10      ----------------ISTD---------------------
42)P Hexachlorocyclope 0.314 0.354 0.359 0.359 0.355 0.338 0.291 0.339   7.82
43)P 2,4,6-Trichloroph 0.416 0.427 0.411 0.413 0.403 0.389 0.334 0.399   7.73
44)P 2,4,5-Trichloroph 0.417 0.448 0.417 0.423 0.416 0.400 0.343 0.409   7.88
45)S 2-Fluorobiphenyl  1.429 1.519 1.393 1.360 1.318 1.272 1.078 1.338  10.43
46)P 1,1'-Biphenyl     1.909 1.862 1.812 1.622 1.553 1.453 1.181 1.628  15.93
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 2.08203 *A + -0.35502 *A^2

47)P 2-Chloronaphthale 1.229 1.299 1.190 1.166 1.119 1.063 0.888 1.136  11.71
48)P 2-Nitroaniline    0.535 0.567 0.542 0.568 0.545 0.534 0.455 0.535   7.07
49)  p-Dinitrobenzene  0.319 0.339 0.336 0.357 0.342 0.337 0.289 0.331   6.57
50)P Acenaphthylene    2.110 2.177 2.057 2.027 1.911 1.811 1.467 1.937  12.41
51)P Dimethylphthalate 1.405 1.456 1.363 1.311 1.229 1.140 0.911 1.259  14.84
52)  m-Dinitrobenzene  0.247 0.265 0.256 0.261 0.249 0.240 0.197 0.245   9.30
53)P 2,6-Dinitrotoluen 0.325 0.342 0.321 0.334 0.326 0.317 0.272 0.319   7.04
54)  o-Dinitrobenzene  0.271 0.288 0.274 0.288 0.276 0.272 0.232 0.271   7.00
55)P Acenaphthene      1.287 1.319 1.255 1.257 1.218 1.177 0.991 1.215   8.96
56)P 3-Nitroaniline    0.378 0.411 0.403 0.431 0.417 0.407 0.345 0.399   7.26
57)P 2,4-Dinitrophenol 0.112 0.167 0.202 0.239 0.238 0.237 0.208 0.200  23.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9936
              Response Ratio = 0.00000 + 0.25700 *A + -0.01713 *A^2

58)P Dibenzofuran      1.698 1.743 1.651 1.676 1.612 1.559 1.324 1.609   8.65
59)P 2,4-Dinitrotoluen 0.417 0.436 0.424 0.444 0.433 0.423 0.360 0.419   6.56
60)P 4-Nitrophenol     0.243 0.256 0.257 0.265 0.258 0.257 0.219 0.251   6.16
61)P 2,3,4,6-Tetrachlo 0.299 0.323 0.308 0.308 0.301 0.288 0.242 0.296   8.73
62)P Fluorene          1.391 1.456 1.365 1.380 1.331 1.292 1.087 1.329   8.90
63)P 4-Chlorophenyl-ph 0.621 0.624 0.583 0.569 0.535 0.515 0.425 0.553  12.56
64)P Diethylphthalate  1.403 1.454 1.378 1.345 1.265 1.196 0.993 1.291  12.18
65)P 4-Nitroaniline    0.375 0.405 0.395 0.410 0.391 0.390 0.331 0.385   6.87

66) I   Phenanthrene-d10      ----------------ISTD---------------------
67)P 4,6-Dinitro-2-met 0.107 0.135 0.147 0.164 0.161 0.161 0.138 0.145  13.93
68)P n-Nitrosodiphenyl 0.591 0.601 0.564 0.563 0.546 0.523 0.431 0.546  10.41
69)  1,2-Diphenylhydra 1.204 1.244 1.182 1.189 1.142 1.092 0.902 1.136  10.05
70)S 2,4,6-Tribromophe 0.090 0.095 0.087 0.089 0.086 0.084 0.071 0.086   8.81
71)P 4-Bromophenyl-phe 0.194 0.202 0.187 0.190 0.187 0.182 0.155 0.185   8.05
72)P Hexachlorobenzene 0.178 0.191 0.177 0.181 0.174 0.172 0.147 0.174   7.82
73)  Simazine          0.056 0.054 0.052 0.055 0.052 0.053 0.044 0.052   7.45
74)P Atrazine          0.235 0.230 0.232 0.225 0.214 0.215 0.187 0.220   7.54
75)P Pentachlorophenol 0.113 0.127 0.130 0.136 0.133 0.131 0.112 0.126   7.62
76)P Phenanthrene      1.180 1.191 1.134 1.151 1.106 1.080 0.914 1.108   8.47
77)P Anthracene        1.187 1.232 1.172 1.178 1.154 1.115 0.942 1.140   8.26
78)P Carbazole         1.044 1.059 1.019 1.045 1.004 0.984 0.834 0.998   7.73
79)P Di-n-butylphthala 1.281 1.321 1.286 1.311 1.271 1.257 1.056 1.255   7.20
80)P Fluoranthene      1.006 1.045 1.007 1.024 0.985 0.975 0.816 0.980   7.74

81) I   Chrysene-d12          ----------------ISTD---------------------
```

8.7.5

8

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICC170
Lab FileID: T003196.D

```
82)  Benzidine         0.680 0.864 0.875 0.803 0.750 0.685 0.531 0.741  16.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 1.05023 *A + -0.20417 *A^2

83)P Pyrene            1.460 1.529 1.406 1.459 1.438 1.385 1.162 1.406   8.32
84)S Terphenyl-d14     0.944 0.977 0.911 0.956 0.936 0.918 0.771 0.916   7.40
85)P Butylbenzylphthal 0.699 0.744 0.710 0.762 0.744 0.726 0.619 0.715   6.64
86)P 3,3'-Dichlorobenz 0.404 0.431 0.427 0.431 0.412 0.397 0.326 0.404   9.14
87)P Benzo[a]anthracen 1.108 1.152 1.124 1.168 1.147 1.114 0.955 1.110   6.45
88)P Chrysene          1.011 1.078 1.030 1.061 1.033 1.015 0.858 1.012   7.13
89)P bis(2-Ethylhexyl) 0.901 0.957 0.923 0.986 0.959 0.940 0.795 0.923   6.78

90) I   Perylene-d12          ----------------ISTD---------------------
91)P Di-n-octylphthala 1.869 1.966 1.896 2.082 1.974 1.930 1.591 1.901   8.04
92)P Benzo[b]fluoranth 1.297 1.257 1.264 1.311 1.301 1.260 1.193 1.269   3.14
93)P Benzo[k]fluoranth 1.190 1.353 1.258 1.242 1.223 1.143 0.899 1.187  12.01
94)P Benzo[a]pyrene    1.164 1.226 1.191 1.257 1.224 1.223 1.029 1.188   6.39
95)P Indeno[1,2,3-cd]p 0.825 0.895 0.896 0.972 0.971 0.988 0.856 0.915   6.92
96)P Dibenz[a,h]anthra 0.847 0.885 0.869 0.960 0.948 0.998 0.862 0.910   6.38
97)P Benzo[g,h,i]peryl 0.918 0.977 0.958 1.032 1.024 1.034 0.899 0.977   5.67
-------------------------------------------------------------------------------
(#) = Out of Range

          8270d.m           Wed Aug 01 09:59:52 2012
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8.7.5

8

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003198.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\073112\T003198.D Vial: 10
Acq On : 31 Jul 2012 5:08 pm Operator: fouads
Sample : icv170-50 Inst : MSBNA06
Misc : op42823,st170,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Aug 01 06:56:46 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	114	0.00	4.02
2		1,4-Dioxane	50.000	51.827	-3.7	112	0.07	1.50
3		N-nitrosodimethylamine	50.000	52.244	-4.5	114	0.06	1.80
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	51.205	-2.4	112	0.00	3.88
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	56.272	-12.5	125	-0.01	3.85
11	P	2-Chlorophenol	50.000	53.290	-6.6	118	0.00	3.89
12		1,3-Dichlorobenzene	50.000	51.017	-2.0	113	0.00	3.99
13		1,4-Dichlorobenzene	50.000	51.156	-2.3	113	0.00	4.03
14		1,2-Dichlorobenzene	50.000	54.648	-9.3	122	0.00	4.17
15		Benzyl alcohol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16	P	bis(2-chloroisopropyl)eth	50.000	47.634	4.7	110	0.00	4.27
		----------	Amount	Calc.	%Drift	----------		
17	P	2-Methylphenol	50.000	49.450	1.1	111	0.00	4.27
18	P	Acetophenone	50.000	49.863	0.3	112	-0.01	4.34
		----------	Amount	Calc.	%Drift	----------		
19	P	Hexachloroethane	50.000	42.767	14.5	100	0.00	4.38
20	P	N-Nitroso-di-n-propylamin	50.000	52.223	-4.4	115	-0.01	4.38
21	P	3&4-Methylphenol	100.000	93.687	6.3	133	0.00	4.38
		----------	Amount	Calc.	%Drift	----------		
22	I	Naphthalene-d8	40.000	40.000	0.0	115	0.00	4.97
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	52.876	-5.8	117	-0.01	4.46
25	P	Isophorone	50.000	44.130	11.7	96	0.00	4.64
26	P	2-Nitrophenol	50.000	53.209	-6.4	117	0.00	4.69
27	P	2,4-Dimethylphenol	50.000	47.843	4.3	105	0.00	4.76
28	P	bis(2-Chloroethoxy)methan	50.000	52.101	-4.2	115	0.00	4.82
29		Benzoic Acid	100.000	100.113	-0.1	110	0.02	4.96

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003198.D

30	P	2,4-Dichlorophenol	50.000	52.272	-4.5	118	0.00	4.89
31		1,2,4-Trichlorobenzene	50.000	49.715	0.6	110	0.00	4.94
32	P	Naphthalene	50.000	51.671	-3.3	113	0.00	4.99
33	P	4-Chloroaniline		----------NA----------				
34		2,6-Dichlorophenol	50.000	52.729	-5.5	119	0.00	5.07
35	P	Hexachlorobutadiene	50.000	51.542	-3.1	114	0.00	5.15
36	P	Caprolactam	50.000	46.574	6.9	104	-0.03	5.41
37	P	4-Chloro-3-methylphenol	50.000	52.353	-4.7	114	-0.01	5.54
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene	50.000	52.800	-5.6	116	0.00	5.73
40	P	1,2,4,5-Tetrachlorobenzen	50.000	49.406	1.2	109	0.00	5.84
41	I	Acenaphthene-d10	40.000	40.000	0.0	117	0.00	6.87
42	P	Hexachlorocyclopentadiene	50.000	54.434	-8.9	120	0.00	5.87
43	P	2,4,6-Trichlorophenol	50.000	50.057	-0.1	113	0.00	5.97
44	P	2,4,5-Trichlorophenol	50.000	50.737	-1.5	114	-0.01	6.01
45	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
46	P	1,1'-Biphenyl	50.000	43.138	13.7	105	0.00	6.16
		----------	Amount	Calc.	%Drift		----------	
47	P	2-Chloronaphthalene	50.000	49.357	1.3	112	0.00	6.15
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene	50.000	51.325	-2.7	114	-0.01	6.67
51	P	Dimethylphthalate	50.000	51.800	-3.6	116	-0.02	6.65
52		m-Dinitrobenzene		----------NA----------				
53	P	2,6-Dinitrotoluene	50.000	49.759	0.5	111	-0.01	6.72
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene	50.000	51.321	-2.6	116	-0.01	6.92
56	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	100.000	101.556	-1.6	109	-0.01	7.03
		----------	Amount	Calc.	%Drift		----------	
58	P	Dibenzofuran		----------NA----------				
59	P	2,4-Dinitrotoluene	50.000	49.021	2.0	108	-0.02	7.26
60	P	4-Nitrophenol	100.000	99.032	1.0	119	0.00	7.23
61	P	2,3,4,6-Tetrachlorophenol	50.000	48.816	2.4	109	-0.01	7.42
62	P	Fluorene	50.000	49.346	1.3	111	0.00	7.65
63	P	4-Chlorophenyl-phenylethe	50.000	48.271	3.5	109	0.00	7.71
64	P	Diethylphthalate	50.000	49.157	1.7	110	-0.01	7.70
65	P	4-Nitroaniline		----------NA----------				
66	I	Phenanthrene-d10	40.000	40.000	0.0	112	0.00	9.14
67	P	4,6-Dinitro-2-methylpheno	100.000	118.073	-18.1	127	-0.01	7.88
68	P	n-Nitrosodiphenylamine	50.000	51.164	-2.3	92	-0.01	7.93
69		1,2-Diphenylhydrazine	50.000	51.256	-2.5	109	0.00	7.95
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether	50.000	51.428	-2.9	112	0.00	8.47
72	P	Hexachlorobenzene	50.000	51.404	-2.8	111	0.00	8.65
73		Simazine		----------NA----------				
74	P	Atrazine	50.000	48.593	2.8	106	-0.01	8.95
75	P	Pentachlorophenol	100.000	100.917	-0.9	116	0.00	8.99
76	P	Phenanthrene	50.000	52.305	-4.6	112	0.00	9.18
77	P	Anthracene	50.000	50.770	-1.5	110	-0.01	9.25
78	P	Carbazole		----------NA----------				
79	P	Di-n-butylphthalate	50.000	50.884	-1.8	109	0.00	10.52

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003198.D

			Amount	Calc.	%Drift			
80	P	Fluoranthene	50.000	50.107	-0.2	107	-0.01	11.26
81	I	Chrysene-d12	40.000	40.000	0.0	107	0.00	13.91
82		Benzidine		----------NA----------				
83	P	Pyrene	50.000	56.282	-12.6	116	0.00	11.64
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate	50.000	53.943	-7.9	108	0.00	13.23
86	P	3,3'-Dichlorobenzidine		----------NA----------				
87	P	Benzo[a]anthracene	50.000	53.260	-6.5	108	-0.01	13.88
88	P	Chrysene	50.000	52.957	-5.9	108	-0.01	13.96
89	P	bis(2-Ethylhexyl)phthalat	50.000	53.631	-7.3	108	0.00	14.48
90	I	Perylene-d12	40.000	40.000	0.0	102	0.00	16.36
91	P	Di-n-octylphthalate	50.000	57.172	-14.3	106	0.00	15.58
92	P	Benzo[b]fluoranthene	50.000	53.217	-6.4	105	-0.02	15.77
93	P	Benzo[k]fluoranthene	50.000	56.531	-13.1	110	-0.01	15.82
94	P	Benzo[a]pyrene	50.000	50.144	-0.3	96	-0.02	16.27
95	P	Indeno[1,2,3-cd]pyrene	50.000	50.680	-1.4	97	-0.02	17.92
96	P	Dibenz[a,h]anthracene	50.000	51.892	-3.8	100	-0.02	17.99
97	P	Benzo[g,h,i]perylene	50.000	50.347	-0.7	97	-0.02	18.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T003194.D 8270d.m Wed Aug 01 08:26:09 2012

8.7.6

8

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003199.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\073112\T003199.D          Vial: 11
Acq On    : 31 Jul 2012   5:40 pm                   Operator: fouads
Sample    : icv170-50                               Inst    : MSBNA06
Misc      : op42823,st170,30.0,,,1,1,soil           Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Wed Aug 01 06:56:46 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	99	0.00	4.02
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine	50.000	49.599	0.8	96	0.00	1.72
		Amount	Calc.	%Drift				
5	P	Benzaldehyde	25.000	20.738	17.0	80	0.00	3.70
		Amount	Calc.	%Drift				
6		Aniline	50.000	43.967	12.1	83	0.00	3.81
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol	50.000	51.392	-2.8	98	-0.01	4.15
		Amount	Calc.	%Drift				
16	P	bis(2-chloroisopropyl)eth		NA				
		Amount	Calc.	%Drift				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
		Amount	Calc.	%Drift				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
		Amount	Calc.	%Drift				
22	I	Naphthalene-d8	40.000	40.000	0.0	97	0.00	4.97
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone	50.000	45.821	8.4	84	-0.02	4.63
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				

8.7.7

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Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003199.D

30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	47.125	5.8	88	-0.01	5.06
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	48.344	3.3	90	0.00	5.62
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	93	0.00	6.87
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
46	P	1,1'-Biphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	51.687	-3.4	91	-0.01	6.33
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene		----------NA----------				
51	P	Dimethylphthalate		----------NA----------				
52		m-Dinitrobenzene	50.000	51.691	-3.4	90	-0.02	6.63
53	P	2,6-Dinitrotoluene		----------NA----------				
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene		----------NA----------				
56	P	3-Nitroaniline	50.000	48.597	2.8	84	-0.03	6.88
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
58	P	Dibenzofuran	50.000	51.942	-3.9	93	-0.02	7.14
59	P	2,4-Dinitrotoluene		----------NA----------				
60	P	4-Nitrophenol		----------NA----------				
61	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
62	P	Fluorene		----------NA----------				
63	P	4-Chlorophenyl-phenylethe		----------NA----------				
64	P	Diethylphthalate		----------NA----------				
65	P	4-Nitroaniline	50.000	54.376	-8.8	95	-0.05	7.79
66	I	Phenanthrene-d10	40.000	40.000	0.0	96	-0.02	9.12
67	P	4,6-Dinitro-2-methylpheno		----------NA----------				
68	P	n-Nitrosodiphenylamine		----------NA----------				
69		1,2-Diphenylhydrazine		----------NA----------				
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether		----------NA----------				
72	P	Hexachlorobenzene		----------NA----------				
73		Simazine	50.000	63.992	-28.0#	116	-0.04	8.84
74	P	Atrazine		----------NA----------				
75	P	Pentachlorophenol		----------NA----------				
76	P	Phenanthrene		----------NA----------				
77	P	Anthracene		----------NA----------				
78	P	Carbazole	50.000	51.740	-3.5	95	-0.02	9.59
79	P	Di-n-butylphthalate		----------NA----------				

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: ST170-ICV170
Lab FileID: T003199.D

80	P	Fluoranthene		----------NA----------				
81	I	Chrysene-d12	40.000	40.000	0.0	102	-0.02	13.90
		----------	Amount	Calc.	%Drift		----------	
82		Benzidine	50.000	64.833	-29.7#	118	0.00	11.64
		----------	Amount	Calc.	%Drift		----------	
83	P	Pyrene		----------NA----------				
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate		----------NA----------				
86	P	3,3'-Dichlorobenzidine	50.000	48.400	3.2	92	-0.01	14.00
87	P	Benzo[a]anthracene		----------NA----------				
88	P	Chrysene		----------NA----------				
89	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
90	I	Perylene-d12	40.000	40.000	0.0	103	-0.02	16.35
91	P	Di-n-octylphthalate		----------NA----------				
92	P	Benzo[b]fluoranthene		----------NA----------				
93	P	Benzo[k]fluoranthene		----------NA----------				
94	P	Benzo[a]pyrene		----------NA----------				
95	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
96	P	Dibenz[a,h]anthracene		----------NA----------				
97	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T003194.D 8270d.m Wed Aug 01 08:32:17 2012

8.7.7

8

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003207.D
Acq On : 31 Jul 2012 9:55 pm
Operator : fouads
Sample : f95217-1
Misc : op42808,st170,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 01 07:47:05 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.016	152	505916	40.00	ppm	0.00
22) Naphthalene-d8	4.967	136	2194163	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1105874	40.00	ppm	0.00
66) Phenanthrene-d10	9.134	188	1840728	40.00	ppm	0.00
81) Chrysene-d12	13.909	240	1178303	40.00	ppm	-0.01
90) Perylene-d12	16.367	264	914565	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.091	112	1450080	68.42	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 68.42%			
9) Phenol-d5	3.839	99	2054249	72.66	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 72.66%			
23) Nitrobenzene-d5	4.443	82	991796	36.49	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 72.98%			
45) 2-Fluorobiphenyl	6.056	172	1298436	35.09	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 70.18%			
70) 2,4,6-Tribromophenol	8.060	330	288240	73.02	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 73.02%			
84) Terphenyl-d14	12.125	244	1168599	43.30	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 86.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.1.1

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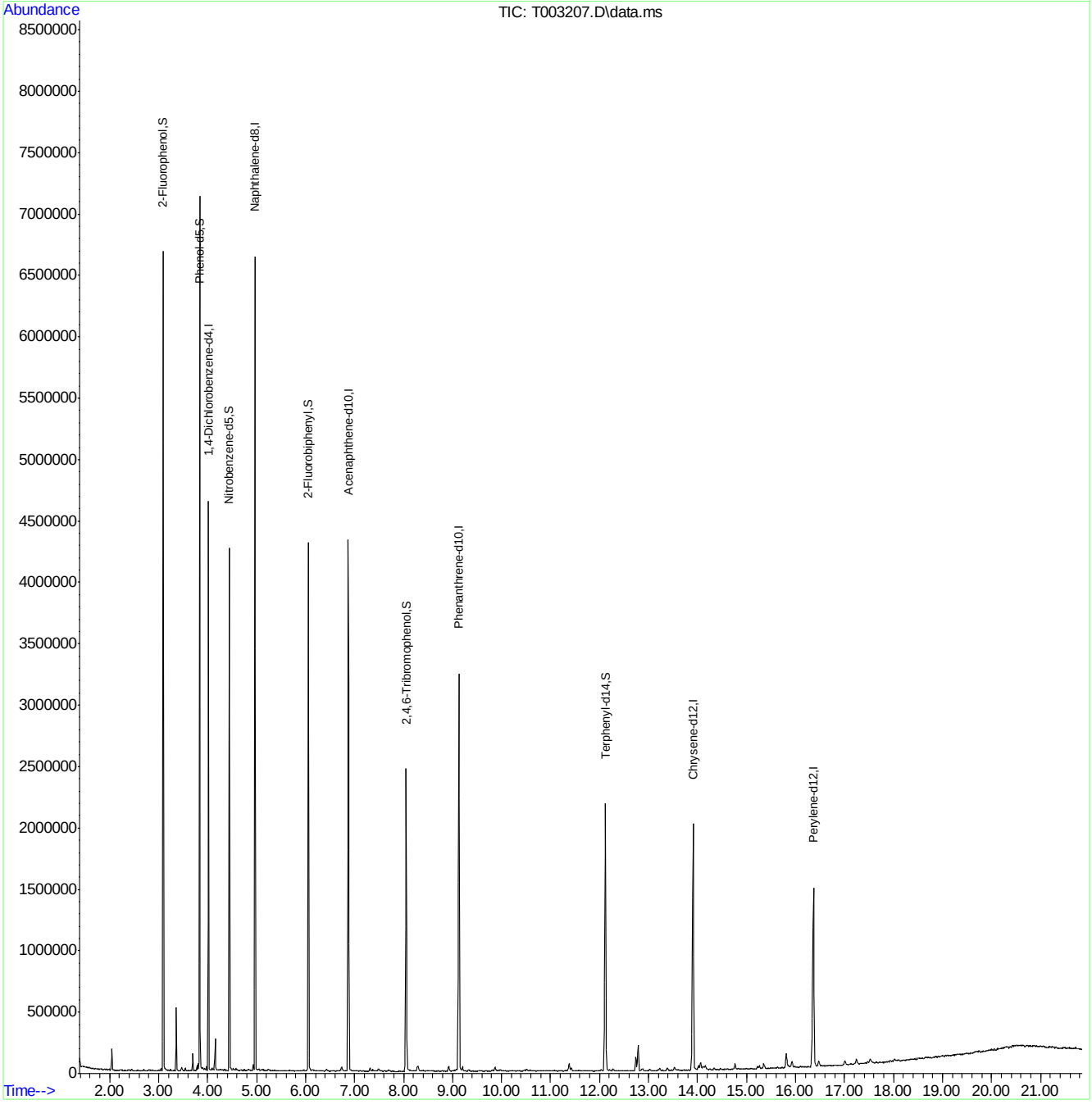
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003207.D
Acq On : 31 Jul 2012 9:55 pm
Operator : fouads
Sample : f95217-1
Misc : op42808,st170,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 01 07:47:05 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003208.D
Acq On : 31 Jul 2012 10:26 pm
Operator : fouads
Sample : f95217-2
Misc : op42808,st170,30.1,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 01 07:48:25 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

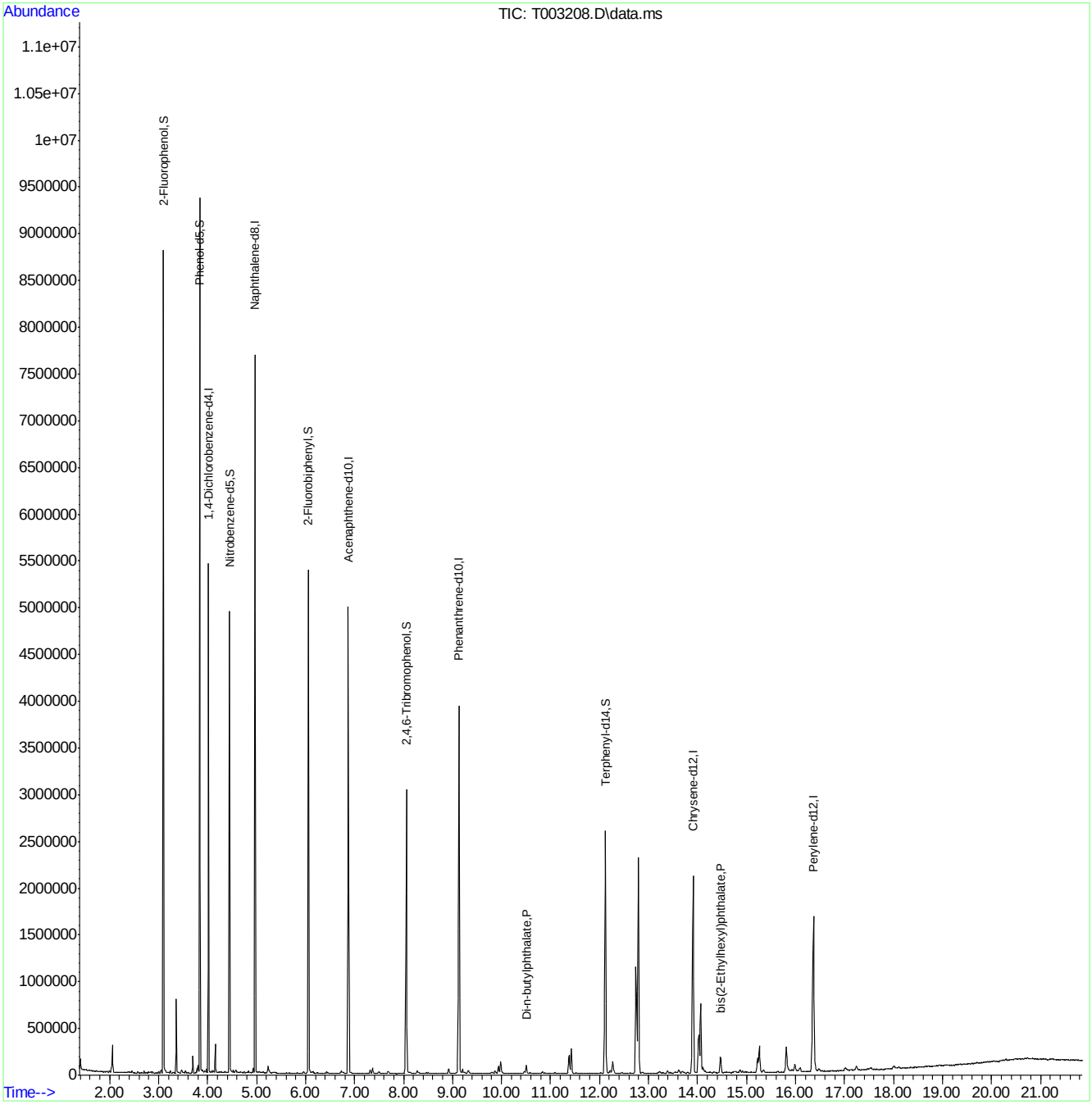
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	608697	40.00 ppm	0.00
22) Naphthalene-d8	4.967	136	2724235	40.00 ppm	0.00
41) Acenaphthene-d10	6.874	164	1347523	40.00 ppm	0.00
66) Phenanthrene-d10	9.133	188	2143725	40.00 ppm	0.00
81) Chrysene-d12	13.909	240	1261183	40.00 ppm	-0.01
90) Perylene-d12	16.367	264	972938	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	3.097	112	1872642	73.44 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 73.44%		
9) Phenol-d5	3.845	99	2656933	78.11 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 78.11%		
23) Nitrobenzene-d5	4.448	82	1322188	39.18 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 78.36%		
45) 2-Fluorobiphenyl	6.056	172	1749740	38.80 ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 77.60%		
70) 2,4,6-Tribromophenol	8.060	330	360348	78.38 ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.38%		
84) Terphenyl-d14	12.125	244	1413392	48.93 ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 97.86%		
Target Compounds					Qvalue
79) Di-n-butylphthalate	10.506	149	65463	0.97 ppm	98
89) bis(2-Ethylhexyl)phtha...	14.470	149	77951	2.68 ppm	99

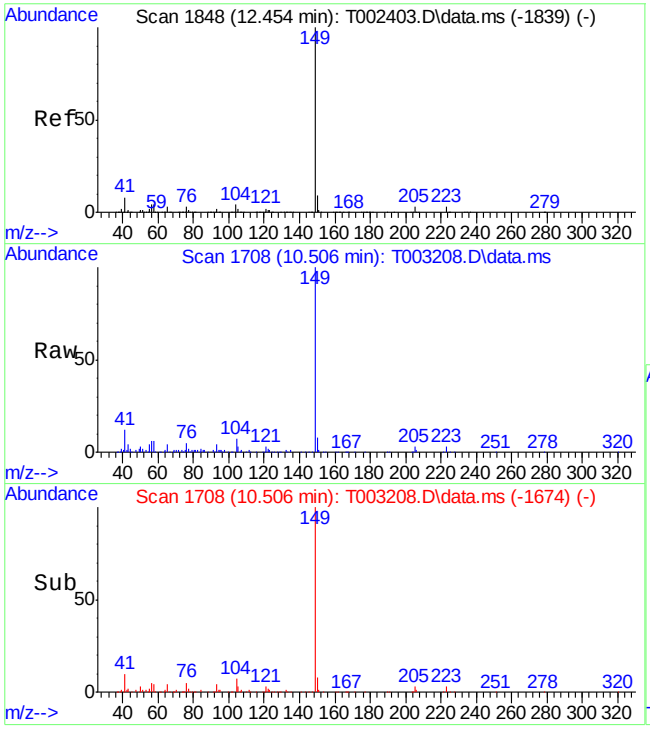
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003208.D
Acq On : 31 Jul 2012 10:26 pm
Operator : fouads
Sample : f95217-2
Misc : op42808,st170,30.1,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 01 07:48:25 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

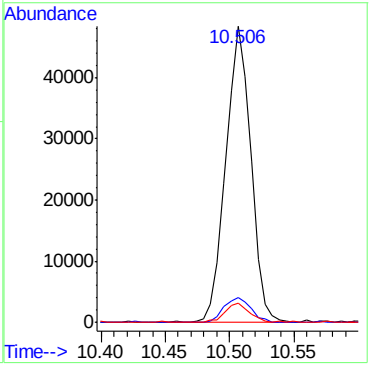


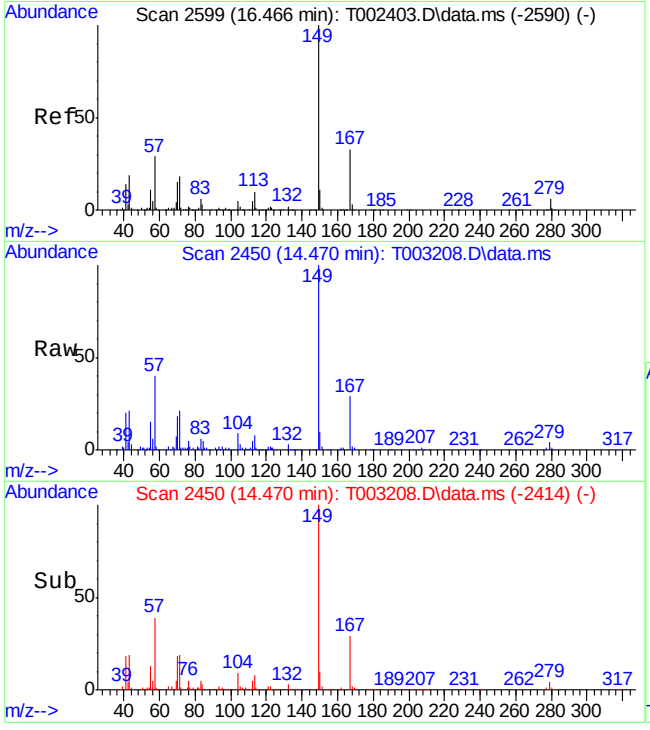


#79
Di-n-butylphthalate
Concen: 0.97 ppm
RT: 10.506 min Scan# 1708
Delta R.T. -0.017 min
Lab File: T003208.D
Acq: 31 Jul 2012 10:26 pm

Tgt Ion:149 Resp: 65463

Ion	Ratio	Lower	Upper
149	100		
150	8.3	0.0	38.6
104	6.2	0.0	34.9

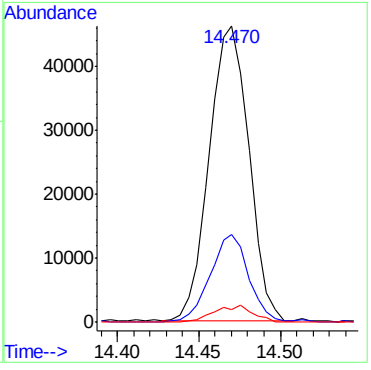




#89
bis(2-Ethylhexyl)phthalate
Concen: 2.68 ppm
RT: 14.470 min Scan# 2450
Delta R.T. -0.007 min
Lab File: T003208.D
Acq: 31 Jul 2012 10:26 pm

Tgt Ion:149 Resp: 77951

Ion	Ratio	Lower	Upper
149	100		
167	29.5	0.0	59.4
279	4.2	0.0	35.4



9.1.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003209.D
Acq On : 31 Jul 2012 10:57 pm
Operator : fouads
Sample : f95217-3
Misc : op42808,st170,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 07:49:32 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	578386	40.00	ppm	0.00
22) Naphthalene-d8	4.966	136	2521061	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1266691	40.00	ppm	0.00
66) Phenanthrene-d10	9.133	188	2068465	40.00	ppm	0.00
81) Chrysene-d12	13.909	240	1364691	40.00	ppm	-0.01
90) Perylene-d12	16.367	264	1083344	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.091	112	1695641	69.98	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 69.98%			
9) Phenol-d5	3.845	99	2386152	73.82	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 73.82%			
23) Nitrobenzene-d5	4.443	82	1153325	36.93	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 73.86%			
45) 2-Fluorobiphenyl	6.056	172	1498385	35.35	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 70.70%			
70) 2,4,6-Tribromophenol	8.060	330	328031	73.95	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 73.95%			
84) Terphenyl-d14	12.125	244	1345853	43.06	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 86.12%			

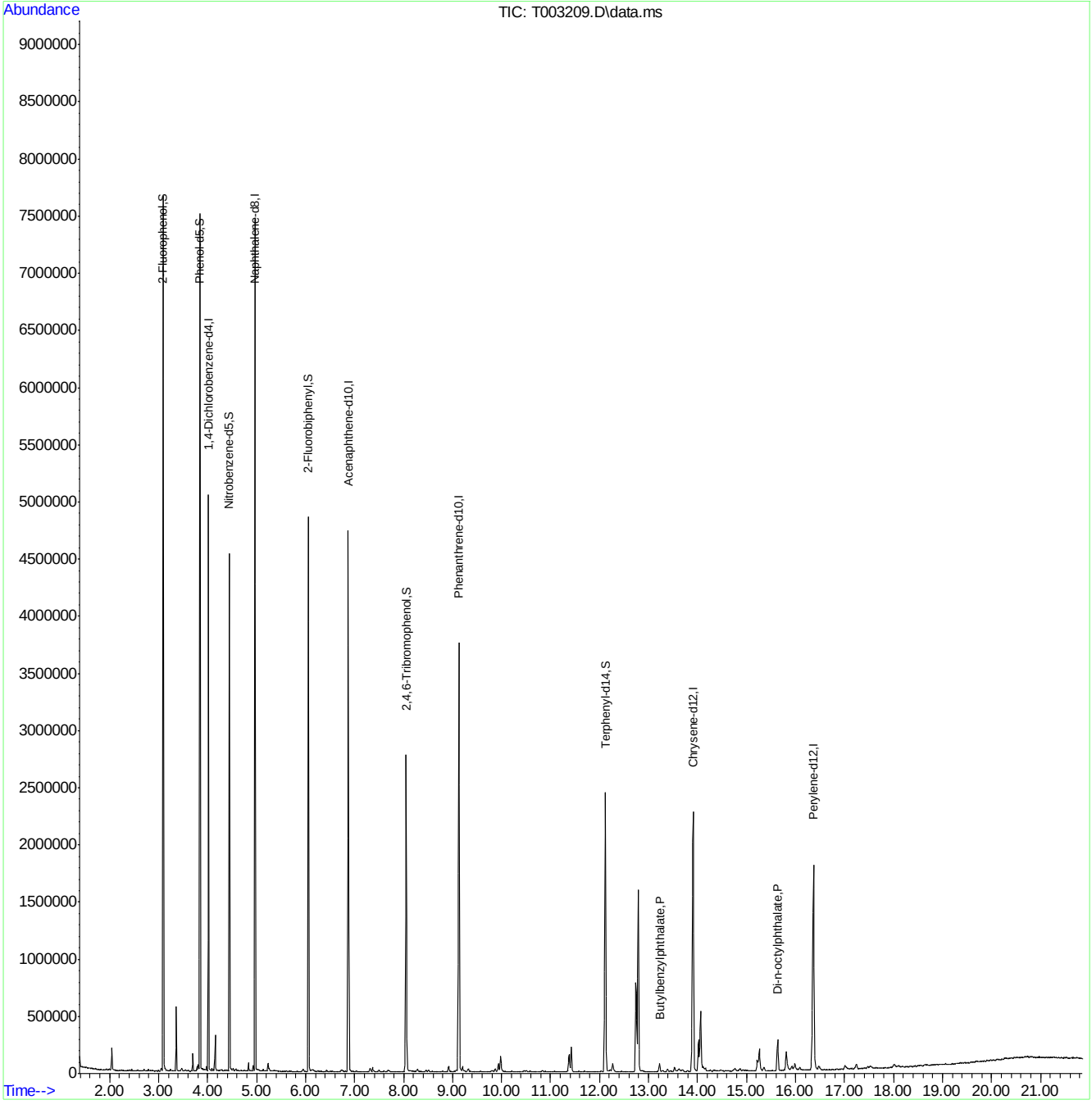
Target Compounds						Qvalue
85) Butylbenzylphthalate	13.226	149	23936	0.98	ppm	88
91) Di-n-octylphthalate	15.635	149	40952	0.80	ppm	61

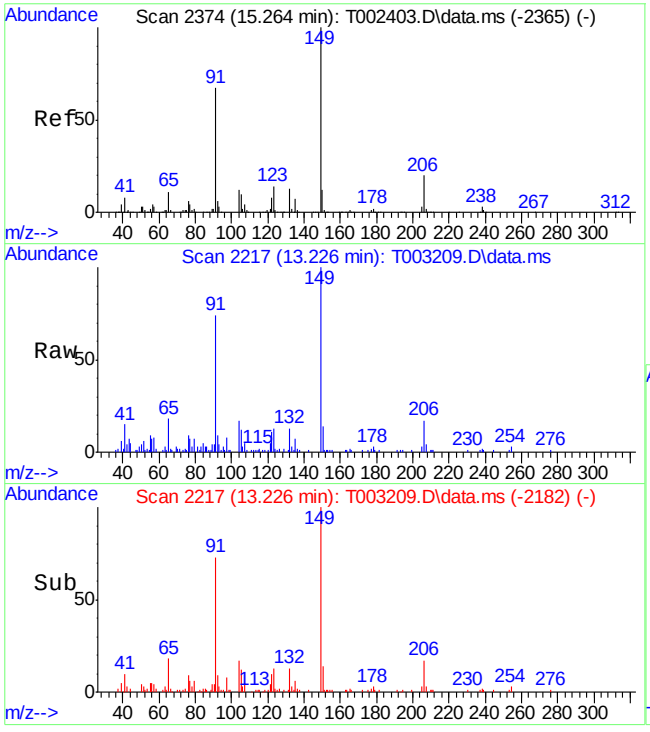
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003209.D
Acq On : 31 Jul 2012 10:57 pm
Operator : fouads
Sample : f95217-3
Misc : op42808,st170,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 07:49:32 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

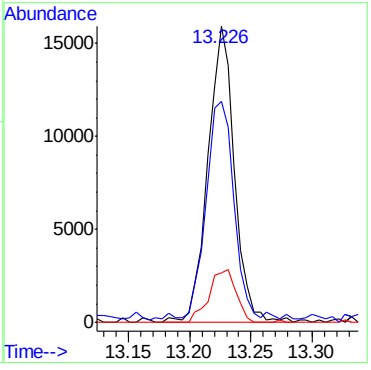


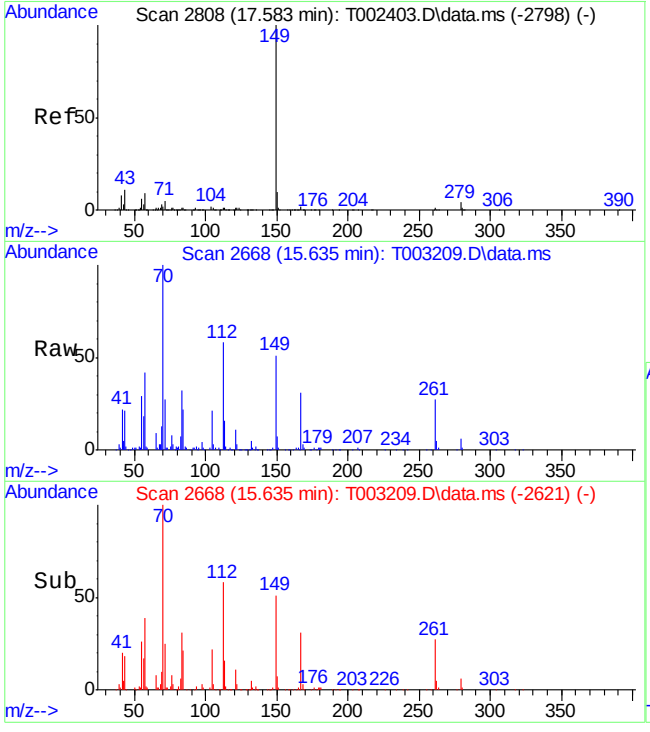


#85
Butylbenzylphthalate
Concen: 0.98 ppm
RT: 13.226 min Scan# 2217
Delta R.T. -0.012 min
Lab File: T003209.D
Acq: 31 Jul 2012 10:57 pm

Tgt Ion:149 Resp: 23936

Ion	Ratio	Lower	Upper
149	100		
91	73.2	56.2	116.2
206	16.7	0.0	48.2

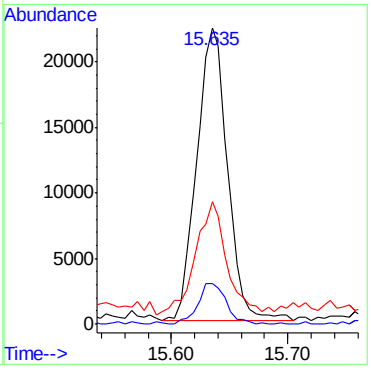




#91
Di-n-octylphthalate
Concen: 0.80 ppm
RT: 15.635 min Scan# 2668
Delta R.T. 0.052 min
Lab File: T003209.D
Acq: 31 Jul 2012 10:57 pm

Tgt Ion:149 Resp: 40952

Ion	Ratio	Lower	Upper
149	100		
150	13.6	0.0	39.6
43	35.9	0.0	42.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003210.D
Acq On : 31 Jul 2012 11:28 pm
Operator : fouads
Sample : f95217-4
Misc : op42808,st170,29.8,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 07:50:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	582562	40.00	ppm	0.00
22) Naphthalene-d8	4.966	136	2556439	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1238810	40.00	ppm	0.00
66) Phenanthrene-d10	9.128	188	1988288	40.00	ppm	-0.01
81) Chrysene-d12	13.909	240	1225194	40.00	ppm	-0.01
90) Perylene-d12	16.367	264	967629	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.097	112	1738531	71.24	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 71.24%			
9) Phenol-d5	3.845	99	2431672	74.69	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 74.69%			
23) Nitrobenzene-d5	4.443	82	1194223	37.71	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.42%			
45) 2-Fluorobiphenyl	6.056	172	1532218	36.96	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.92%			
70) 2,4,6-Tribromophenol	8.060	330	314744	73.81	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 73.81%			
84) Terphenyl-d14	12.120	244	1216877	43.37	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 86.74%			

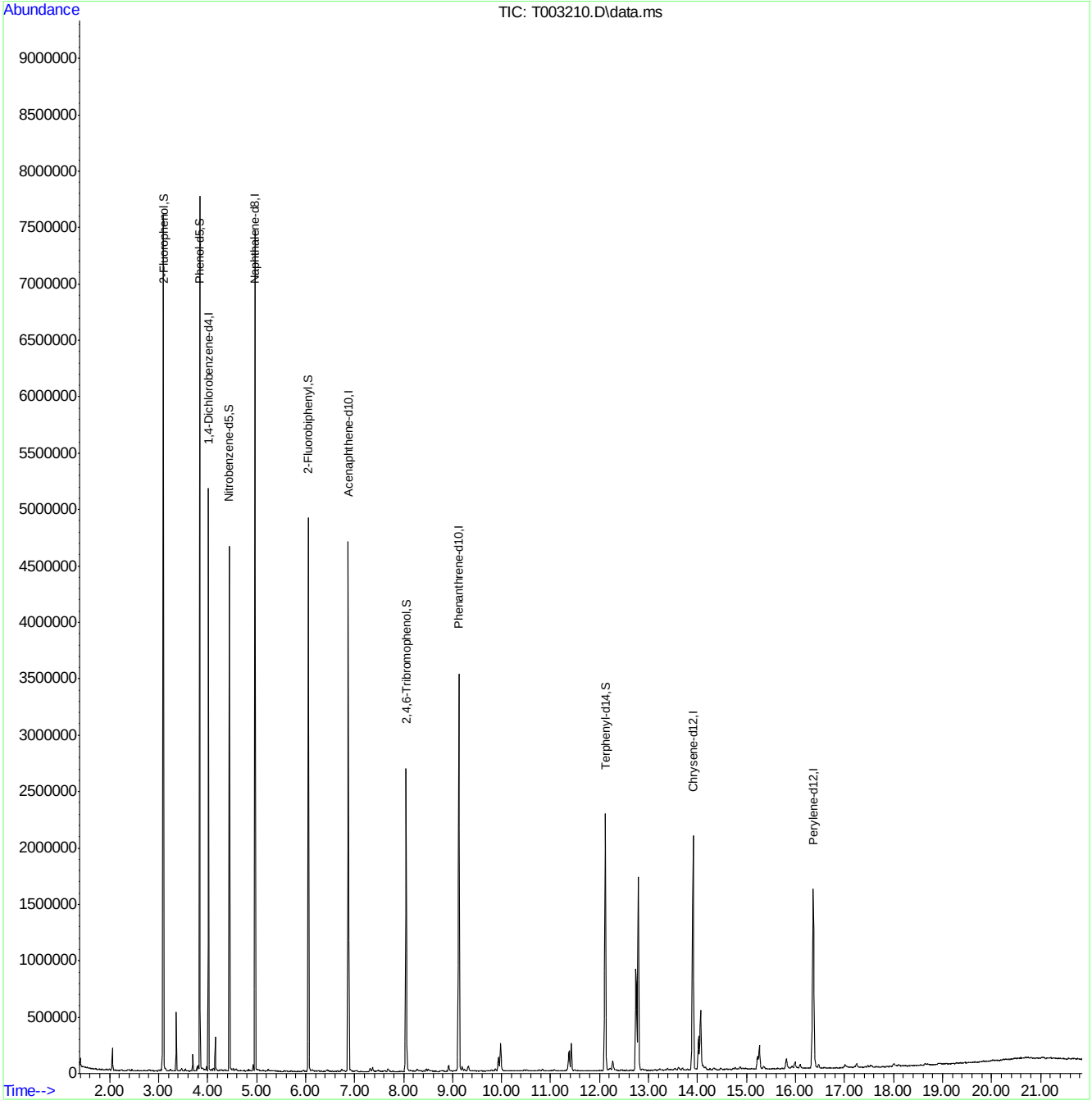
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003210.D
Acq On : 31 Jul 2012 11:28 pm
Operator : fouads
Sample : f95217-4
Misc : op42808,st170,29.8,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 07:50:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration



8270d.m Wed Aug 01 08:25:34 2012 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003211.D
Acq On : 31 Jul 2012 11:59 pm
Operator : fouads
Sample : f95217-5
Misc : op42808,st170,30.4,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 01 07:52:04 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	559566	40.00	ppm	0.00
22) Naphthalene-d8	4.966	136	2482701	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1252882	40.00	ppm	0.00
66) Phenanthrene-d10	9.133	188	2087849	40.00	ppm	0.00
81) Chrysene-d12	13.909	240	1398145	40.00	ppm	-0.01
90) Perylene-d12	16.367	264	1111456	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.091	112	1524601	65.04	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.04%			
9) Phenol-d5	3.839	99	2172140	69.46	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 69.46%			
23) Nitrobenzene-d5	4.443	82	1029540	33.48	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.96%			
45) 2-Fluorobiphenyl	6.056	172	1366384	32.59	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 65.18%			
70) 2,4,6-Tribromophenol	8.060	330	313225	69.96	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 69.96%			
84) Terphenyl-d14	12.120	244	1291494	40.33	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 80.66%			

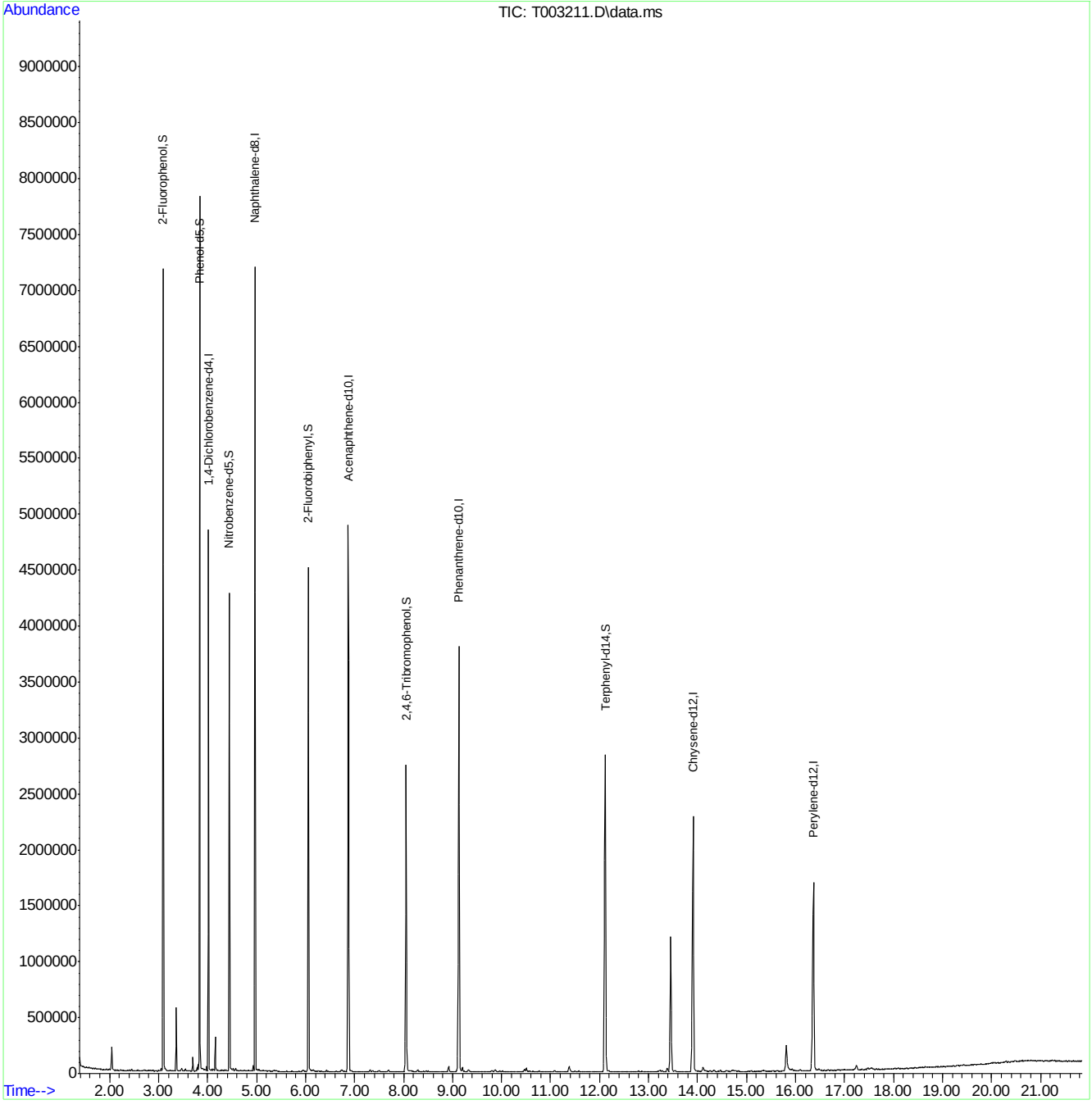
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003211.D
Acq On : 31 Jul 2012 11:59 pm
Operator : fouads
Sample : f95217-5
Misc : op42808,st170,30.4,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 01 07:52:04 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058580.D
Acq On : 2 Aug 2012 6:05 pm
Operator : nancyf
Sample : f95217-6
Misc : op42808,sl2988,29.7,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 03 08:18:00 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.184	152	135690	40.00 ppm	0.00
22) Naphthalene-d8	5.161	136	454593	40.00 ppm	0.00
42) Acenaphthene-d10	7.159	164	247788	40.00 ppm	0.00
68) Phenanthrene-d10	9.455	188	356107	40.00 ppm	-0.01
83) Chrysene-d12	14.262	240	273797	40.00 ppm	-0.02
92) Perylene-d12	16.730	264	226170	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.276	112	295349	60.43 ppm	-0.03
Spiked Amount 100.000	Range 40 - 102		Recovery = 60.43%		
9) Phenol-d5	4.002	99	358356	64.48 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 64.48%		
23) Nitrobenzene-d5	4.611	82	167342	33.05 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.10%		
46) 2-Fluorobiphenyl	6.304	172	295637	34.75 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.50%		
72) 2,4,6-Tribromophenol	8.366	330	79492	80.67 ppm	-0.04
Spiked Amount 100.000	Range 42 - 108		Recovery = 80.67%		
86) Terphenyl-d14	12.457	244	251667	40.74 ppm	-0.04
Spiked Amount 50.000	Range 45 - 119		Recovery = 81.48%		

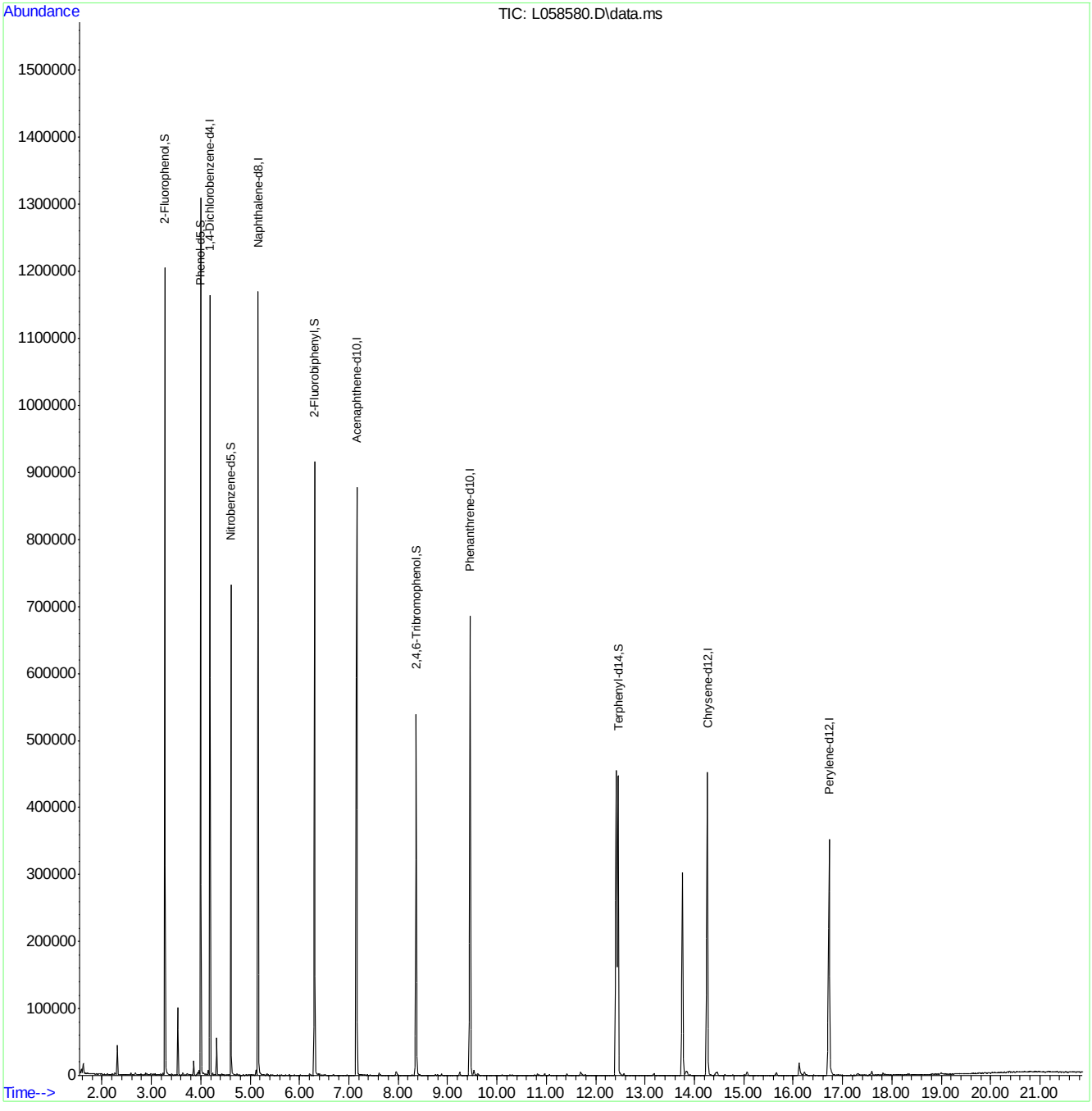
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058580.D
Acq On : 2 Aug 2012 6:05 pm
Operator : nancyf
Sample : f95217-6
Misc : op42808,sl2988,29.7,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 03 08:18:00 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003201.D
Acq On : 31 Jul 2012 6:44 pm
Operator : fouads
Sample : op42808-mb
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 07:33:15 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	754721	40.00 ppm	0.00
22) Naphthalene-d8	4.967	136	3339073	40.00 ppm	0.00
41) Acenaphthene-d10	6.874	164	1656984	40.00 ppm	0.00
66) Phenanthrene-d10	9.128	188	2624962	40.00 ppm	-0.01
81) Chrysene-d12	13.904	240	1759338	40.00 ppm	-0.02
90) Perylene-d12	16.362	264	1301693	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.124	112	2181739	69.01 ppm	0.03
Spiked Amount 100.000	Range 40 - 102		Recovery = 69.01%		
9) Phenol-d5	3.845	99	2986725	70.81 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.81%		
23) Nitrobenzene-d5	4.443	82	1438916	34.79 ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.58%		
45) 2-Fluorobiphenyl	6.056	172	1901148	34.29 ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.58%		
70) 2,4,6-Tribromophenol	8.054	330	404619	71.88 ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 71.88%		
84) Terphenyl-d14	12.120	244	1627701	40.39 ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 80.78%		

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

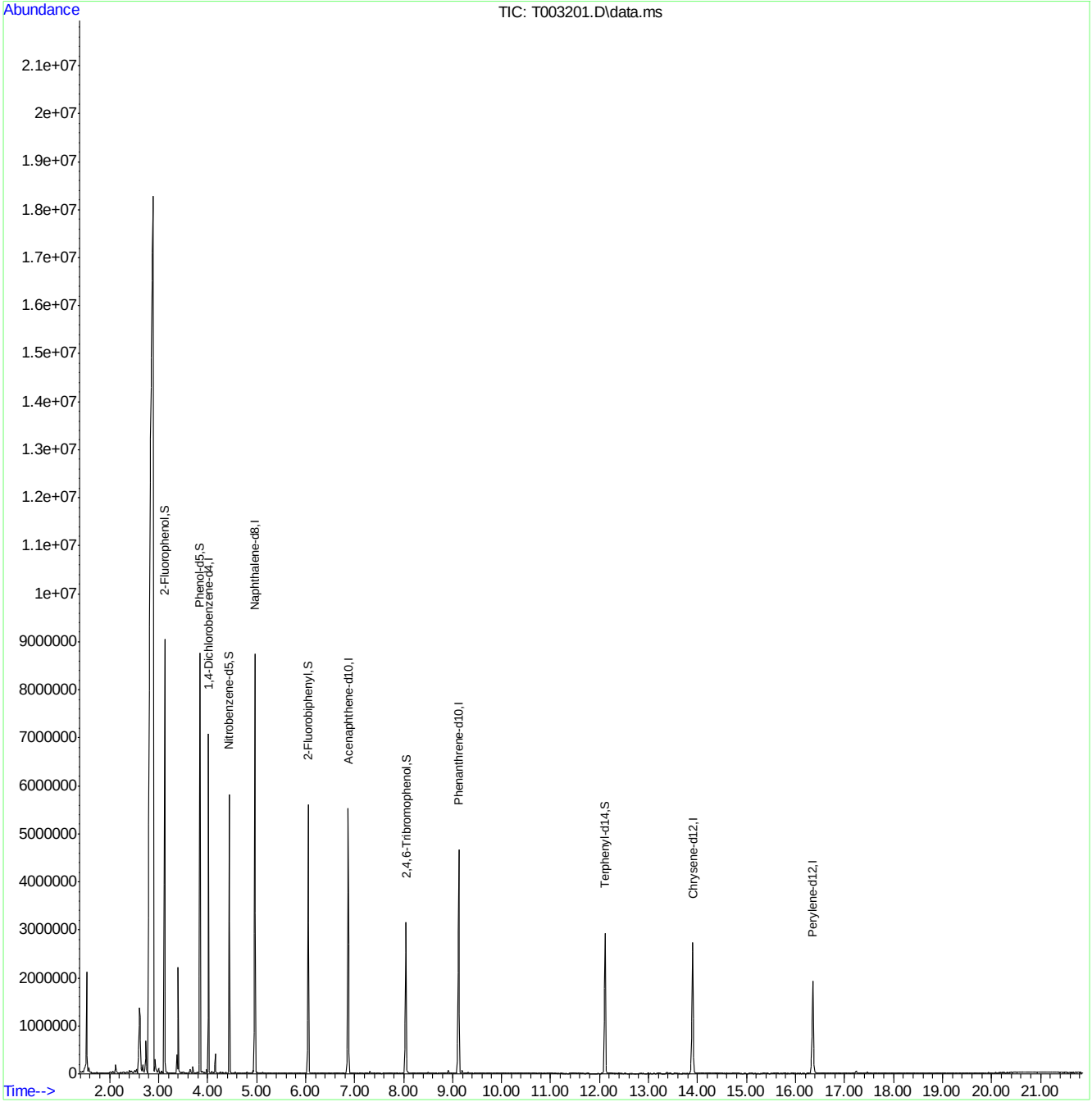
9.2.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003201.D
Acq On : 31 Jul 2012 6:44 pm
Operator : fouads
Sample : op42808-mb
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 07:33:15 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration



8270d.m Wed Aug 01 08:25:22 2012 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058579.D
Acq On : 2 Aug 2012 5:34 pm
Operator : nancyf
Sample : op42808-mb
Misc : op42808,sl2988,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 03 08:17:26 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.185	152	175025	40.00 ppm	0.00
22) Naphthalene-d8	5.163	136	585820	40.00 ppm	0.00
42) Acenaphthene-d10	7.155	164	328625	40.00 ppm	0.00
68) Phenanthrene-d10	9.457	188	467024	40.00 ppm	-0.01
83) Chrysene-d12	14.264	240	358585	40.00 ppm	-0.02
92) Perylene-d12	16.732	264	298250	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.304	112	367409	58.28 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 58.28%		
9) Phenol-d5	4.004	99	451462	62.84 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 62.84%		
23) Nitrobenzene-d5	4.613	82	224146	34.36 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 68.72%		
46) 2-Fluorobiphenyl	6.306	172	394057	34.93 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.86%		
72) 2,4,6-Tribromophenol	8.367	330	97032	75.08 ppm	-0.04
Spiked Amount 100.000	Range 42 - 108		Recovery = 75.08%		
86) Terphenyl-d14	12.453	244	317673	39.26 ppm	-0.04
Spiked Amount 50.000	Range 45 - 119		Recovery = 78.52%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

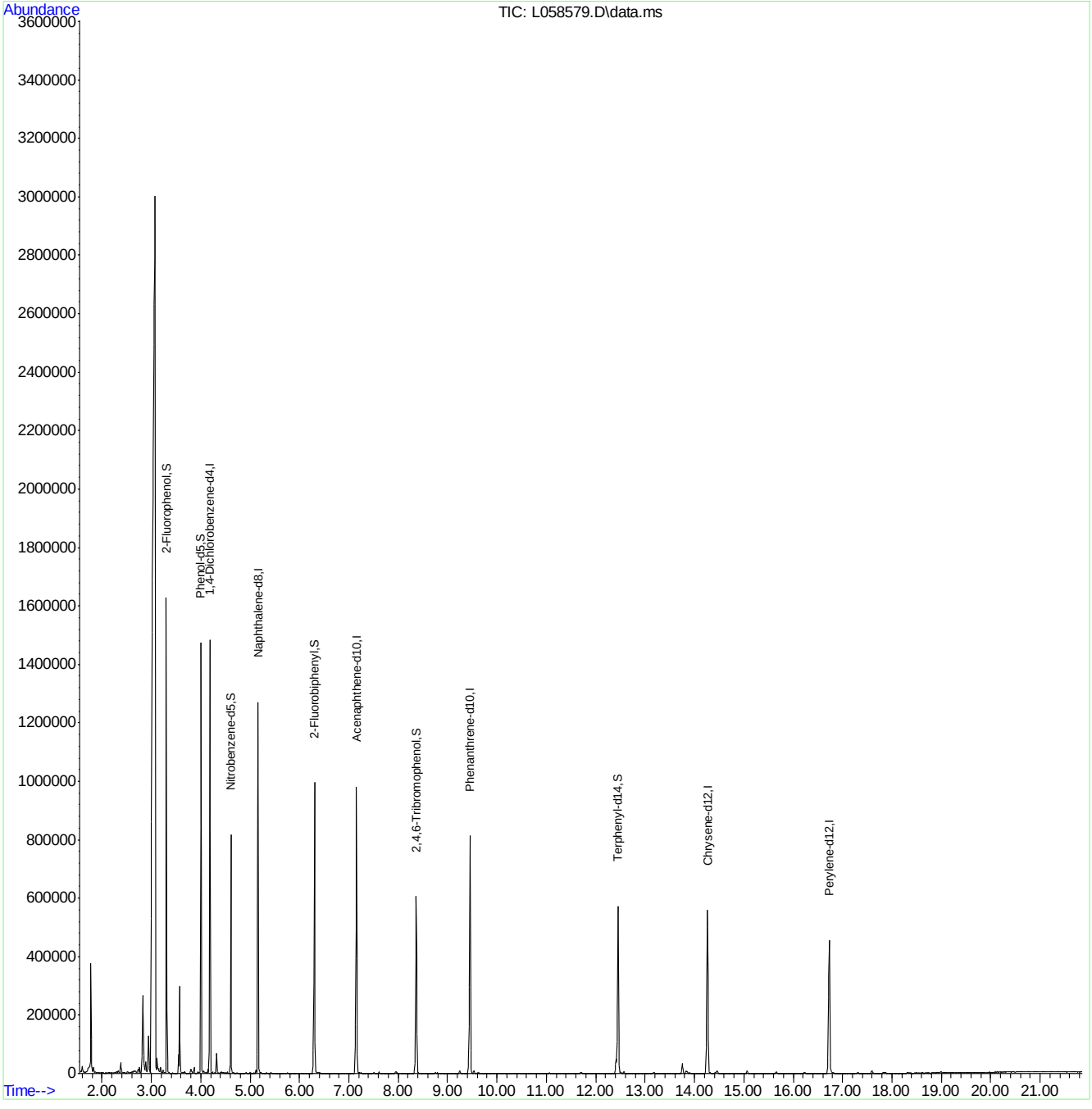
9.2.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058579.D
Acq On : 2 Aug 2012 5:34 pm
Operator : nancyf
Sample : op42808-mb
Misc : op42808,sl2988,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 03 08:17:26 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 10:07:45 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	710635	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	3078910	40.00	ppm	0.00
41) Acenaphthene-d10	6.879	164	1472962	40.00	ppm	0.00
66) Phenanthrene-d10	9.139	188	2326090	40.00	ppm	0.00
81) Chrysene-d12	13.915	240	1512136	40.00	ppm	0.00
90) Perylene-d12	16.367	264	1135060	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.123	112	2314756	77.76	ppm	0.03
Spiked Amount 100.000	Range 40 - 102		Recovery = 77.76%			
9) Phenol-d5	3.850	99	3098780	78.03	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 78.03%			
23) Nitrobenzene-d5	4.448	82	1520757	39.87	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 79.74%			
45) 2-Fluorobiphenyl	6.062	172	2030721	41.20	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 82.40%			
70) 2,4,6-Tribromophenol	8.070	330	431615	86.52	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 86.52%			
84) Terphenyl-d14	12.120	244	1626152	46.95	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 93.90%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.531	88	290151m	21.25	ppm	
3) N-nitrosodimethylamine	1.830	42	676030	35.44	ppm	98
4) Pyridine	1.814	79	1101145	29.51	ppm	98
5) Benzaldehyde	3.706	106	796629	36.65	ppm	98
6) Aniline	3.823	93	1851978	35.29	ppm	78
8) bis(2-Chloroethyl)ether	3.882	93	1345135	40.08	ppm	97
10) Phenol	3.855	94	1580909	39.33	ppm	94
11) 2-Chlorophenol	3.898	128	1231600	40.41	ppm	98
12) 1,3-Dichlorobenzene	3.994	146	1077569	35.15	ppm	98
13) 1,4-Dichlorobenzene	4.031	146	1090528	35.95	ppm	99
14) 1,2-Dichlorobenzene	4.165	146	981649	35.56	ppm	97
15) Benzyl alcohol	4.165	108	870839	41.21	ppm	99
16) bis(2-chloroisopropyl)...	4.272	45	1822019	33.50	ppm	91
17) 2-Methylphenol	4.277	108	1095217	38.77	ppm	100
18) Acetophenone	4.347	105	1799450	38.10	ppm	99
19) Hexachloroethane	4.384	117	343748	27.44	ppm	100
20) N-Nitroso-di-n-propyla...	4.379	70	855562	38.44	ppm	96
21) 3&4-Methylphenol	4.389	108	2076366	74.59	ppm	94
24) Nitrobenzene	4.464	77	1462230	40.39	ppm	97
25) Isophorone	4.641	82	2385379	34.66	ppm	99
26) 2-Nitrophenol	4.694	139	676902	41.33	ppm	85
27) 2,4-Dimethylphenol	4.758	107	1200551	36.65	ppm	98
28) bis(2-Chloroethoxy)met...	4.822	93	1649073	42.93	ppm	100
29) Benzoic Acid	4.956	105	1709750	58.51	ppm	88
30) 2,4-Dichlorophenol	4.886	162	900326	41.63	ppm	95
31) 1,2,4-Trichlorobenzene	4.940	180	897357	38.11	ppm	99
32) Naphthalene	4.988	128	3305926	39.59	ppm	99
33) 4-Chloroaniline	5.068	127	1043636	30.89	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 10:07:45 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	816211	39.78	ppm		99
35) Hexachlorobutadiene	5.153	225	447405	39.47	ppm		99
36) Caprolactam	5.410	113	476600m	40.10	ppm		
37) 4-Chloro-3-methylphenol	5.543	107	1211662	43.11	ppm		97
38) 2-Methylnaphthalene	5.618	142	2216416	40.86	ppm		99
39) 1-Methylnaphthalene	5.730	142	2062092	41.54	ppm		99
40) 1,2,4,5-Tetrachloroben...	5.843	216	782658	39.49	ppm		99
42) Hexachlorocyclopentadiene	5.869	237	511790	41.03	ppm		98
43) 2,4,6-Trichlorophenol	5.971	196	655037	44.59	ppm		98
44) 2,4,5-Trichlorophenol	6.019	196	642463	42.64	ppm		100
46) 1,1'-Biphenyl	6.158	154	2325858	35.80	ppm		100
47) 2-Chloronaphthalene	6.147	162	1725511	41.24	ppm		99
48) 2-Nitroaniline	6.339	65	839727	42.62	ppm		99
50) Acenaphthylene	6.665	152	2979969	41.78	ppm		98
51) Dimethylphthalate	6.655	163	2025197	43.67	ppm		100
52) m-Dinitrobenzene	6.644	168	384702	42.67	ppm		90
53) 2,6-Dinitrotoluene	6.724	165	523555	44.51	ppm		88
55) Acenaphthene	6.922	153	1907968	42.65	ppm		99
56) 3-Nitroaniline	6.890	138	492610	33.53	ppm		93
57) 2,4-Dinitrophenol	7.039	184	661386	80.75	ppm		98
58) Dibenzofuran	7.151	168	2552916	43.09	ppm		98
59) 2,4-Dinitrotoluene	7.269	165	674718	43.68	ppm		96
60) 4-Nitrophenol	7.226	109	793492	85.93	ppm	#	87
61) 2,3,4,6-Tetrachlorophenol	7.418	232	473243	43.47	ppm		96
62) Fluorene	7.654	166	2107375	43.07	ppm		99
63) 4-Chlorophenyl-phenyle...	7.707	204	868786	42.66	ppm		99
64) Diethylphthalate	7.707	149	2136933	44.96	ppm		100
65) 4-Nitroaniline	7.830	138	583965	41.15	ppm		98
67) 4,6-Dinitro-2-methylph...	7.889	198	855326	101.61	ppm	#	100
68) n-Nitrosodiphenylamine	7.931	169	1449306	45.68	ppm		98
69) 1,2-Diphenylhydrazine	7.947	77	2888697	43.71	ppm		98
71) 4-Bromophenyl-phenylether	8.471	248	492736	45.71	ppm		99
72) Hexachlorobenzene	8.653	284	453476	44.75	ppm		99
74) Atrazine	8.952	200	535414	41.88	ppm		98
75) Pentachlorophenol	8.989	266	629438	85.92	ppm		98
76) Phenanthrene	9.181	178	2913170	45.21	ppm		99
77) Anthracene	9.256	178	2963617	44.71	ppm		99
78) Carbazole	9.598	167	2619278	45.12	ppm		99
79) Di-n-butylphthalate	10.517	149	3295854	45.17	ppm		99
80) Fluoranthene	11.260	202	2511381	44.08	ppm		99
82) Benzidine	11.628	184	202840	5.24	ppm		99
83) Pyrene	11.639	202	2595282	48.84	ppm		99
85) Butylbenzylphthalate	13.231	149	1303035	48.22	ppm		97
86) 3,3'-Dichlorobenzidine	14.000	252	595534	38.99	ppm		98
87) Benzo[a]anthracene	13.883	228	1952492	46.54	ppm		98
88) Chrysene	13.963	228	1786092	46.68	ppm		100
89) bis(2-Ethylhexyl)phtha...	14.476	149	1679855	48.14	ppm		99
91) Di-n-octylphthalate	15.576	149	2725827	50.53	ppm		100
92) Benzo[b]fluoranthene	15.774	252	1637251	45.47	ppm		98
93) Benzo[k]fluoranthene	15.822	252	1581243	46.95	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 10:07:45 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[a]pyrene	16.265	252	1474462	43.75 ppm	98
95) Indeno[1,2,3-cd]pyrene	17.927	276	1157385	44.59 ppm	98
96) Dibenz[a,h]anthracene	17.991	278	1157420	44.83 ppm	98
97) Benzo[g,h,i]perylene	18.258	276	1214943	43.81 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

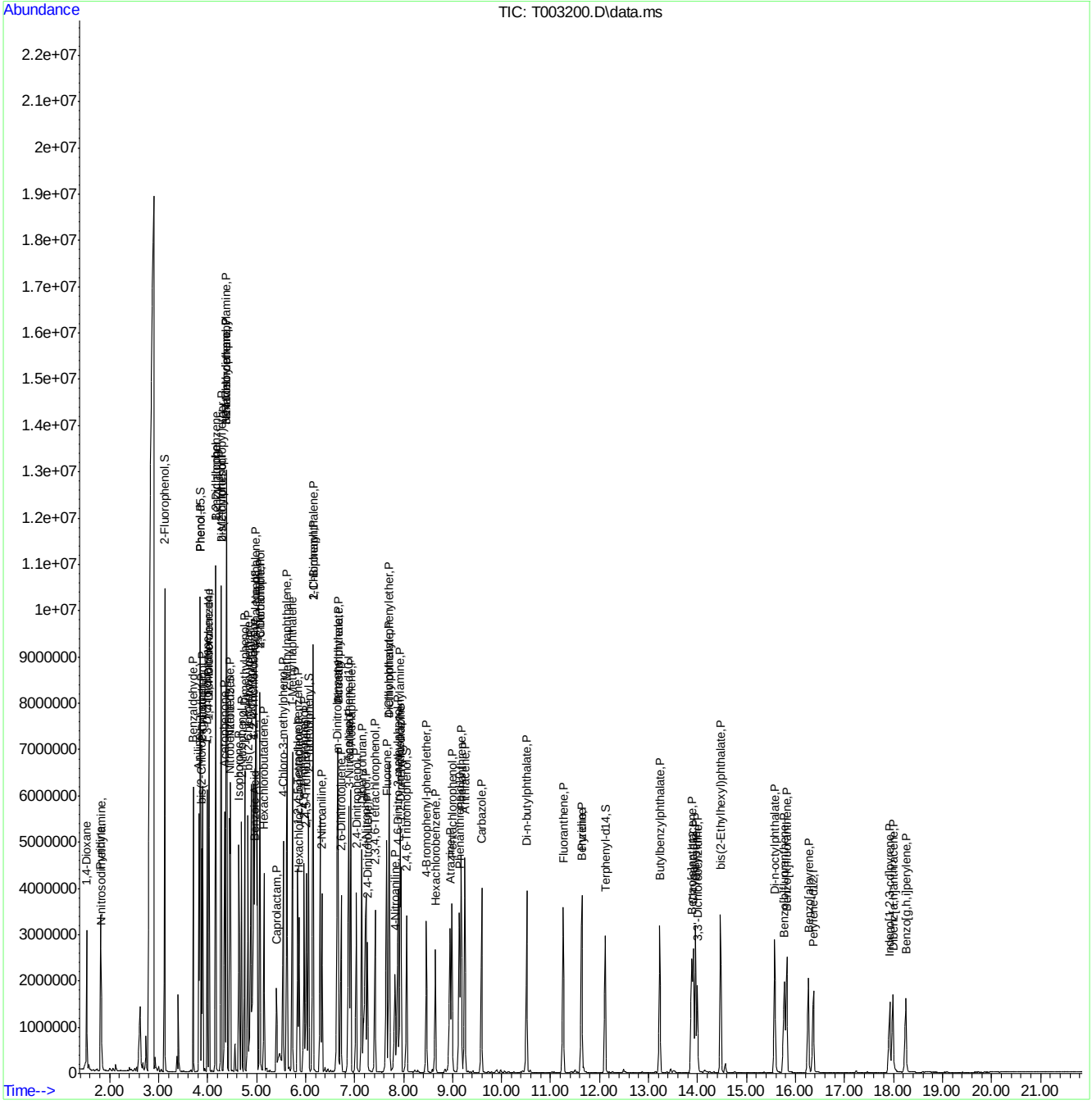
9.3.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 10:07:45 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration



Manual Integration Approval Summary

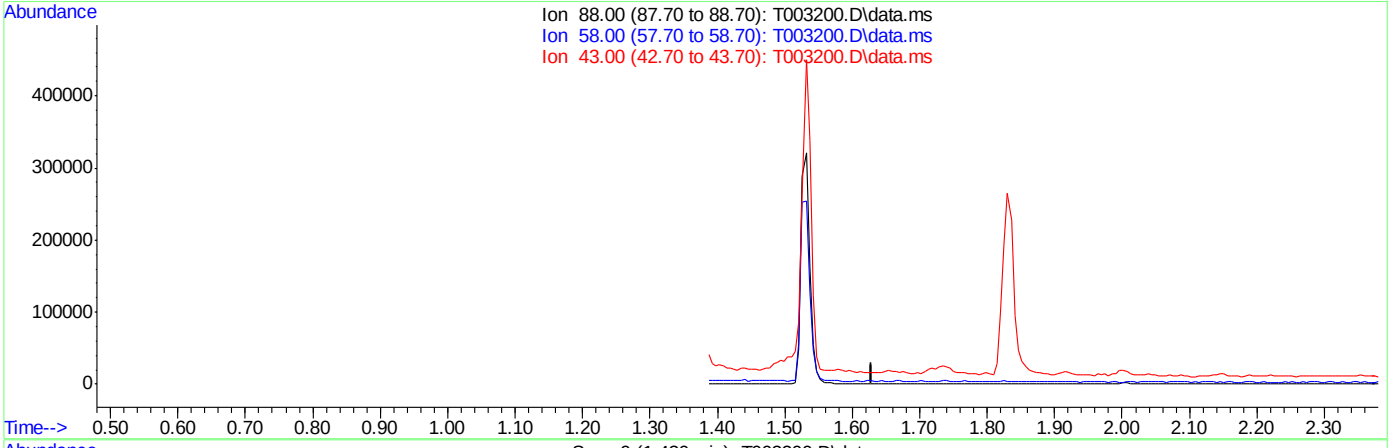
Sample Number:	OP42808-BS	**Method:**	SW846 8270D
Lab FileID:	T003200.D	**Analyst approved:**	08/01/12 10:04 Fouad Sekkar
Injection Time:	07/31/12 18:12	**Supervisor approved:**	08/01/12 11:33 Mike Eger

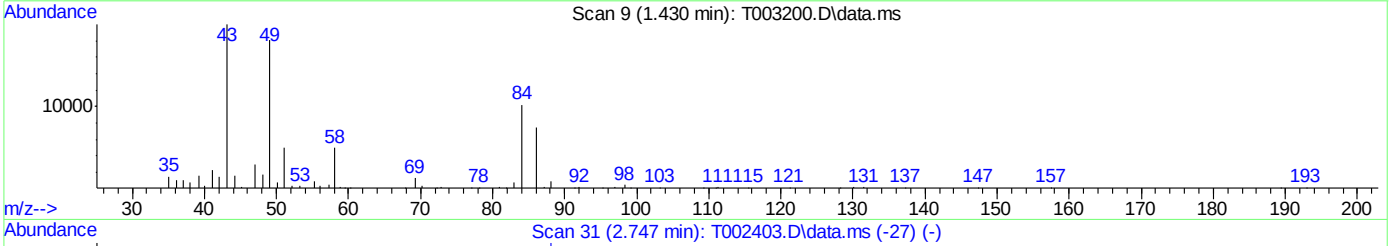
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.53	Missed peak
Caprolactam	105-60-2		5.41	Split peak

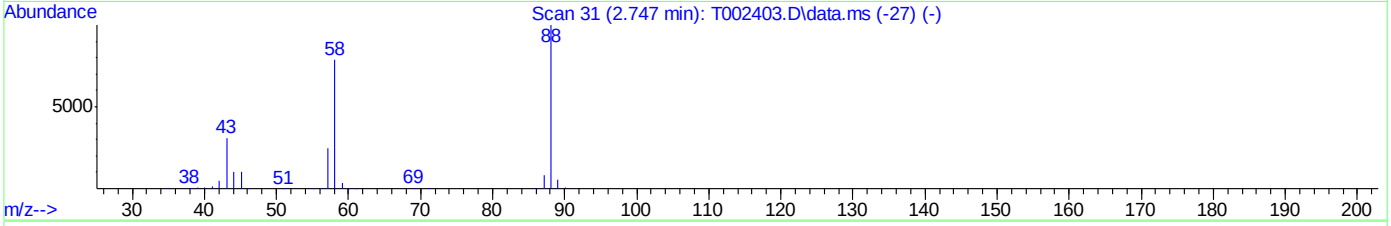
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 07:08:07 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration







TIC: T003200.D\data.ms

(2) 1,4-Dioxane

1.430min (-1.430) 0.00ppm

response 0

Ion	Exp%	Act%
88.00	100	0.00
58.00	81.70	0.00#
43.00	33.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On    : 31 Jul 2012   6:12 pm
Operator  : fouads
Sample    : op42808-bs
Misc      : op42808,st170,30.0,,,1,1,soil
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Aug 01 07:08:07 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration
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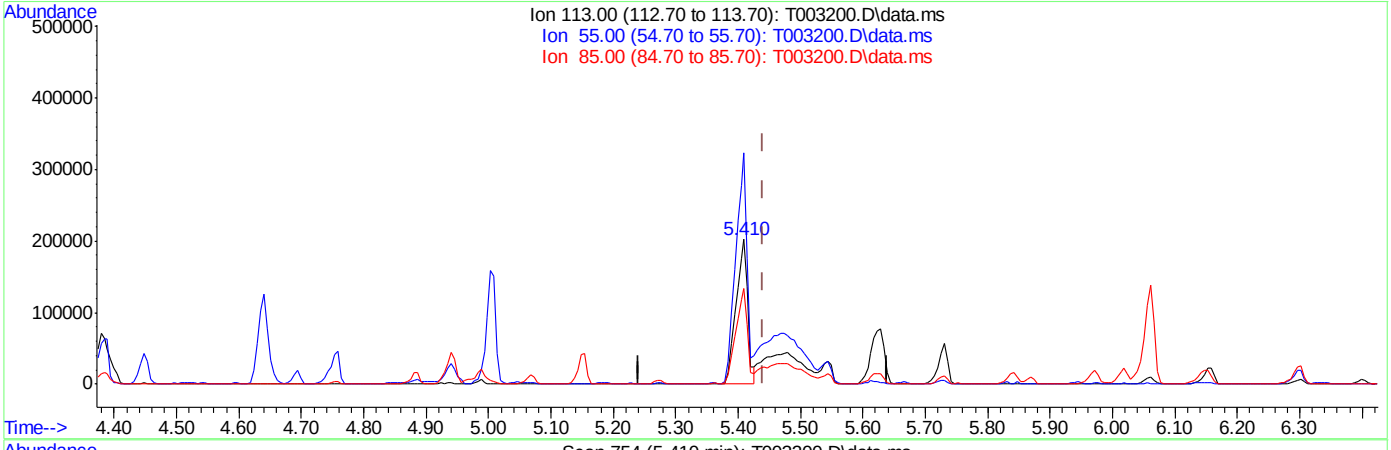
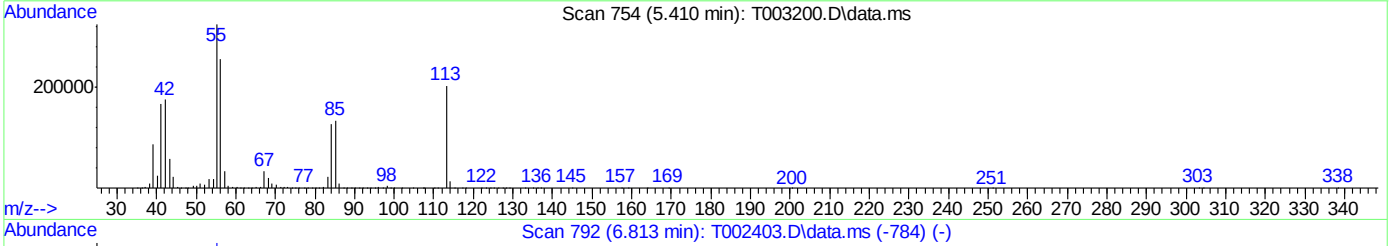
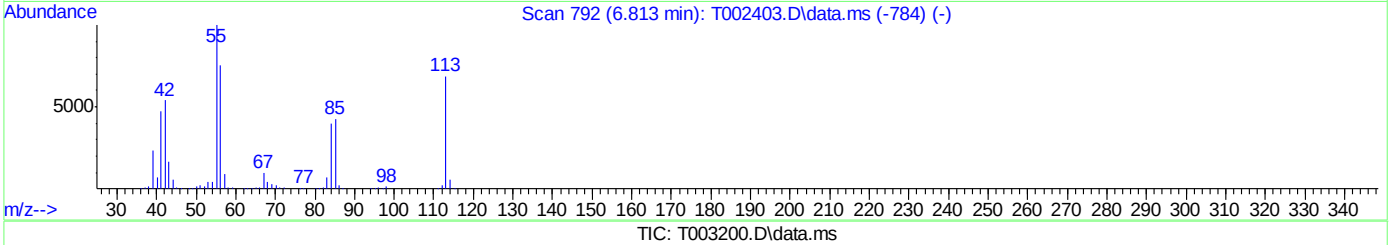






TIC: T003200.D\data.ms

(36) Caprolactam (P)

5.410min (-0.031) 23.43ppm

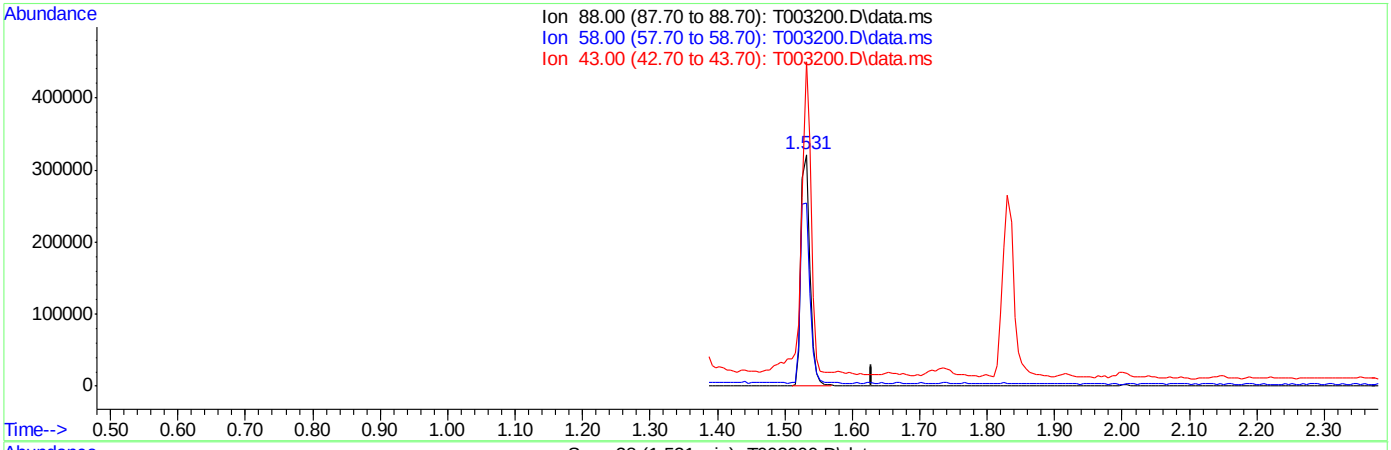
response 278407

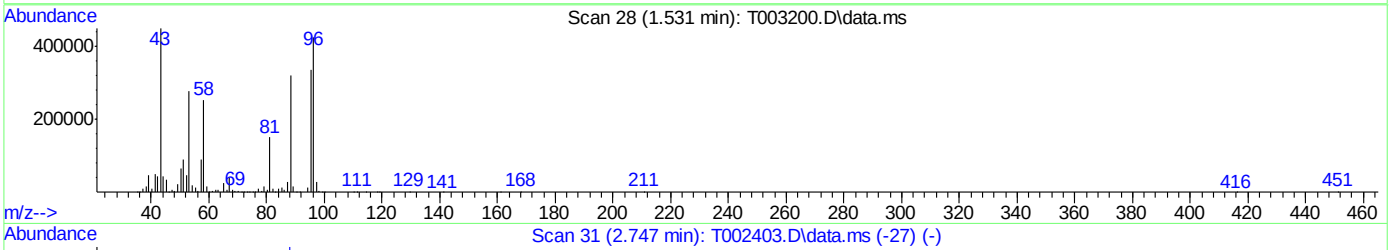
Ion	Exp%	Act%
113.00	100	100
55.00	160.30	159.46
85.00	65.70	65.98
0.00	0.00	0.00

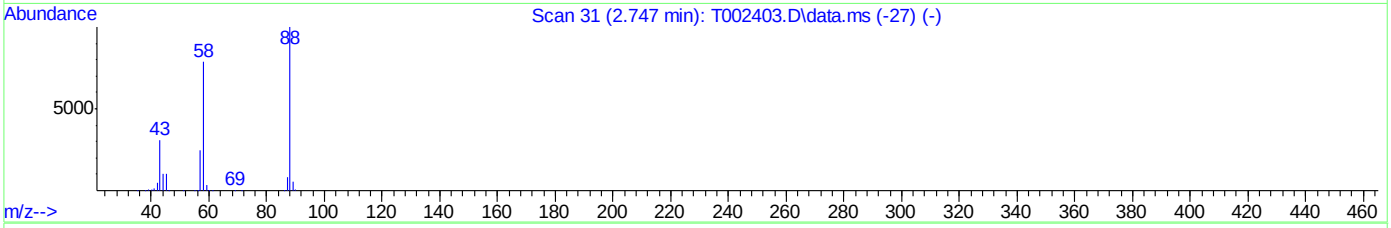
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On : 31 Jul 2012 6:12 pm
Operator : fouads
Sample : op42808-bs
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 01 10:06:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration







TIC: T003200.D\data.ms

(2) 1,4-Dioxane

1.531min (+0.101) 21.25ppm m

response 290151

Ion	Exp%	Act%
88.00	100	100
58.00	81.70	79.16
43.00	33.60	140.04#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003200.D
Acq On    : 31 Jul 2012   6:12 pm
Operator  : fouads
Sample    : op42808-bs
Misc      : op42808,st170,30.0,,,1,1,soil
ALS Vial  : 12   Sample Multiplier: 1

Quant Time: Aug 01 10:06:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration
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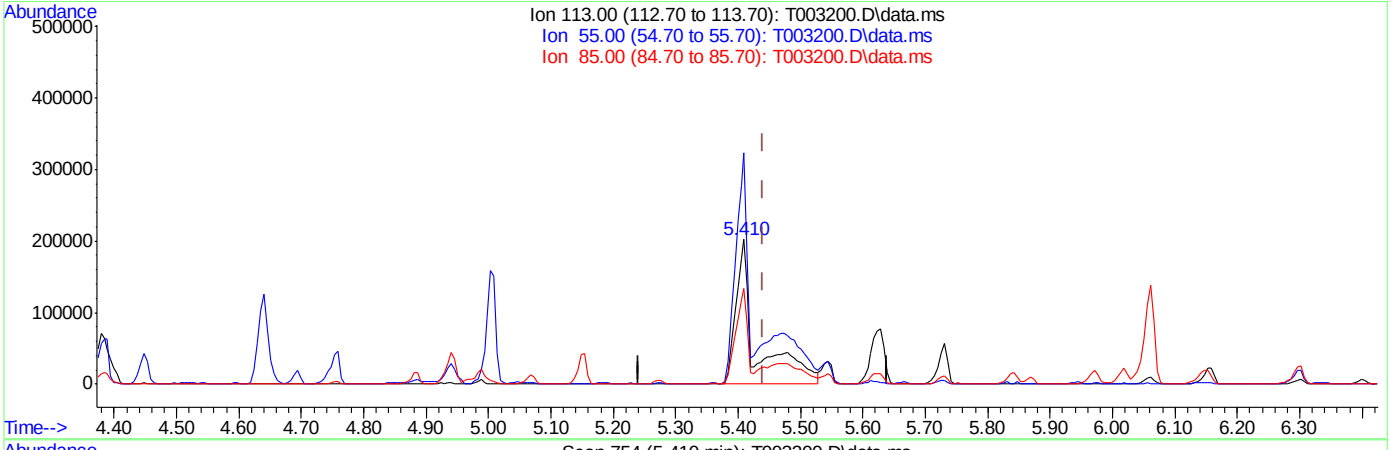
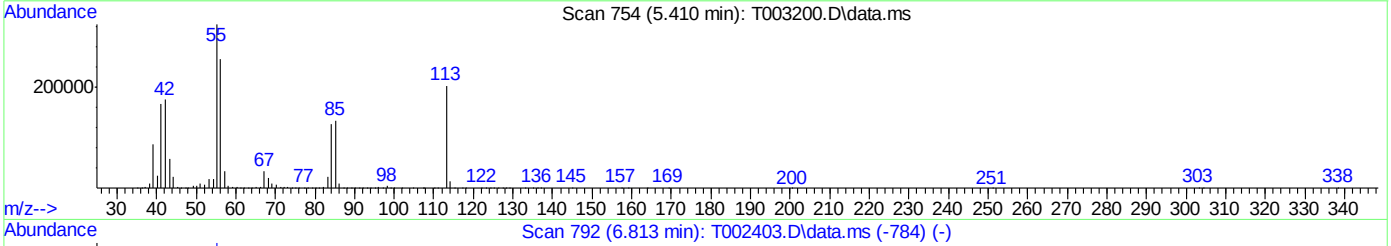
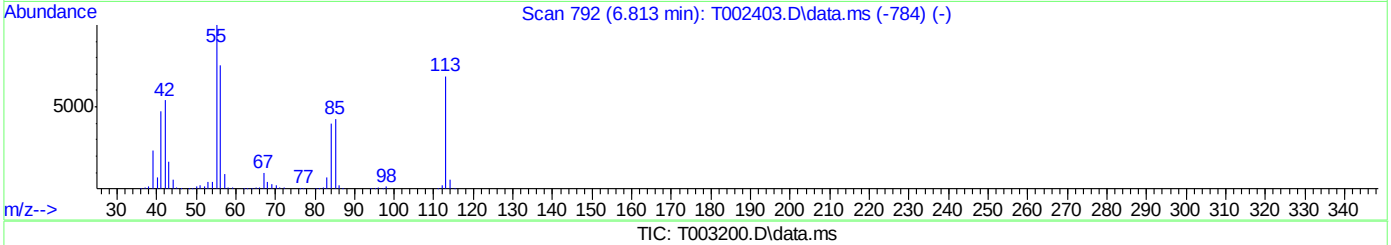






TIC: T003200.D\data.ms

(36) Caprolactam (P)

5.410min (-0.031) 40.10ppm m

response 476600

Ion	Exp%	Act%
113.00	100	100
55.00	160.30	160.08
85.00	65.70	65.96
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:15:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.026	152	761199	40.00 ppm	0.00
22) Naphthalene-d8	4.972	136	3413833	40.00 ppm	0.00
41) Acenaphthene-d10	6.879	164	1630411	40.00 ppm	0.00
66) Phenanthrene-d10	9.144	188	2598134	40.00 ppm	0.00
81) Chrysene-d12	13.925	240	1420056	40.00 ppm	0.00
90) Perylene-d12	16.378	264	950105	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.129	112	2240121	70.25 ppm	0.04
Spiked Amount 100.000	Range 40 - 102		Recovery = 70.25%		
9) Phenol-d5	3.855	99	3086127	72.55 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 72.55%		
23) Nitrobenzene-d5	4.454	82	1461604	34.56 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.12%		
45) 2-Fluorobiphenyl	6.067	172	2032809	37.26 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 74.52%		
70) 2,4,6-Tribromophenol	8.070	330	445051	79.88 ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 79.88%		
84) Terphenyl-d14	12.125	244	1506272	46.31 ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.62%		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.542	88	293310m	20.06 ppm	
3) N-nitrosodimethylamine	1.847	42	664684	32.53 ppm	98
4) Pyridine	1.831	79	1003110m	25.10 ppm	
5) Benzaldehyde	3.706	106	768962	31.99 ppm	96
6) Aniline	3.823	93	1559476	27.74 ppm	73
8) bis(2-Chloroethyl)ether	3.882	93	1277976	35.55 ppm	97
10) Phenol	3.861	94	1597237	37.10 ppm	94
11) 2-Chlorophenol	3.903	128	1174467	35.97 ppm	97
12) 1,3-Dichlorobenzene	3.994	146	954001	29.06 ppm	99
13) 1,4-Dichlorobenzene	4.037	146	972098	29.92 ppm	98
14) 1,2-Dichlorobenzene	4.165	146	892219	30.17 ppm	97
15) Benzyl alcohol	4.165	108	867522	38.33 ppm	95
16) bis(2-chloroisopropyl)...	4.277	45	1799697	30.42 ppm	88
17) 2-Methylphenol	4.277	108	1098320	36.29 ppm	94
18) Acetophenone	4.347	105	1700399	33.61 ppm	99
19) Hexachloroethane	4.384	117	306306	22.16 ppm	97
20) N-Nitroso-di-n-propyla...	4.384	70	833431	34.33 ppm	97
21) 3&4-Methylphenol	4.390	108	2207574	74.03 ppm	96
24) Nitrobenzene	4.464	77	1397026	34.80 ppm	95
25) Isophorone	4.641	82	2328152	30.51 ppm	99
26) 2-Nitrophenol	4.694	139	649472	35.77 ppm	90
27) 2,4-Dimethylphenol	4.758	107	1235045	34.00 ppm	97
28) bis(2-Chloroethoxy)met...	4.822	93	1585184	37.22 ppm	99
29) Benzoic Acid	4.918	105	1187308	36.64 ppm	90
30) 2,4-Dichlorophenol	4.886	162	906778	37.82 ppm	99
31) 1,2,4-Trichlorobenzene	4.945	180	880424	33.72 ppm	99
32) Naphthalene	4.988	128	3159604	34.13 ppm	99
33) 4-Chloroaniline	5.068	127	965418	25.77 ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:15:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	838466	36.85	ppm		99
35) Hexachlorobutadiene	5.154	225	410066	32.63	ppm		99
36) Caprolactam	5.405	113	470404m	35.70	ppm		
37) 4-Chloro-3-methylphenol	5.549	107	1236300	39.68	ppm		93
38) 2-Methylnaphthalene	5.624	142	2178287	36.22	ppm		100
39) 1-Methylnaphthalene	5.730	142	2057133	37.37	ppm		98
40) 1,2,4,5-Tetrachloroben...	5.843	216	761399	34.65	ppm		98
42) Hexachlorocyclopentadiene	5.869	237	426196	30.87	ppm		100
43) 2,4,6-Trichlorophenol	5.976	196	664335	40.85	ppm		99
44) 2,4,5-Trichlorophenol	6.024	196	651263	39.05	ppm		99
46) 1,1'-Biphenyl	6.158	154	2297641	31.23	ppm		99
47) 2-Chloronaphthalene	6.152	162	1719079	37.12	ppm		99
48) 2-Nitroaniline	6.345	65	878441	40.28	ppm		99
50) Acenaphthylene	6.671	152	2986763	37.83	ppm		99
51) Dimethylphthalate	6.660	163	2074967	40.43	ppm		100
52) m-Dinitrobenzene	6.644	168	385748	38.65	ppm		99
53) 2,6-Dinitrotoluene	6.729	165	519099	39.87	ppm		86
55) Acenaphthene	6.927	153	1910497	38.58	ppm		100
56) 3-Nitroaniline	6.895	138	547161	33.65	ppm		93
57) 2,4-Dinitrophenol	7.034	184	322845	32.59	ppm		98
58) Dibenzofuran	7.152	168	2615183	39.88	ppm		88
59) 2,4-Dinitrotoluene	7.269	165	678544	39.68	ppm		99
60) 4-Nitrophenol	7.237	109	785045	76.80	ppm		95
61) 2,3,4,6-Tetrachlorophenol	7.424	232	469924	39.00	ppm		99
62) Fluorene	7.654	166	2154271	39.77	ppm		100
63) 4-Chlorophenyl-phenyle...	7.712	204	897970	39.83	ppm		99
64) Diethylphthalate	7.707	149	2170644	41.26	ppm		100
65) 4-Nitroaniline	7.825	138	593301	37.77	ppm		99
67) 4,6-Dinitro-2-methylph...	7.889	198	521406	55.46	ppm	#	100
68) n-Nitrosodiphenylamine	7.931	169	1495072	42.18	ppm		99
69) 1,2-Diphenylhydrazine	7.953	77	3008919	40.77	ppm		98
71) 4-Bromophenyl-phenylether	8.471	248	498389	41.39	ppm		98
72) Hexachlorobenzene	8.658	284	454864	40.19	ppm		97
74) Atrazine	8.957	200	450717	31.56	ppm		94
75) Pentachlorophenol	9.000	266	594995	72.72	ppm		99
76) Phenanthrene	9.182	178	2922854	40.61	ppm		99
77) Anthracene	9.256	178	2953652	39.89	ppm		99
78) Carbazole	9.604	167	2562116	39.52	ppm		99
79) Di-n-butylphthalate	10.522	149	3324661	40.79	ppm		99
80) Fluoranthene	11.270	202	2359971	37.09	ppm		99
83) Pyrene	11.644	202	2417650	48.45	ppm		98
85) Butylbenzylphthalate	13.242	149	1201434	47.34	ppm		96
86) 3,3'-Dichlorobenzidine	14.011	252	410116	28.59	ppm		98
87) Benzo[a]anthracene	13.893	228	1643737	41.72	ppm		99
88) Chrysene	13.974	228	1492317	41.53	ppm		99
89) bis(2-Ethylhexyl)phtha...	14.481	149	1553343	47.40	ppm		99
91) Di-n-octylphthalate	15.587	149	2409051	53.35	ppm		99
92) Benzo[b]fluoranthene	15.785	252	1340854	44.49	ppm		98
93) Benzo[k]fluoranthene	15.833	252	1236214	43.85	ppm		97
94) Benzo[a]pyrene	16.276	252	1073780	38.06	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:15:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Indeno[1,2,3-cd]pyrene	17.937	276	864200	39.78 ppm	98
96) Dibenz[a,h]anthracene	18.002	278	865468	40.05 ppm	98
97) Benzo[g,h,i]perylene	18.263	276	908669	39.14 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

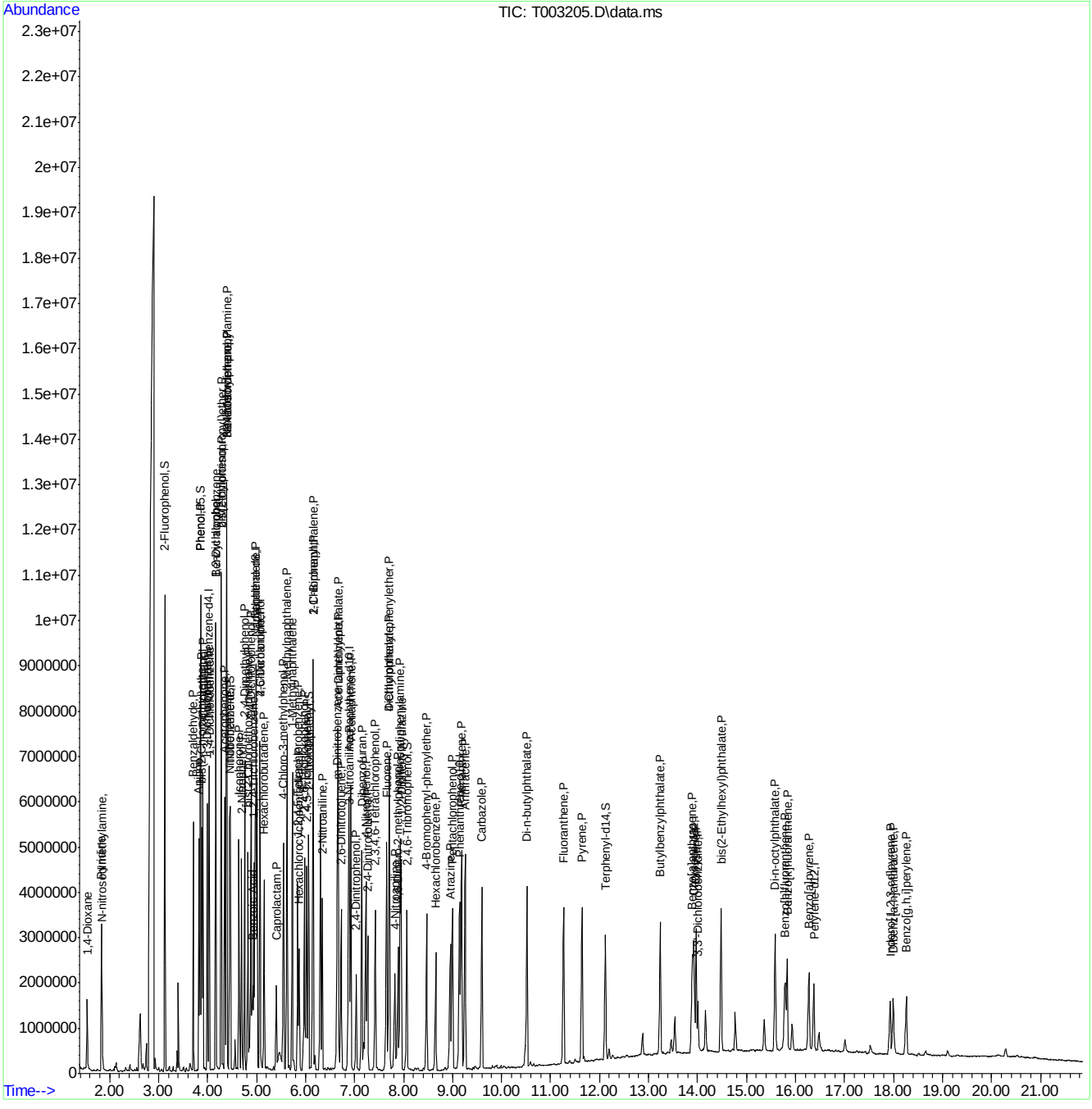
9.4.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:15:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

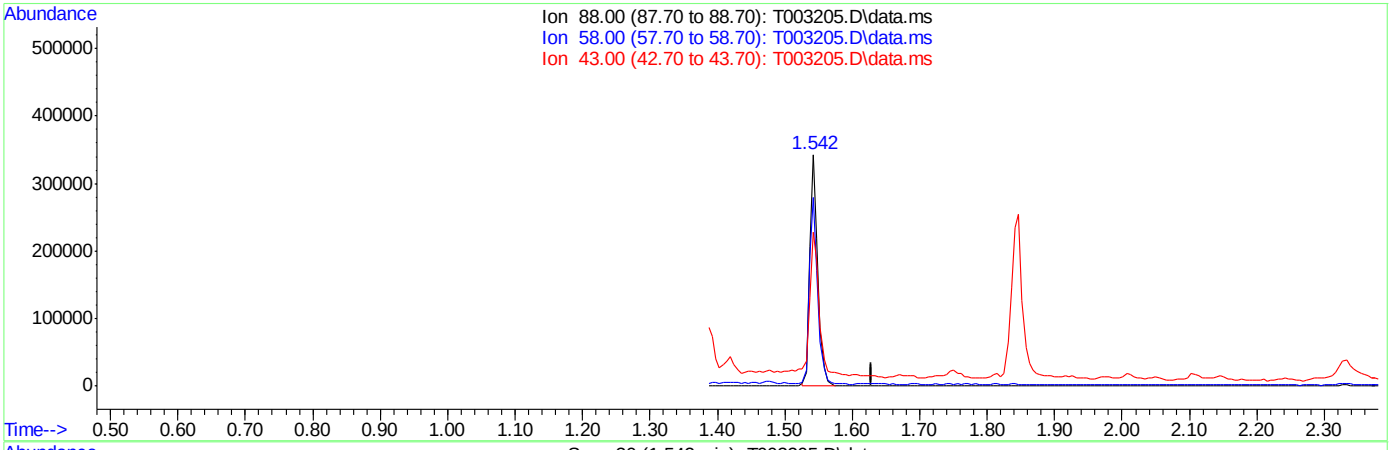
Sample Number:	OP42808-MS	**Method:**	SW846 8270D
Lab FileID:	T003205.D	**Analyst approved:**	08/01/12 10:13 Fouad Sekkar
Injection Time:	07/31/12 20:52	**Supervisor approved:**	08/01/12 11:33 Mike Eger

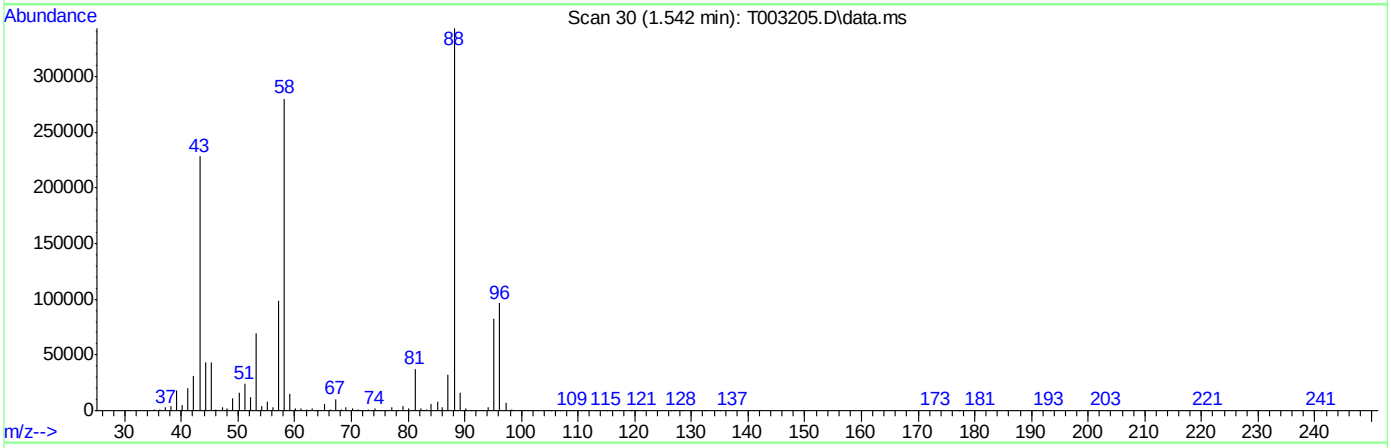
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.54	Missed peak
Pyridine	110-86-1		1.83	Missed peak
Caprolactam	105-60-2		5.40	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 07:08:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration





TIC: T003205.D\data.ms

(2) 1,4-Dioxane

1.542min (+0.112) 19.97ppm m

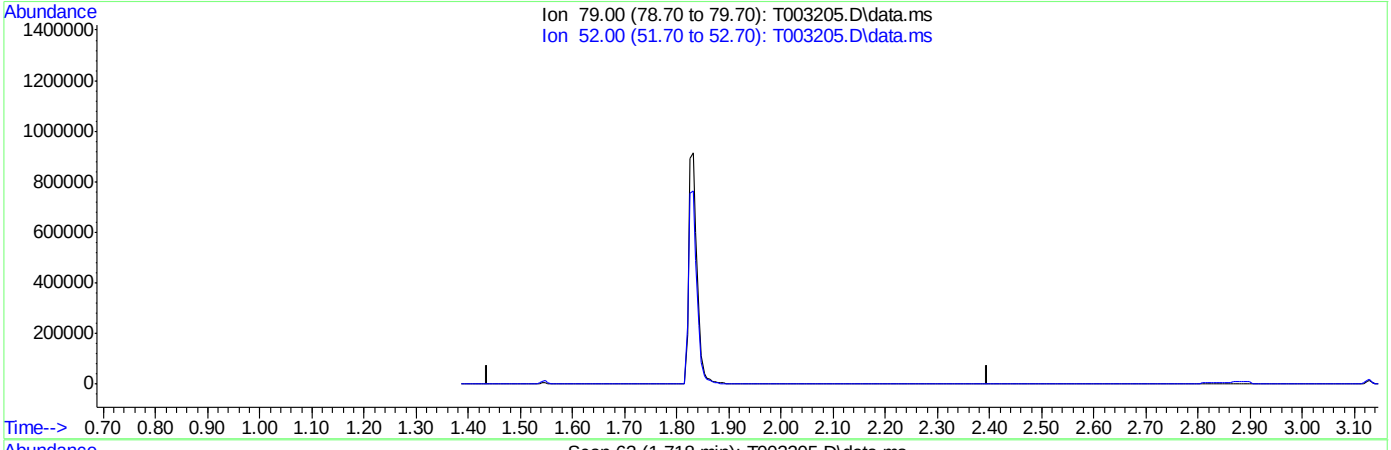
response 292006

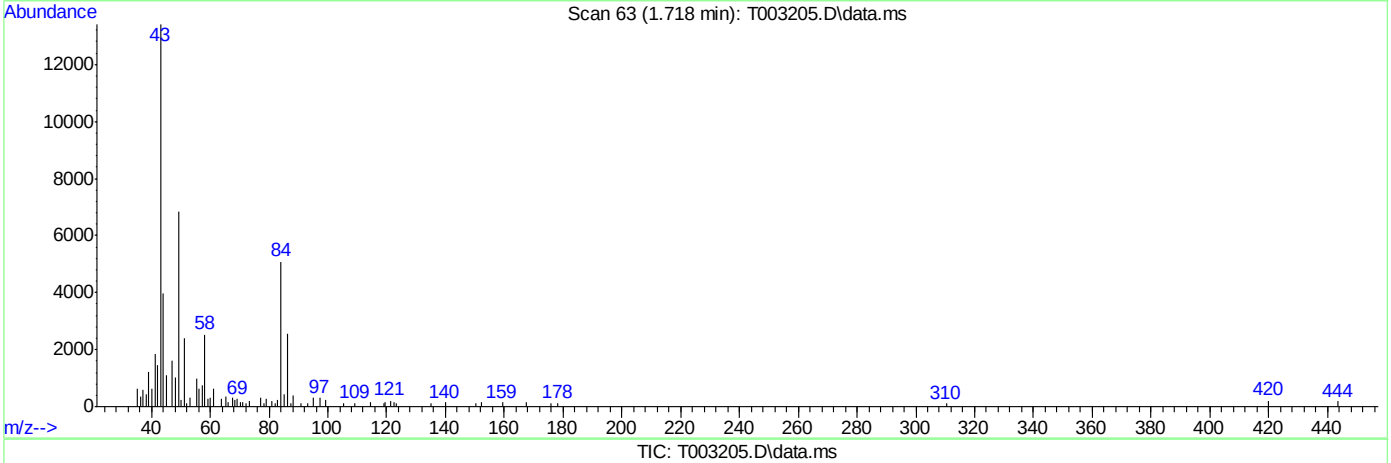
Ion	Exp%	Act%
88.00	100	100
58.00	81.70	81.57
43.00	33.60	66.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On    : 31 Jul 2012   8:52 pm
Operator  : fouads
Sample    : op42808-ms
Misc      : op42808,st170,29.9,,,1,1,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Aug 01 07:08:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration
```





TIC: T003205.D\data.ms

(4) Pyridine ( )

1.718min (-1.718) 0.00ppm

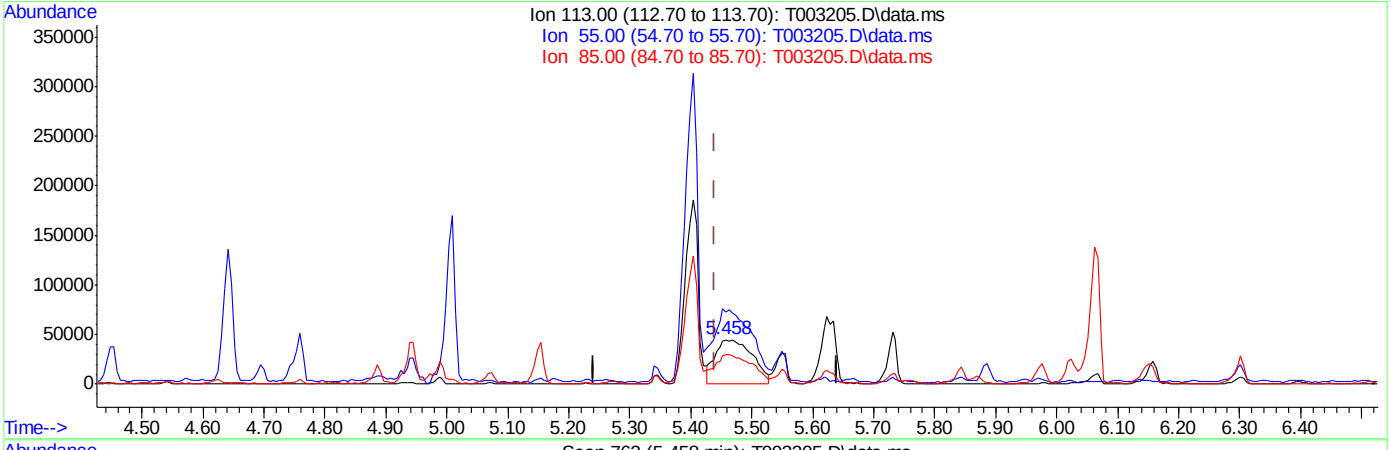
response 0

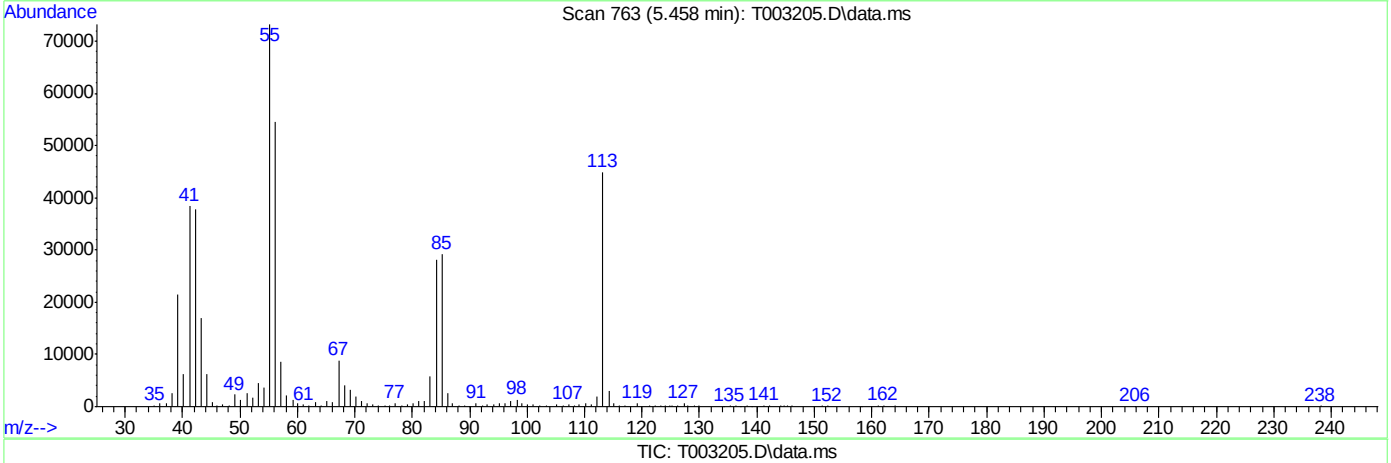
Ion	Exp%	Act%
79.00	100	0.00
52.00	82.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On    : 31 Jul 2012   8:52 pm
Operator  : fouads
Sample    : op42808-ms
Misc      : op42808,st170,29.9,,,1,1,soil
ALS Vial  : 17   Sample Multiplier: 1

Quant Time: Aug 01 07:08:12 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration
```





TIC: T003205.D\data.ms

(36) Caprolactam (P)

5.458min (+0.017) 14.25ppm

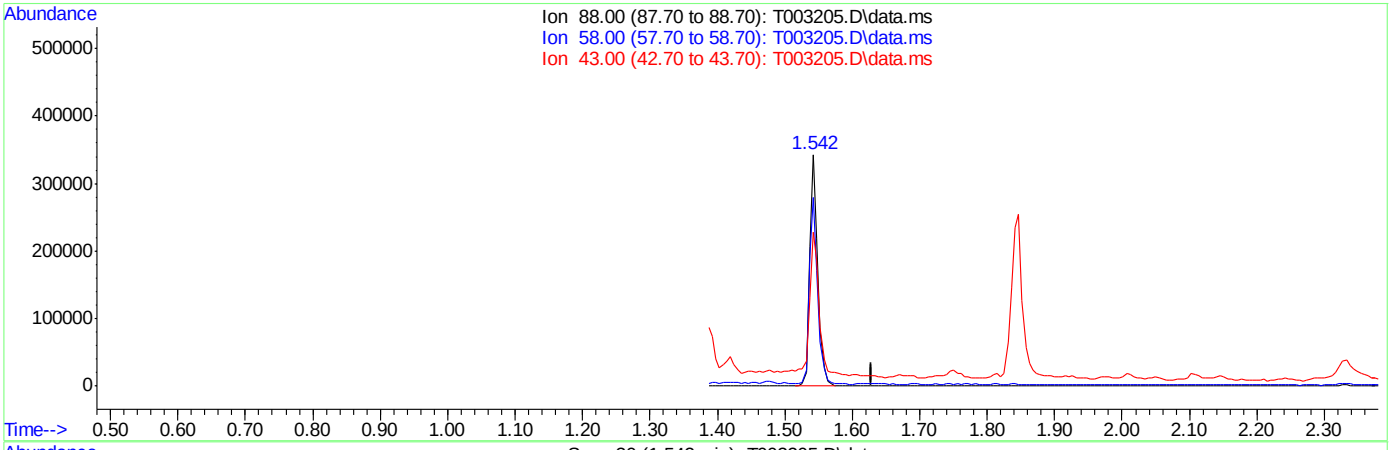
response 187760

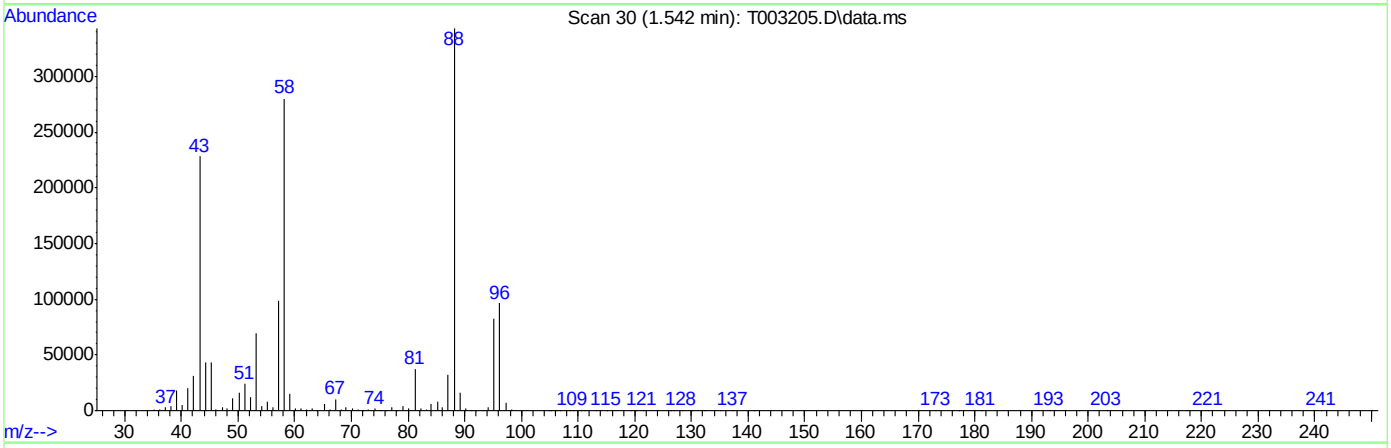
Ion	Exp%	Act%
113.00	100	100
55.00	160.30	152.44
85.00	65.70	63.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:11:18 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration





TIC: T003205.D\data.ms

(2) 1,4-Dioxane

1.542min (+0.112) 20.06ppm m

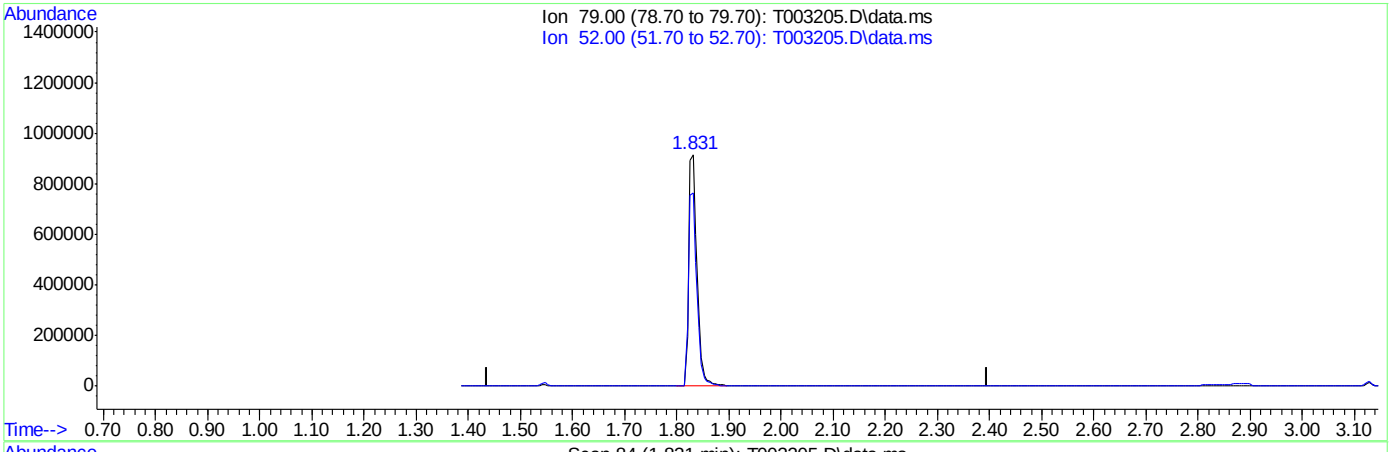
response 293310

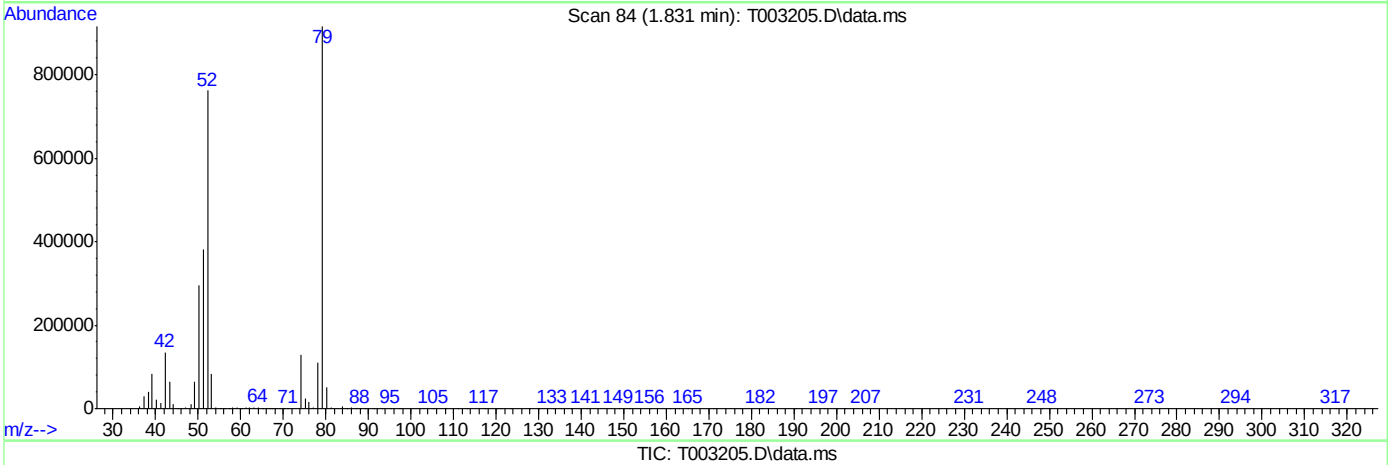
Ion	Exp%	Act%
88.00	100	100
58.00	81.70	81.57
43.00	33.60	66.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:11:18 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration





TIC: T003205.D\data.ms

(4) Pyridine ( )

1.831min (+0.112) 25.10ppm m

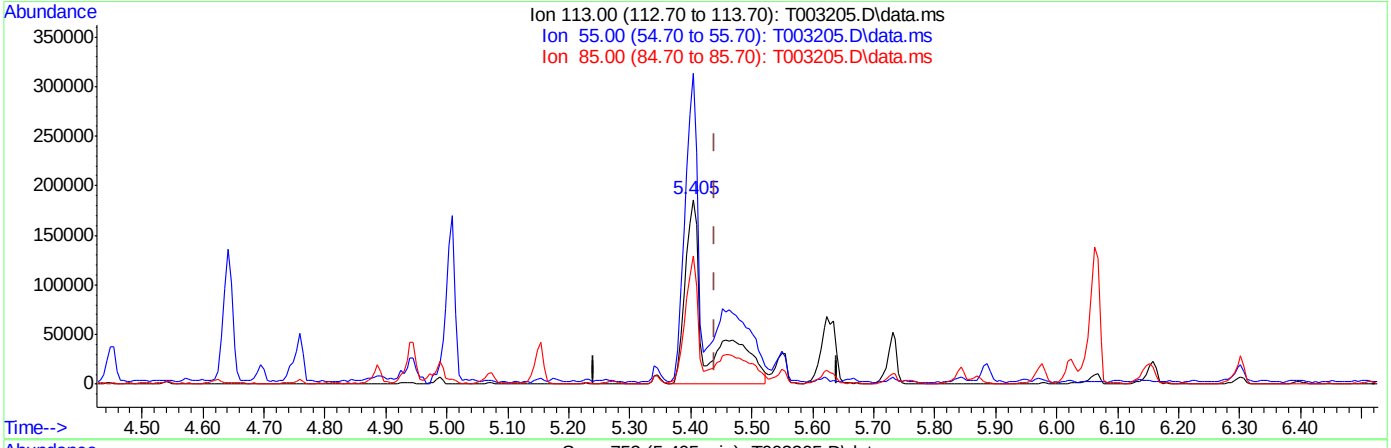
response 1003110

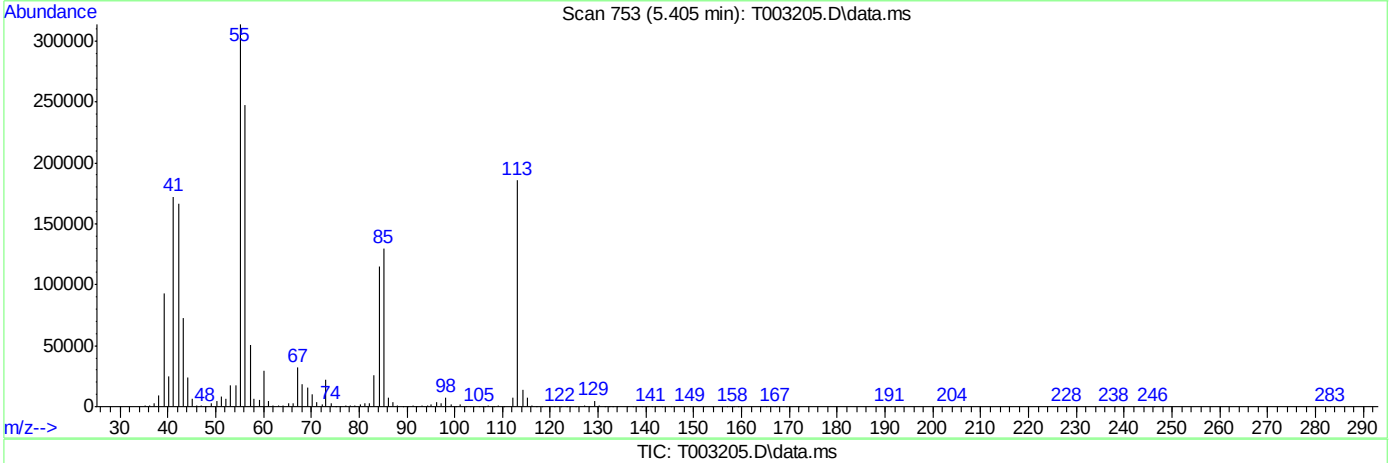
Ion	Exp%	Act%
79.00	100	100
52.00	82.20	83.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003205.D
Acq On : 31 Jul 2012 8:52 pm
Operator : fouads
Sample : op42808-ms
Misc : op42808,st170,29.9,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 01 10:11:18 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration





TIC: T003205.D\data.ms

(36) Caprolactam (P)

5.405min (-0.036) 35.70ppm m

response 470404

Ion	Exp%	Act%
113.00	100	100
55.00	160.30	168.59
85.00	65.70	69.72
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:15:36 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	733866	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	3203228	40.00	ppm	0.00
41) Acenaphthene-d10	6.879	164	1551601	40.00	ppm	0.00
66) Phenanthrene-d10	9.144	188	2435081	40.00	ppm	0.00
81) Chrysene-d12	13.926	240	1239199	40.00	ppm	0.00
90) Perylene-d12	16.378	264	836754	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.124	112	1969534	64.06	ppm	0.03
Spiked Amount 100.000	Range 40 - 102		Recovery = 64.06%			
9) Phenol-d5	3.850	99	2705419	65.97	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 65.97%			
23) Nitrobenzene-d5	4.448	82	1276619	32.17	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 64.34%			
45) 2-Fluorobiphenyl	6.062	172	1824391	35.14	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 70.28%			
70) 2,4,6-Tribromophenol	8.070	330	370869	71.02	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 71.02%			
84) Terphenyl-d14	12.125	244	1217474	42.90	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 85.80%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.537	88	262050m	18.59	ppm	
3) N-nitrosodimethylamine	1.841	42	552556	28.05	ppm	98
4) Pyridine	1.825	79	907451m	23.55	ppm	
5) Benzaldehyde	3.706	106	646687	27.00	ppm	97
6) Aniline	3.818	93	1239143	22.86	ppm	80
8) bis(2-Chloroethyl)ether	3.877	93	1084885	31.30	ppm	98
10) Phenol	3.861	94	1439879	34.69	ppm	98
11) 2-Chlorophenol	3.903	128	1032996	32.82	ppm	95
12) 1,3-Dichlorobenzene	3.994	146	808752	25.55	ppm	98
13) 1,4-Dichlorobenzene	4.032	146	826461	26.39	ppm	98
14) 1,2-Dichlorobenzene	4.165	146	760549	26.67	ppm	97
15) Benzyl alcohol	4.165	108	770757	35.32	ppm	96
16) bis(2-chloroisopropyl)...	4.272	45	1578450	27.24	ppm	92
17) 2-Methylphenol	4.277	108	975424	33.43	ppm	98
18) Acetophenone	4.347	105	1473353	30.21	ppm	100
19) Hexachloroethane	4.384	117	272955	20.27	ppm	95
20) N-Nitroso-di-n-propyla...	4.379	70	747866	31.58	ppm	94
21) 3&4-Methylphenol	4.390	108	1954825	68.00	ppm	94
24) Nitrobenzene	4.464	77	1220634	32.41	ppm	97
25) Isophorone	4.641	82	2062923	28.81	ppm	99
26) 2-Nitrophenol	4.694	139	552691	32.44	ppm	83
27) 2,4-Dimethylphenol	4.758	107	1076865	31.59	ppm	96
28) bis(2-Chloroethoxy)met...	4.822	93	1400364	35.04	ppm	100
29) Benzoic Acid	4.902	105	747033	24.57	ppm	98
30) 2,4-Dichlorophenol	4.886	162	797632	35.45	ppm	98
31) 1,2,4-Trichlorobenzene	4.945	180	768789	31.38	ppm	100
32) Naphthalene	4.988	128	2795087	32.18	ppm	100
33) 4-Chloroaniline	5.068	127	778065	22.13	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:15:36 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	745237	34.91 ppm	99
35) Hexachlorobutadiene	5.154	225	360851	30.60 ppm	99
36) Caprolactam	5.399	113	422642m	34.18 ppm	
37) 4-Chloro-3-methylphenol	5.549	107	1063389	36.37 ppm	96
38) 2-Methylnaphthalene	5.624	142	1910237	33.85 ppm	99
39) 1-Methylnaphthalene	5.731	142	1817944	35.20 ppm	99
40) 1,2,4,5-Tetrachloroben...	5.843	216	683077	33.13 ppm	97
42) Hexachlorocyclopentadiene	5.869	237	341360	25.98 ppm	100
43) 2,4,6-Trichlorophenol	5.976	196	554032	35.80 ppm	98
44) 2,4,5-Trichlorophenol	6.024	196	559010	35.22 ppm	97
46) 1,1'-Biphenyl	6.158	154	2066499	29.23 ppm	99
47) 2-Chloronaphthalene	6.153	162	1539800	34.93 ppm	98
48) 2-Nitroaniline	6.345	65	760174	36.63 ppm	97
50) Acenaphthylene	6.671	152	2661735	35.42 ppm	99
51) Dimethylphthalate	6.655	163	1823473	37.33 ppm	99
52) m-Dinitrobenzene	6.644	168	323728	34.08 ppm	85
53) 2,6-Dinitrotoluene	6.724	165	448644	36.20 ppm	87
55) Acenaphthene	6.927	153	1704828	36.18 ppm	99
56) 3-Nitroaniline	6.895	138	437509	28.27 ppm	100
57) 2,4-Dinitrophenol	7.029	184	184349	19.10 ppm	93
58) Dibenzofuran	7.146	168	2254268	36.12 ppm	94
59) 2,4-Dinitrotoluene	7.264	165	574649	35.31 ppm	95
60) 4-Nitrophenol	7.232	109	639576	65.75 ppm	94
61) 2,3,4,6-Tetrachlorophenol	7.424	232	391979	34.18 ppm	98
62) Fluorene	7.654	166	1863238	36.15 ppm	100
63) 4-Chlorophenyl-phenyle...	7.713	204	779665	36.34 ppm	97
64) Diethylphthalate	7.707	149	1890546	37.76 ppm	99
65) 4-Nitroaniline	7.819	138	483910	32.37 ppm	96
67) 4,6-Dinitro-2-methylph...	7.878	198	351275	39.86 ppm	100
68) n-Nitrosodiphenylamine	7.926	169	1268800	38.20 ppm	99
69) 1,2-Diphenylhydrazine	7.948	77	2595834	37.52 ppm	98
71) 4-Bromophenyl-phenylether	8.471	248	427770	37.91 ppm	96
72) Hexachlorobenzene	8.653	284	382938	36.10 ppm	96
74) Atrazine	8.952	200	417335	31.18 ppm	97
75) Pentachlorophenol	8.995	266	470378	61.34 ppm	96
76) Phenanthrene	9.182	178	2777880	41.18 ppm	99
77) Anthracene	9.256	178	2508498	36.15 ppm	100
78) Carbazole	9.604	167	2108934	34.71 ppm	100
79) Di-n-butylphthalate	10.523	149	2783995	36.45 ppm	99
80) Fluoranthene	11.270	202	2270915	38.08 ppm	99
83) Pyrene	11.644	202	2200826	50.54 ppm	99
85) Butylbenzylphthalate	13.242	149	962944	43.48 ppm	94
86) 3,3'-Dichlorobenzidine	14.006	252	315390	25.20 ppm	98
87) Benzo[a]anthracene	13.893	228	1382586	40.22 ppm	97
88) Chrysene	13.968	228	1277033	40.72 ppm	100
89) bis(2-Ethylhexyl)phtha...	14.481	149	1245783	43.56 ppm	99
91) Di-n-octylphthalate	15.582	149	1891725	47.57 ppm	100
92) Benzo[b]fluoranthene	15.785	252	1151476	43.38 ppm	98
93) Benzo[k]fluoranthene	15.827	252	981346	39.53 ppm	98
94) Benzo[a]pyrene	16.276	252	918519	36.97 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:15:36 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Indeno[1,2,3-cd]pyrene	17.938	276	731818	38.25 ppm	97
96) Dibenz[a,h]anthracene	17.996	278	711730	37.39 ppm	96
97) Benzo[g,h,i]perylene	18.263	276	770160	37.67 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

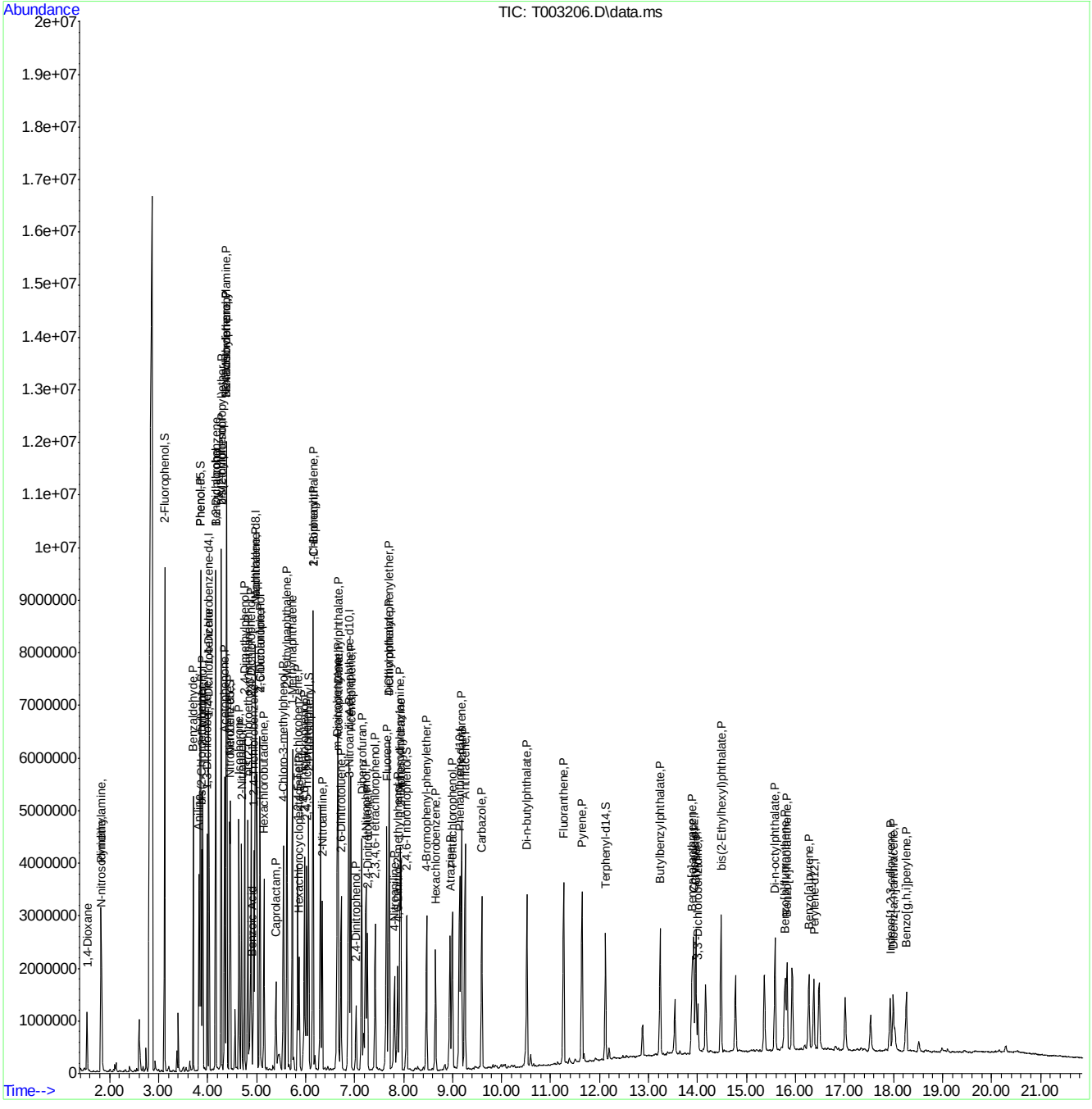
9.4.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:15:36 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration



Manual Integration Approval Summary

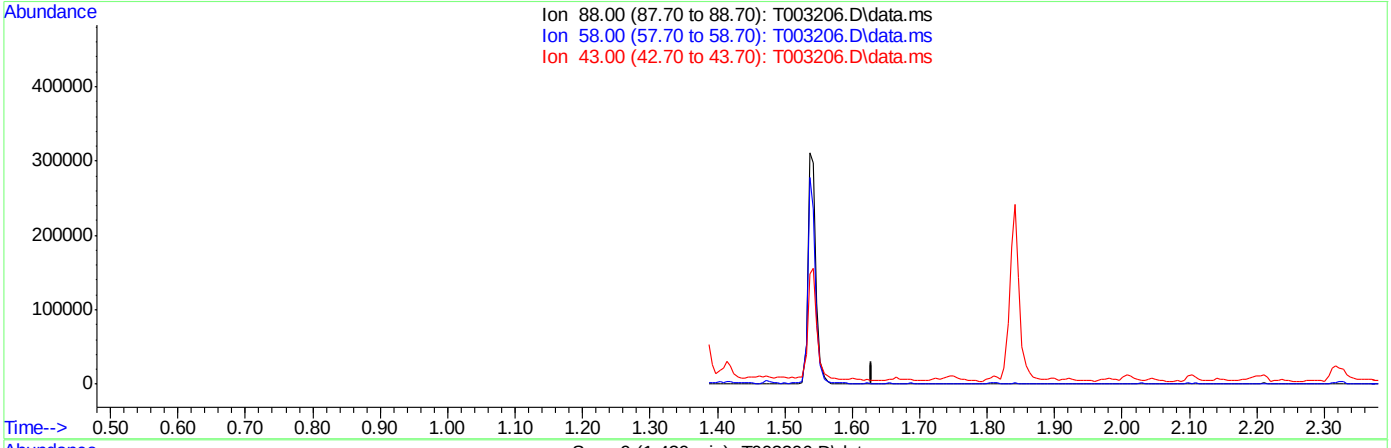
Sample Number:	OP42808-MSD	**Method:**	SW846 8270D
Lab FileID:	T003206.D	**Analyst approved:**	08/01/12 10:13 Fouad Sekkar
Injection Time:	07/31/12 21:23	**Supervisor approved:**	08/01/12 11:33 Mike Eger

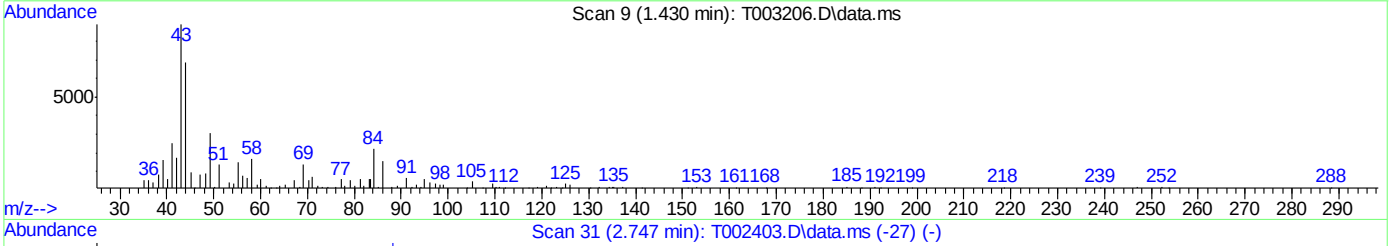
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.54	Missed peak
Pyridine	110-86-1		1.83	Missed peak
Caprolactam	105-60-2		5.40	Split peak

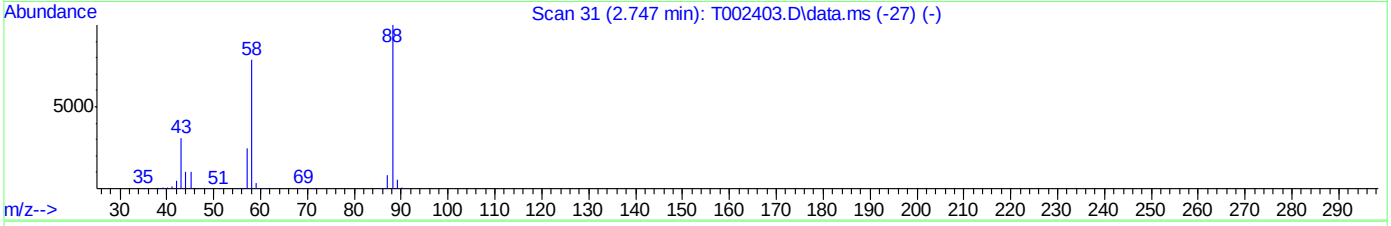
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On    : 31 Jul 2012   9:23 pm
Operator  : fouads
Sample    : op42808-msd
Misc      : op42808,st170,30.0,,,1,1,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Aug 01 07:08:13 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration
```







TIC: T003206.D\data.ms

(2) 1,4-Dioxane

1.430min (-1.430) 0.00ppm

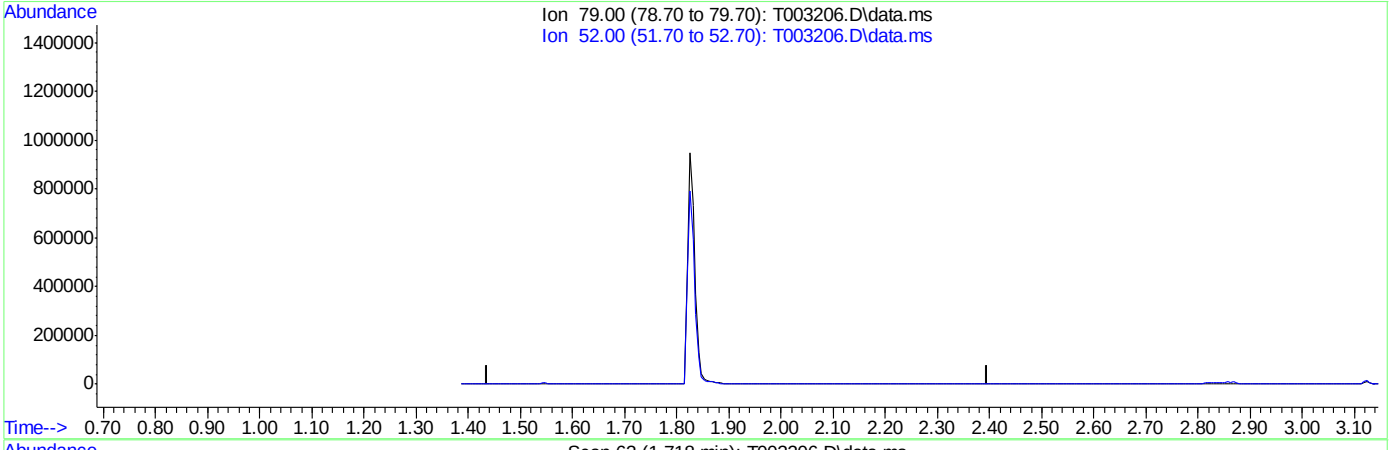
response 0

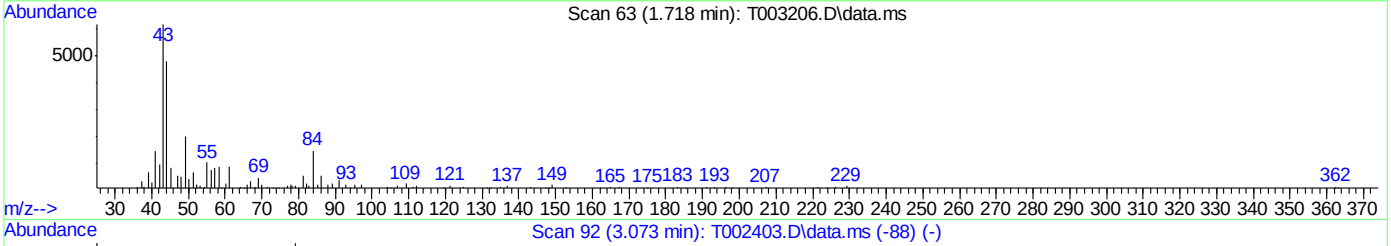
Ion	Exp%	Act%
88.00	100	0.00
58.00	81.70	0.00#
43.00	33.60	0.00#
0.00	0.00	0.00

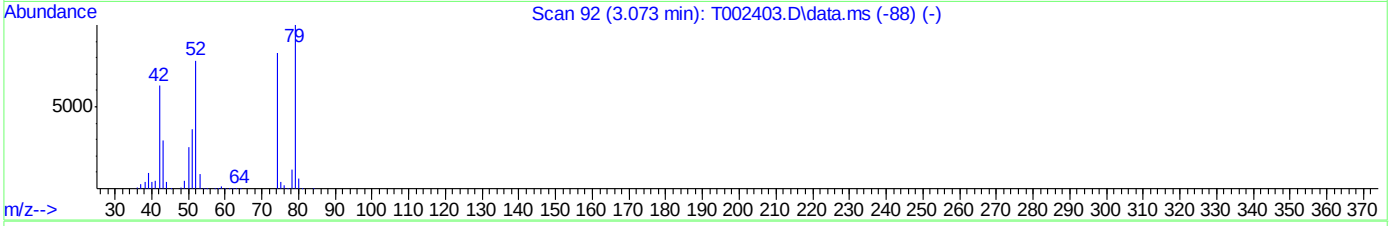
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 07:08:13 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration







TIC: T003206.D\data.ms

(4) Pyridine ( )

1.718min (-1.718) 0.00ppm

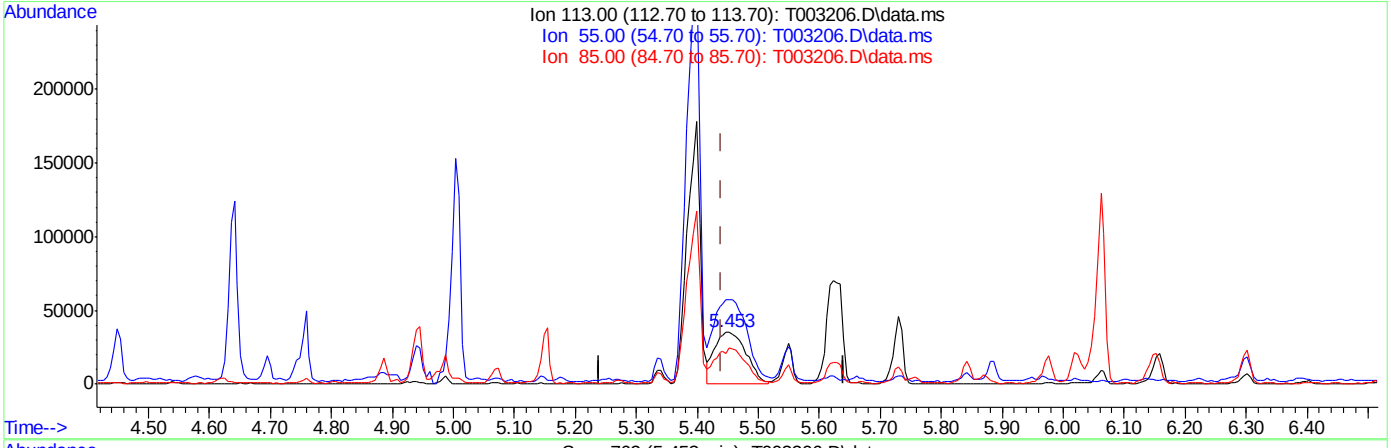
response 0

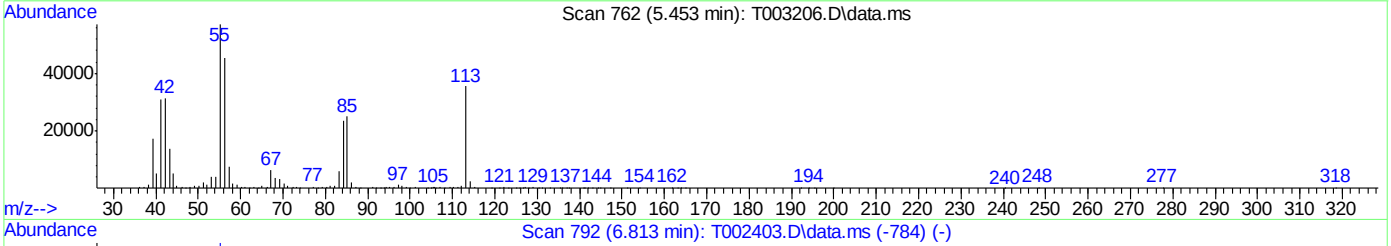
Ion	Exp%	Act%
79.00	100	0.00
52.00	82.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

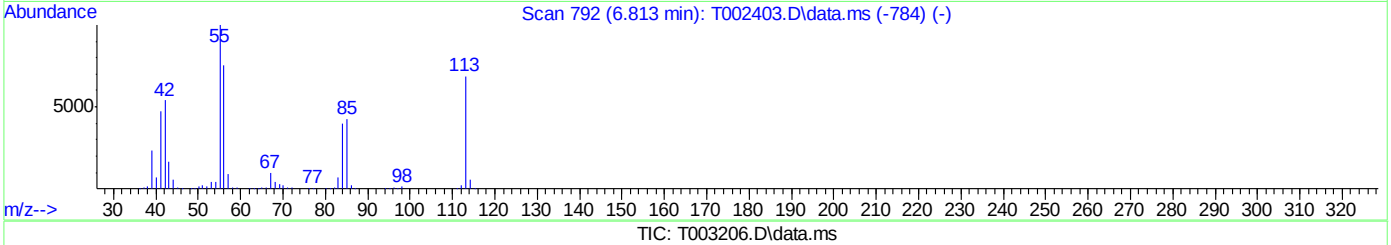
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 07:08:13 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:04:51 2012
Response via : Initial Calibration







TIC: T003206.D\data.ms

(36) Caprolactam (P)

5.453min (+0.012) 10.15ppm

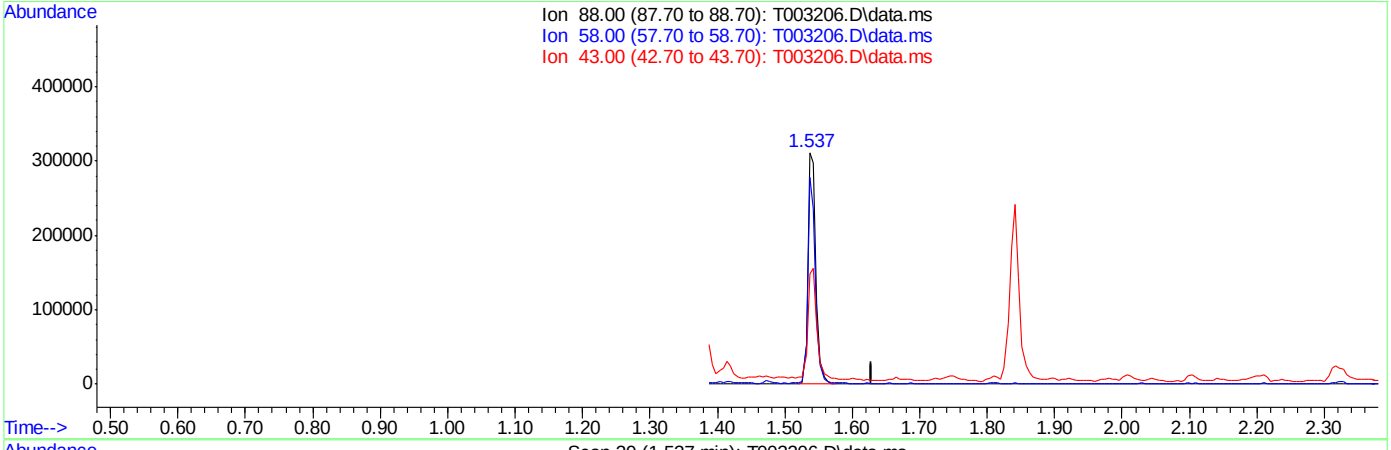
response 125499

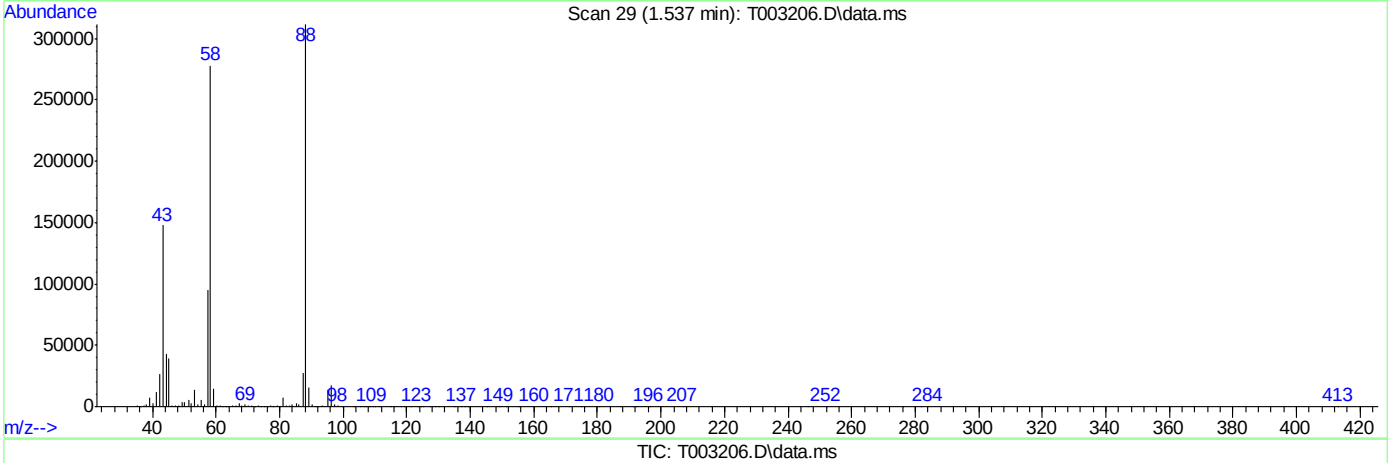
Ion	Exp%	Act%
113.00	100	100
55.00	160.30	153.66
85.00	65.70	69.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:11:23 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration





TIC: T003206.D\data.ms

(2) 1,4-Dioxane

1.537min (+0.107) 18.59ppm m

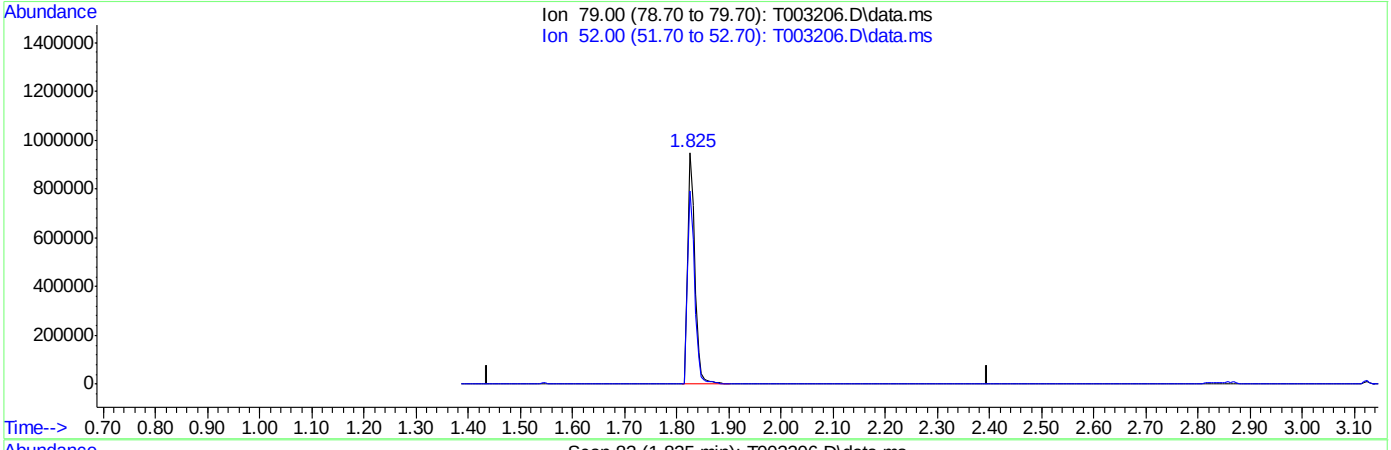
response 262050

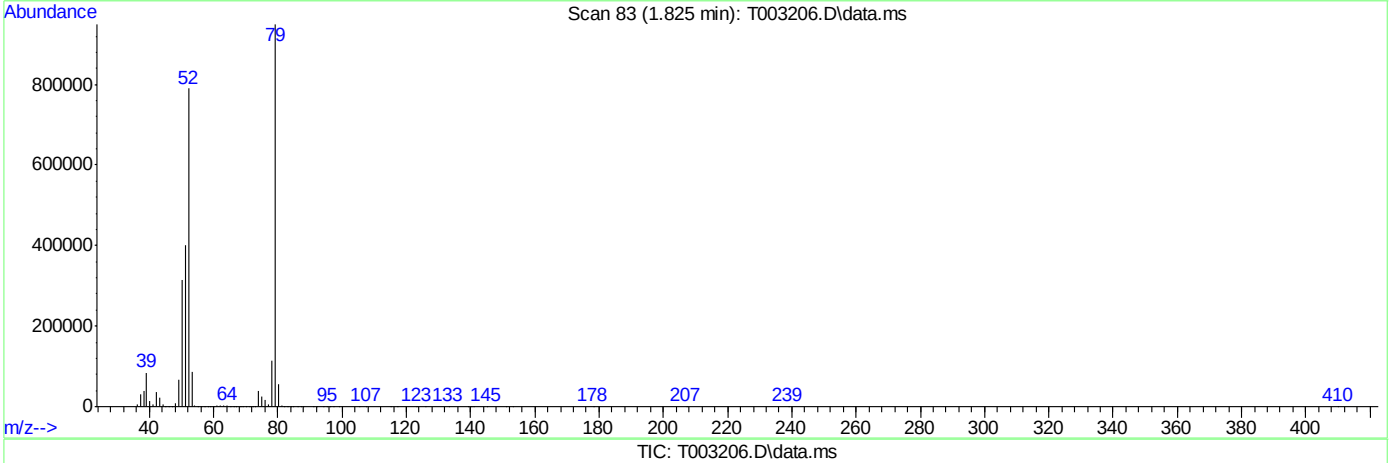
Ion	Exp%	Act%
88.00	100	100
58.00	81.70	89.26
43.00	33.60	47.43
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On    : 31 Jul 2012   9:23 pm
Operator  : fouads
Sample    : op42808-msd
Misc      : op42808,st170,30.0,,,1,1,soil
ALS Vial  : 18   Sample Multiplier: 1

Quant Time: Aug 01 10:11:23 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration
```





TIC: T003206.D\data.ms

(4) Pyridine ( )

1.825min (+0.107) 23.55ppm m

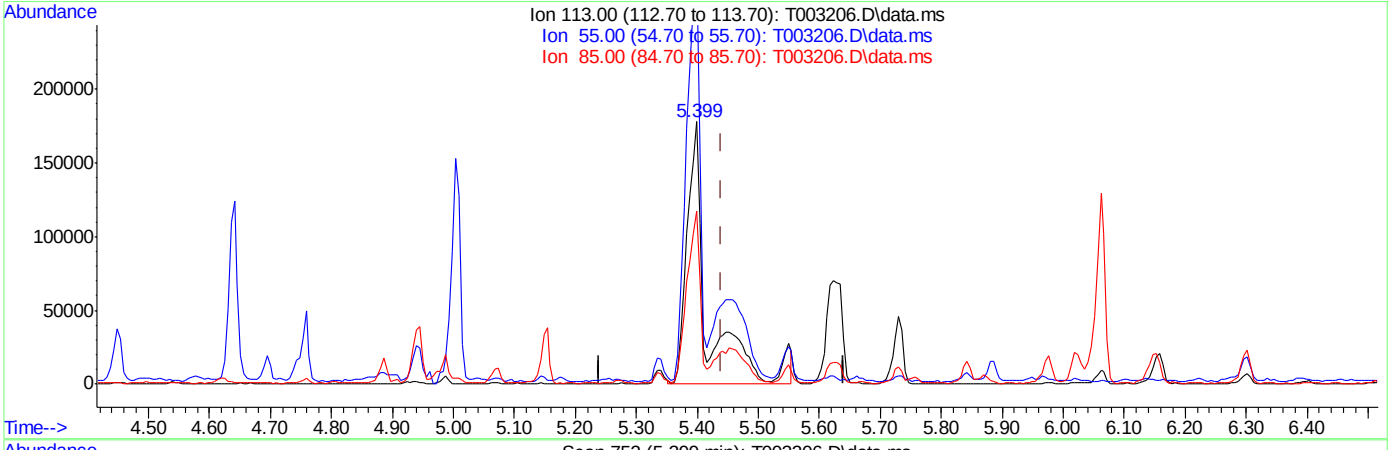
response 907451

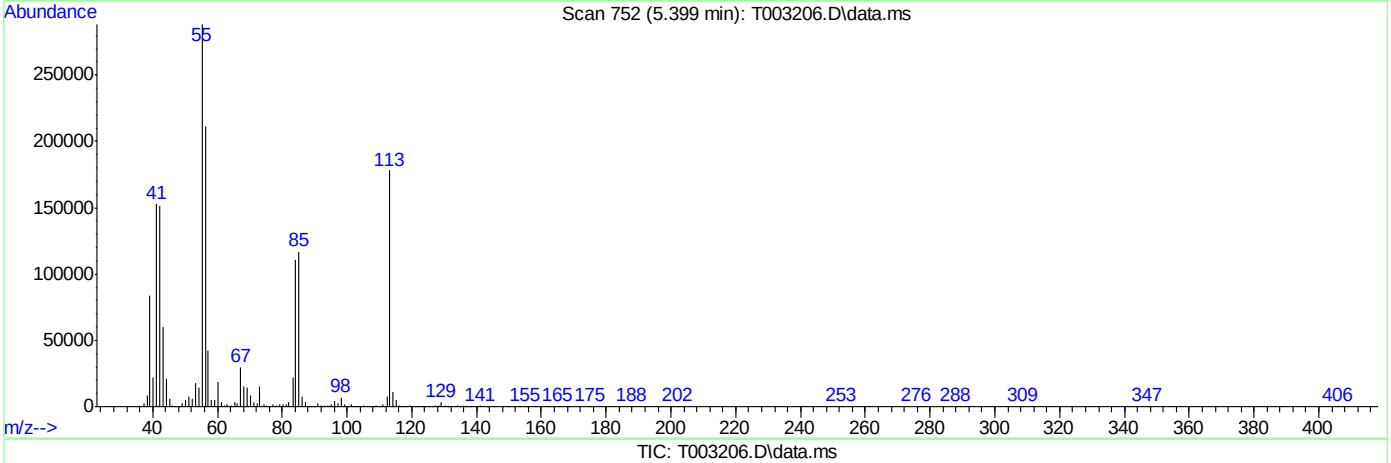
Ion	Exp%	Act%
79.00	100	100
52.00	82.20	83.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003206.D
Acq On : 31 Jul 2012 9:23 pm
Operator : fouads
Sample : op42808-msd
Misc : op42808,st170,30.0,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 01 10:11:23 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 10:06:38 2012
Response via : Initial Calibration





TIC: T003206.D\data.ms

(36) Caprolactam (P)

5.399min (-0.041) 34.18ppm m

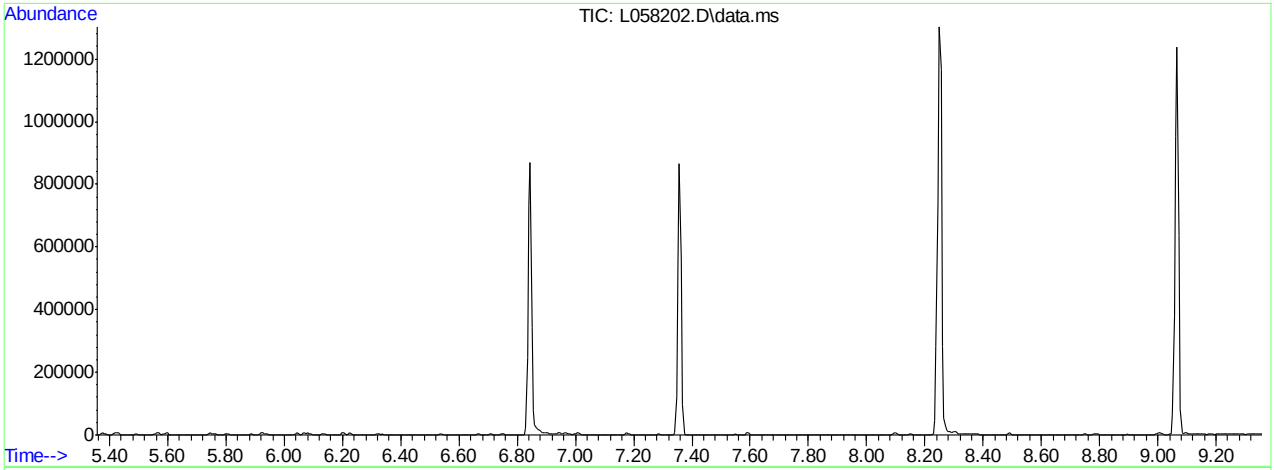
response 422642

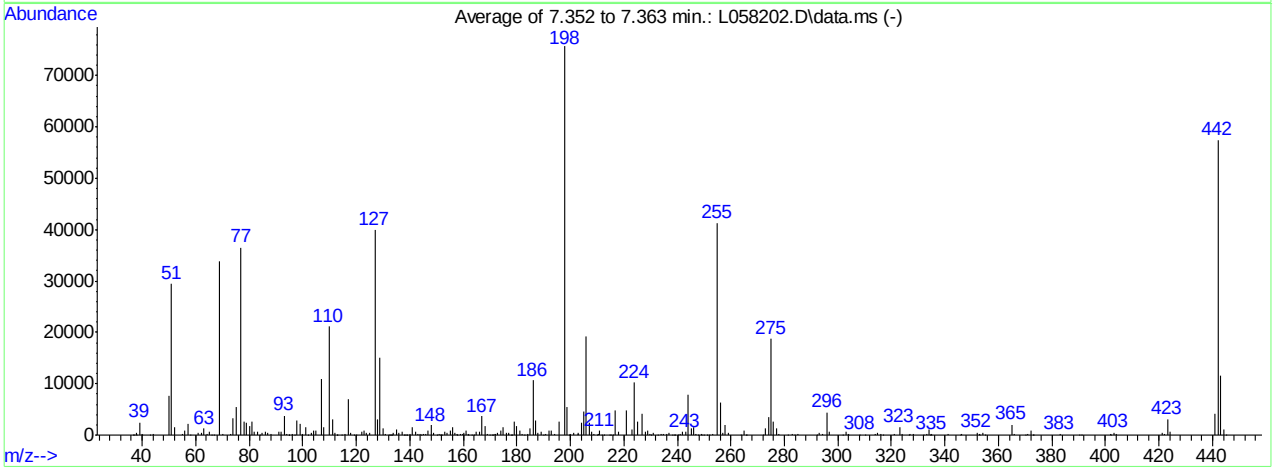
Ion	Exp%	Act%
113.00	100	100
55.00	160.30	161.84
85.00	65.70	65.74
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\071312a\L058202.D Vial: 1
Acq On : 13 Jul 2012 1:33 pm Operator: nancyf
Sample : dftpp Inst : MSBNA02
Misc : op42019,sl2972,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 517, 518, 519; Background Corrected with Scan 512

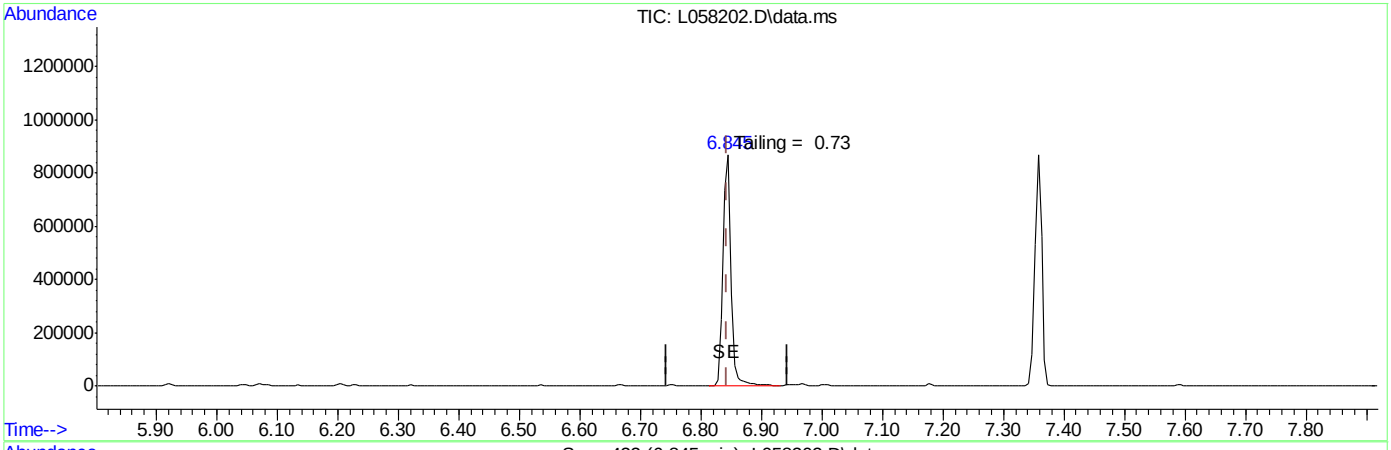
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	29378	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.8	33930	PASS
70	69	0.00	2	0.7	228	PASS
127	198	40	60	52.8	39925	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	75653	PASS
199	198	5	9	7.2	5450	PASS
275	198	10	30	24.7	18668	PASS
365	198	1	100	2.6	1990	PASS
441	443	0.01	100	35.1	4059	PASS
442	198	40	100	75.9	57426	PASS
443	442	17	23	20.2	11578	PASS

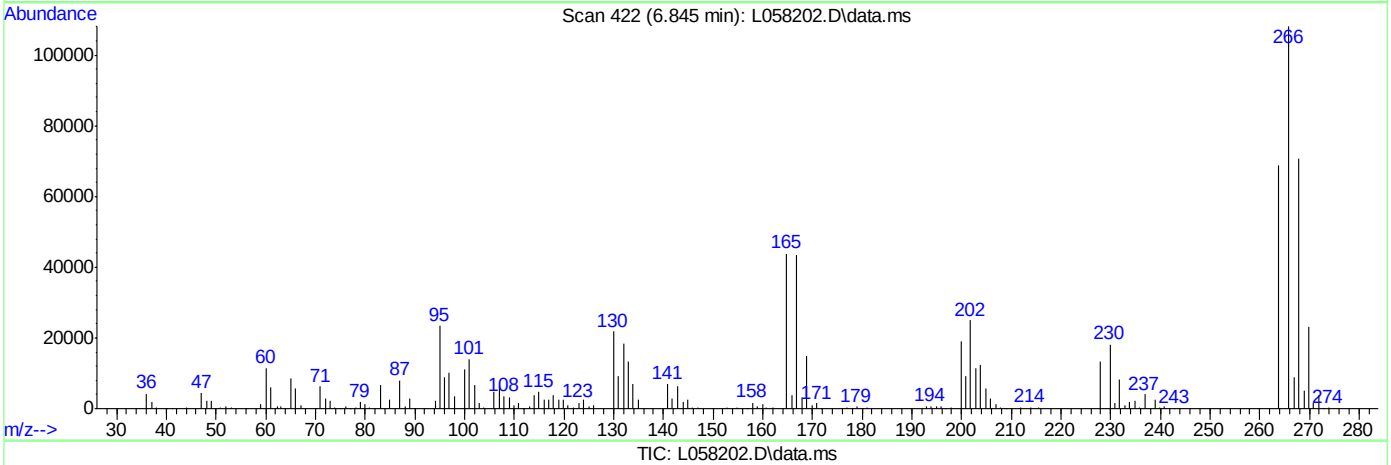
L058202.D dftpp.m Mon Jul 16 10:08:39 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On : 13 Jul 2012 1:33 pm
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2972,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration





TIC: L058202.D\data.ms

(1) Pentachlorophenol

6.845min (0.000) 32.38

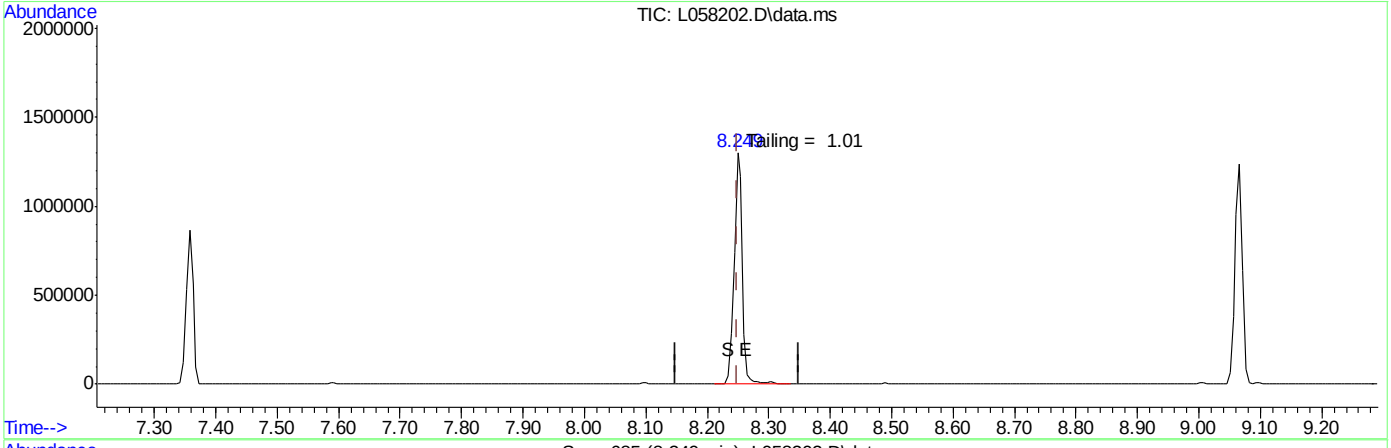
response 774540

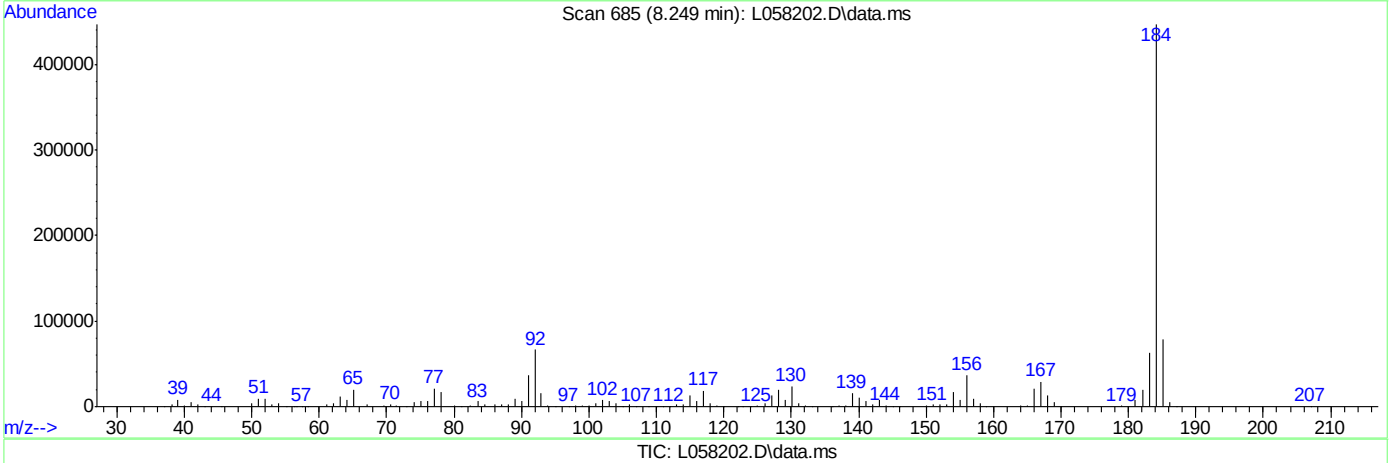
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On    : 13 Jul 2012   1:33 pm
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2972,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration
```





TIC: L058202.D\data.ms

(3) Benzidine

8.249min (0.000) 29.82

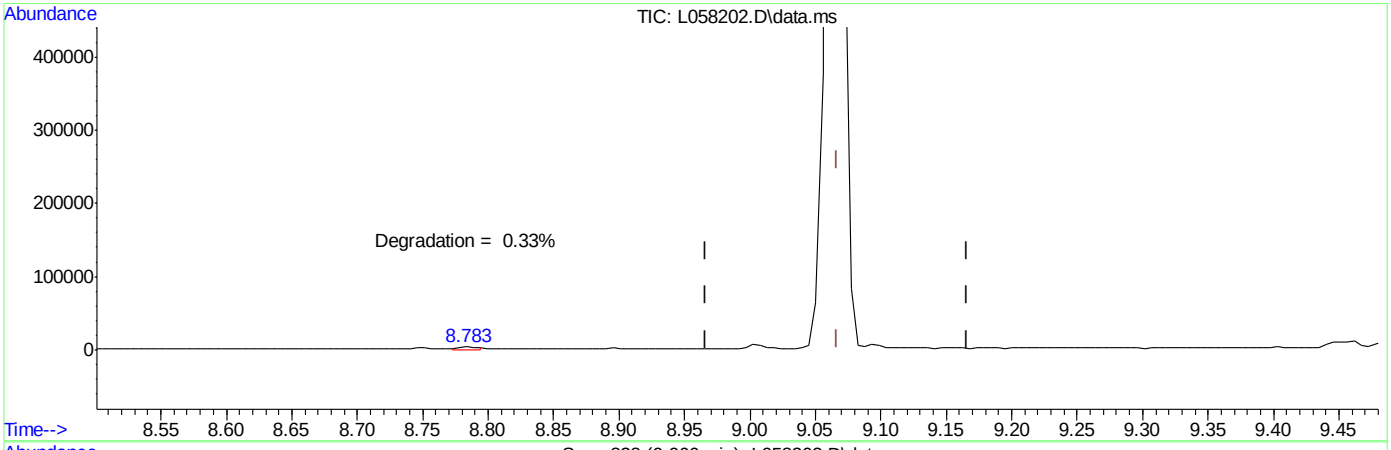
response 1264788

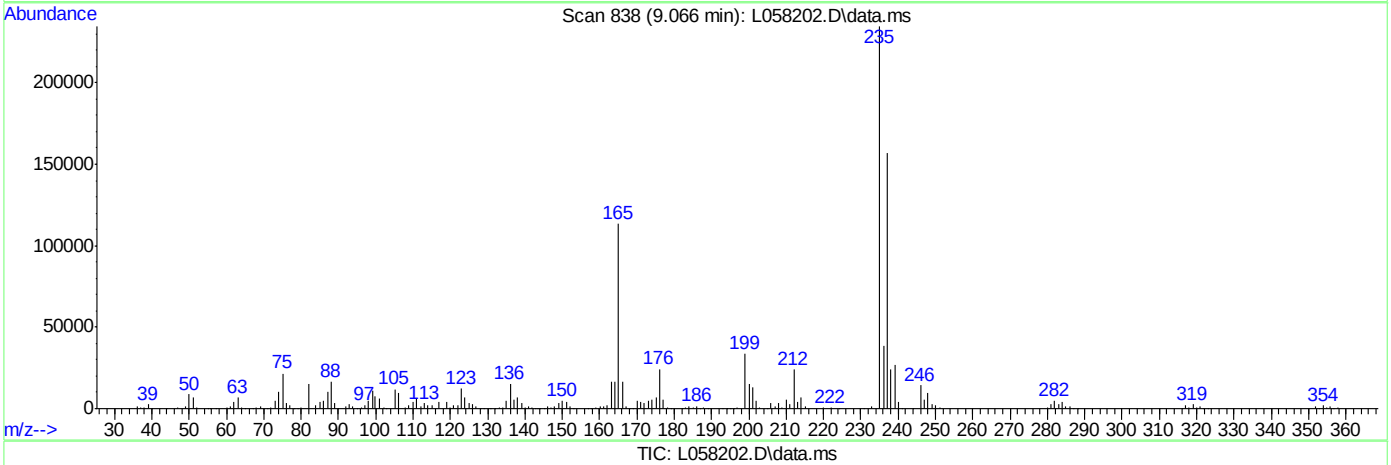
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On    : 13 Jul 2012   1:33 pm
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2972,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration
```





TIC: L058202.D\data.ms

(4) DDT

9.066min (0.000) 30.78

response 1074629

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

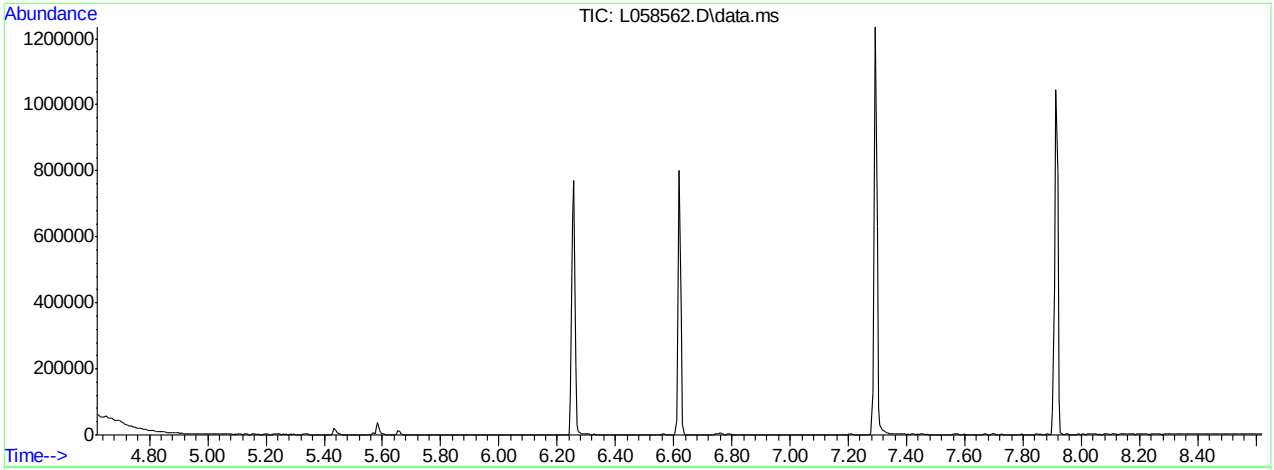
9.5.1.3

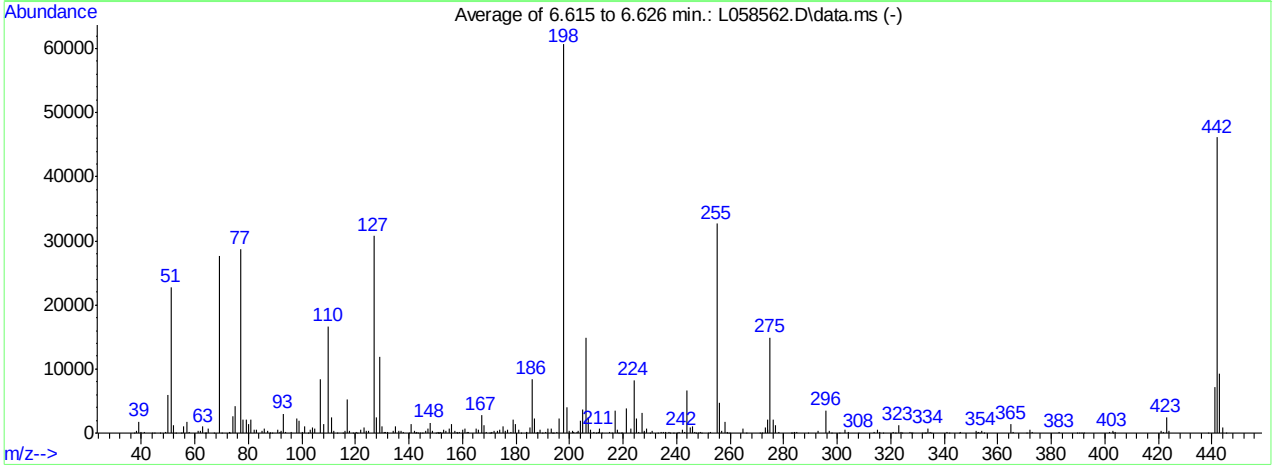
9

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\080212\L058562.D Vial: 1
Acq On : 2 Aug 2012 9:21 am Operator: nancyf
Sample : dftpp Inst : MSBNA02
Misc : op42019,sl2988,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 379, 380, 381; Background Corrected with Scan 375

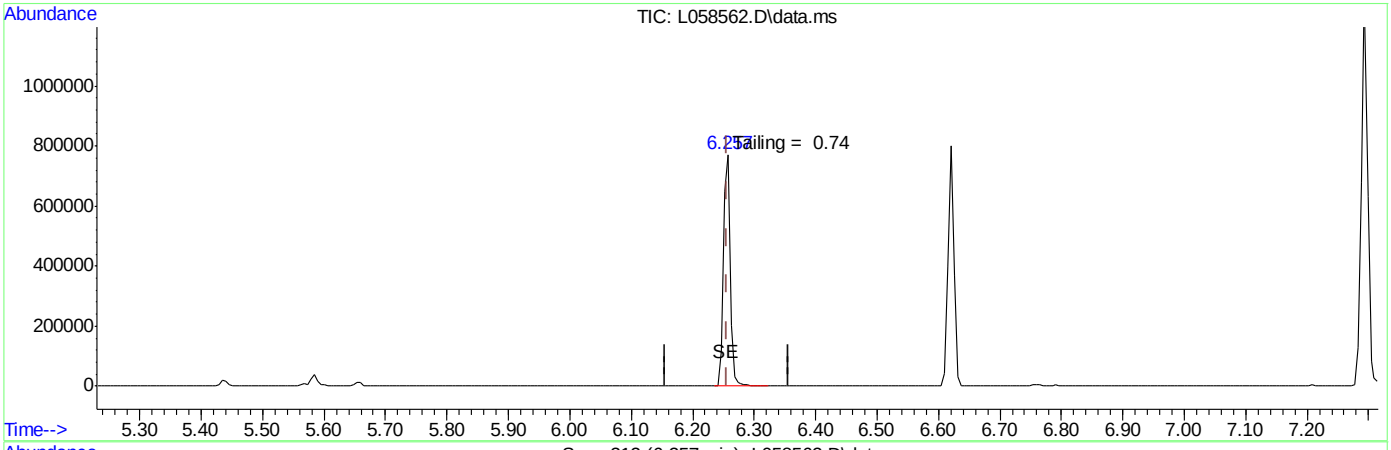
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.6	22811	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.5	27592	PASS
70	69	0.00	2	0.3	71	PASS
127	198	40	60	50.7	30760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60645	PASS
199	198	5	9	6.6	3995	PASS
275	198	10	30	24.6	14916	PASS
365	198	1	100	2.5	1490	PASS
441	443	0.01	100	77.6	7170	PASS
442	198	40	100	76.0	46118	PASS
443	442	17	23	20.0	9245	PASS

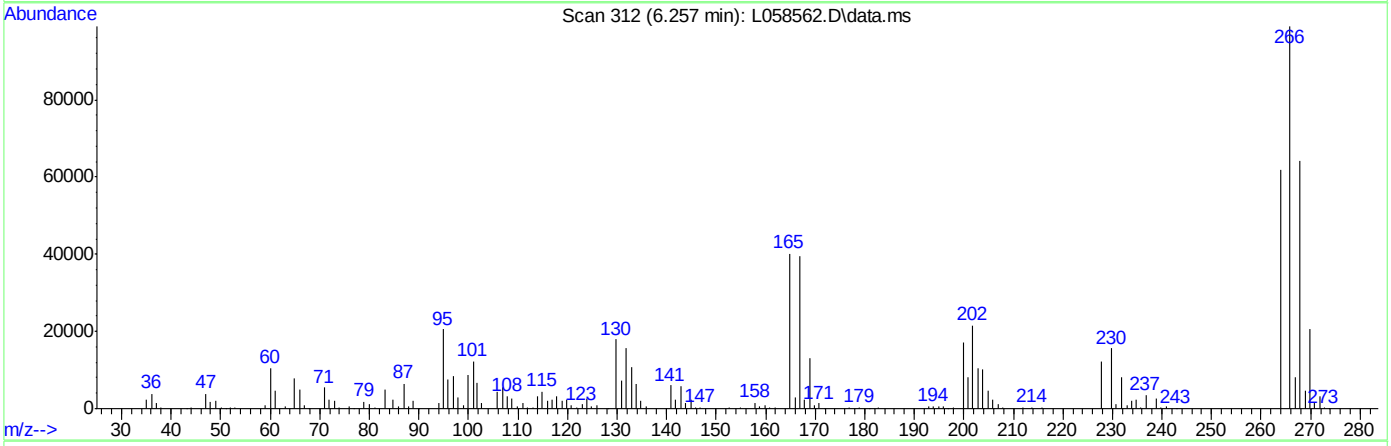
L058562.D dftpp.m Thu Aug 02 12:58:26 2012

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\080212\
Data File : L058562.D
Acq On    :  2 Aug 2012   9:21 am
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2988,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 02 12:59:11 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Aug 02 12:58:59 2012
Response via : Initial Calibration
```





TIC: L058562.D\data.ms

(1) Pentachlorophenol

6.257min (0.000) 24.07

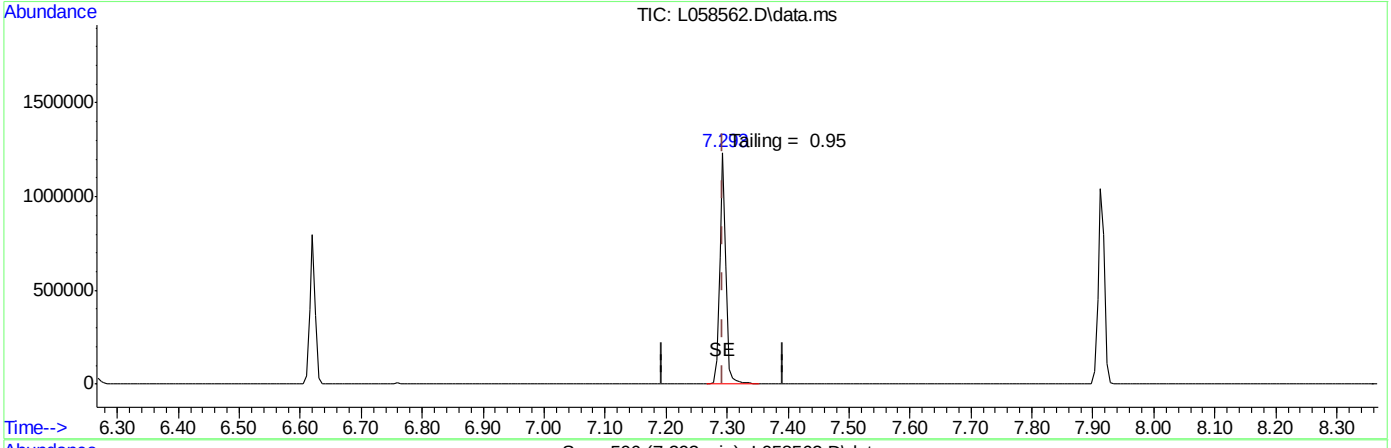
response 575641

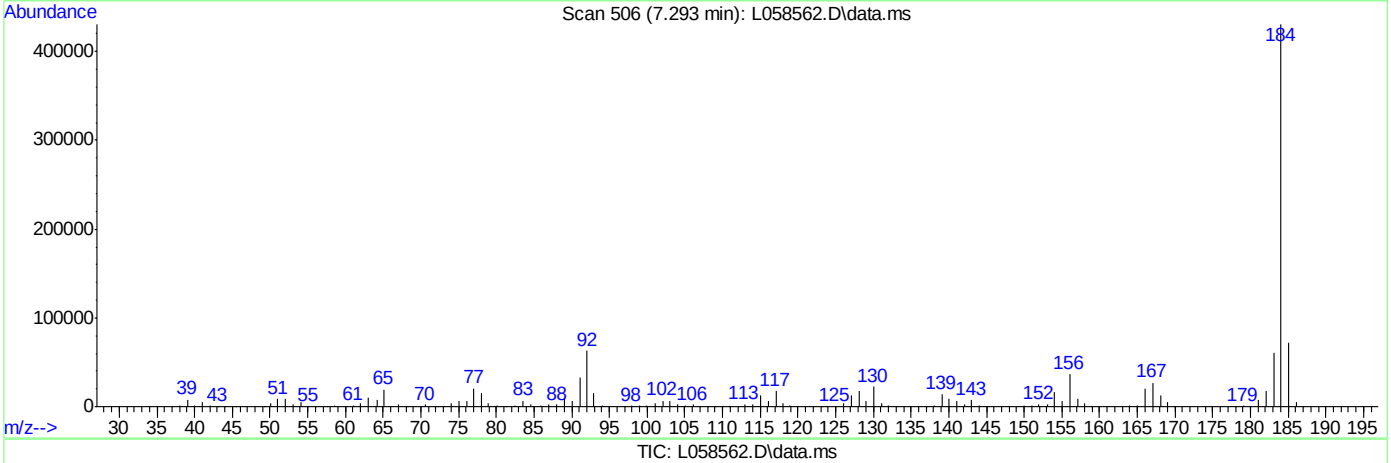
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\080212\
Data File : L058562.D
Acq On    :  2 Aug 2012   9:21 am
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2988,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 02 12:59:11 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Aug 02 12:58:59 2012
Response via : Initial Calibration
```





TIC: L058562.D\data.ms

(3) Benzidine

7.293min (0.000) 21.52

response 912579

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

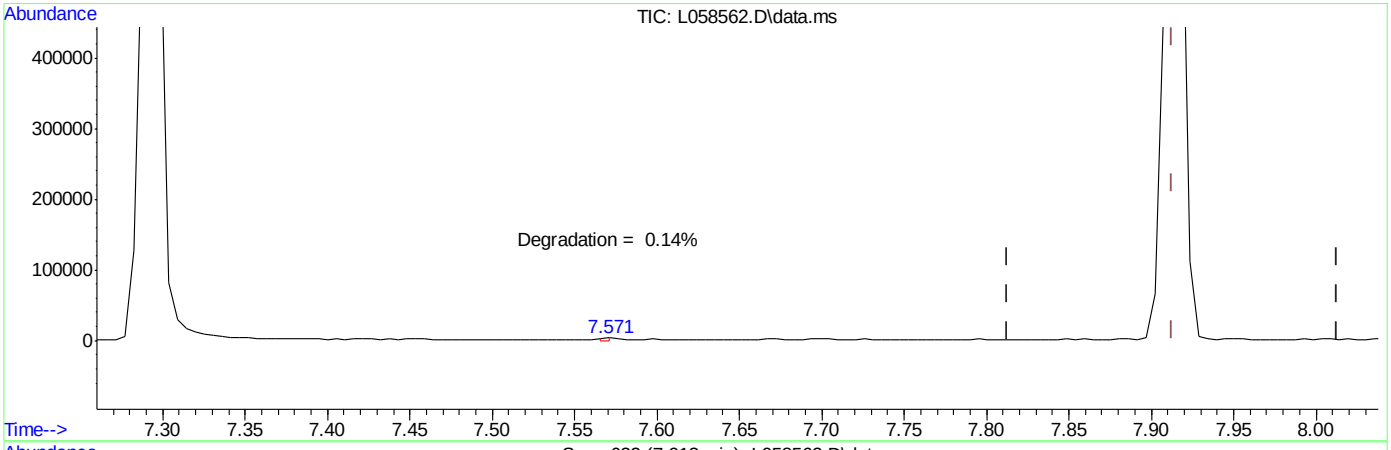
9.5.2.2

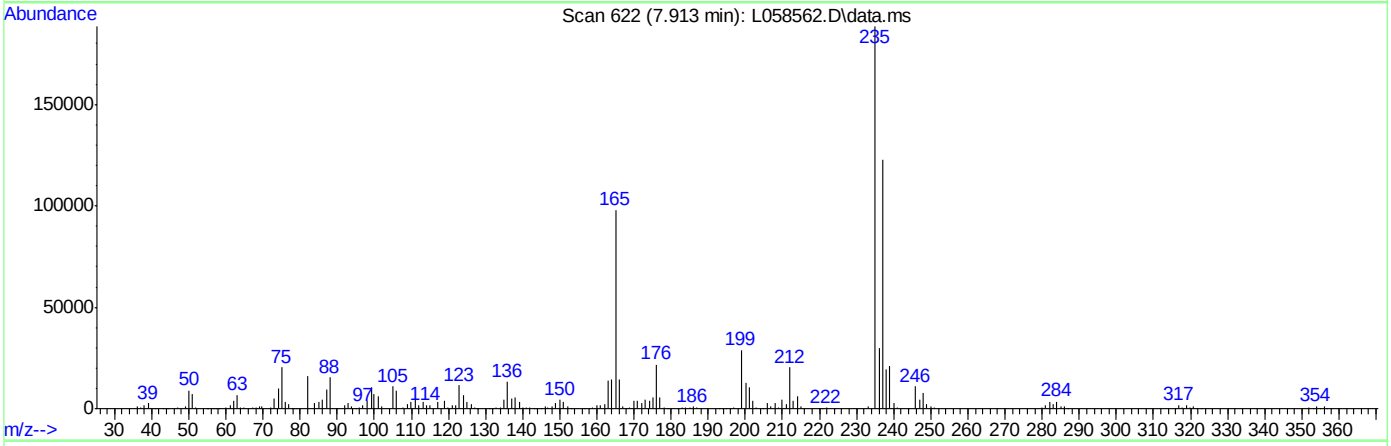
9

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\080212\
Data File : L058562.D
Acq On    :  2 Aug 2012   9:21 am
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2988,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 02 12:59:11 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Aug 02 12:58:59 2012
Response via : Initial Calibration
```





TIC: L058562.D\data.ms

(4) DDT

7.913min (0.000) 22.70

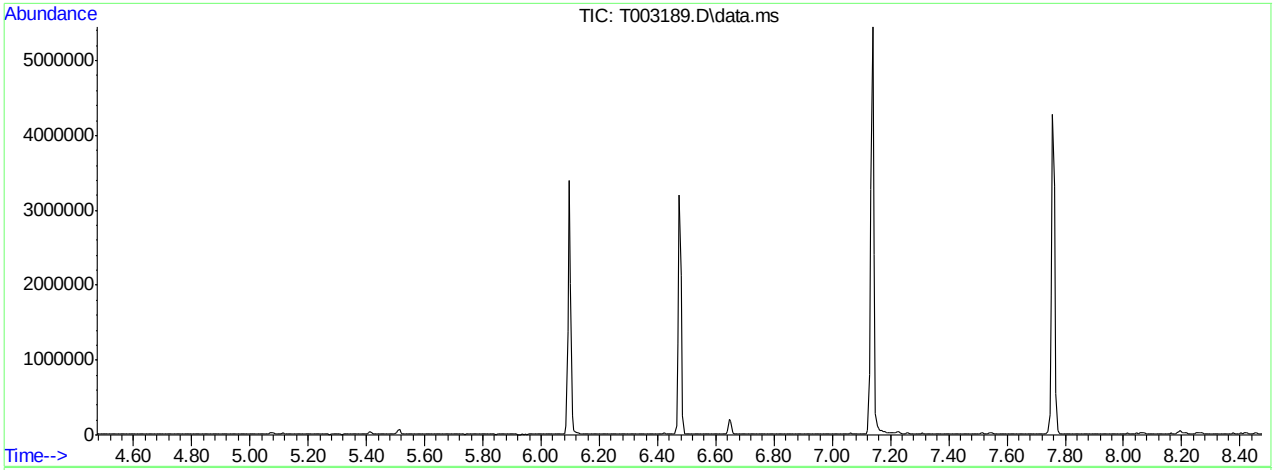
response 792570

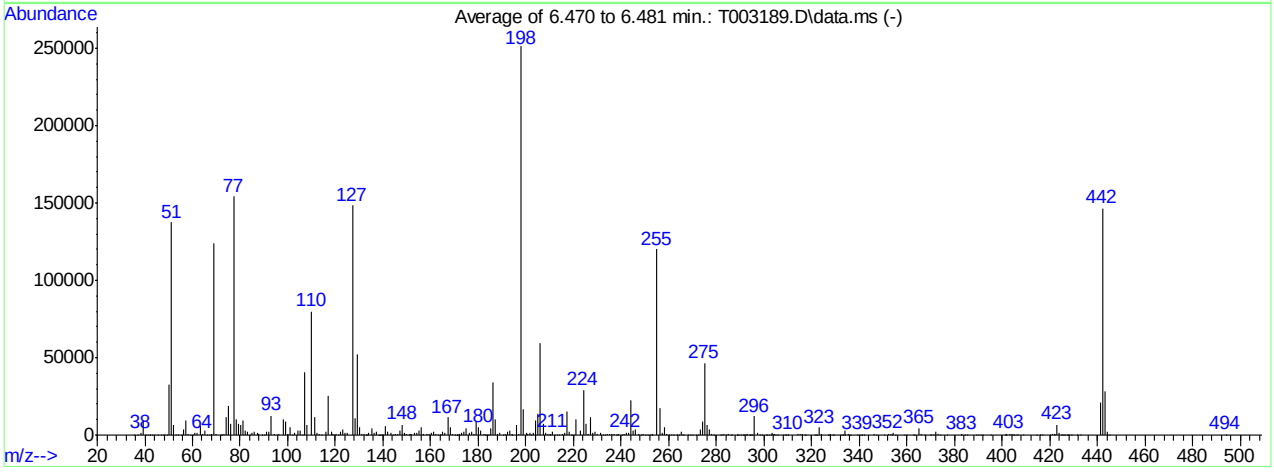
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\073112\T003189.D Vial: 1
Acq On : 31 Jul 2012 12:10 pm Operator: fouads
Sample : dftpp Inst : MSBNA06
Misc : op42823,st170,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 447, 448, 449; Background Corrected with Scan 444

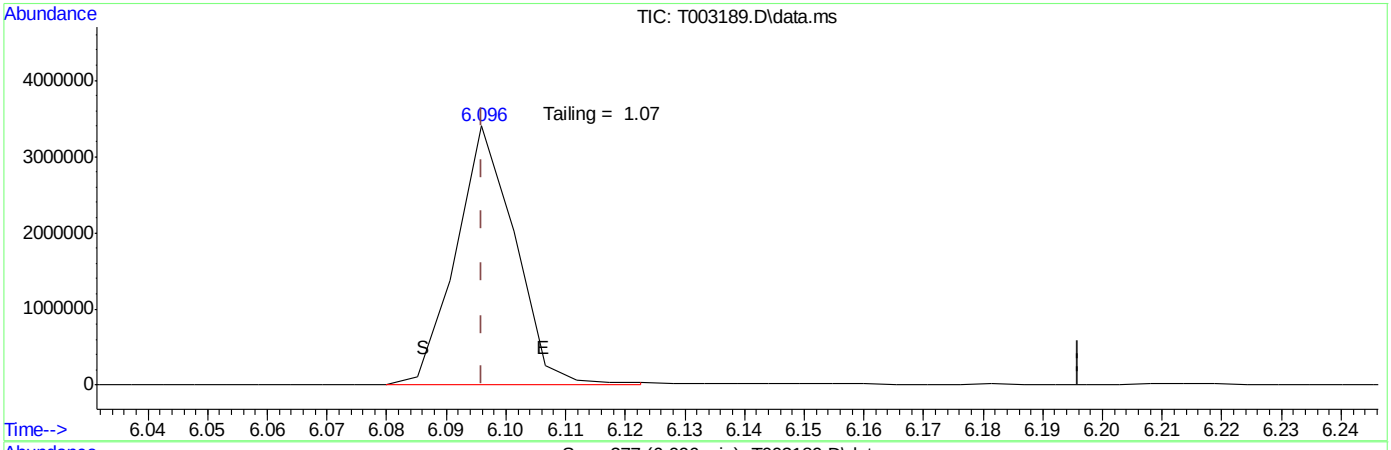
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.8	137540	PASS
68	69	0.00	2	0.4	484	PASS
69	198	0.00	100	49.3	123772	PASS
70	69	0.00	2	0.5	640	PASS
127	198	40	60	59.0	148274	PASS
197	198	0.00	1	0.2	492	PASS
198	198	100	100	100.0	251205	PASS
199	198	5	9	6.8	17008	PASS
275	198	10	30	18.5	46394	PASS
365	198	1	100	1.9	4725	PASS
441	443	0.01	100	74.7	21251	PASS
442	198	40	100	58.3	146565	PASS
443	442	17	23	19.4	28450	PASS

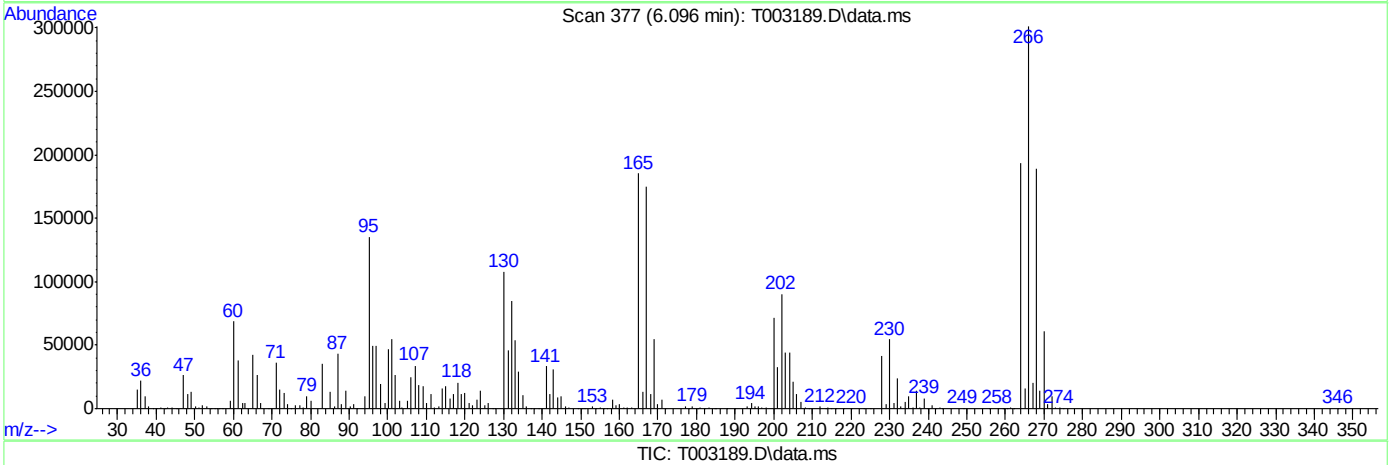
T003189.D dftpp.m Wed Aug 01 08:23:35 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003189.D
Acq On : 31 Jul 2012 12:10 pm
Operator : fouads
Sample : dftpp
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 08:22:26 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Aug 01 08:22:20 2012
Response via : Initial Calibration





TIC: T003189.D\data.ms

(1) Pentachlorophenol

6.096min (0.000) 96.18

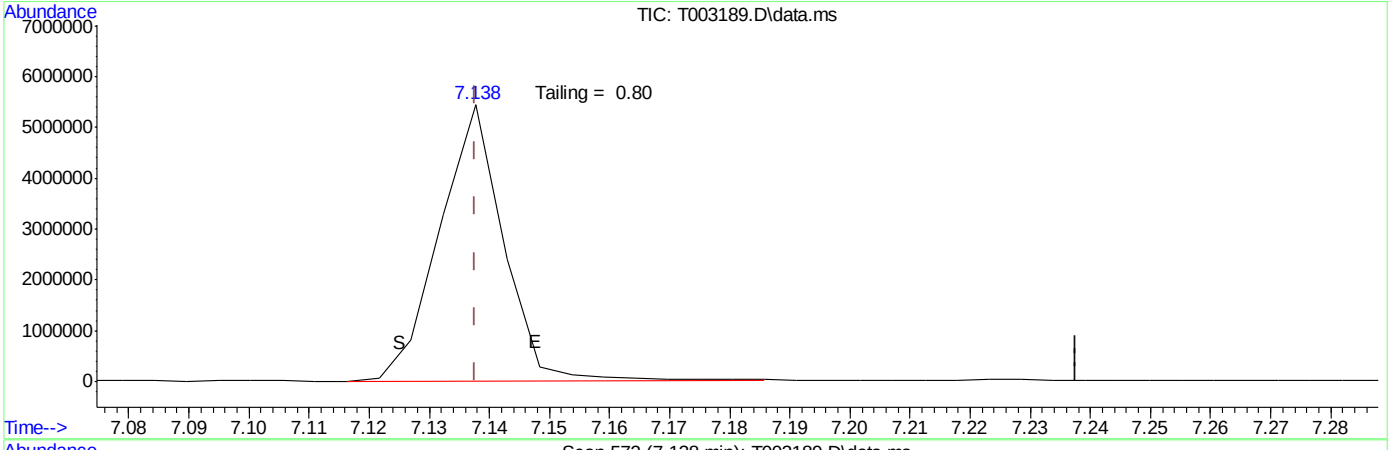
response 2300654

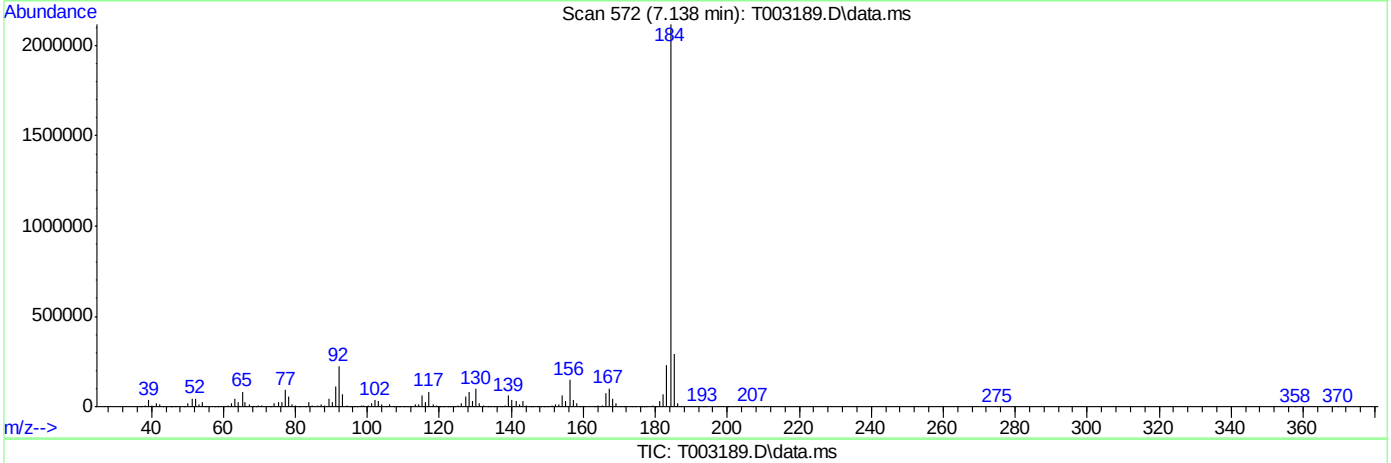
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003189.D
Acq On : 31 Jul 2012 12:10 pm
Operator : fouads
Sample : dftpp
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 08:22:26 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Aug 01 08:22:20 2012
Response via : Initial Calibration





TIC: T003189.D\data.ms

(3) Benzidine

7.138min (0.000) 93.43

response 3963052

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

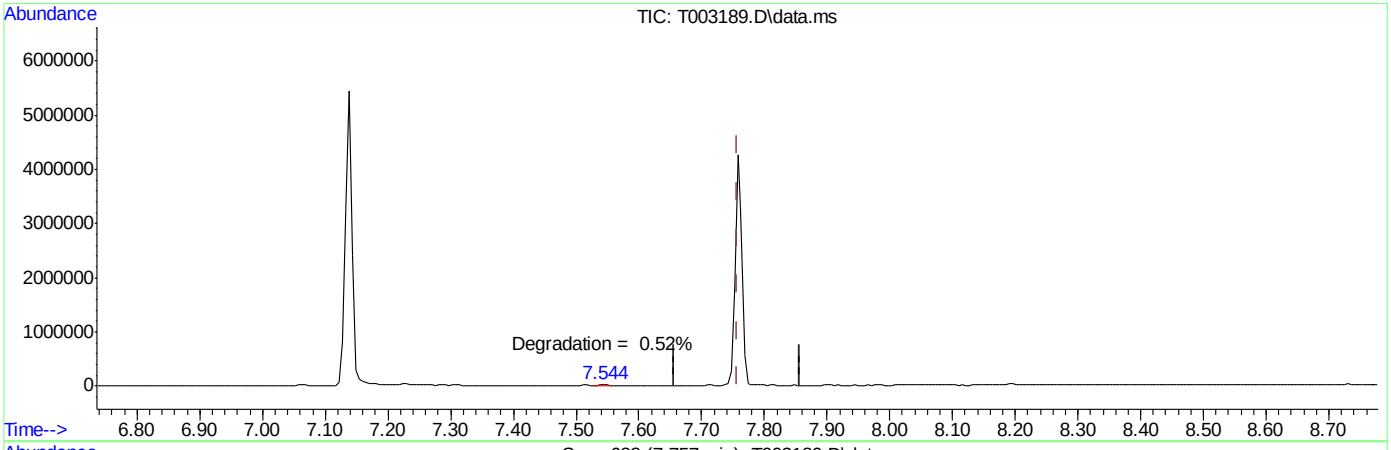
9.5.3.2

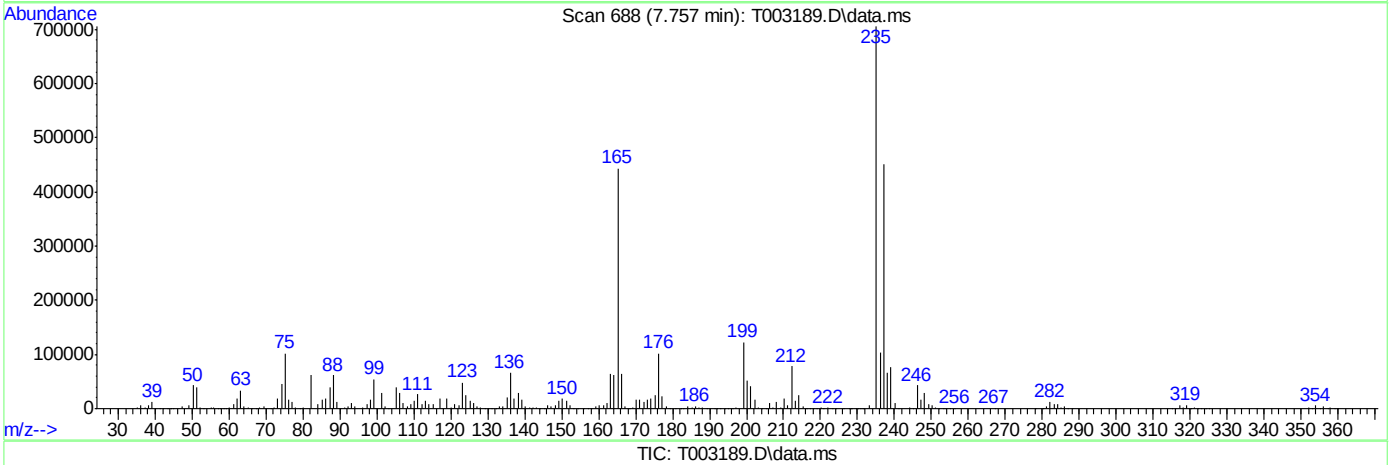
9

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003189.D
Acq On    : 31 Jul 2012  12:10 pm
Operator  : fouads
Sample    : dftpp
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 01 08:22:26 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Wed Aug 01 08:22:20 2012
Response via : Initial Calibration
```





TIC: T003189.D\data.ms

(4) DDT

7.757min (0.000) 93.74

response 3272316

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	145414	40.00 ppm	0.00
22) Naphthalene-d8	5.384	136	515305	40.00 ppm	0.00
42) Acenaphthene-d10	7.462	164	299713	40.00 ppm	0.00
68) Phenanthrene-d10	9.807	188	464952	40.00 ppm	0.00
83) Chrysene-d12	14.651	240	400255	40.00 ppm	0.00
92) Perylene-d12	17.129	264	353193	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.456	112	62216	12.58 ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 12.58%#		
9) Phenol-d5	4.166	99	76948	14.09 ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 14.09%		
23) Nitrobenzene-d5	4.802	82	33626	5.51 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 11.02%#		
46) 2-Fluorobiphenyl	6.570	172	62903	5.96 ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 11.92%#		
72) 2,4,6-Tribromophenol	8.690	330	14197	11.41 ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 11.41%#		
86) Terphenyl-d14	12.808	244	51307	6.19 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 12.38%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.886	88	14363	6.31 ppm	99
3) N-nitrosodimethylamine	2.265	42	12583	5.57 ppm	96
4) Pyridine	2.254	79	32658	5.48 ppm	95
5) Benzaldehyde	4.054	106	23717	5.12 ppm	95
6) Aniline	4.161	93	53023	6.34 ppm	93
8) bis(2-Chloroethyl)ether	4.209	93	29241	5.66 ppm	99
10) Phenol	4.177	94	44615	6.26 ppm	95
11) 2-Chlorophenol	4.247	128	32653	6.10 ppm	93
12) 1,3-Dichlorobenzene	4.343	146	34522	5.98 ppm	98
13) 1,4-Dichlorobenzene	4.380	146	34497	6.12 ppm	96
14) 1,2-Dichlorobenzene	4.519	146	33144	6.14 ppm	99
15) Benzyl alcohol	4.498	108	22164	5.88 ppm	91
16) bis(2-chloroisopropyl)...	4.610	45	38046	5.82 ppm	90
17) 2-Methylphenol	4.604	108	29895	5.97 ppm	94
18) Acetophenone	4.684	105	45658	6.64 ppm	94
19) Hexachloroethane	4.743	117	13074	5.83 ppm	94
20) N-Nitroso-di-n-propyla...	4.711	70	22277	5.94 ppm	96
21) 3&4-Methylphenol	4.711	108	31602	6.20 ppm	97
24) Nitrobenzene	4.813	77	33852	5.73 ppm	97
25) Isophorone	5.000	82	59633	5.75 ppm	96
26) 2-Nitrophenol	5.074	139	16627	5.29 ppm	97
27) 2,4-Dimethylphenol	5.122	107	32083	5.76 ppm	99
28) bis(2-Chloroethoxy)met...	5.197	93	37470	5.89 ppm	95
29) Benzoic Acid	5.208	105	19943	3.56 ppm	95
30) 2,4-Dichlorophenol	5.277	162	25332	5.46 ppm	97
31) 1,2,4-Trichlorobenzene	5.352	180	28795	5.77 ppm	98
33) Naphthalene	5.400	128	87550	5.81 ppm	96
34) 4-Chloroaniline	5.480	127	37882	5.76 ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.486	162	25398	5.59	ppm		99
36) Hexachlorobutadiene	5.582	225	14907	5.58	ppm		97
37) Caprolactam	5.774	113	9779	5.02	ppm		95
38) 4-Chloro-3-methylphenol	5.993	107	26649	5.42	ppm		96
39) 2-Methylnaphthalene	6.100	142	58741	5.58	ppm		97
40) 1-Methylnaphthalene	6.223	142	55573	6.09	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.346	216	27001	5.67	ppm		97
43) Hexachlorocyclopentadiene	6.372	237	12579	4.41	ppm		99
44) 2,4,6-Trichlorophenol	6.479	196	16797	5.21	ppm		97
45) 2,4,5-Trichlorophenol	6.527	196	18215	5.36	ppm		99
47) 1,1'-Biphenyl	6.677	154	70790	6.06	ppm		96
48) 2-Chloronaphthalene	6.677	162	51403	5.89	ppm		96
49) 2-Nitroaniline	6.869	65	15768	5.18	ppm		92
50) p-Dinitrobenzene	7.029	75	9956	4.75	ppm		96
51) Acenaphthylene	7.232	152	86640	6.23	ppm		94
52) Dimethylphthalate	7.189	163	58172	5.79	ppm		99
53) m-Dinitrobenzene	7.189	168	9921	5.19	ppm	#	54
54) 2,6-Dinitrotoluene	7.270	165	13742	5.47	ppm	#	74
55) o-Dinitrobenzene	7.350	50	6930	4.95	ppm		98
56) Acenaphthene	7.505	153	51128	5.82	ppm		98
57) 3-Nitroaniline	7.451	138	15185	5.09	ppm		88
58) 2,4-Dinitrophenol	7.606	184	4040	2.72	ppm		89
59) Dibenzofuran	7.740	168	72428	6.06	ppm		94
60) 2,4-Dinitrotoluene	7.841	165	17522	5.27	ppm		96
61) 4-Nitrophenol	7.777	109	6702	4.33	ppm		92
62) 2,3,5,6-Tetrachlorophenol	7.953	232	13681	5.05	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.023	232	13509	5.14	ppm		98
64) Fluorene	8.268	166	59521	6.02	ppm		99
65) 4-Chlorophenyl-phenyle...	8.311	204	26549	5.64	ppm		97
66) Diethylphthalate	8.279	149	53930	5.40	ppm		99
67) 4-Nitroaniline	8.397	138	14766	5.27	ppm		94
69) 4,6-Dinitro-2-methylph...	8.477	198	7869	4.17	ppm	#	34
70) n-Nitrosodiphenylamine	8.525	169	49733	7.12	ppm		99
71) 1,2-Diphenylhydrazine	8.557	77	58169	5.91	ppm		94
73) 4-Bromophenyl-phenylether	9.102	248	14987	5.70	ppm		96
74) Hexachlorobenzene	9.305	284	16123	5.97	ppm		92
75) Simazine	9.465	201	8240	5.62	ppm		96
76) Atrazine	9.545	200	15453	5.75	ppm		95
77) Pentachlorophenol	9.646	266	8382	4.38	ppm		98
78) Phenanthrene	9.839	178	73129	5.67	ppm		96
79) Anthracene	9.919	178	74718	6.01	ppm		96
80) Carbazole	10.261	167	73544	5.91	ppm		95
81) Di-n-butylphthalate	11.158	149	80759	5.72	ppm		98
82) Fluoranthene	11.970	202	73280	5.79	ppm		94
84) Benzidine	12.333	184	46059	6.85	ppm		99
85) Pyrene	12.354	202	75564	5.60	ppm		94
87) Butylbenzylphthalate	13.903	149	31779	4.99	ppm		96
88) 3,3'-Dichlorobenzidine	14.710	252	23889	5.69	ppm		94
89) Benzo[a]anthracene	14.614	228	61842	5.40	ppm		97
90) Chrysene	14.688	228	56524	5.61	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.126	149	40331	4.97 ppm	96
93) Di-n-octylphthalate	16.232	149	65104	4.91 ppm	96
94) Benzo[b]fluoranthene	16.515	252	55407	5.18 ppm	99
95) Benzo[k]fluoranthene	16.552	252	58044	5.62 ppm	99
96) Benzo[a]pyrene	17.017	252	53284	5.22 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.683	276	42546	4.98 ppm	99
98) Dibenz[a,h]anthracene	18.737	278	42307	4.89 ppm	98
99) Benzo[g,h,i]perylene	19.015	276	48024	5.26 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

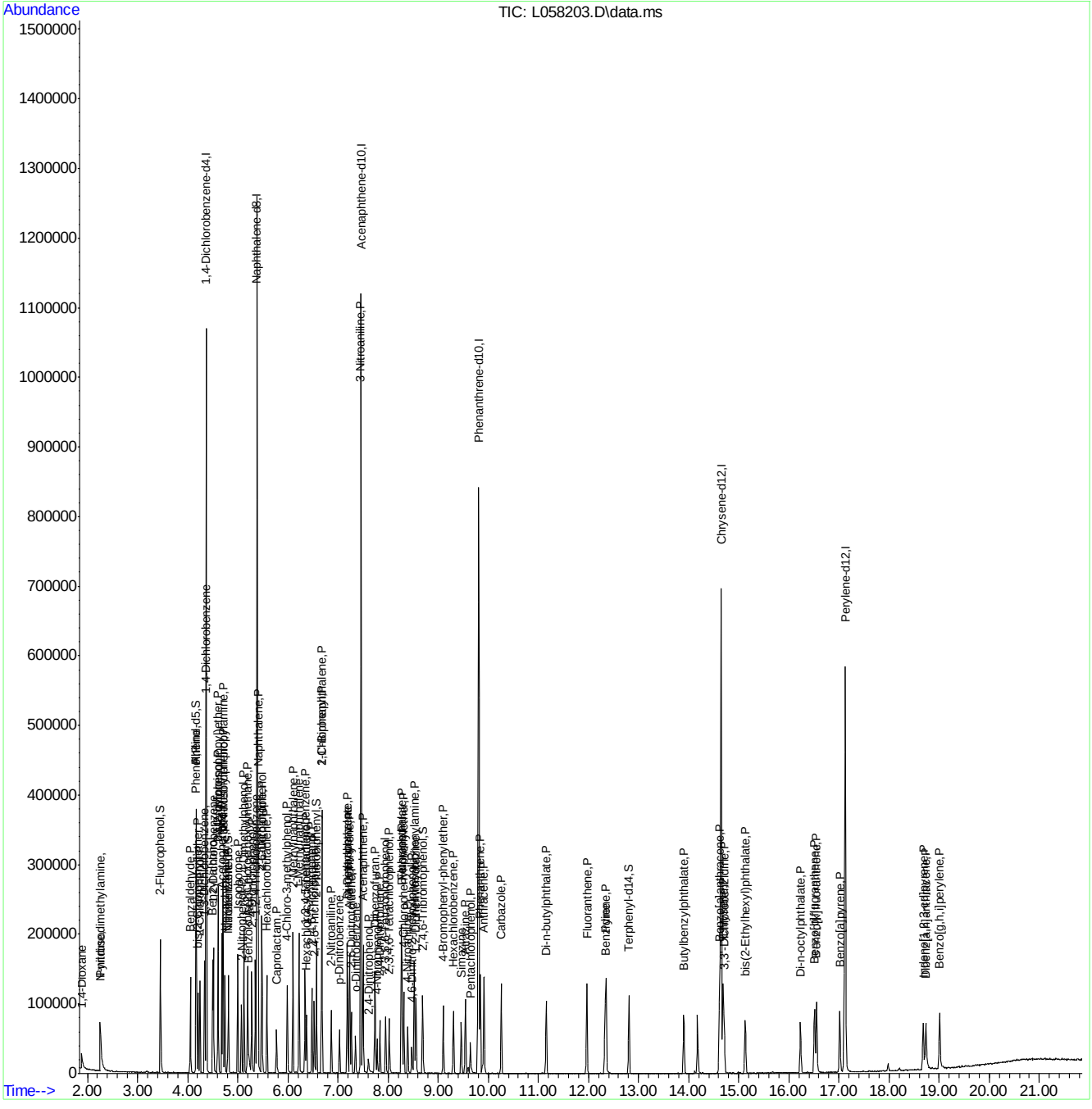
9.6.1

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	112171	40.00	ppm	0.00
22) Naphthalene-d8	5.385	136	419805	40.00	ppm	0.00
42) Acenaphthene-d10	7.463	164	238919	40.00	ppm	0.00
68) Phenanthrene-d10	9.808	188	376744	40.00	ppm	0.00
83) Chrysene-d12	14.647	240	319855	40.00	ppm	-0.01
92) Perylene-d12	17.125	264	272334	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.457	112	90063	23.60	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 23.60%			
9) Phenol-d5	4.168	99	112408	27.16	ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 27.16%			
23) Nitrobenzene-d5	4.798	82	51235	10.30	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 20.60%#			
46) 2-Fluorobiphenyl	6.571	172	91137	10.82	ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 21.64%#			
72) 2,4,6-Tribromophenol	8.691	330	21977	21.80	ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 21.80%#			
86) Terphenyl-d14	12.809	244	77145	11.64	ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 23.28%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.882	88	21524	12.25	ppm	98
3) N-nitrosodimethylamine	2.250	42	19233	11.04	ppm	98
4) Pyridine	2.245	79	51503	11.20	ppm	98
5) Benzaldehyde	4.050	106	35333	10.17	ppm	96
6) Aniline	4.162	93	76157	12.01	ppm	86
8) bis(2-Chloroethyl)ether	4.210	93	46228	11.59	ppm	97
10) Phenol	4.178	94	66103	12.23	ppm	96
11) 2-Chlorophenol	4.242	128	48514	11.74	ppm	98
12) 1,3-Dichlorobenzene	4.338	146	52331	11.75	ppm	98
13) 1,4-Dichlorobenzene	4.381	146	49952	11.50	ppm	97
14) 1,2-Dichlorobenzene	4.515	146	49317	11.85	ppm	97
15) Benzyl alcohol	4.493	108	32890	11.31	ppm	95
16) bis(2-chloroisopropyl)...	4.611	45	56846	11.45	ppm	92
17) 2-Methylphenol	4.600	108	45221	11.72	ppm	92
18) Acetophenone	4.686	105	64338	12.13	ppm	98
19) Hexachloroethane	4.744	117	19602	11.33	ppm	92
20) N-Nitroso-di-n-propyla...	4.712	70	33874	11.71	ppm	98
21) 3&4-Methylphenol	4.712	108	47880	12.17	ppm	97
24) Nitrobenzene	4.814	77	49834	10.36	ppm	99
25) Isophorone	5.001	82	90496	10.77	ppm	98
26) 2-Nitrophenol	5.075	139	26313	10.28	ppm	89
27) 2,4-Dimethylphenol	5.124	107	48491	10.69	ppm	100
28) bis(2-Chloroethoxy)met...	5.198	93	56139	10.83	ppm	96
29) Benzoic Acid	5.220	105	37698	8.25	ppm	92
30) 2,4-Dichlorophenol	5.278	162	39803	10.53	ppm	97
31) 1,2,4-Trichlorobenzene	5.348	180	41950	10.31	ppm	98
33) Naphthalene	5.401	128	128203	10.60	ppm	96
34) 4-Chloroaniline	5.481	127	57479	10.72	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.487	162	38578	10.42	ppm		98
36) Hexachlorobutadiene	5.583	225	21806	10.03	ppm		98
37) Caprolactam	5.781	113	15493	9.77	ppm		99
38) 4-Chloro-3-methylphenol	5.989	107	41567	10.37	ppm		96
39) 2-Methylnaphthalene	6.101	142	87953	10.38	ppm		97
40) 1-Methylnaphthalene	6.224	142	81011	10.89	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.347	216	40833	10.53	ppm		98
43) Hexachlorocyclopentadiene	6.373	237	19808	8.71	ppm		97
44) 2,4,6-Trichlorophenol	6.480	196	26080	10.14	ppm		98
45) 2,4,5-Trichlorophenol	6.528	196	27770	10.25	ppm		97
47) 1,1'-Biphenyl	6.678	154	101415	11.05	ppm		96
48) 2-Chloronaphthalene	6.678	162	78091	11.22	ppm		97
49) 2-Nitroaniline	6.870	65	24273	9.99	ppm		95
50) p-Dinitrobenzene	7.030	75	15922	9.53	ppm		96
51) Acenaphthylene	7.233	152	128463	11.58	ppm		97
52) Dimethylphthalate	7.191	163	88969	11.10	ppm		98
53) m-Dinitrobenzene	7.191	168	15530	10.20	ppm	#	59
54) 2,6-Dinitrotoluene	7.271	165	20878	10.42	ppm	#	70
55) o-Dinitrobenzene	7.351	50	11314	10.14	ppm		90
56) Acenaphthene	7.506	153	77667	11.09	ppm		99
57) 3-Nitroaniline	7.452	138	23986	10.08	ppm		97
58) 2,4-Dinitrophenol	7.607	184	8967	7.48	ppm		98
59) Dibenzofuran	7.741	168	107002	11.24	ppm		96
60) 2,4-Dinitrotoluene	7.842	165	26368	9.95	ppm		94
61) 4-Nitrophenol	7.778	109	10893	8.83	ppm	#	82
62) 2,3,5,6-Tetrachlorophenol	7.949	232	21361	9.89	ppm		97
63) 2,3,4,6-Tetrachlorophenol	8.024	232	21443	10.23	ppm		93
64) Fluorene	8.269	166	87879	11.16	ppm		98
65) 4-Chlorophenyl-phenyle...	8.318	204	40863	10.88	ppm		96
66) Diethylphthalate	8.280	149	82541	10.37	ppm		99
67) 4-Nitroaniline	8.398	138	22783	10.21	ppm		94
69) 4,6-Dinitro-2-methylph...	8.472	198	14387	9.41	ppm		99
70) n-Nitrosodiphenylamine	8.526	169	74176	13.10	ppm		99
71) 1,2-Diphenylhydrazine	8.563	77	88102	11.04	ppm		98
73) 4-Bromophenyl-phenylether	9.103	248	21975	10.32	ppm		94
74) Hexachlorobenzene	9.306	284	24503	11.20	ppm		96
75) Simazine	9.466	201	12169	10.25	ppm		95
76) Atrazine	9.546	200	22853	10.49	ppm		97
77) Pentachlorophenol	9.642	266	13574	8.76	ppm		98
78) Phenanthrene	9.840	178	110030	10.65	ppm		99
79) Anthracene	9.915	178	114073	11.32	ppm		97
80) Carbazole	10.262	167	112361	11.15	ppm		97
81) Di-n-butylphthalate	11.159	149	127110	11.11	ppm		97
82) Fluoranthene	11.971	202	112409	10.96	ppm		95
84) Benzidine	12.329	184	70789	13.18	ppm		97
85) Pyrene	12.355	202	115677	10.74	ppm		93
87) Butylbenzylphthalate	13.904	149	48659	9.57	ppm		97
88) 3,3'-Dichlorobenzidine	14.711	252	36028	10.73	ppm		98
89) Benzo[a]anthracene	14.615	228	94278	10.30	ppm		97
90) Chrysene	14.684	228	85974	10.68	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.127	149	62868	9.69	ppm	97
93) Di-n-octylphthalate	16.233	149	99456	9.72	ppm	99
94) Benzo[b]fluoranthene	16.516	252	82576	10.00	ppm	94
95) Benzo[k]fluoranthene	16.553	252	89615	11.25	ppm	97
96) Benzo[a]pyrene	17.018	252	82184	10.44	ppm	97
97) Indeno[1,2,3-cd]pyrene	18.685	276	65025	9.87	ppm	97
98) Dibenz[a,h]anthracene	18.738	278	65559	9.83	ppm	95
99) Benzo[g,h,i]perylene	19.016	276	73419	10.42	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

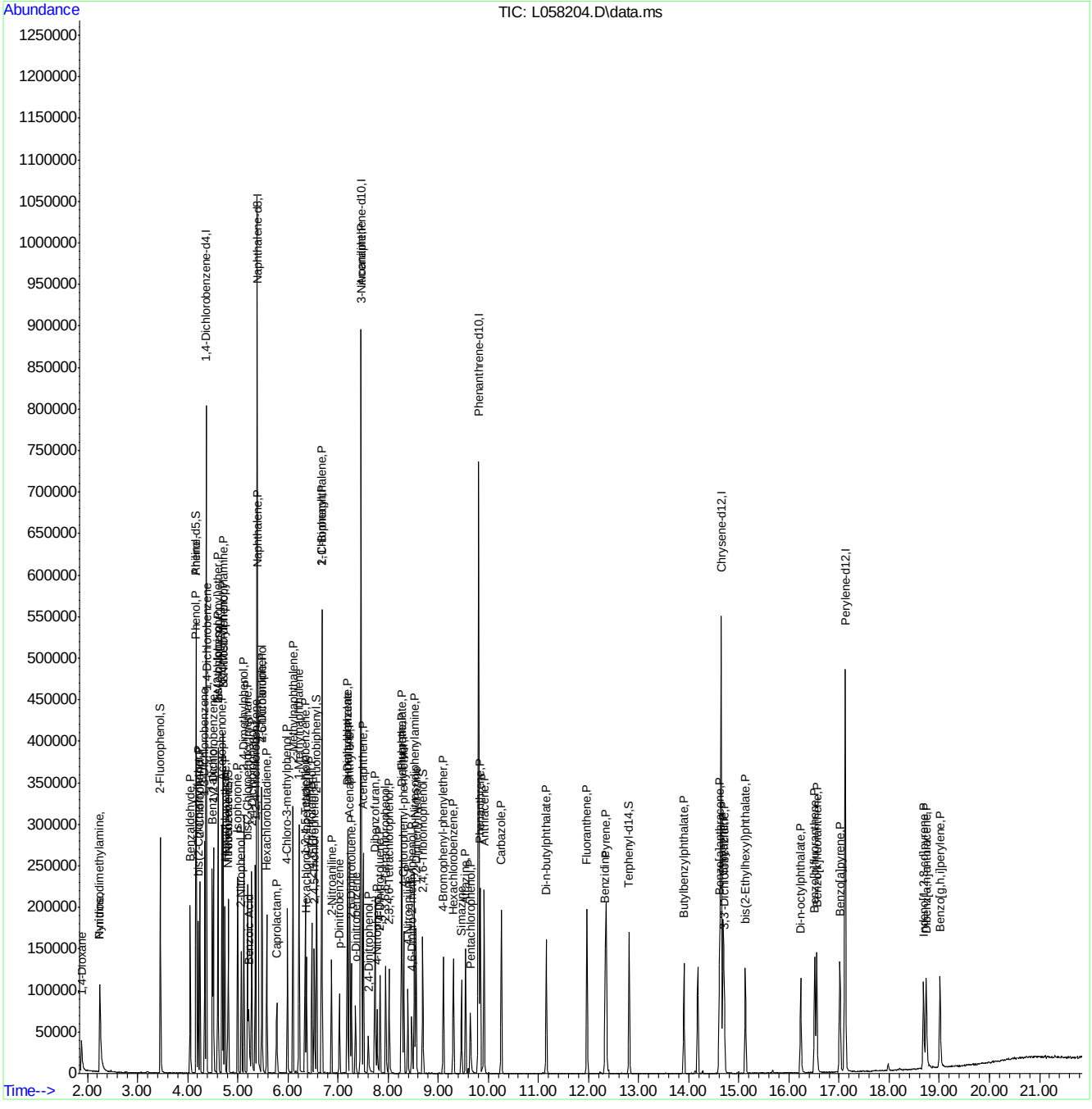
9.6.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	97368	40.00	ppm	0.00
22) Naphthalene-d8	5.384	136	390897	40.00	ppm	0.00
42) Acenaphthene-d10	7.462	164	207288	40.00	ppm	0.00
68) Phenanthrene-d10	9.806	188	322756	40.00	ppm	0.00
83) Chrysene-d12	14.651	240	273054	40.00	ppm	0.00
92) Perylene-d12	17.124	264	232294	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.450	112	190491	57.51	ppm	-0.02
Spiked Amount 100.000	Range 14 - 62		Recovery = 57.51%			
9) Phenol-d5	4.171	99	222835	65.38	ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 65.38%#			
23) Nitrobenzene-d5	4.802	82	107132	23.13	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 46.26%			
46) 2-Fluorobiphenyl	6.575	172	188602	25.82	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 51.64%			
72) 2,4,6-Tribromophenol	8.695	330	45773	53.01	ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 53.01%			
86) Terphenyl-d14	12.813	244	156928	27.73	ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 55.46%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.880	88	45664	29.94	ppm	98
3) N-nitrosodimethylamine	2.249	42	41422	27.39	ppm	97
4) Pyridine	2.238	79	111883	28.03	ppm	96
5) Benzaldehyde	4.049	106	72153	26.35	ppm	96
6) Aniline	4.161	93	153488	29.43	ppm	80
8) bis(2-Chloroethyl)ether	4.209	93	93798	27.09	ppm	98
10) Phenol	4.177	94	132238	29.68	ppm	99
11) 2-Chlorophenol	4.241	128	98154	27.36	ppm	99
12) 1,3-Dichlorobenzene	4.342	146	106799	27.62	ppm	98
13) 1,4-Dichlorobenzene	4.380	146	106136	28.14	ppm	98
14) 1,2-Dichlorobenzene	4.519	146	103428	28.62	ppm	99
15) Benzyl alcohol	4.497	108	71043	28.15	ppm	94
16) bis(2-chloroisopropyl)...	4.609	45	114374	27.80	ppm	88
17) 2-Methylphenol	4.604	108	93016	27.76	ppm	96
18) Acetophenone	4.684	105	130932	28.43	ppm	96
19) Hexachloroethane	4.743	117	41934	27.92	ppm	96
20) N-Nitroso-di-n-propyla...	4.711	70	68125	27.14	ppm	97
21) 3&4-Methylphenol	4.711	108	96084	28.14	ppm	98
24) Nitrobenzene	4.812	77	104705	23.38	ppm	95
25) Isophorone	4.999	82	182243	23.56	ppm	95
26) 2-Nitrophenol	5.074	139	56717	23.80	ppm	91
27) 2,4-Dimethylphenol	5.122	107	99220	23.48	ppm	99
28) bis(2-Chloroethoxy)met...	5.197	93	114615	23.75	ppm	96
29) Benzoic Acid	5.240	105	89983	21.16	ppm	96
30) 2,4-Dichlorophenol	5.282	162	81666	23.19	ppm	99
31) 1,2,4-Trichlorobenzene	5.352	180	88785	23.43	ppm	98
33) Naphthalene	5.400	128	253979	23.41	ppm	99
34) 4-Chloroaniline	5.480	127	120467	24.14	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.491	162	80423	23.33	ppm		98
36) Hexachlorobutadiene	5.582	225	45613	22.52	ppm		98
37) Caprolactam	5.801	113	31665	21.44	ppm		90
38) 4-Chloro-3-methylphenol	5.993	107	86217	23.10	ppm		96
39) 2-Methylnaphthalene	6.105	142	179323	23.55	ppm		98
40) 1-Methylnaphthalene	6.222	142	169568	24.48	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.345	216	84913	23.52	ppm		98
43) Hexachlorocyclopentadiene	6.372	237	46196	23.40	ppm		99
44) 2,4,6-Trichlorophenol	6.479	196	55540	24.90	ppm		100
45) 2,4,5-Trichlorophenol	6.527	196	57548	24.47	ppm		99
47) 1,1'-Biphenyl	6.682	154	197397	25.87	ppm		99
48) 2-Chloronaphthalene	6.676	162	158450	26.25	ppm		97
49) 2-Nitroaniline	6.874	65	51748	24.56	ppm		95
50) p-Dinitrobenzene	7.029	75	35515	24.50	ppm		92
51) Acenaphthylene	7.237	152	256268	26.62	ppm		98
52) Dimethylphthalate	7.195	163	179466	25.82	ppm		99
53) m-Dinitrobenzene	7.189	168	32581	24.66	ppm	#	74
54) 2,6-Dinitrotoluene	7.275	165	44002	25.32	ppm	#	63
55) o-Dinitrobenzene	7.355	50	23365	24.14	ppm		91
56) Acenaphthene	7.504	153	160533	26.41	ppm		97
57) 3-Nitroaniline	7.456	138	50850	24.63	ppm		94
58) 2,4-Dinitrophenol	7.606	184	25128	23.33	ppm		97
59) Dibenzofuran	7.745	168	222076	26.88	ppm		97
60) 2,4-Dinitrotoluene	7.846	165	57297	24.92	ppm		93
61) 4-Nitrophenol	7.782	109	23228	21.70	ppm		86
62) 2,3,5,6-Tetrachlorophenol	7.953	232	45857	24.48	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.022	232	43536	23.94	ppm		96
64) Fluorene	8.268	166	181187	26.52	ppm		99
65) 4-Chlorophenyl-phenyle...	8.316	204	83482	25.62	ppm		99
66) Diethylphthalate	8.284	149	167498	24.24	ppm		100
67) 4-Nitroaniline	8.407	138	48279	24.93	ppm		95
69) 4,6-Dinitro-2-methylph...	8.482	198	33526	25.58	ppm	#	47
70) n-Nitrosodiphenylamine	8.530	169	151825	31.30	ppm		99
71) 1,2-Diphenylhydrazine	8.567	77	179820	26.31	ppm		99
73) 4-Bromophenyl-phenylether	9.107	248	47571	26.07	ppm		93
74) Hexachlorobenzene	9.310	284	49741	26.53	ppm		93
75) Simazine	9.480	201	25463	25.03	ppm		96
76) Atrazine	9.555	200	46003	24.65	ppm		96
77) Pentachlorophenol	9.646	266	31000	23.36	ppm		94
78) Phenanthrene	9.844	178	221965	26.08	ppm		99
79) Anthracene	9.918	178	229322	26.57	ppm		97
80) Carbazole	10.266	167	227051	26.29	ppm		97
81) Di-n-butylphthalate	11.158	149	256995	26.22	ppm		99
82) Fluoranthene	11.975	202	231587	26.36	ppm		94
84) Benzidine	12.333	184	146788	32.01	ppm		99
85) Pyrene	12.359	202	227195	24.70	ppm		96
87) Butylbenzylphthalate	13.908	149	104389	24.05	ppm		99
88) 3,3'-Dichlorobenzidine	14.709	252	76740	26.78	ppm		99
89) Benzo[a]anthracene	14.619	228	195138	24.98	ppm		99
90) Chrysene	14.693	228	174118	25.34	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.131	149	132160	23.87 ppm	97
93) Di-n-octylphthalate	16.237	149	219016	25.10 ppm	99
94) Benzo[b]fluoranthene	16.520	252	181585	25.79 ppm	95
95) Benzo[k]fluoranthene	16.563	252	172103	25.32 ppm	97
96) Benzo[a]pyrene	17.022	252	171397	25.52 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.689	276	135893	24.19 ppm	97
98) Dibenz[a,h]anthracene	18.742	278	136469	23.99 ppm	94
99) Benzo[g,h,i]perylene	19.025	276	140974	23.46 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

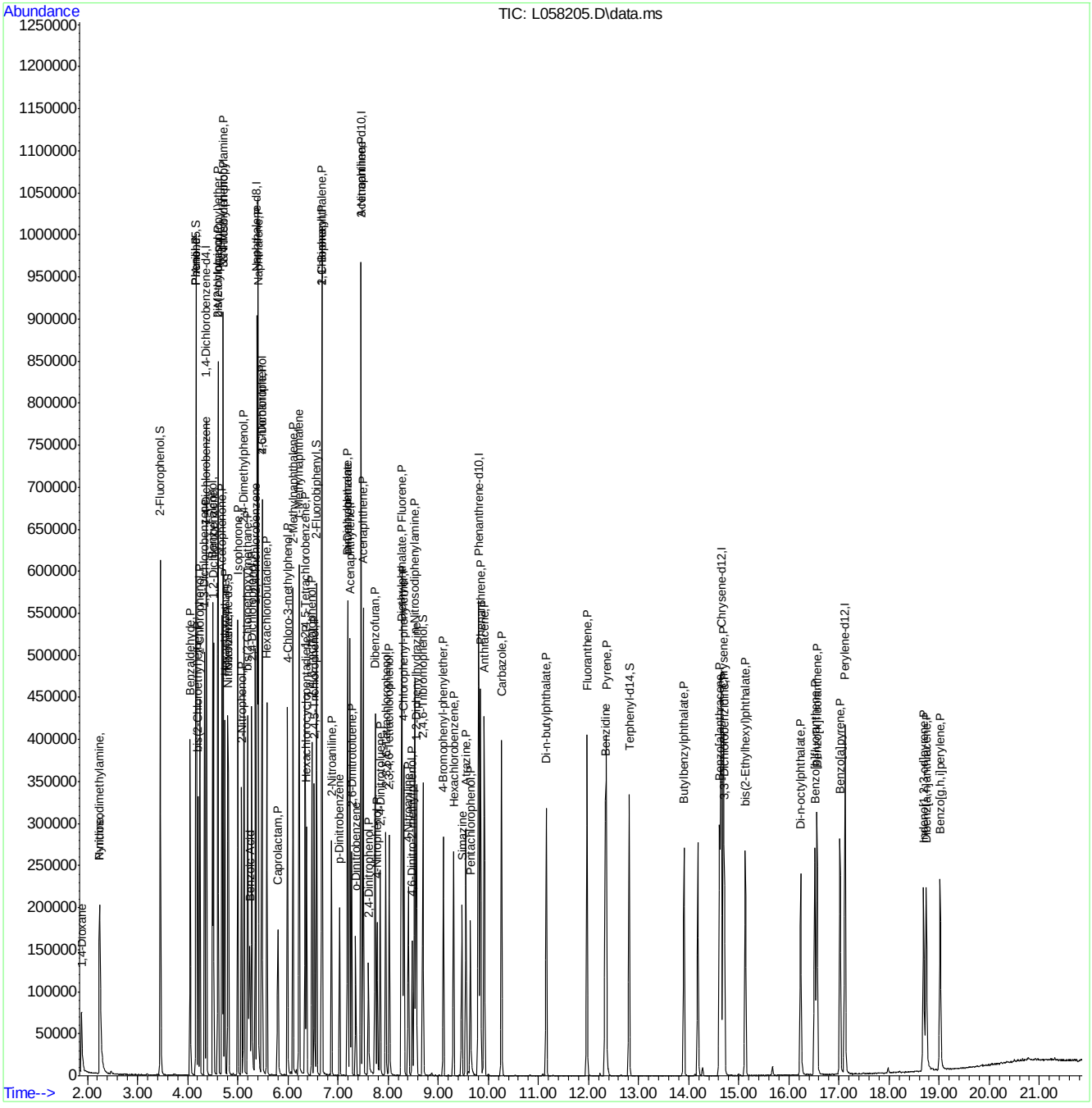
9.6.3

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	111899	40.00 ppm	0.00
22) Naphthalene-d8	5.385	136	420277	40.00 ppm	0.00
42) Acenaphthene-d10	7.468	164	234288	40.00 ppm	0.00
68) Phenanthrene-d10	9.813	188	366100	40.00 ppm	0.00
83) Chrysene-d12	14.657	240	302086	40.00 ppm	0.00
92) Perylene-d12	17.130	264	249611	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	3.452	112	386841	101.62 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 101.62%#		
9) Phenol-d5	4.178	99	429365	118.55 ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 118.55%#		
23) Nitrobenzene-d5	4.803	82	221821	44.54 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 89.08%		
46) 2-Fluorobiphenyl	6.582	172	381815	46.25 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 92.50%		
72) 2,4,6-Tribromophenol	8.707	330	99986	102.08 ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 102.08%		
86) Terphenyl-d14	12.820	244	332363	53.09 ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 106.18%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.871	88	102234	58.33 ppm	95
3) N-nitrosodimethylamine	2.245	42	89468	51.48 ppm	99
4) Pyridine	2.229	79	240307	52.38 ppm	99
5) Benzaldehyde	4.050	106	145931	57.56 ppm	96
6) Aniline	4.162	93	316429	58.06 ppm	83
8) bis(2-Chloroethyl)ether	4.216	93	196939	49.50 ppm	90
10) Phenol	4.184	94	265633	56.44 ppm	97
11) 2-Chlorophenol	4.248	128	205482	49.85 ppm	95
12) 1,3-Dichlorobenzene	4.344	146	222625	50.10 ppm	98
13) 1,4-Dichlorobenzene	4.381	146	216334	49.91 ppm	97
14) 1,2-Dichlorobenzene	4.520	146	206658	49.77 ppm	98
15) Benzyl alcohol	4.499	108	150049	51.74 ppm	98
16) bis(2-chloroisopropyl)...	4.611	45	226481	51.41 ppm	81
17) 2-Methylphenol	4.605	108	191515	49.74 ppm	97
18) Acetophenone	4.691	105	271679	51.33 ppm	97
19) Hexachloroethane	4.744	117	88561	51.31 ppm	95
20) N-Nitroso-di-n-propyla...	4.718	70	139593	48.39 ppm	94
21) 3&4-Methylphenol	4.718	108	196897	50.17 ppm	97
24) Nitrobenzene	4.819	77	217689	45.21 ppm	99
25) Isophorone	5.006	82	380299	46.71 ppm	99
26) 2-Nitrophenol	5.075	139	121389	47.38 ppm	98
27) 2,4-Dimethylphenol	5.129	107	209425	46.10 ppm	99
28) bis(2-Chloroethoxy)met...	5.204	93	233811	45.07 ppm	98
29) Benzoic Acid	5.278	105	184717	40.40 ppm	94
30) 2,4-Dichlorophenol	5.284	162	171685	45.35 ppm	100
31) 1,2,4-Trichlorobenzene	5.353	180	184823	45.37 ppm	96
33) Naphthalene	5.407	128	492718	45.20 ppm	99
34) 4-Chloroaniline	5.487	127	247897	46.19 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.492	162	168682	45.52	ppm		97
36) Hexachlorobutadiene	5.583	225	98359	45.17	ppm		97
37) Caprolactam	5.839	113	72229	45.48	ppm		94
38) 4-Chloro-3-methylphenol	6.000	107	185262	46.17	ppm	#	30
39) 2-Methylnaphthalene	6.106	142	361395	47.18	ppm		100
40) 1-Methylnaphthalene	6.229	142	340785	45.76	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.347	216	176877	45.57	ppm		99
43) Hexachlorocyclopentadiene	6.379	237	108295	48.54	ppm		99
44) 2,4,6-Trichlorophenol	6.486	196	119121	47.25	ppm		98
45) 2,4,5-Trichlorophenol	6.534	196	124322	46.78	ppm		99
47) 1,1'-Biphenyl	6.683	154	390151	48.44	ppm		98
48) 2-Chloronaphthalene	6.683	162	322946	47.34	ppm		94
49) 2-Nitroaniline	6.881	65	113828	47.79	ppm		92
50) p-Dinitrobenzene	7.041	75	81002	49.44	ppm		96
51) Acenaphthylene	7.244	152	519346	47.74	ppm		98
52) Dimethylphthalate	7.207	163	362374	46.12	ppm		99
53) m-Dinitrobenzene	7.201	168	72012	48.22	ppm	#	77
54) 2,6-Dinitrotoluene	7.281	165	94983	48.36	ppm	#	68
55) o-Dinitrobenzene	7.372	50	51871	47.42	ppm		96
56) Acenaphthene	7.516	153	327257	47.64	ppm		100
57) 3-Nitroaniline	7.474	138	109078	46.74	ppm		98
58) 2,4-Dinitrophenol	7.618	184	63851	49.60	ppm		96
59) Dibenzofuran	7.751	168	453583	48.57	ppm		99
60) 2,4-Dinitrotoluene	7.858	165	124478	47.91	ppm		95
61) 4-Nitrophenol	7.794	109	51763	42.79	ppm		95
62) 2,3,5,6-Tetrachlorophenol	7.960	232	102514	48.41	ppm		96
63) 2,3,4,6-Tetrachlorophenol	8.029	232	97304	47.33	ppm		97
64) Fluorene	8.275	166	372990	48.30	ppm		100
65) 4-Chlorophenyl-phenyle...	8.323	204	172670	46.88	ppm		98
66) Diethylphthalate	8.296	149	349082	44.70	ppm		99
67) 4-Nitroaniline	8.430	138	109266	49.92	ppm		92
69) 4,6-Dinitro-2-methylph...	8.499	198	78626	52.90	ppm		66
70) n-Nitrosodiphenylamine	8.542	169	312442	56.79	ppm		99
71) 1,2-Diphenylhydrazine	8.574	77	406967	52.49	ppm		99
73) 4-Bromophenyl-phenylether	9.113	248	101703	49.14	ppm		94
74) Hexachlorobenzene	9.316	284	107789	50.69	ppm		93
75) Simazine	9.503	201	56477	48.94	ppm		97
76) Atrazine	9.578	200	97448	46.03	ppm		98
77) Pentachlorophenol	9.653	266	76324	50.70	ppm		98
78) Phenanthrene	9.856	178	453806	50.11	ppm		99
79) Anthracene	9.931	178	472615	48.27	ppm		98
80) Carbazole	10.272	167	471209	48.10	ppm		100
81) Di-n-butylphthalate	11.164	149	531682	47.82	ppm		99
82) Fluoranthene	11.982	202	472548	47.41	ppm		99
84) Benzidine	12.345	184	295309	58.22	ppm		98
85) Pyrene	12.366	202	460492	45.25	ppm		100
87) Butylbenzylphthalate	13.915	149	225786	47.02	ppm		96
88) 3,3'-Dichlorobenzidine	14.721	252	159926	50.44	ppm		98
89) Benzo[a]anthracene	14.625	228	407219	47.11	ppm		100
90) Chrysene	14.705	228	355066	46.71	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.133	149	290701	47.46 ppm	100
93) Di-n-octylphthalate	16.244	149	463631	49.45 ppm	99
94) Benzo[b]fluoranthene	16.532	252	355938	47.05 ppm	94
95) Benzo[k]fluoranthene	16.575	252	353683m	48.43 ppm	
96) Benzo[a]pyrene	17.034	252	345393	47.87 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.701	276	279590	46.32 ppm	97
98) Dibenz[a,h]anthracene	18.754	278	277015	45.33 ppm	94
99) Benzo[g,h,i]perylene	19.037	276	295115	45.71 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

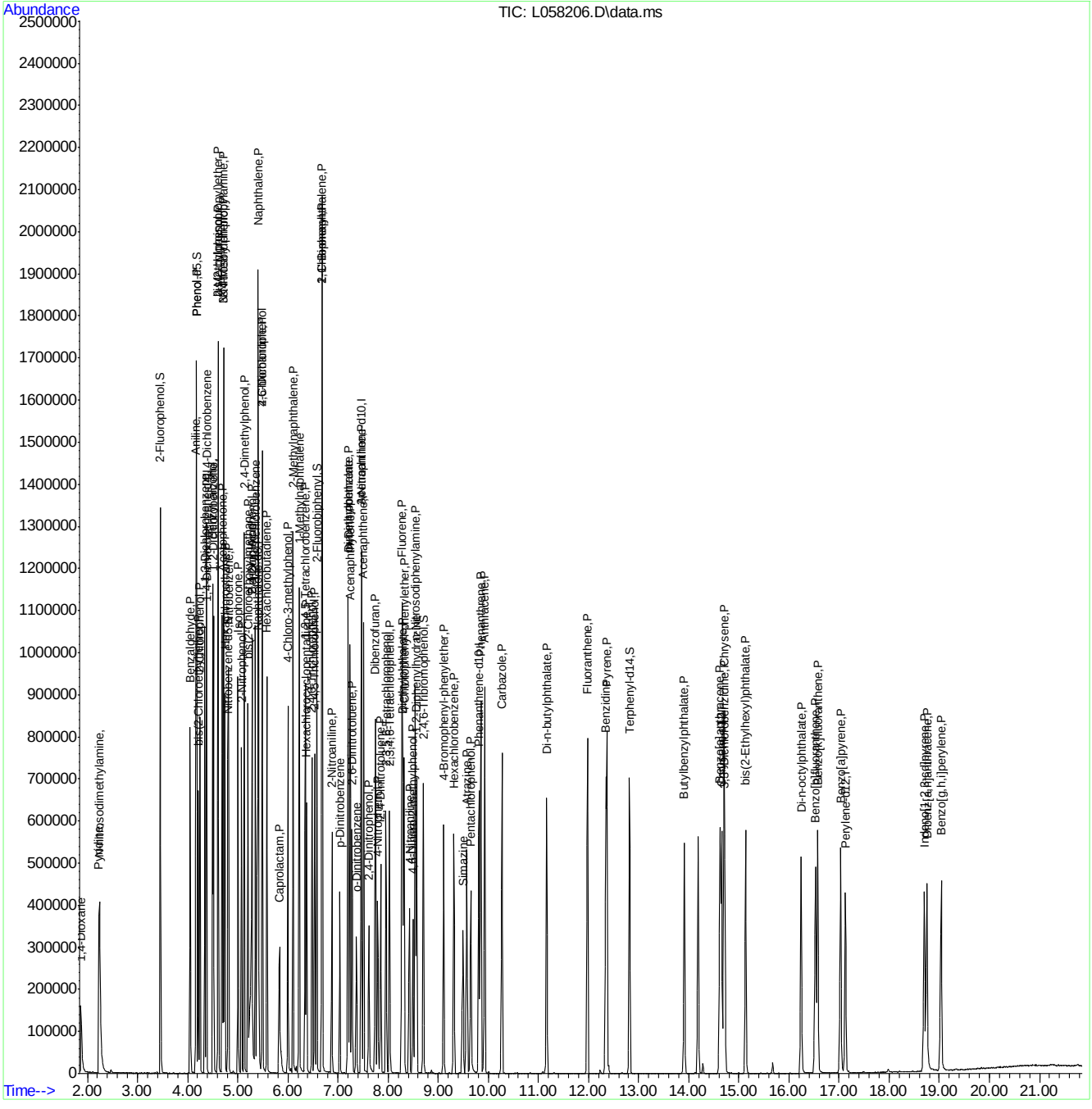
9.6.4

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

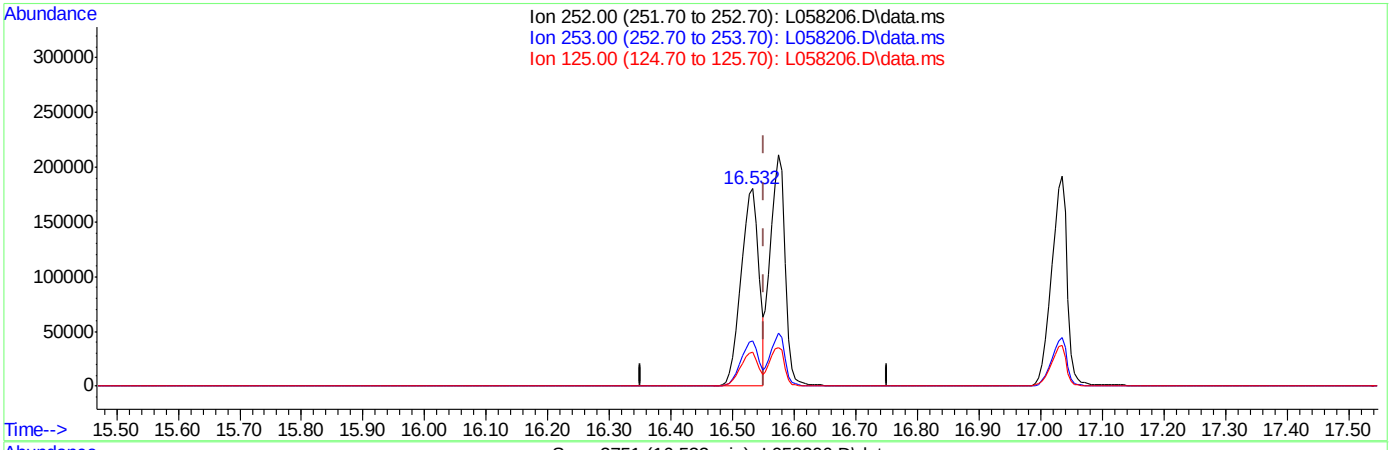
Sample Number:	SL2973-ICC2973	**Method:**	SW846 8270D
Lab FileID:	L058206.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 15:19	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

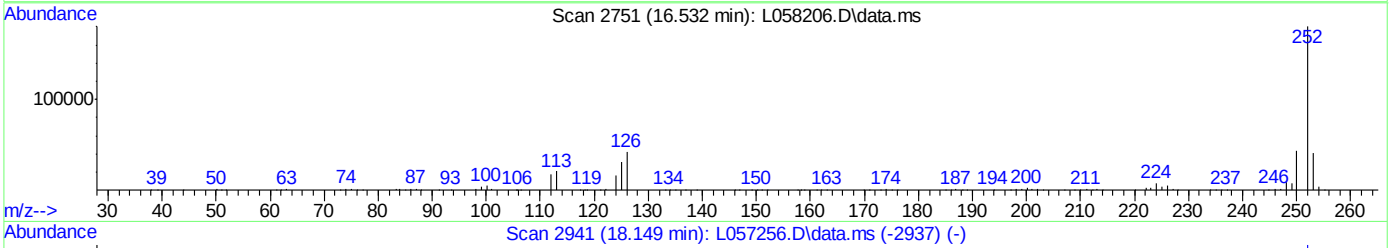
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		16.57	Overlapping peak

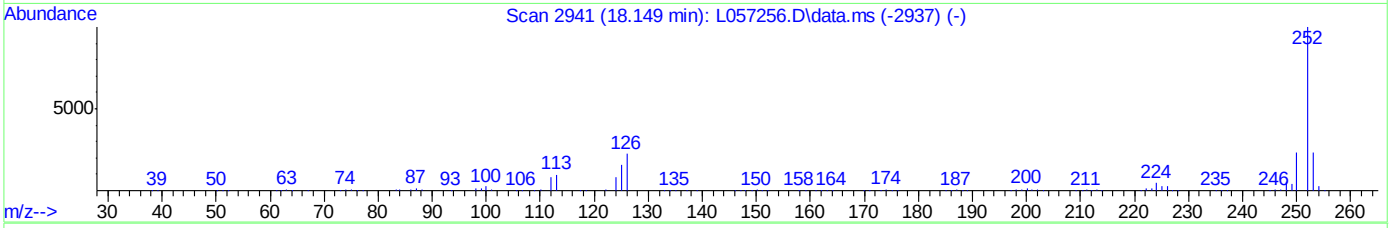
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:35:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058206.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.532min (-0.020) 48.73ppm

response 355938

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.06
125.00	15.90	17.26
0.00	0.00	0.00

Quantitation Report (Qedit)

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Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On    : 13 Jul 2012   3:19 pm
Operator  : nancyf
Sample    : icc2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jul 16 08:35:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration
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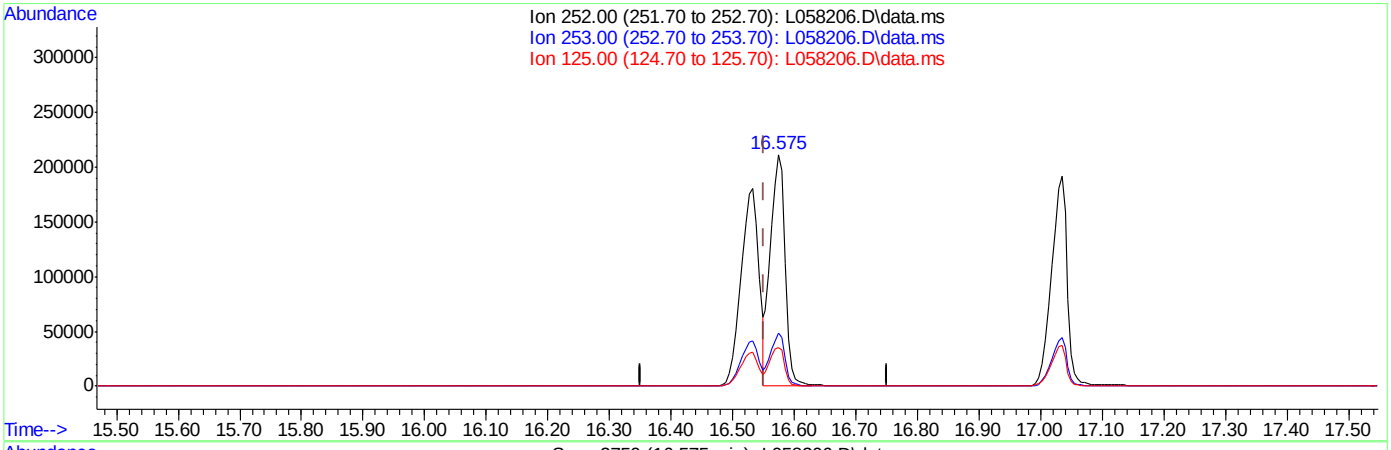
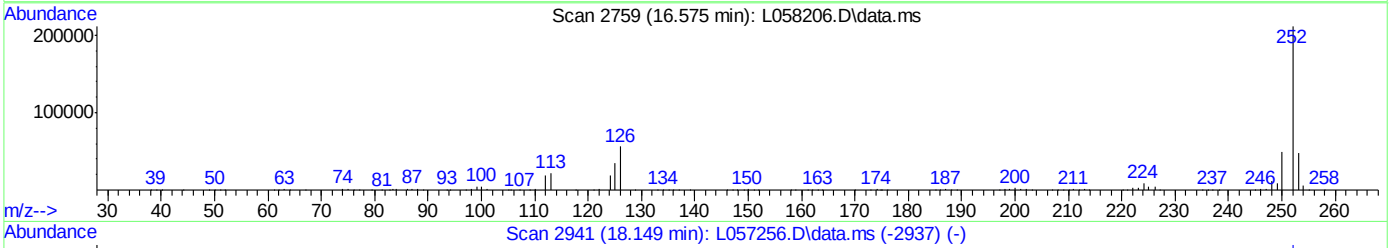
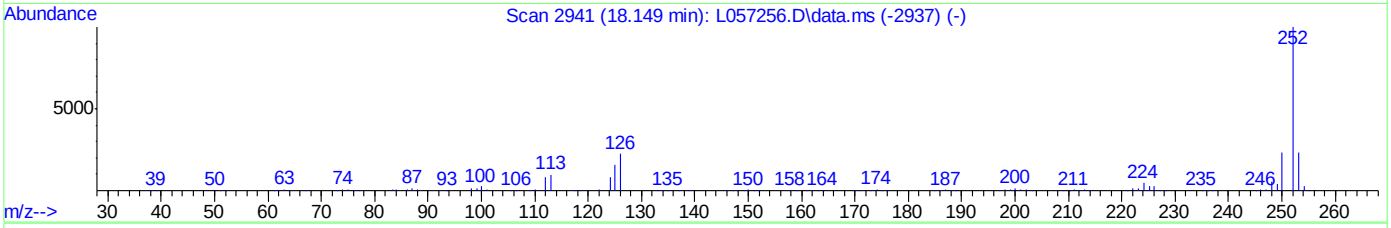






TIC: L058206.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.575min (+0.022) 48.43ppm m

response 353683

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	22.91
125.00	15.90	16.54
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	111276	40.00	ppm	0.00
22) Naphthalene-d8	5.390	136	410708	40.00	ppm	0.00
42) Acenaphthene-d10	7.468	164	232448	40.00	ppm	0.00
68) Phenanthrene-d10	9.812	188	375600	40.00	ppm	0.00
83) Chrysene-d12	14.657	240	306849	40.00	ppm	0.00
92) Perylene-d12	17.130	264	253143	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.451	112	448272	118.41	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 118.41%#			
9) Phenol-d5	4.178	99	498981	144.22	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 144.22%#			
23) Nitrobenzene-d5	4.808	82	262244	53.89	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 107.78%			
46) 2-Fluorobiphenyl	6.581	172	446577	54.52	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 109.04%#			
72) 2,4,6-Tribromophenol	8.707	330	119161	118.58	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 118.58%#			
86) Terphenyl-d14	12.819	244	392262	61.68	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 123.36%#			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.865	88	120530	69.16	ppm		99
3) N-nitrosodimethylamine	2.244	42	106606	61.69	ppm		100
4) Pyridine	2.228	79	280005	61.37	ppm		99
5) Benzaldehyde	4.049	106	159589	70.08	ppm		98
6) Aniline	4.162	93	369560	71.56	ppm		71
8) bis(2-Chloroethyl)ether	4.215	93	230314	58.21	ppm		89
10) Phenol	4.188	94	313385	70.10	ppm		97
11) 2-Chlorophenol	4.247	128	241034	58.80	ppm		96
12) 1,3-Dichlorobenzene	4.343	146	255617	57.84	ppm		98
13) 1,4-Dichlorobenzene	4.381	146	251388	58.32	ppm		97
14) 1,2-Dichlorobenzene	4.519	146	242024	58.61	ppm		97
15) Benzyl alcohol	4.503	108	175806	60.96	ppm		94
16) bis(2-chloroisopropyl)...	4.610	45	260097	61.24	ppm	#	73
17) 2-Methylphenol	4.610	108	223429	58.35	ppm		99
18) Acetophenone	4.690	105	314402	59.73	ppm		99
19) Hexachloroethane	4.744	117	105359	61.39	ppm		98
20) N-Nitroso-di-n-propyla...	4.722	70	165021	57.52	ppm		97
21) 3&4-Methylphenol	4.717	108	233221	59.76	ppm		98
24) Nitrobenzene	4.819	77	253435	53.86	ppm		99
25) Isophorone	5.011	82	454852	57.77	ppm		99
26) 2-Nitrophenol	5.075	139	145316	58.04	ppm		97
27) 2,4-Dimethylphenol	5.128	107	243502	54.85	ppm		98
28) bis(2-Chloroethoxy)met...	5.203	93	277821	54.80	ppm		99
29) Benzoic Acid	5.289	105	229263	51.31	ppm		98
30) 2,4-Dichlorophenol	5.289	162	200751	54.26	ppm		98
31) 1,2,4-Trichlorobenzene	5.353	180	216975	54.50	ppm		97
33) Naphthalene	5.406	128	565073	54.73	ppm		97
34) 4-Chloroaniline	5.486	127	290394	55.37	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.497	162	199326	55.04	ppm		97
36) Hexachlorobutadiene	5.582	225	116273	54.64	ppm		97
37) Caprolactam	5.844	113	85190	54.89	ppm		92
38) 4-Chloro-3-methylphenol	6.004	107	219623	56.01	ppm	#	46
39) 2-Methylnaphthalene	6.106	142	421375	58.14	ppm		100
40) 1-Methylnaphthalene	6.229	142	401397	55.15	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.351	216	208350	54.93	ppm		99
43) Hexachlorocyclopentadiene	6.378	237	128814	58.19	ppm		99
44) 2,4,6-Trichlorophenol	6.485	196	140674	56.24	ppm		99
45) 2,4,5-Trichlorophenol	6.533	196	148675	56.38	ppm		99
47) 1,1'-Biphenyl	6.688	154	434798	55.67	ppm		96
48) 2-Chloronaphthalene	6.688	162	369049	54.52	ppm		94
49) 2-Nitroaniline	6.880	65	135404	57.30	ppm		96
50) p-Dinitrobenzene	7.040	75	96845	59.58	ppm		95
51) Acenaphthylene	7.243	152	604714	56.02	ppm		97
52) Dimethylphthalate	7.206	163	422182	54.16	ppm		99
53) m-Dinitrobenzene	7.201	168	85703	57.84	ppm	#	81
54) 2,6-Dinitrotoluene	7.286	165	114408	58.71	ppm	#	65
55) o-Dinitrobenzene	7.372	50	63044	58.10	ppm		90
56) Acenaphthene	7.516	153	387314	56.83	ppm		99
57) 3-Nitroaniline	7.478	138	131340	56.72	ppm		97
58) 2,4-Dinitrophenol	7.623	184	80050	61.20	ppm		98
59) Dibenzofuran	7.751	168	525651	56.73	ppm		95
60) 2,4-Dinitrotoluene	7.863	165	150760	58.48	ppm		95
61) 4-Nitrophenol	7.799	109	65186	54.31	ppm		97
62) 2,3,5,6-Tetrachlorophenol	7.959	232	121458	57.81	ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.028	232	116721	57.23	ppm		100
64) Fluorene	8.280	166	435070	56.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.322	204	202890	55.53	ppm		95
66) Diethylphthalate	8.296	149	409659	52.88	ppm		99
67) 4-Nitroaniline	8.434	138	128570	59.20	ppm		97
69) 4,6-Dinitro-2-methylph...	8.504	198	95266	62.47	ppm		97
70) n-Nitrosodiphenylamine	8.547	169	375419	66.51	ppm		97
71) 1,2-Diphenylhydrazine	8.573	77	475840	59.82	ppm		100
73) 4-Bromophenyl-phenylether	9.113	248	119263	56.17	ppm		97
74) Hexachlorobenzene	9.316	284	128402	58.85	ppm		94
75) Simazine	9.508	201	67327	56.86	ppm		98
76) Atrazine	9.583	200	115238	53.05	ppm		98
77) Pentachlorophenol	9.652	266	92240	59.72	ppm		96
78) Phenanthrene	9.855	178	547027	60.62	ppm		99
79) Anthracene	9.935	178	552609	55.02	ppm		98
80) Carbazole	10.277	167	560859	55.81	ppm		99
81) Di-n-butylphthalate	11.169	149	640154	56.12	ppm		100
82) Fluoranthene	11.986	202	567132	55.46	ppm		99
84) Benzidine	12.349	184	345555	67.07	ppm		99
85) Pyrene	12.371	202	554154	53.61	ppm		100
87) Butylbenzylphthalate	13.914	149	272585	55.89	ppm		100
88) 3,3'-Dichlorobenzidine	14.726	252	193248	60.00	ppm		99
89) Benzo[a]anthracene	14.630	228	489040	55.70	ppm		99
90) Chrysene	14.705	228	430212	55.72	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.137	149	353240	56.77 ppm	98
93) Di-n-octylphthalate	16.243	149	569786	59.93 ppm	99
94) Benzo[b]fluoranthene	16.537	252	443534	57.81 ppm	95
95) Benzo[k]fluoranthene	16.580	252	421788m	56.94 ppm	
96) Benzo[a]pyrene	17.039	252	418328	57.17 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.705	276	343601	56.13 ppm	97
98) Dibenz[a,h]anthracene	18.759	278	349554	56.40 ppm	95
99) Benzo[g,h,i]perylene	19.042	276	357290	54.56 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

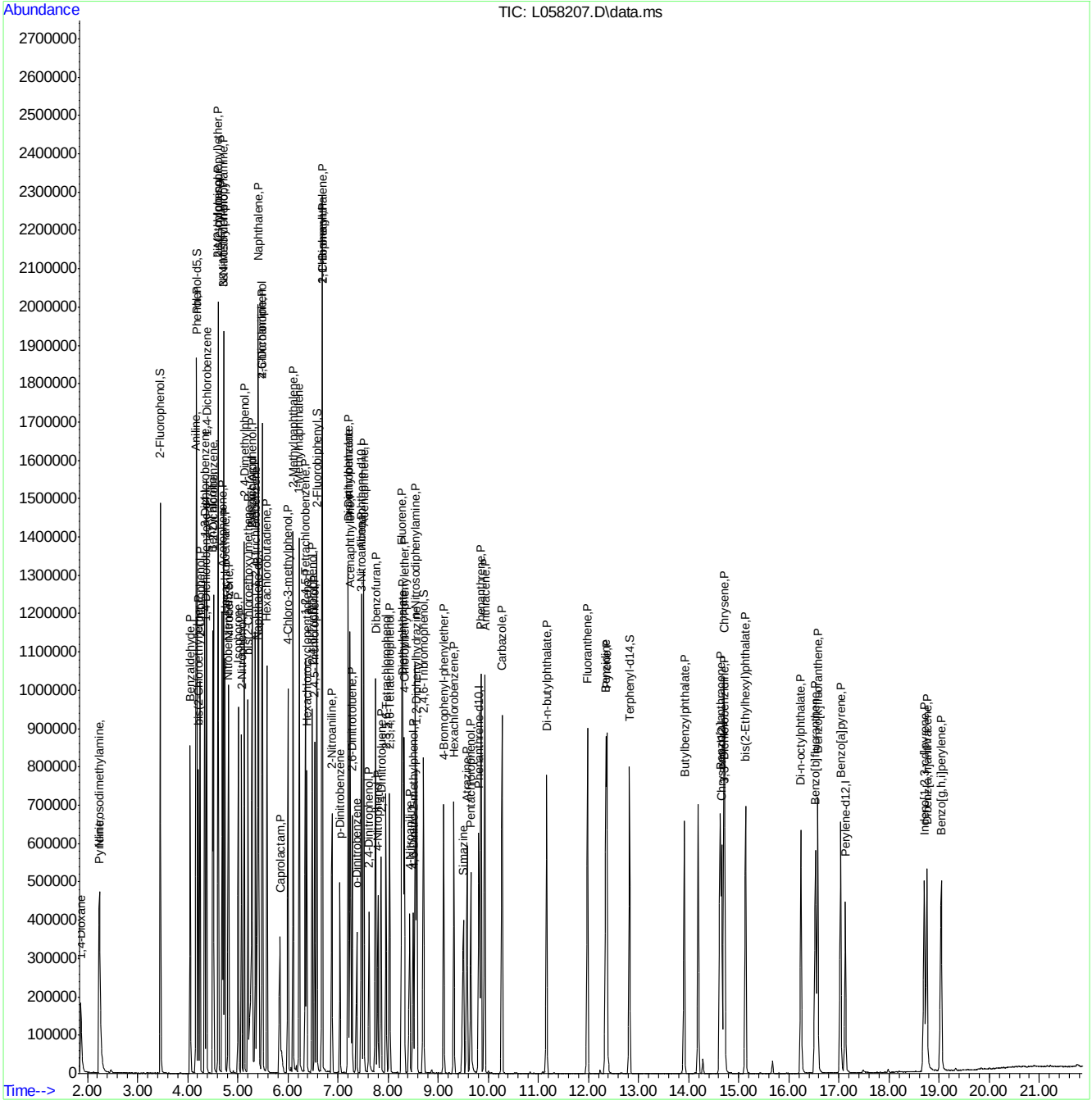
9.6.5

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

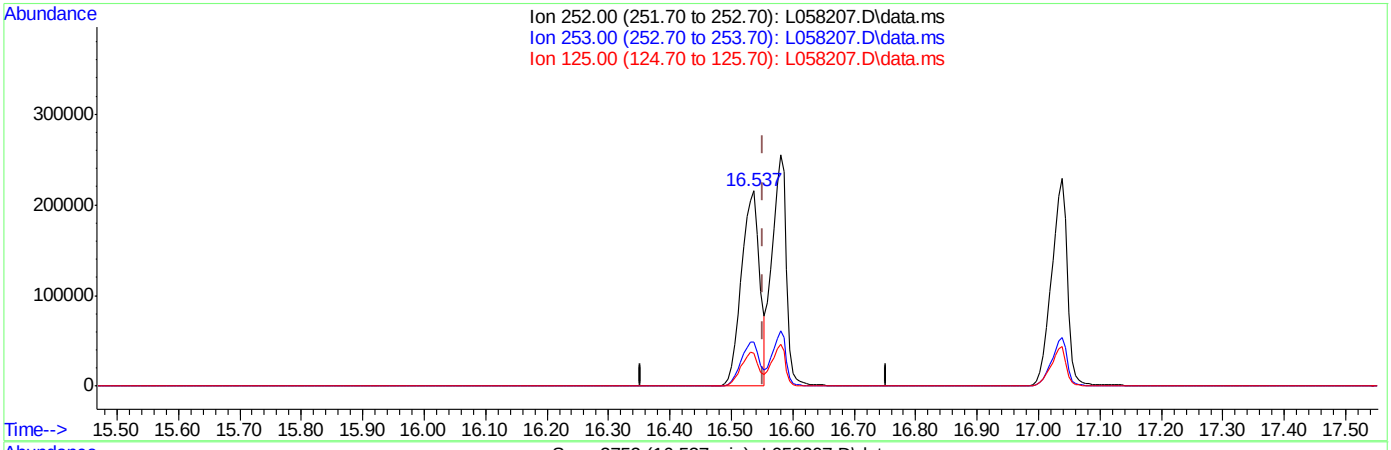
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058207.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 15:49	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

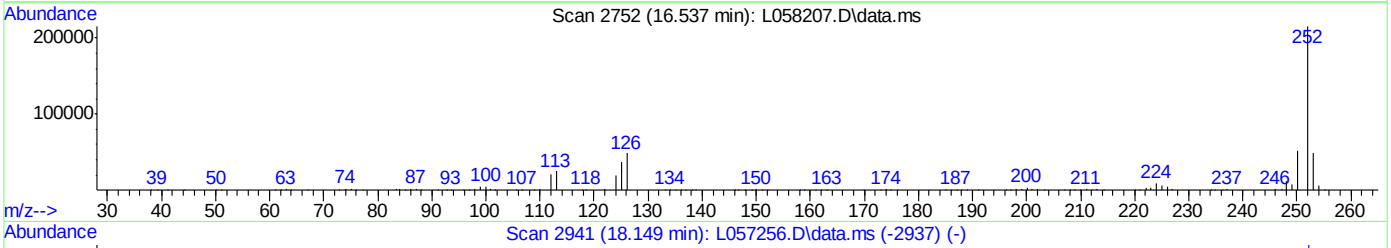
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		16.58	Overlapping peak

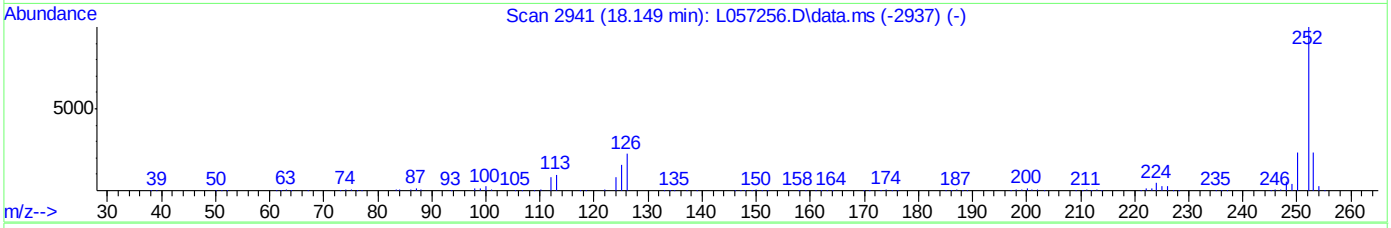
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:37:13 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058207.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.537min (-0.016) 59.88ppm

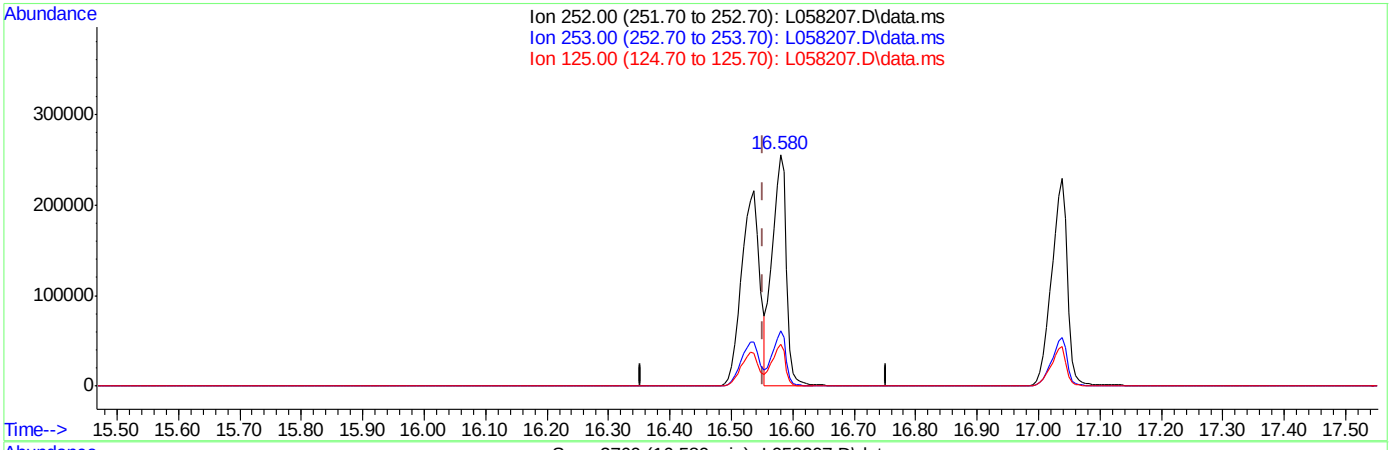
response 443534

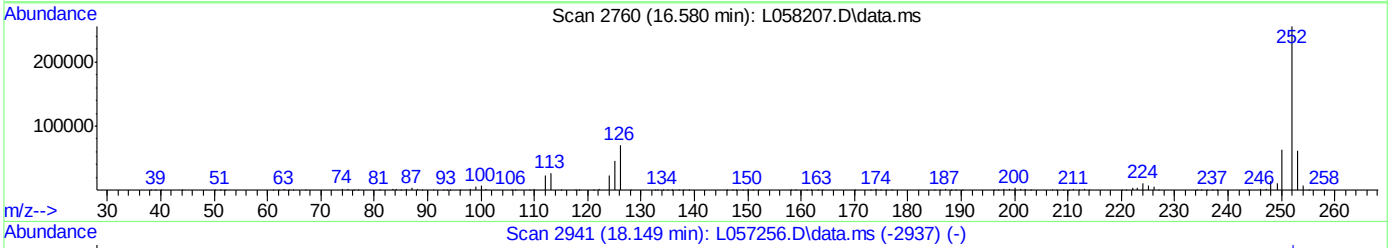
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	22.81
125.00	15.90	16.93
0.00	0.00	0.00

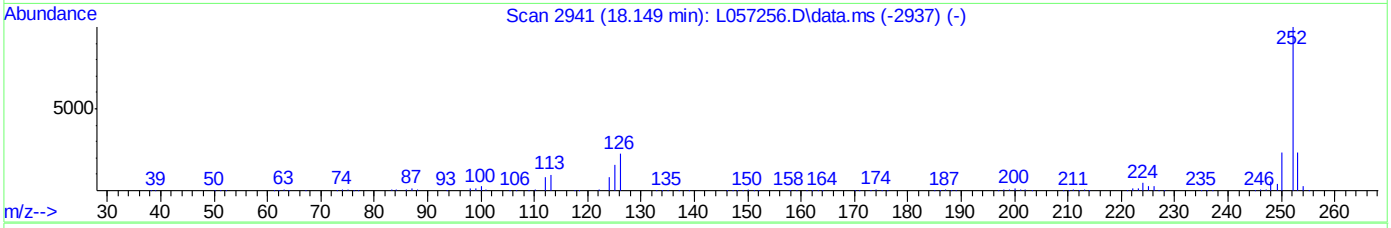
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:37:13 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058207.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.580min (+0.027) 56.94ppm m

response 421788

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	24.10
125.00	15.90	18.09
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	110422	40.00	ppm	0.00
22) Naphthalene-d8	5.390	136	406410	40.00	ppm	0.00
42) Acenaphthene-d10	7.468	164	231755	40.00	ppm	0.00
68) Phenanthrene-d10	9.818	188	362540	40.00	ppm	0.00
83) Chrysene-d12	14.657	240	293075	40.00	ppm	0.00
92) Perylene-d12	17.129	264	241483	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.451	112	528350	140.64	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 140.64%#			
9) Phenol-d5	4.177	99	589057	182.84	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 182.84%#			
23) Nitrobenzene-d5	4.808	82	317173	65.87	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 131.74%#			
46) 2-Fluorobiphenyl	6.581	172	524618	64.24	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 128.48%#			
72) 2,4,6-Tribromophenol	8.712	330	142633	147.05	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 147.05%#			
86) Terphenyl-d14	12.825	244	463354	76.29	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 152.58%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.865	88	144810	83.73	ppm	99
3) N-nitrosodimethylamine	2.239	42	126666	73.86	ppm	98
4) Pyridine	2.223	79	351214	77.57	ppm	100
5) Benzaldehyde	4.055	106	177554	Below Cal		98
6) Aniline	4.167	93	439270	93.04	ppm	68
8) bis(2-Chloroethyl)ether	4.215	93	277484	70.67	ppm	95
10) Phenol	4.188	94	370525	89.50	ppm	98
11) 2-Chlorophenol	4.247	128	293168	72.07	ppm	96
12) 1,3-Dichlorobenzene	4.343	146	305913	69.76	ppm	97
13) 1,4-Dichlorobenzene	4.380	146	297563	69.57	ppm	96
14) 1,2-Dichlorobenzene	4.519	146	289627	70.68	ppm	96
15) Benzyl alcohol	4.503	108	209754	73.29	ppm	96
16) bis(2-chloroisopropyl)...	4.610	45	301152	74.66	ppm #	65
17) 2-Methylphenol	4.610	108	264206	69.53	ppm	97
18) Acetophenone	4.695	105	387543	74.20	ppm	99
19) Hexachloroethane	4.744	117	127606	74.93	ppm	98
20) N-Nitroso-di-n-propyla...	4.722	70	201059	70.62	ppm	95
21) 3&4-Methylphenol	4.717	108	277477	71.65	ppm	98
24) Nitrobenzene	4.824	77	300058	64.44	ppm	94
25) Isophorone	5.011	82	559551	72.85	ppm	99
26) 2-Nitrophenol	5.080	139	172302	69.54	ppm	97
27) 2,4-Dimethylphenol	5.133	107	293270	66.76	ppm	98
28) bis(2-Chloroethoxy)met...	5.208	93	333696	66.52	ppm	97
29) Benzoic Acid	5.299	105	301812	68.26	ppm	95
30) 2,4-Dichlorophenol	5.288	162	238314	65.10	ppm	97
31) 1,2,4-Trichlorobenzene	5.352	180	259916	65.98	ppm	97
33) Naphthalene	5.406	128	666858	68.36	ppm	96
34) 4-Chloroaniline	5.491	127	343813	66.25	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.497	162	237765	66.35	ppm		95
36) Hexachlorobutadiene	5.582	225	136749	64.95	ppm		99
37) Caprolactam	5.854	113	106214m	69.16	ppm		
38) 4-Chloro-3-methylphenol	6.009	107	264330	68.13	ppm		96
39) 2-Methylnaphthalene	6.106	142	494079	71.85	ppm		99
40) 1-Methylnaphthalene	6.228	142	470926	65.39	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.351	216	252075	67.16	ppm		98
43) Hexachlorocyclopentadiene	6.378	237	159313	72.18	ppm		98
44) 2,4,6-Trichlorophenol	6.485	196	170909	68.54	ppm		100
45) 2,4,5-Trichlorophenol	6.538	196	177265	67.42	ppm		99
47) 1,1'-Biphenyl	6.688	154	517760	69.61	ppm		96
48) 2-Chloronaphthalene	6.688	162	445268	65.98	ppm		93
49) 2-Nitroaniline	6.885	65	166007	70.46	ppm		97
50) p-Dinitrobenzene	7.046	75	118648	73.21	ppm		97
51) Acenaphthylene	7.249	152	722264	67.11	ppm		96
52) Dimethylphthalate	7.211	163	498254	64.11	ppm		98
53) m-Dinitrobenzene	7.206	168	105654	71.51	ppm	#	78
54) 2,6-Dinitrotoluene	7.291	165	138544	71.31	ppm	#	63
55) o-Dinitrobenzene	7.377	50	76254	70.48	ppm		90
56) Acenaphthene	7.521	153	456010	67.10	ppm		98
57) 3-Nitroaniline	7.478	138	160795	69.65	ppm		97
58) 2,4-Dinitrophenol	7.628	184	101335	75.52	ppm		96
59) Dibenzofuran	7.756	168	627027	67.88	ppm		97
60) 2,4-Dinitrotoluene	7.868	165	182742	71.10	ppm		87
61) 4-Nitrophenol	7.804	109	78795	65.85	ppm		95
62) 2,3,5,6-Tetrachlorophenol	7.964	232	147554	70.44	ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.034	232	140354	69.02	ppm		97
64) Fluorene	8.285	166	517790	67.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.327	204	243921	66.96	ppm		98
66) Diethylphthalate	8.301	149	485059	62.79	ppm		98
67) 4-Nitroaniline	8.445	138	157591	72.78	ppm		96
69) 4,6-Dinitro-2-methylph...	8.509	198	117447	79.79	ppm		99
70) n-Nitrosodiphenylamine	8.552	169	443043	81.32	ppm		95
71) 1,2-Diphenylhydrazine	8.578	77	565934	73.71	ppm		99
73) 4-Bromophenyl-phenylether	9.118	248	145466	70.97	ppm		94
74) Hexachlorobenzene	9.321	284	155762	73.97	ppm		94
75) Simazine	9.518	201	81467	71.28	ppm		98
76) Atrazine	9.588	200	141465	67.47	ppm		96
77) Pentachlorophenol	9.657	266	112010	75.14	ppm		95
78) Phenanthrene	9.860	178	640701	77.16	ppm		97
79) Anthracene	9.940	178	656194	67.68	ppm		98
80) Carbazole	10.282	167	656000	67.62	ppm		98
81) Di-n-butylphthalate	11.169	149	743934	67.57	ppm		99
82) Fluoranthene	11.986	202	662518	67.12	ppm		99
84) Benzidine	12.349	184	377104	76.63	ppm		99
85) Pyrene	12.376	202	647193	65.56	ppm		99
87) Butylbenzylphthalate	13.919	149	325479	69.87	ppm		97
88) 3,3'-Dichlorobenzidine	14.726	252	222327	72.28	ppm		98
89) Benzo[a]anthracene	14.635	228	578323	68.96	ppm		98
90) Chrysene	14.710	228	502705	68.17	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

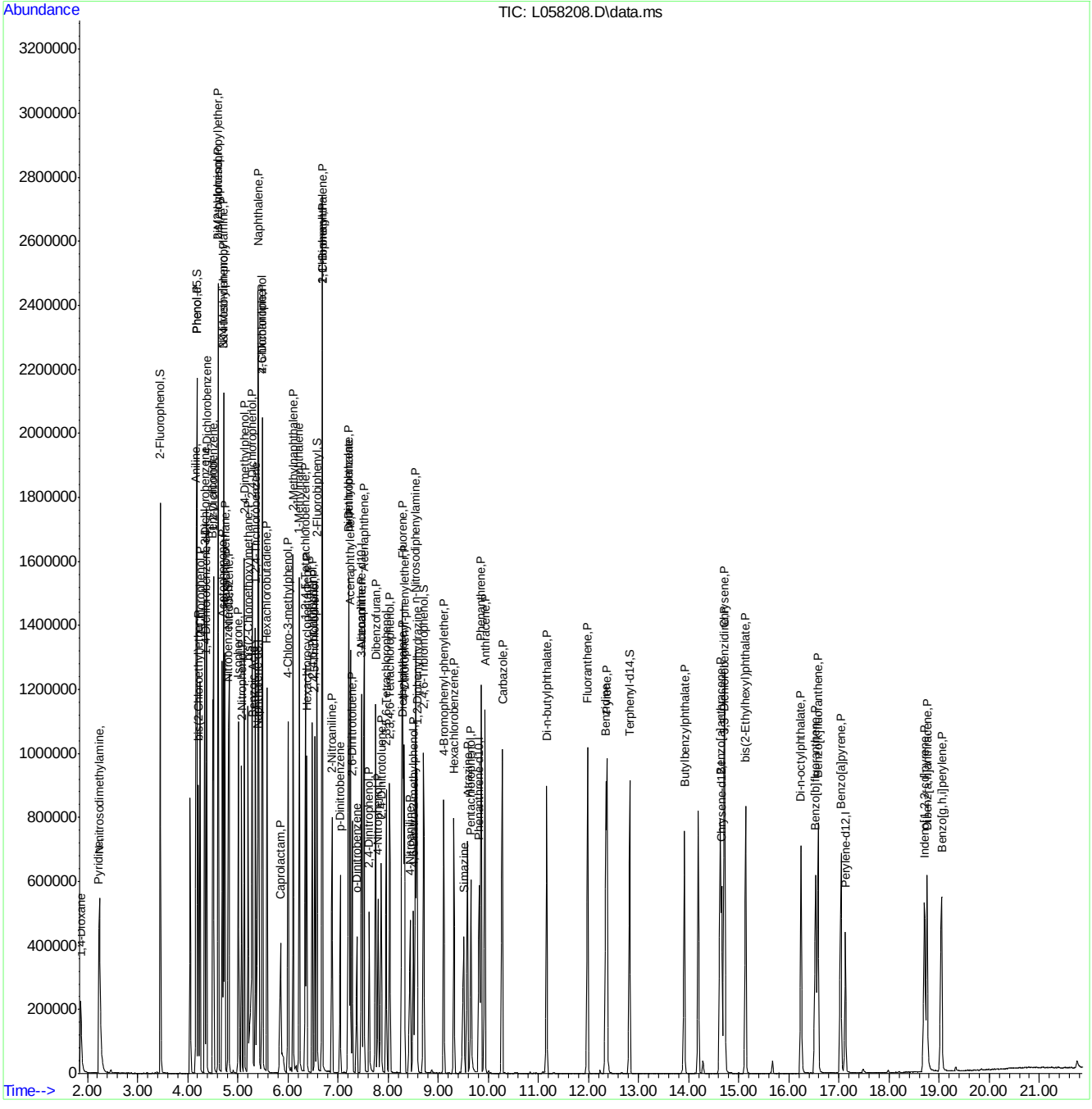
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.137	149	417473	70.25 ppm	99
93) Di-n-octylphthalate	16.243	149	666135	73.44 ppm	98
94) Benzo[b]fluoranthene	16.537	252	525776	71.84 ppm	93
95) Benzo[k]fluoranthene	16.585	252	478529m	67.72 ppm	
96) Benzo[a]pyrene	17.044	252	492679	70.58 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.710	276	411323	70.44 ppm	97
98) Dibenz[a,h]anthracene	18.764	278	416439	70.43 ppm	95
99) Benzo[g,h,i]perylene	19.052	276	420594	67.33 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

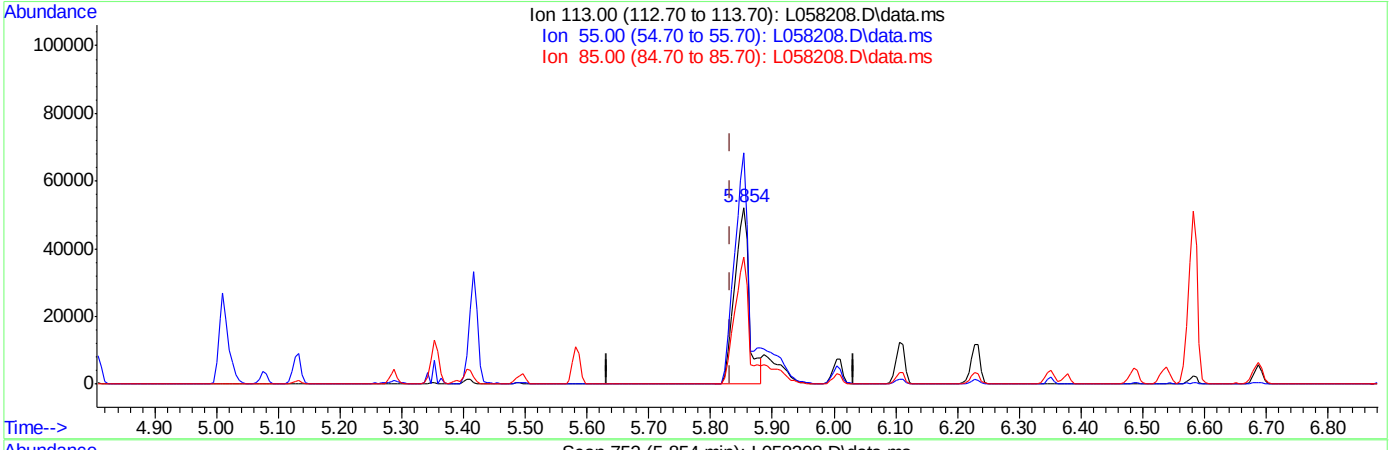
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058208.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 16:18	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

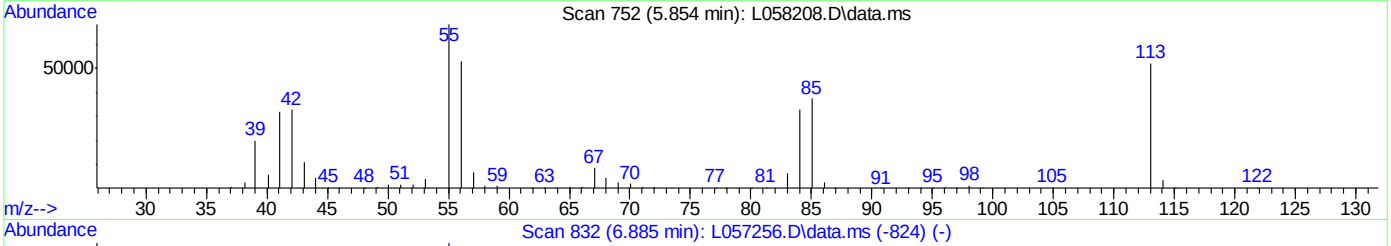
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.85	Split peak
Benzo(k)fluoranthene	207-08-9		16.58	Overlapping peak

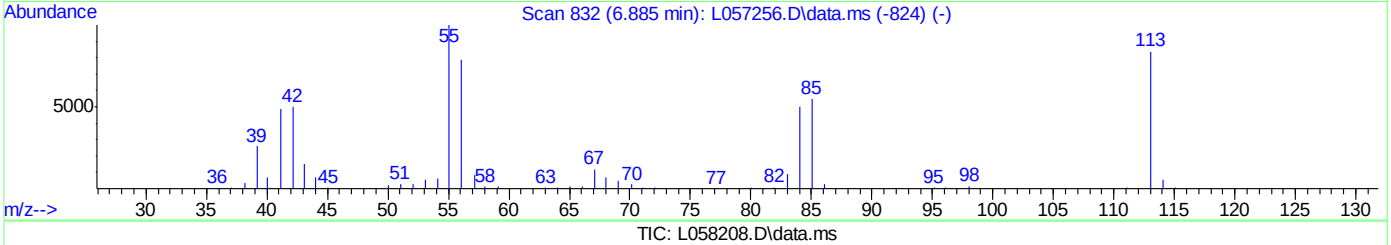
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(37) Caprolactam (P)

5.854min (+0.022) 57.47ppm

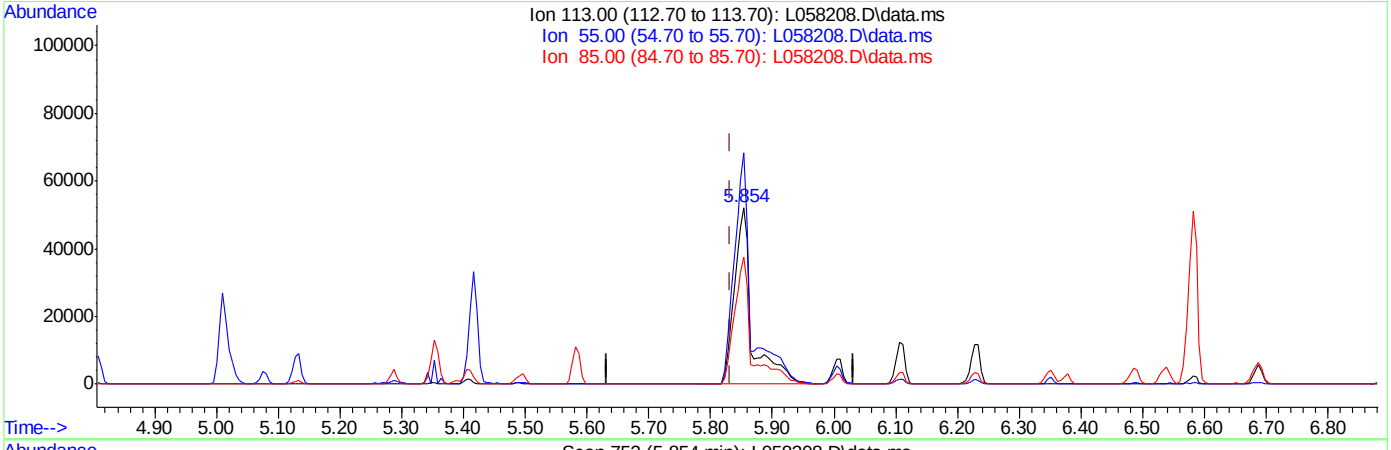
response 88264

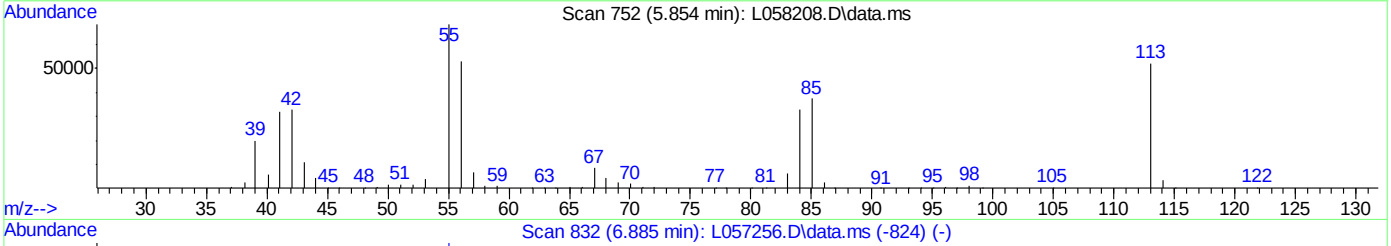
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	130.26
85.00	65.20	71.66
0.00	0.00	0.00

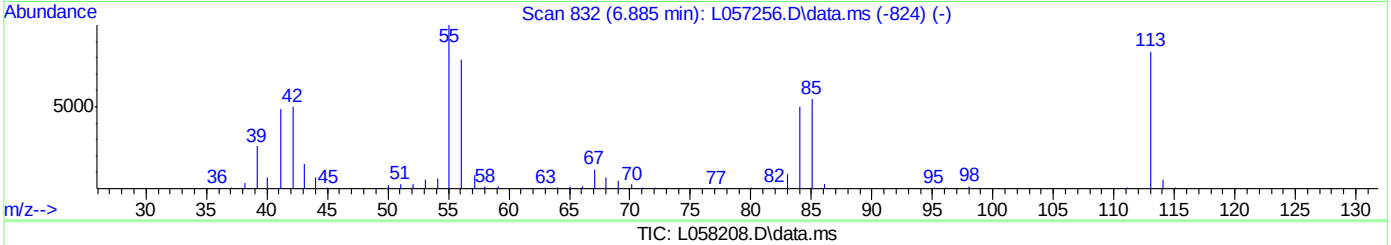
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(37) Caprolactam (P)

5.854min (+0.022) 69.16ppm m

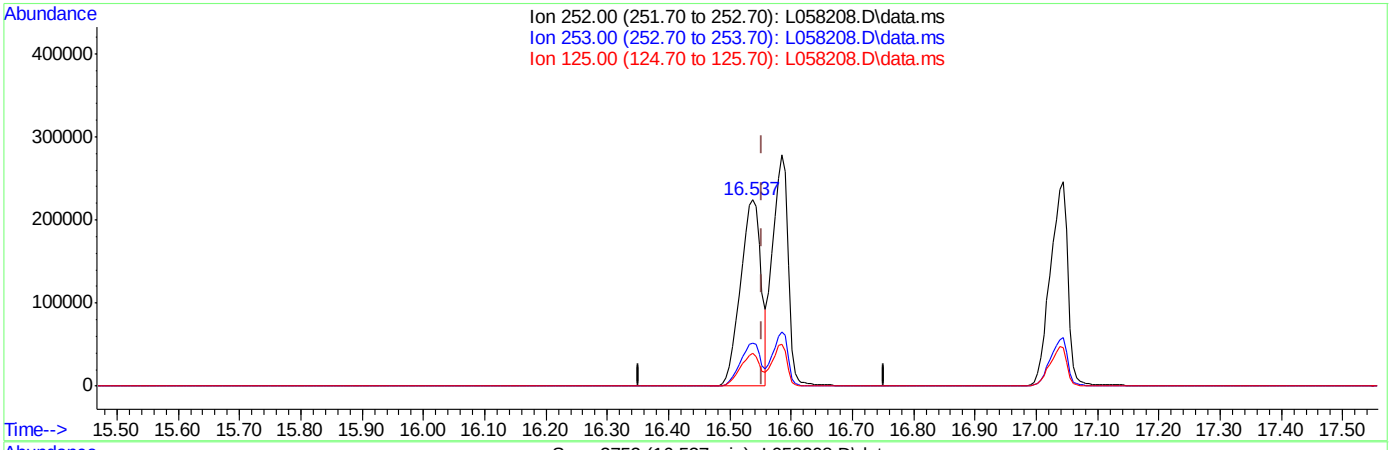
response 106214

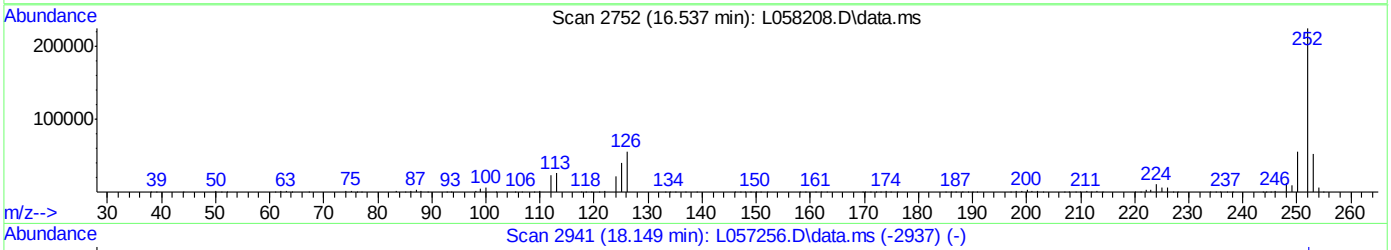
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	131.05
85.00	65.20	71.66
0.00	0.00	0.00

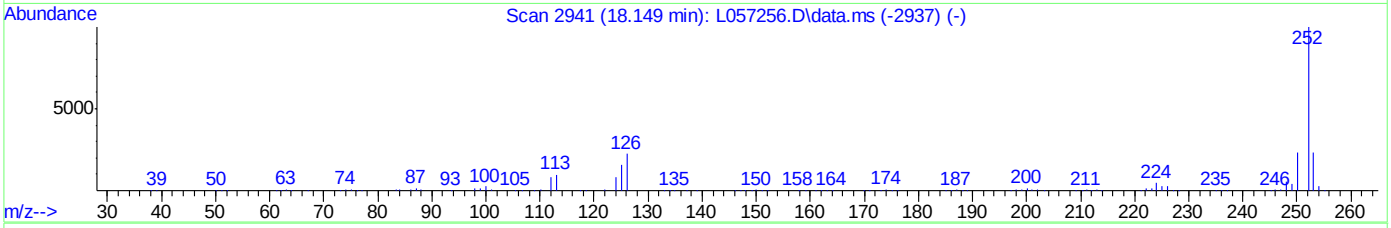
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.537min (-0.016) 74.41ppm

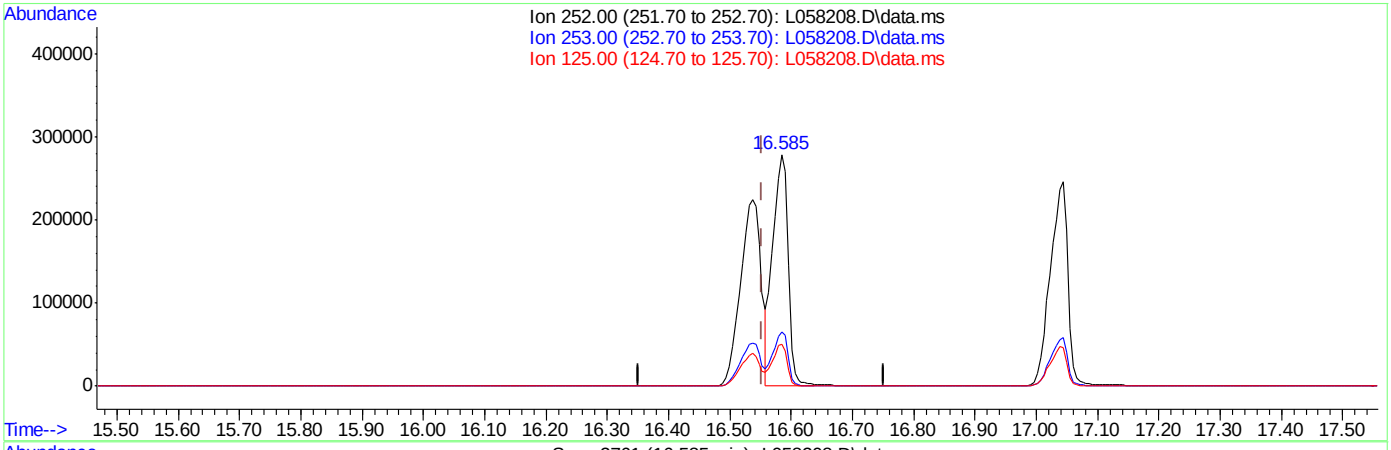
response 525776

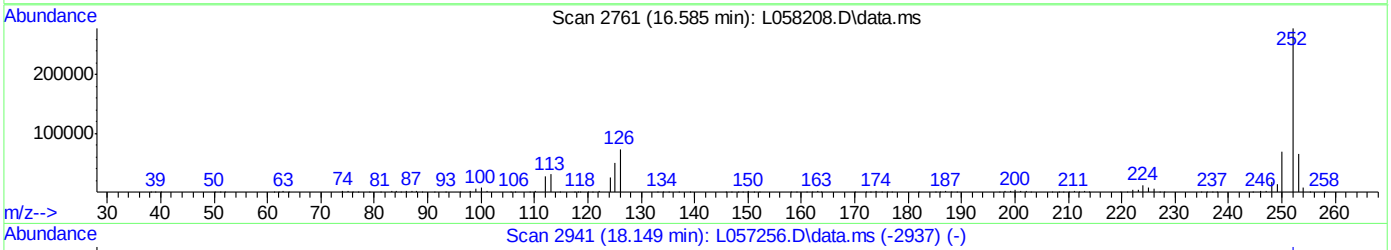
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.04
125.00	15.90	18.02
0.00	0.00	0.00

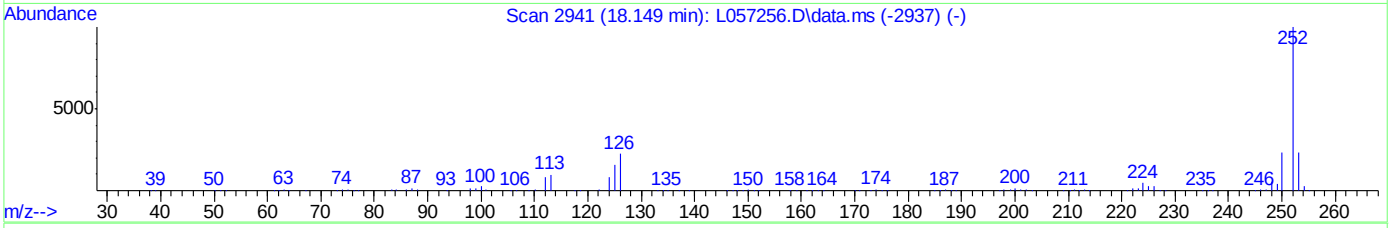
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.585min (+0.032) 67.72ppm m

response 478529

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.52
125.00	15.90	17.91
0.00	0.00	0.00

L058209.D

Manual Integrations APPROVED (compounds with "m" flag)

Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.372	152	109093	40.00	ppm	0.00
22) Naphthalene-d8	5.392	136	403226	40.00	ppm	0.00
42) Acenaphthene-d10	7.469	164	226712	40.00	ppm	0.00
68) Phenanthrene-d10	9.819	188	360786	40.00	ppm	0.00
83) Chrysene-d12	14.664	240	283751	40.00	ppm	0.00
92) Perylene-d12	17.131	264	234068	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.453	112	655015	176.49	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 176.49%#			
9) Phenol-d5	4.185	99	742878	279.10	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 279.10%#			
23) Nitrobenzene-d5	4.809	82	408659	85.53	ppm	0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 171.06%#			
46) 2-Fluorobiphenyl	6.588	172	657446	82.29	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 164.58%#			
72) 2,4,6-Tribromophenol	8.719	330	185144	191.80	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 191.80%#			
86) Terphenyl-d14	12.826	244	590520	100.42	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 200.84%#			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.861	88	194838m	114.03	ppm		
3) N-nitrosodimethylamine	2.240	42	165032	97.41	ppm		100
4) Pyridine	2.219	79	464044	103.74	ppm		98
5) Benzaldehyde	4.051	106	181222	Below Cal			99
6) Aniline	4.163	93	562790	Below Cal			70
8) bis(2-Chloroethyl)ether	4.217	93	366046	94.37	ppm		95
10) Phenol	4.190	94	473377	146.61	ppm		92
11) 2-Chlorophenol	4.249	128	374108	93.09	ppm		96
12) 1,3-Dichlorobenzene	4.345	146	390279	90.09	ppm		96
13) 1,4-Dichlorobenzene	4.382	146	377744	89.39	ppm		94
14) 1,2-Dichlorobenzene	4.516	146	352385	87.04	ppm		95
15) Benzyl alcohol	4.505	108	276677	97.86	ppm		96
16) bis(2-chloroisopropyl)...	4.612	45	373027	103.66	ppm	#	61
17) 2-Methylphenol	4.612	108	331895	88.41	ppm	#	78
18) Acetophenone	4.697	105	495142	95.95	ppm		98
19) Hexachloroethane	4.745	117	159870	95.01	ppm		95
20) N-Nitroso-di-n-propyla...	4.729	70	254502	90.49	ppm		97
21) 3&4-Methylphenol	4.724	108	351605	91.90	ppm		95
24) Nitrobenzene	4.826	77	382326	82.75	ppm		96
25) Isophorone	5.012	82	738397	99.42	ppm		99
26) 2-Nitrophenol	5.082	139	223236	90.81	ppm		98
27) 2,4-Dimethylphenol	5.135	107	373881	85.79	ppm		98
28) bis(2-Chloroethoxy)met...	5.210	93	416709	83.72	ppm		96
29) Benzoic Acid	5.322	105	409165	93.27	ppm		96
30) 2,4-Dichlorophenol	5.290	162	304683	83.88	ppm		96
31) 1,2,4-Trichlorobenzene	5.354	180	327046	83.68	ppm		95
33) Naphthalene	5.408	128	814418	91.51	ppm		93
34) 4-Chloroaniline	5.493	127	435596	84.60	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.504	162	305296	85.87 ppm		96
36) Hexachlorobutadiene	5.584	225	177594	85.01 ppm		97
37) Caprolactam	5.872	113	136852m	89.81 ppm		
38) 4-Chloro-3-methylphenol	6.011	107	340978	88.57 ppm	#	29
39) 2-Methylnaphthalene	6.113	142	617005	98.77 ppm		98
40) 1-Methylnaphthalene	6.230	142	587435	82.22 ppm		97
41) 1,2,4,5-Tetrachloroben...	6.353	216	315746	84.79 ppm		97
43) Hexachlorocyclopentadiene	6.380	237	203662	94.33 ppm		97
44) 2,4,6-Trichlorophenol	6.492	196	220202	90.27 ppm		100
45) 2,4,5-Trichlorophenol	6.545	196	224795	87.40 ppm		99
47) 1,1'-Biphenyl	6.690	154	619335	92.08 ppm		94
48) 2-Chloronaphthalene	6.690	162	554527	83.99 ppm		91
49) 2-Nitroaniline	6.887	65	214154	92.92 ppm		98
50) p-Dinitrobenzene	7.053	75	154731	97.60 ppm		99
51) Acenaphthylene	7.250	152	875652	83.18 ppm		94
52) Dimethylphthalate	7.218	163	616208	81.06 ppm		97
53) m-Dinitrobenzene	7.213	168	134413	93.00 ppm	#	47
54) 2,6-Dinitrotoluene	7.293	165	178207	93.76 ppm	#	69
55) o-Dinitrobenzene	7.389	50	97515	92.14 ppm		95
56) Acenaphthene	7.523	153	579587	87.19 ppm		99
57) 3-Nitroaniline	7.491	138	211091	93.47 ppm		96
58) 2,4-Dinitrophenol	7.635	184	132906	97.12 ppm		99
59) Dibenzofuran	7.758	168	783465	86.70 ppm		94
60) 2,4-Dinitrotoluene	7.875	165	237096	94.30 ppm		95
61) 4-Nitrophenol	7.817	109	104136	88.96 ppm		94
62) 2,3,5,6-Tetrachlorophenol	7.966	232	188562	92.02 ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.041	232	182761	91.88 ppm		97
64) Fluorene	8.287	166	659766	88.28 ppm		99
65) 4-Chlorophenyl-phenyle...	8.329	204	307609	86.32 ppm		95
66) Diethylphthalate	8.308	149	607517	80.40 ppm		97
67) 4-Nitroaniline	8.463	138	210265	99.27 ppm		96
69) 4,6-Dinitro-2-methylph...	8.522	198	154349	105.37 ppm		98
70) n-Nitrosodiphenylamine	8.559	169	559741	103.24 ppm		96
71) 1,2-Diphenylhydrazine	8.586	77	712223	93.21 ppm		95
73) 4-Bromophenyl-phenylether	9.120	248	188949	92.64 ppm		94
74) Hexachlorobenzene	9.323	284	198310	94.63 ppm		97
75) Simazine	9.531	201	106589	93.72 ppm		96
76) Atrazine	9.600	200	181299	86.89 ppm		97
77) Pentachlorophenol	9.665	266	146518	98.76 ppm		97
78) Phenanthrene	9.867	178	810813	107.97 ppm		96
79) Anthracene	9.942	178	828617	85.88 ppm		96
80) Carbazole	10.284	167	836694	86.67 ppm		96
81) Di-n-butylphthalate	11.176	149	933530	85.20 ppm		98
82) Fluoranthene	11.993	202	837385	85.25 ppm		99
84) Benzidine	12.351	184	423826	88.95 ppm		98
85) Pyrene	12.378	202	823687	86.18 ppm		97
87) Butylbenzylphthalate	13.921	149	413128	91.60 ppm		99
88) 3,3'-Dichlorobenzidine	14.733	252	267957	89.98 ppm		98
89) Benzo[a]anthracene	14.637	228	726941	89.53 ppm		98
90) Chrysene	14.717	228	629489	88.17 ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.139	149	533504	92.73 ppm	99
93) Di-n-octylphthalate	16.250	149	841641	95.73 ppm	97
94) Benzo[b]fluoranthene	16.544	252	685587	96.64 ppm	93
95) Benzo[k]fluoranthene	16.597	252	596670m	87.12 ppm	
96) Benzo[a]pyrene	17.051	252	628961	92.95 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.718	276	553268	97.75 ppm	98
98) Dibenz[a,h]anthracene	18.771	278	546608	95.37 ppm	94
99) Benzo[g,h,i]perylene	19.059	276	557801	92.13 ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

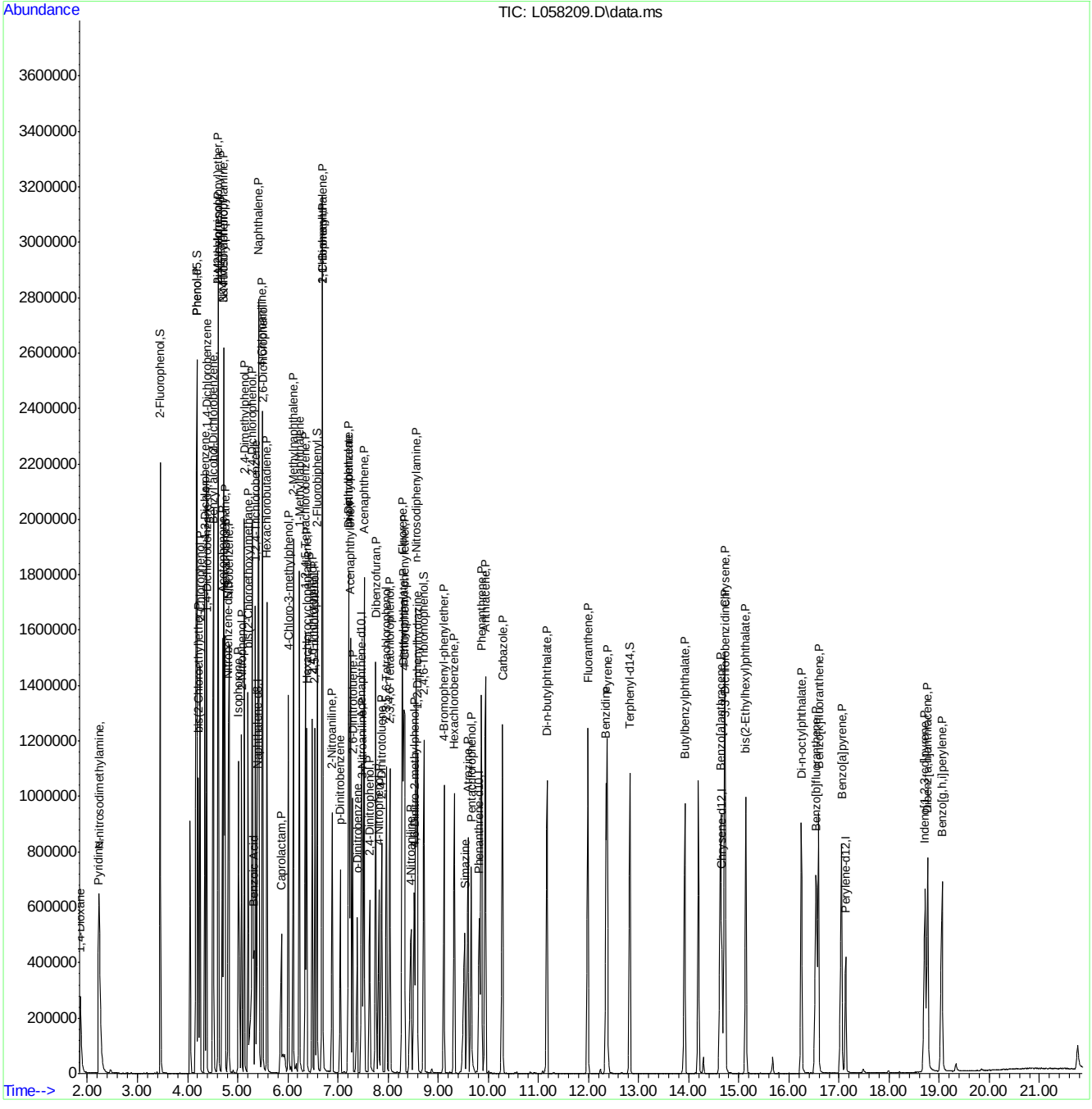
9.6.7

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

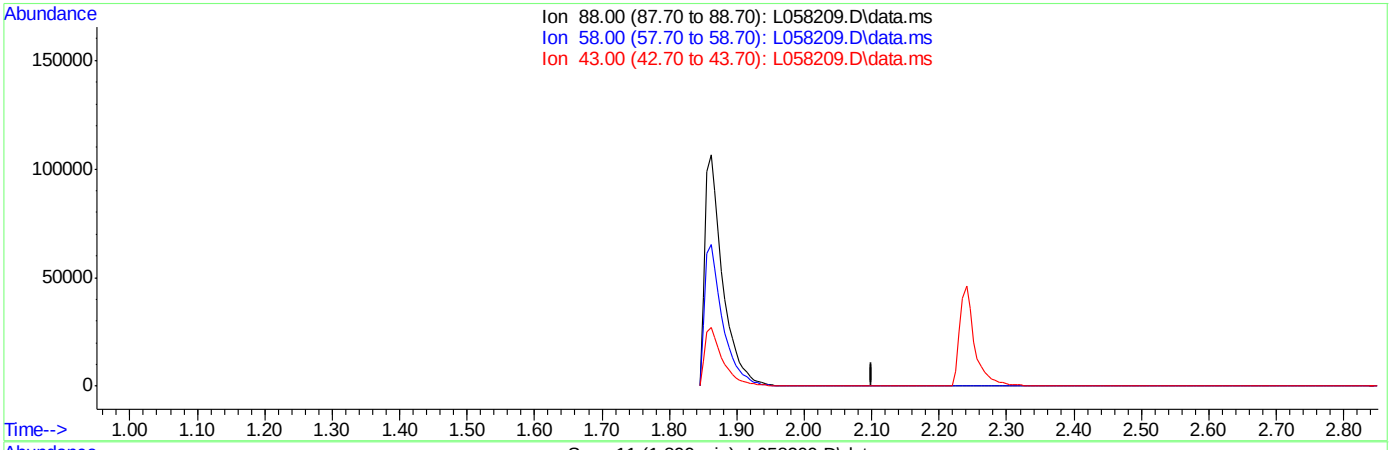
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058209.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 16:47	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

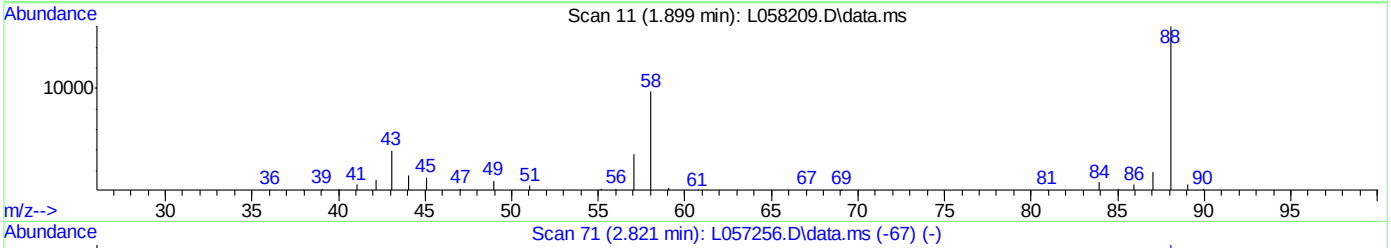
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.86	Missed peak
Caprolactam	105-60-2		5.87	Split peak
Benzo(k)fluoranthene	207-08-9		16.60	Overlapping peak

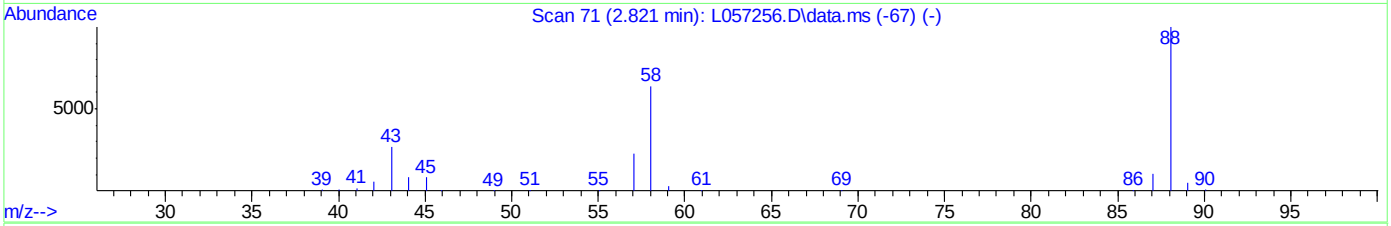
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(2) 1,4-Dioxane

1.901min (-1.901) 0.00ppm

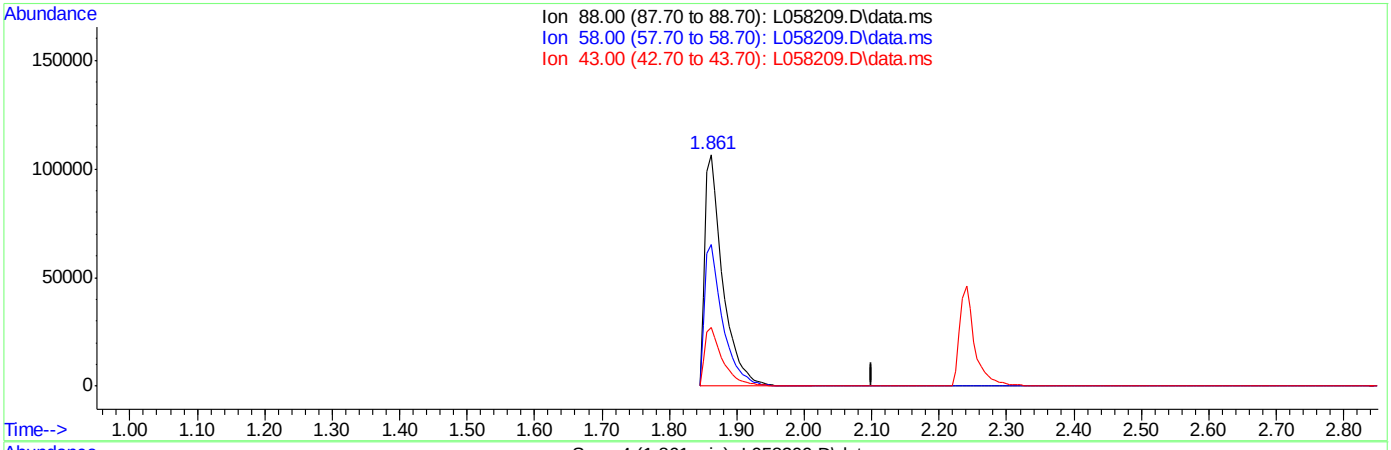
response 0

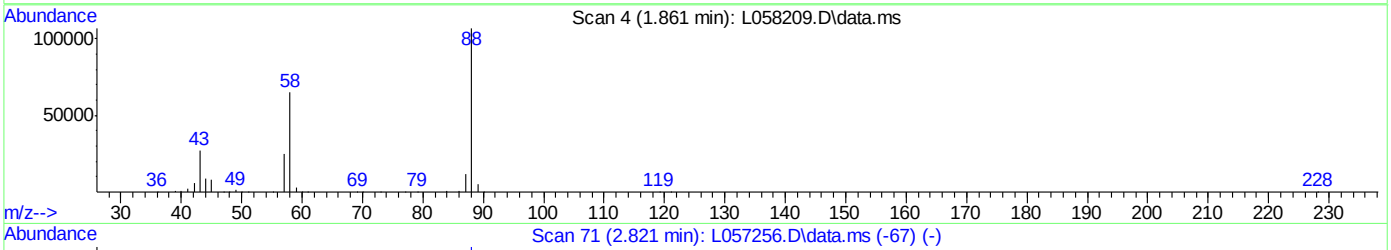
Ion	Exp%	Act%
88.00	100	0.00
58.00	59.50	0.00#
43.00	25.30	0.00
0.00	0.00	0.00

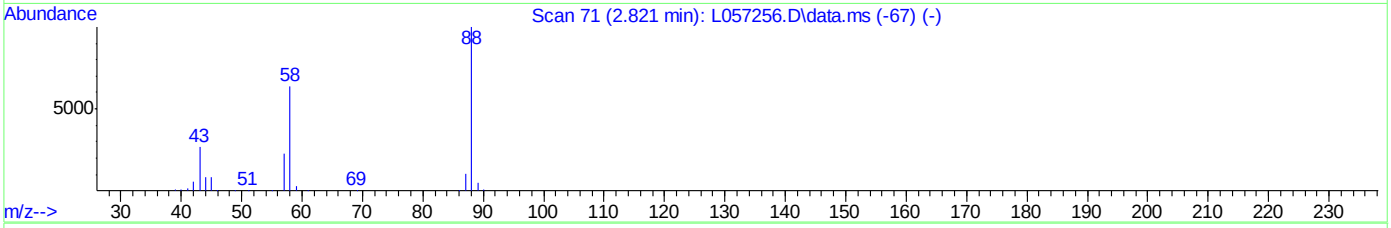
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(2) 1,4-Dioxane

1.861min (-0.040) 114.03ppm m

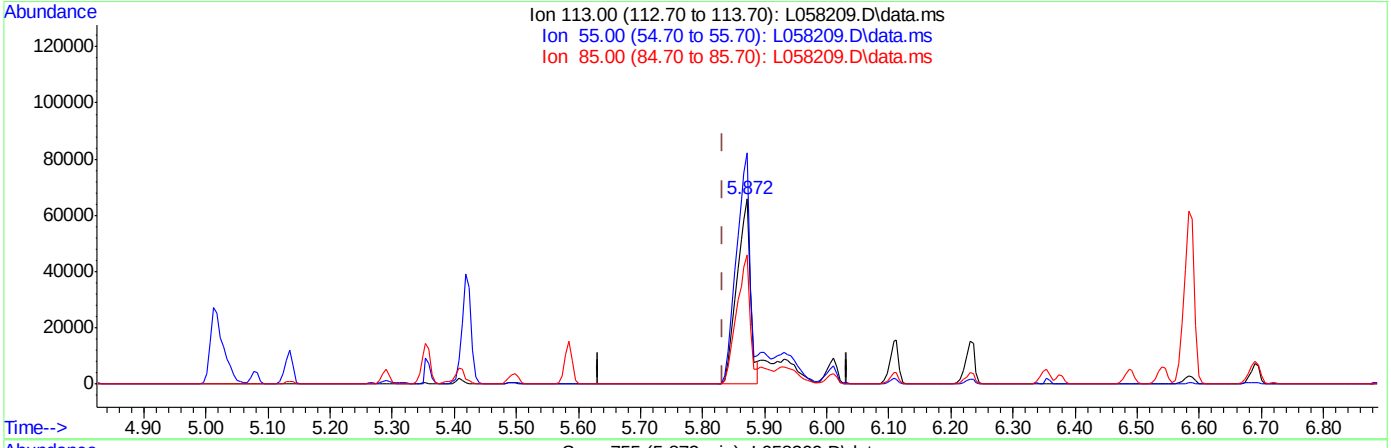
response 194838

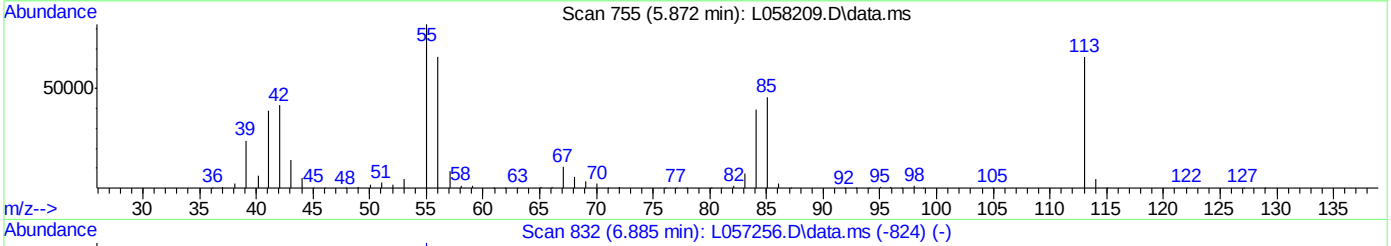
Ion	Exp%	Act%
88.00	100	100
58.00	59.50	61.08
43.00	25.30	25.55
0.00	0.00	0.00

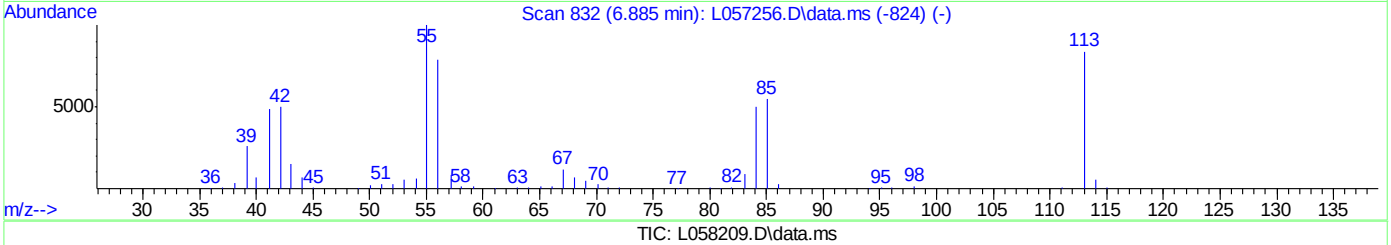
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(37) Caprolactam (P)

5.872min (+0.040) 68.13ppm

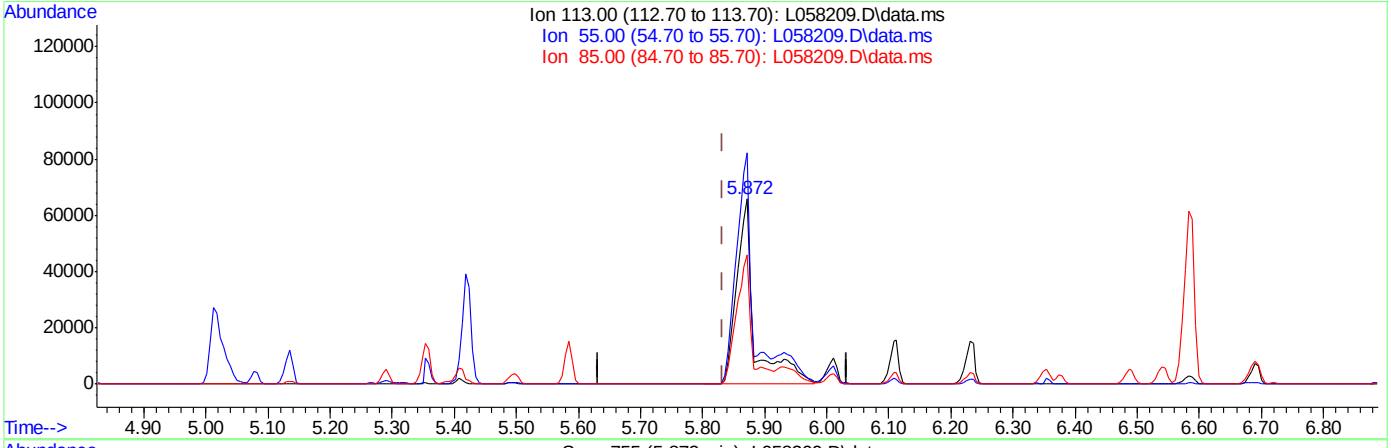
response 103819

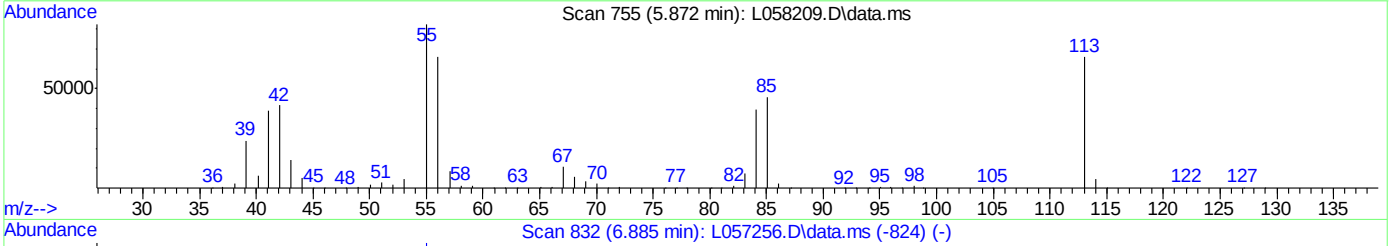
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	125.42
85.00	65.20	70.17
0.00	0.00	0.00

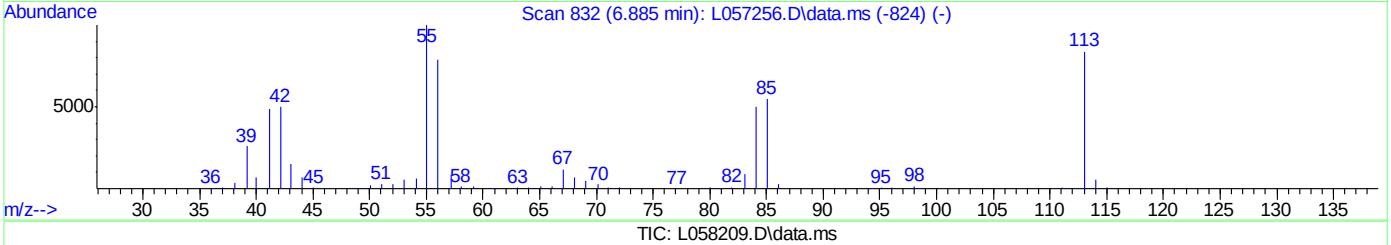
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(37) Caprolactam (P)

5.872min (+0.040) 89.81ppm m

response 136852

Ion	Exp%	Act%
113.00	100	100
55.00	119.40	125.19
85.00	65.20	69.82
0.00	0.00	0.00

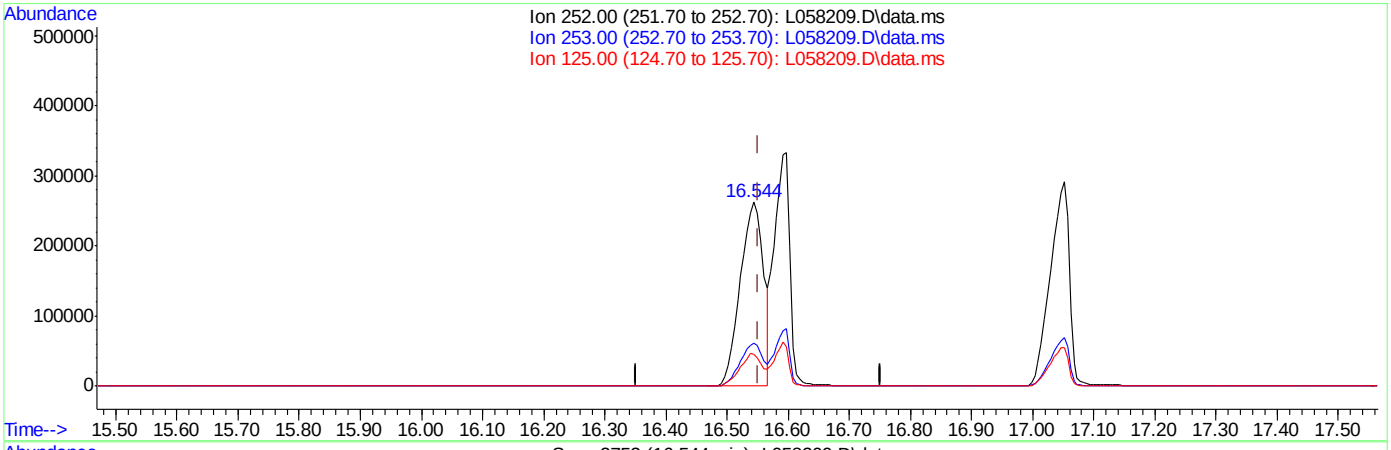
9.6.7.5

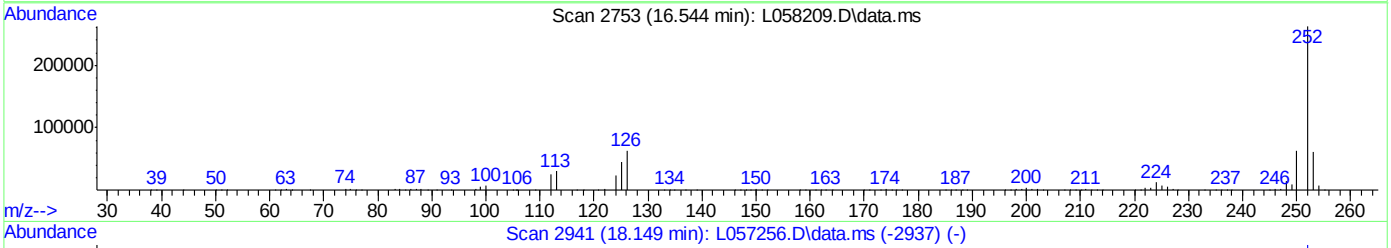
9

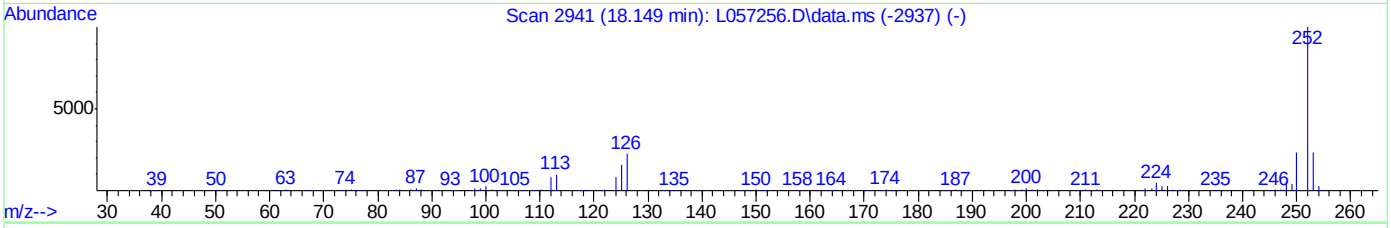
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.544min (-0.009) 100.10ppm

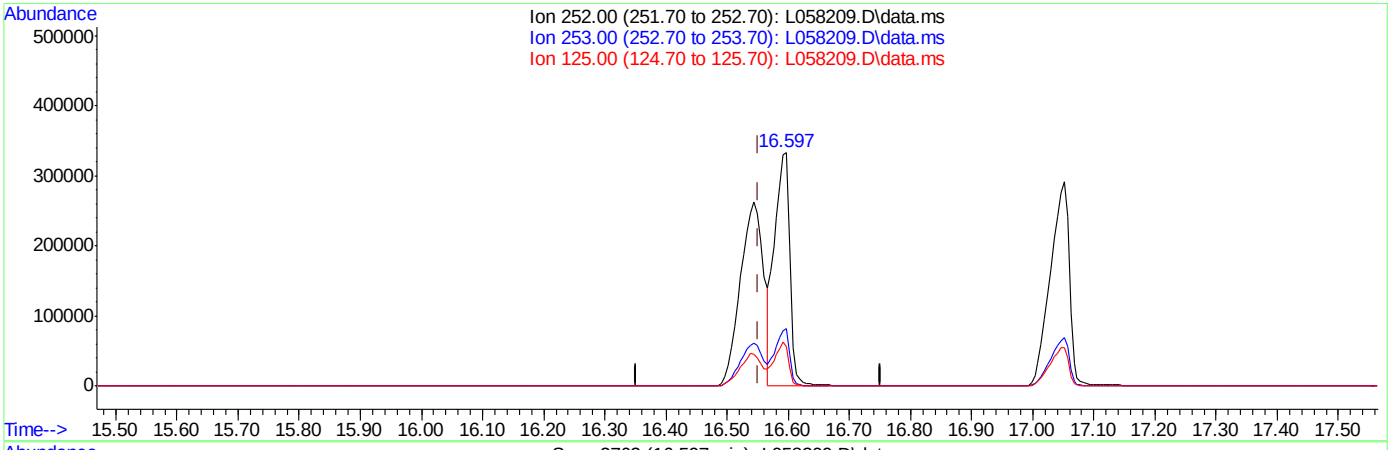
response 685587

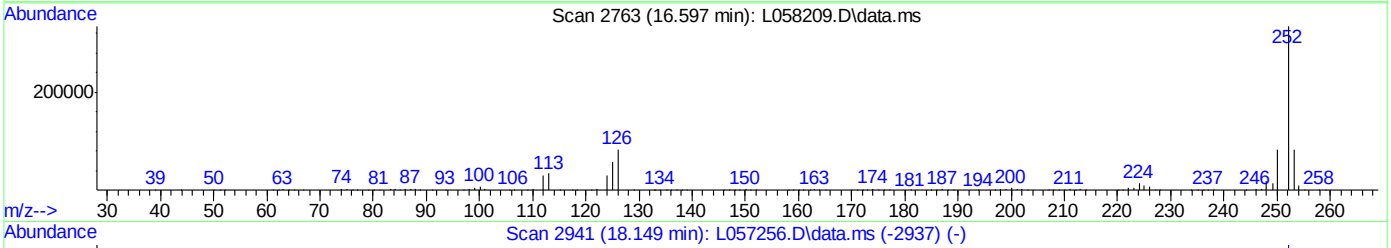
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.69
125.00	15.90	17.23
0.00	0.00	0.00

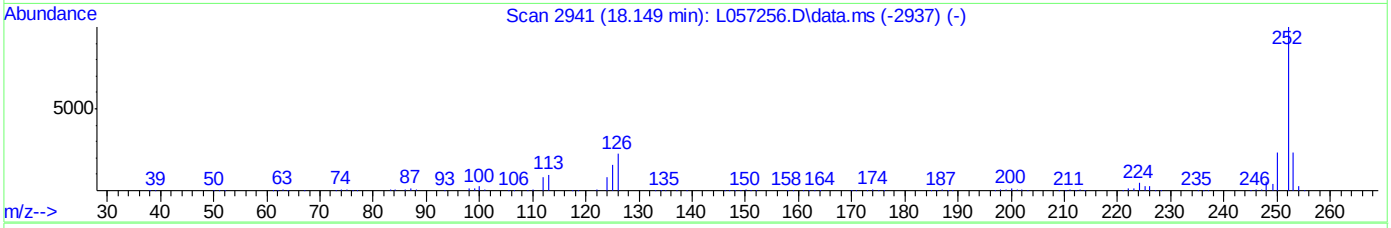
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.597min (+0.045) 87.12ppm m

response 596670

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	24.45
125.00	15.90	17.16
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	129253	40.00 ppm	0.00
22) Naphthalene-d8	5.389	136	453053	40.00 ppm	0.00
42) Acenaphthene-d10	7.462	164	258401	40.00 ppm	0.00
68) Phenanthrene-d10	9.812	188	381045	40.00 ppm	0.00
83) Chrysene-d12	14.651	240	289480	40.00 ppm	0.00
92) Perylene-d12	17.129	264	241181	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery	= 0.00%#	
9) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery	= 0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery	= 0.00%#	
72) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery	= 0.00%#	
86) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery	= 0.00%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.912	88	108438	45.39 ppm		95
3) N-nitrosodimethylamine	2.270	42	100603	47.86 ppm		99
5) Benzaldehyde	4.054	106	172608	52.80 ppm		96
8) bis(2-Chloroethyl)ether	4.214	93	213250	44.99 ppm		92
10) Phenol	4.182	94	285854	43.34 ppm		97
11) 2-Chlorophenol	4.246	128	228046	45.57 ppm		96
12) 1,3-Dichlorobenzene	4.342	146	241978	45.38 ppm		98
13) 1,4-Dichlorobenzene	4.385	146	239861	45.99 ppm		99
14) 1,2-Dichlorobenzene	4.519	146	235295	46.76 ppm		99
16) bis(2-chloroisopropyl)...	4.609	45	242960	45.55 ppm		87
17) 2-Methylphenol	4.609	108	198384	43.03 ppm		98
18) Acetophenone	4.690	105	306769	45.92 ppm		98
19) Hexachloroethane	4.743	117	99814	47.27 ppm		94
20) N-Nitroso-di-n-propyla...	4.716	70	149077	43.38 ppm		98
21) 3&4-Methylphenol	4.722	108	380431	89.79 ppm		98
24) Nitrobenzene	4.818	77	237805	48.54 ppm		99
26) 2-Nitrophenol	5.074	139	135869	50.72 ppm		93
27) 2,4-Dimethylphenol	5.128	107	194600	41.25 ppm		99
28) bis(2-Chloroethoxy)met...	5.202	93	260161	48.24 ppm		100
29) Benzoic Acid	5.314	105	391461	94.40 ppm		96
30) 2,4-Dichlorophenol	5.288	162	182481	47.50 ppm		98
31) 1,2,4-Trichlorobenzene	5.352	180	190559	45.65 ppm		100
33) Naphthalene	5.405	128	550210	51.27 ppm		98
35) 2,6-Dichlorophenol	5.491	162	179951	47.31 ppm		98
36) Hexachlorobutadiene	5.582	225	109092	49.67 ppm		98
37) Caprolactam	5.838	113	75519m	47.63 ppm		
38) 4-Chloro-3-methylphenol	5.998	107	194349	46.98 ppm	#	99
40) 1-Methylnaphthalene	6.228	142	370671	47.43 ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

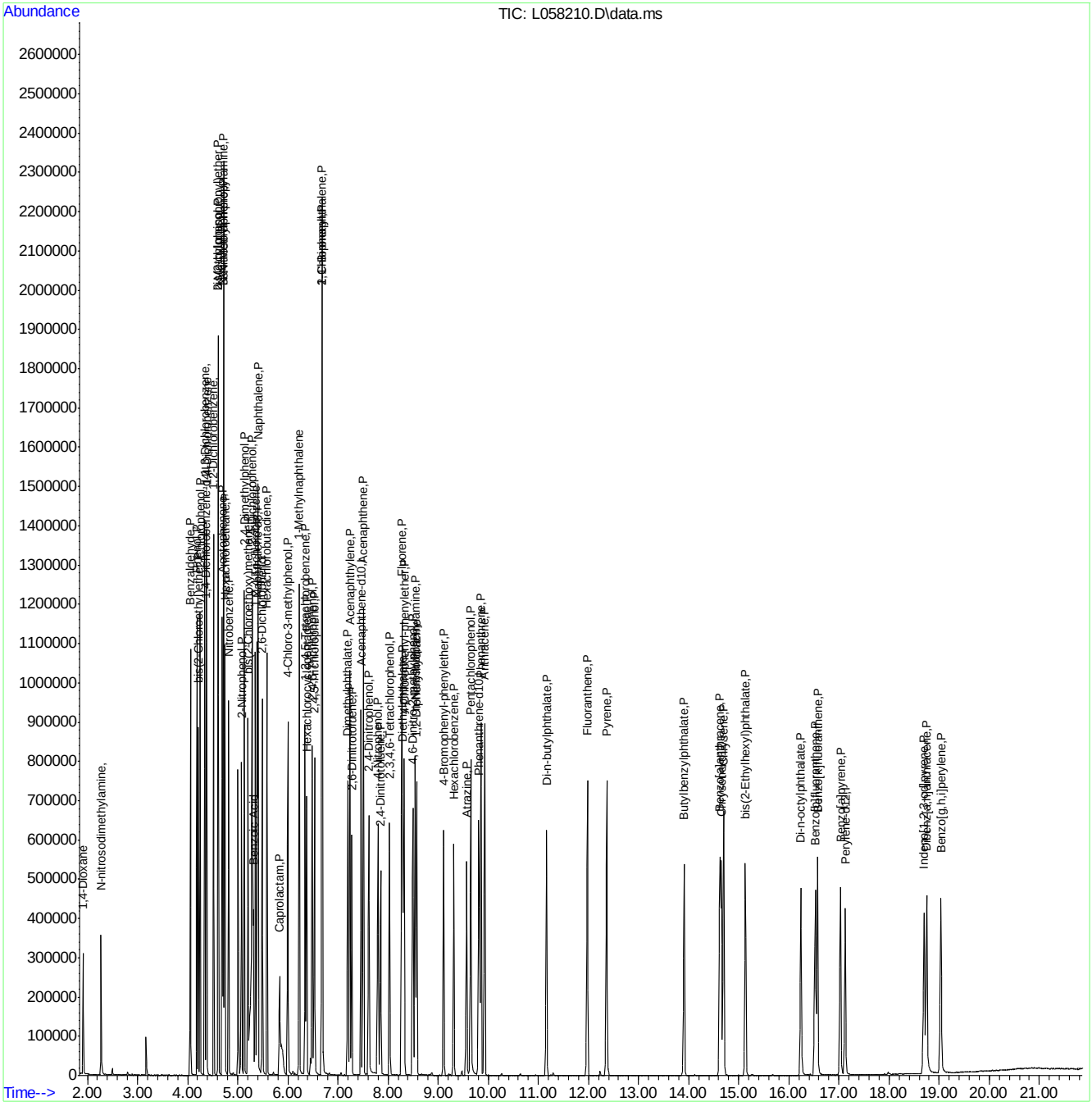
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,2,4,5-Tetrachloroben...	6.351	216	177908	44.43	ppm	99
43) Hexachlorocyclopentadiene	6.377	237	121918	53.07	ppm	99
44) 2,4,6-Trichlorophenol	6.484	196	126285	47.09	ppm	98
45) 2,4,5-Trichlorophenol	6.532	196	131055	46.55	ppm	100
47) 1,1'-Biphenyl	6.682	154	416587	48.27	ppm	100
48) 2-Chloronaphthalene	6.682	162	336689	45.23	ppm	100
51) Acenaphthylene	7.237	152	537049	44.23	ppm	100
52) Dimethylphthalate	7.200	163	399992	47.58	ppm	99
54) 2,6-Dinitrotoluene	7.280	165	96925	44.85	ppm	98
56) Acenaphthene	7.510	153	347917	45.95	ppm	99
58) 2,4-Dinitrophenol	7.616	184	126228	84.31	ppm	95
60) 2,4-Dinitrotoluene	7.851	165	126126	44.84	ppm	92
61) 4-Nitrophenol	7.803	109	106596	91.00	ppm	94
63) 2,3,4,6-Tetrachlorophenol	8.028	232	99816	45.67	ppm	99
64) Fluorene	8.279	166	380278	44.14	ppm	100
65) 4-Chlorophenyl-phenyle...	8.321	204	183676	46.15	ppm	98
66) Diethylphthalate	8.295	149	361525	45.19	ppm	99
69) 4,6-Dinitro-2-methylph...	8.498	198	165740	106.91	ppm	59
70) n-Nitrosodiphenylamine	8.540	169	263104	46.24	ppm	98
71) 1,2-Diphenylhydrazine	8.573	77	412080	48.97	ppm	98
73) 4-Bromophenyl-phenylether	9.112	248	106504	49.39	ppm	98
74) Hexachlorobenzene	9.315	284	107399	46.52	ppm	98
76) Atrazine	9.571	200	98434	46.27	ppm	95
77) Pentachlorophenol	9.651	266	143354	95.79	ppm	98
78) Phenanthrene	9.854	178	462951	46.40	ppm	100
79) Anthracene	9.929	178	467632	45.63	ppm	99
81) Di-n-butylphthalate	11.163	149	525310	45.73	ppm	99
82) Fluoranthene	11.980	202	446482	43.49	ppm	100
85) Pyrene	12.365	202	457000	48.84	ppm	99
87) Butylbenzylphthalate	13.908	149	212849	48.78	ppm	95
89) Benzo[a]anthracene	14.624	228	383416	47.69	ppm	99
90) Chrysene	14.699	228	339182	47.53	ppm	99
91) bis(2-Ethylhexyl)phtha...	15.131	149	270697	48.35	ppm	100
93) Di-n-octylphthalate	16.242	149	435422	48.89	ppm	99
94) Benzo[b]fluoranthene	16.531	252	342648	47.58	ppm	99
95) Benzo[k]fluoranthene	16.573	252	332471	47.43	ppm	98
96) Benzo[a]pyrene	17.033	252	308479	44.96	ppm	97
97) Indeno[1,2,3-cd]pyrene	18.699	276	277807	49.54	ppm	97
98) Dibenz[a,h]anthracene	18.753	278	288656	51.37	ppm	99
99) Benzo[g,h,i]perylene	19.036	276	296385	49.82	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration



8270da.m Mon Jul 16 09:07:46 2012 Page: 3

Manual Integration Approval Summary

Sample Number:	SL2973-ICV2973	**Method:**	SW846 8270D
Lab FileID:	L058210.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 17:16	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.84	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On    : 13 Jul 2012   5:16 pm
Operator  : nancyf
Sample    : icv2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jul 16 08:52:44 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration
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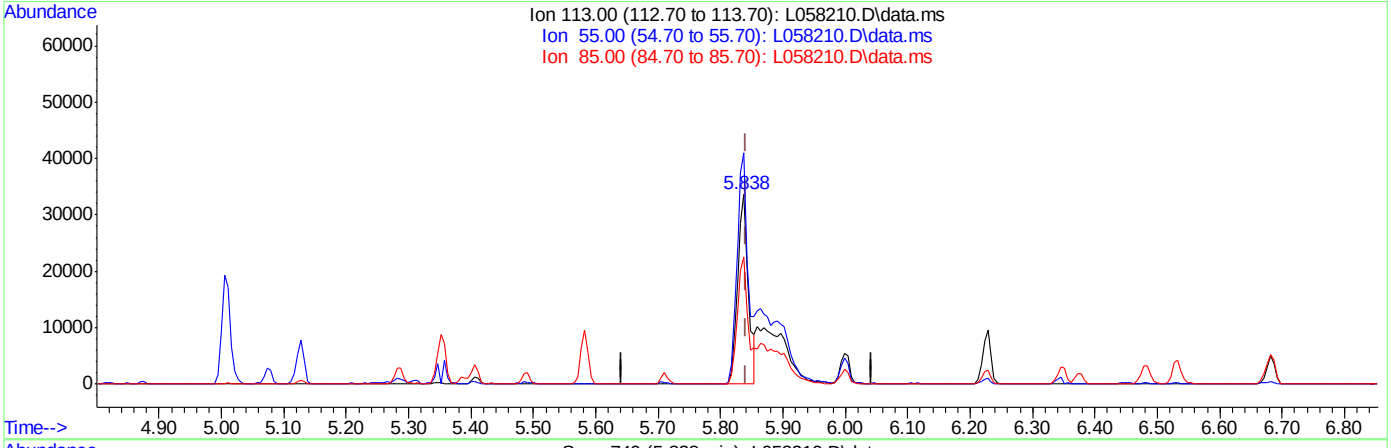
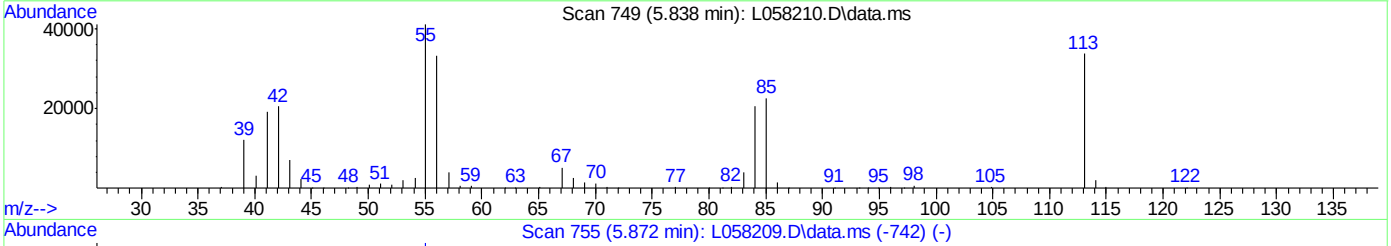
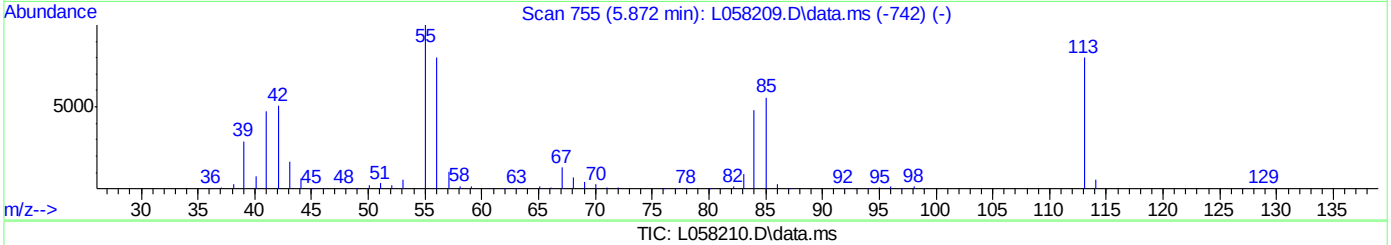






TIC: L058210.D\data.ms

(37) Caprolactam (P)

5.838min (-0.004) 26.73ppm

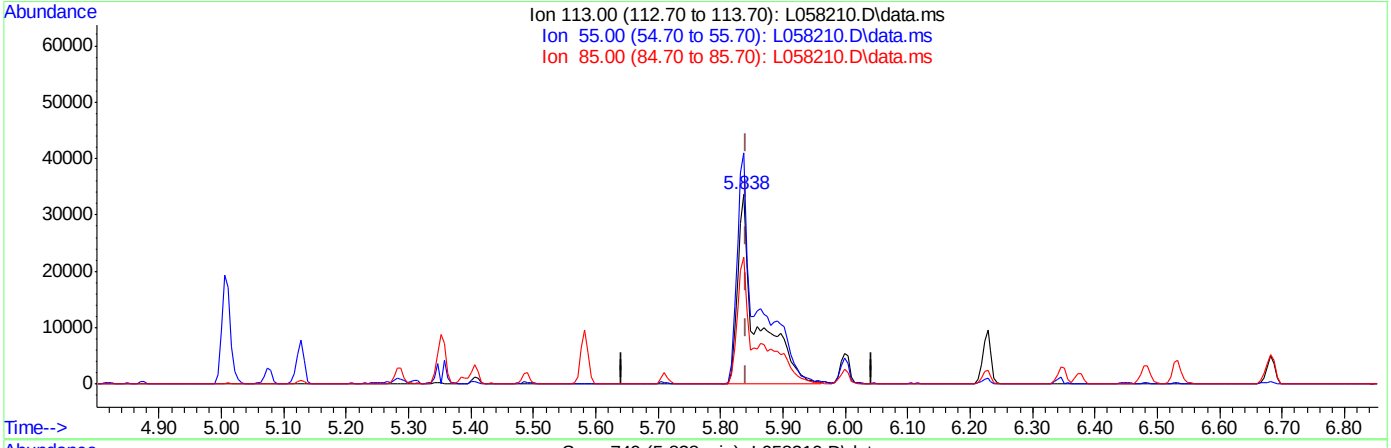
response 42382

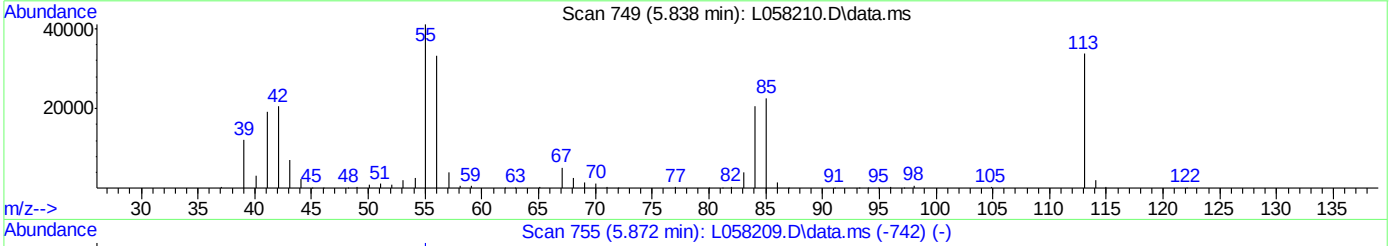
Ion	Exp%	Act%
113.00	100	100
55.00	126.00	119.99
85.00	69.20	66.04
0.00	0.00	0.00

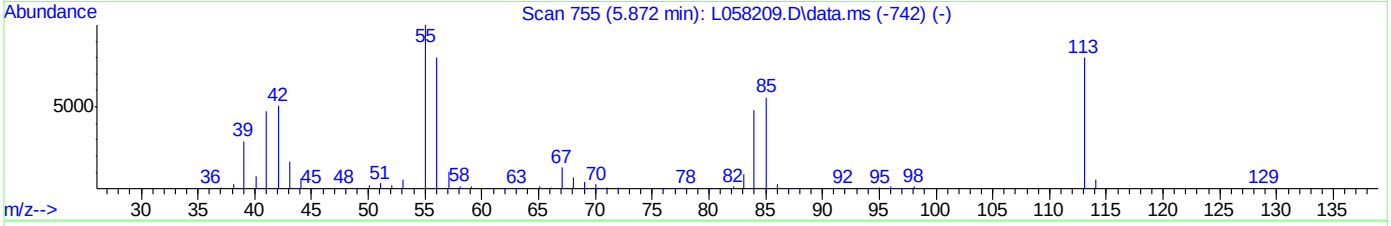
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On    : 13 Jul 2012   5:16 pm
Operator  : nancyf
Sample    : icv2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jul 16 09:05:30 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration
```







TIC: L058210.D\data.ms

(37) Caprolactam (P)

5.838min (-0.004) 47.63ppm m

response 75519

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	121.94
85.00	69.20	66.97
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058211.D
Acq On : 13 Jul 2012 5:45 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 08:59:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.367	152	123003	40.00	ppm	0.00
22) Naphthalene-d8	5.382	136	436376	40.00	ppm	0.00
42) Acenaphthene-d10	7.460	164	245885	40.00	ppm	0.00
68) Phenanthrene-d10	9.804	188	388482	40.00	ppm	-0.01
83) Chrysene-d12	14.643	240	341243	40.00	ppm	-0.01
92) Perylene-d12	17.122	264	290768	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery	=	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery	=	0.00%#	
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery	=	0.00%#	
86) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery	=	0.00%#	

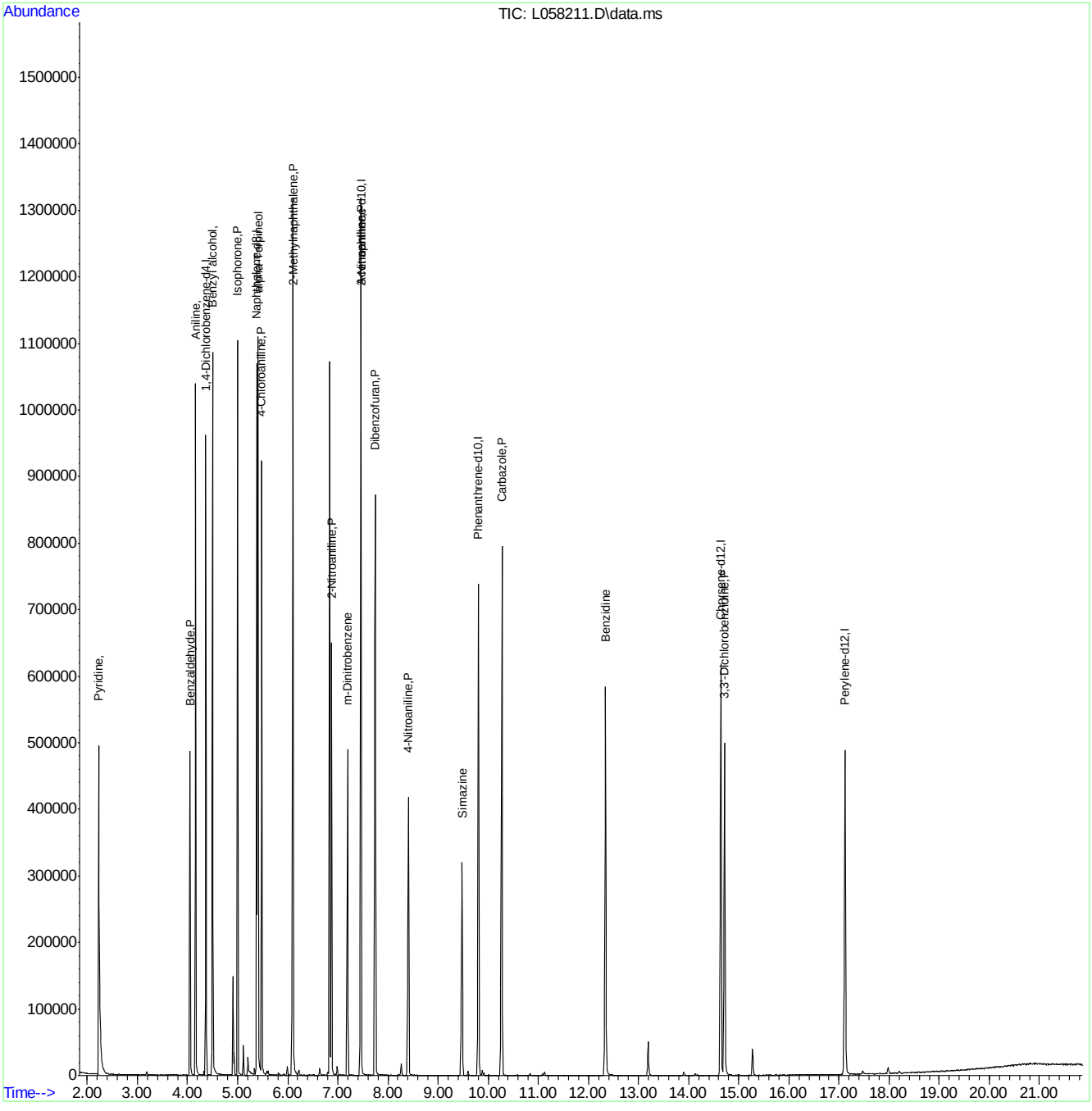
Target Compounds							Qvalue
4) Pyridine	2.225	79	262605	48.74	ppm		99
5) Benzaldehyde	4.052	106	88158	23.39	ppm		95
6) Aniline	4.164	93	332137	44.96	ppm		85
15) Benzyl alcohol	4.501	108	158299	46.72	ppm		95
25) Isophorone	4.997	82	383196	45.01	ppm		99
32) alpha-Terpineol	5.409	59	144677	46.09	ppm		95
34) 4-Chloroaniline	5.484	127	258275	47.96	ppm		99
39) 2-Methylnaphthalene	6.103	142	388002	48.66	ppm		99
49) 2-Nitroaniline	6.878	65	120715	49.74	ppm		97
53) m-Dinitrobenzene	7.193	168	76807	50.03	ppm	#	73
57) 3-Nitroaniline	7.465	138	112468	47.59	ppm		96
59) Dibenzofuran	7.743	168	475183	47.80	ppm		97
67) 4-Nitroaniline	8.410	138	118704	51.52	ppm		93
75) Simazine	9.479	201	46139	37.87	ppm		93
80) Carbazole	10.274	167	492757	47.34	ppm		100
84) Benzidine	12.341	184	343234	51.37	ppm		99
88) 3,3'-Dichlorobenzidine	14.718	252	174119	47.57	ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058211.D
Acq On : 13 Jul 2012 5:45 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 08:59:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration



Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/03/12 15:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On : 2 Aug 2012 9:39 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2988,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:54:34 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.187	152	136967	40.00 ppm	0.00
22) Naphthalene-d8	5.164	136	472810	40.00 ppm	0.00
42) Acenaphthene-d10	7.162	164	268795	40.00 ppm	0.00
68) Phenanthrene-d10	9.469	188	405254	40.00 ppm	0.00
83) Chrysene-d12	14.282	240	307310	40.00 ppm	0.00
92) Perylene-d12	16.738	264	264775	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.274	112	453798	91.99 ppm	-0.04
Spiked Amount 100.000	Range 14 - 62		Recovery = 91.99%#		
9) Phenol-d5	4.011	99	530273	99.06 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 99.06%#		
23) Nitrobenzene-d5	4.614	82	257185	48.84 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 97.68%		
46) 2-Fluorobiphenyl	6.313	172	438829	47.56 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 95.12%		
72) 2,4,6-Tribromophenol	8.380	330	115692	103.17 ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 103.17%		
86) Terphenyl-d14	12.460	244	359232	51.81 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 103.62%		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.677	88	128558	50.79 ppm	97
3) N-nitrosodimethylamine	2.029	42	108527	48.72 ppm	97
4) Pyridine	2.002	79	300813	50.14 ppm	98
5) Benzaldehyde	3.867	106	169269	46.86 ppm	99
6) Aniline	3.984	93	375561	45.65 ppm	82
8) bis(2-Chloroethyl)ether	4.037	93	235965	46.98 ppm	92
10) Phenol	4.016	94	301164	43.09 ppm	94
11) 2-Chlorophenol	4.064	128	251284	47.39 ppm	99
12) 1,3-Dichlorobenzene	4.155	146	272271	48.18 ppm	98
13) 1,4-Dichlorobenzene	4.198	146	265887	48.11 ppm	99
14) 1,2-Dichlorobenzene	4.331	146	249613	46.81 ppm	97
15) Benzyl alcohol	4.326	108	169391	44.89 ppm	97
16) bis(2-chloroisopropyl)...	4.433	45	273880	49.02 ppm	93
17) 2-Methylphenol	4.438	108	223887	45.83 ppm	85
18) Acetophenone	4.513	105	330725	46.72 ppm	99
19) Hexachloroethane	4.556	117	109229	48.82 ppm	95
20) N-Nitroso-di-n-propyla...	4.540	70	163724	44.96 ppm	97
21) 3&4-Methylphenol	4.545	108	227166	46.01 ppm	99
24) Nitrobenzene	4.630	77	246898	48.29 ppm	99
25) Isophorone	4.812	82	451335	48.93 ppm	97
26) 2-Nitrophenol	4.876	139	142414	50.94 ppm	98
27) 2,4-Dimethylphenol	4.935	107	247948	50.36 ppm	98
28) bis(2-Chloroethoxy)met...	5.004	93	277600	49.32 ppm	100
29) Benzoic Acid	5.100	105	234093	54.09 ppm	97
30) 2,4-Dichlorophenol	5.074	162	204512	51.01 ppm	97
31) 1,2,4-Trichlorobenzene	5.138	180	217024	49.82 ppm	98
33) Naphthalene	5.186	128	596257	53.63 ppm	99
34) 4-Chloroaniline	5.266	127	280129	48.01 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On : 2 Aug 2012 9:39 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2988,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:54:34 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.271	162	200560	50.53 ppm		99
36) Hexachlorobutadiene	5.351	225	122485	53.43 ppm		99
37) Caprolactam	5.618	113	83894m	50.70 ppm		
38) 4-Chloro-3-methylphenol	5.768	107	210199	48.68 ppm		99
39) 2-Methylnaphthalene	5.853	142	428331	49.58 ppm		99
40) 1-Methylnaphthalene	5.971	142	401723	49.26 ppm		99
41) 1,2,4,5-Tetrachloroben...	6.088	216	206411	49.39 ppm		99
43) Hexachlorocyclopentadiene	6.115	237	133279	55.78 ppm		98
44) 2,4,6-Trichlorophenol	6.222	196	140527	50.38 ppm		99
45) 2,4,5-Trichlorophenol	6.270	196	143540	49.01 ppm		98
47) 1,1'-Biphenyl	6.409	154	467741	53.03 ppm		99
48) 2-Chloronaphthalene	6.409	162	370911	47.90 ppm		100
49) 2-Nitroaniline	6.601	65	127077	47.90 ppm		94
50) p-Dinitrobenzene	6.761	75	89291	48.78 ppm		94
51) Acenaphthylene	6.948	152	578669	45.82 ppm		100
52) Dimethylphthalate	6.927	163	409455	46.82 ppm		100
53) m-Dinitrobenzene	6.916	168	78814	46.96 ppm	#	80
54) 2,6-Dinitrotoluene	6.996	165	106813	47.52 ppm		93
55) o-Dinitrobenzene	7.082	50	57459	47.50 ppm		93
56) Acenaphthene	7.210	153	379423	48.17 ppm		99
57) 3-Nitroaniline	7.178	138	122558	47.44 ppm		97
58) 2,4-Dinitrophenol	7.322	184	74195	50.32 ppm		98
59) Dibenzofuran	7.440	168	513882	47.29 ppm		94
60) 2,4-Dinitrotoluene	7.557	165	139949	47.83 ppm		98
61) 4-Nitrophenol	7.514	109	57555	47.23 ppm		89
62) 2,3,5,6-Tetrachlorophenol	7.653	232	117072	49.83 ppm		97
63) 2,3,4,6-Tetrachlorophenol	7.717	232	113712	50.02 ppm		97
64) Fluorene	7.958	166	425470	47.47 ppm		100
65) 4-Chlorophenyl-phenyle...	8.006	204	199335	48.15 ppm		97
66) Diethylphthalate	7.990	149	400516	48.13 ppm		99
67) 4-Nitroaniline	8.118	138	114115	45.31 ppm		99
69) 4,6-Dinitro-2-methylph...	8.187	198	88838	53.88 ppm		64
70) n-Nitrosodiphenylamine	8.230	169	356927	58.98 ppm		99
71) 1,2-Diphenylhydrazine	8.252	77	455096	50.85 ppm		98
73) 4-Bromophenyl-phenylether	8.780	248	117021	51.03 ppm		96
74) Hexachlorobenzene	8.978	284	122700	49.97 ppm		97
75) Simazine	9.165	201	26246	20.65 ppm		94
76) Atrazine	9.256	200	115253	50.94 ppm		93
77) Pentachlorophenol	9.314	266	85346	53.62 ppm		95
78) Phenanthrene	9.507	178	509737	48.04 ppm		100
79) Anthracene	9.581	178	520812	47.78 ppm		98
80) Carbazole	9.929	167	502737	46.30 ppm		99
81) Di-n-butylphthalate	10.831	149	583136	47.73 ppm		99
82) Fluoranthene	11.616	202	516740	47.32 ppm		99
84) Benzidine	11.985	184	296039	49.20 ppm		98
85) Pyrene	11.996	202	495161	49.85 ppm		99
87) Butylbenzylphthalate	13.561	149	237747	51.33 ppm		98
88) 3,3'-Dichlorobenzidine	14.351	252	166232	50.43 ppm		100
89) Benzo[a]anthracene	14.250	228	426091	49.92 ppm		100
90) Chrysene	14.324	228	375068	49.51 ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On : 2 Aug 2012 9:39 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2988,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:54:34 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration

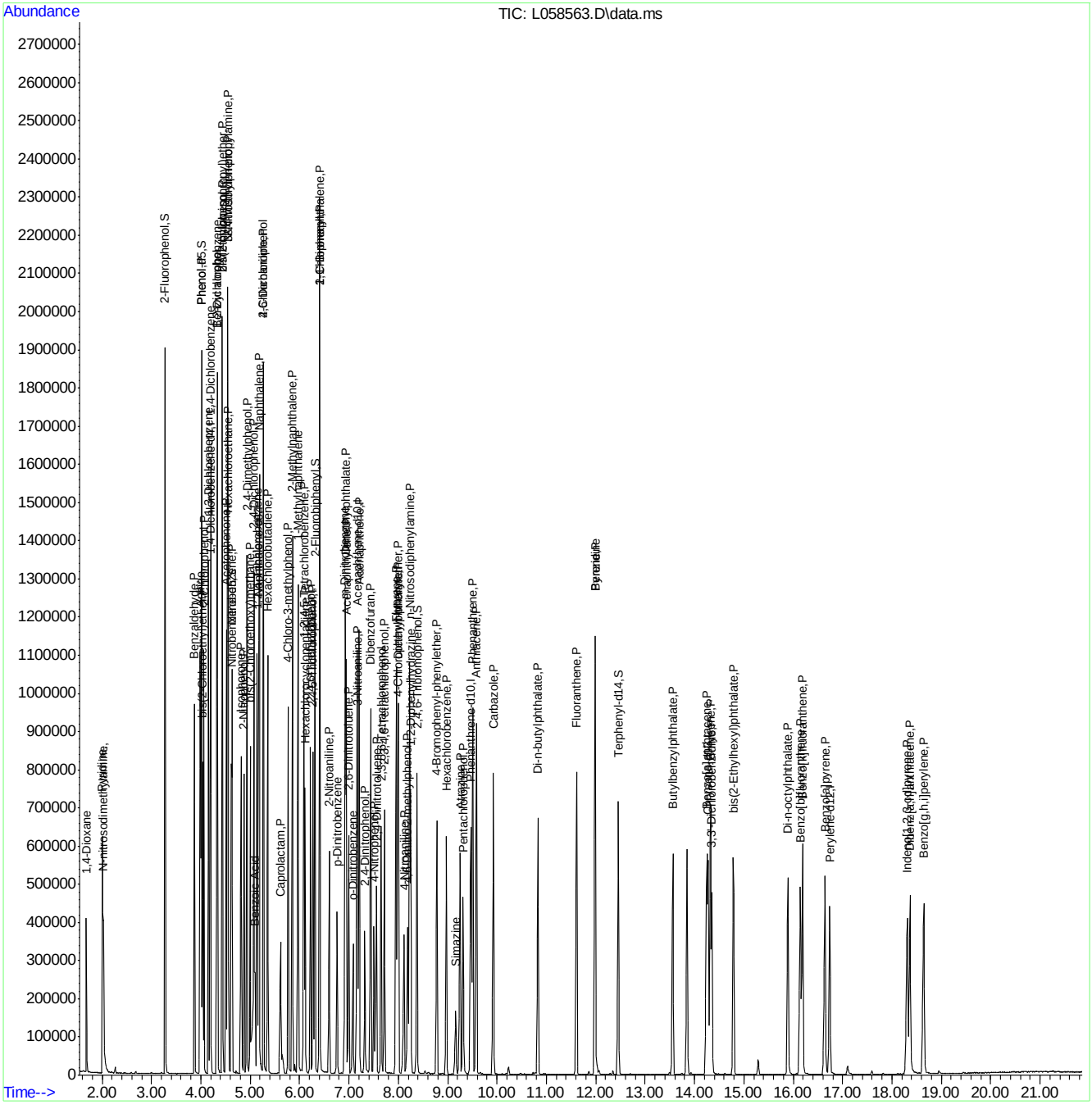
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	14.789	149	309263	52.03 ppm	99
93) Di-n-octylphthalate	15.895	149	478728	48.96 ppm	99
94) Benzo[b]fluoranthene	16.146	252	393095	49.72 ppm	99
95) Benzo[k]fluoranthene	16.194	252	355151	46.15 ppm	99
96) Benzo[a]pyrene	16.648	252	369470	49.05 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.314	276	319508	51.90 ppm	97
98) Dibenz[a,h]anthracene	18.368	278	325229	52.72 ppm	98
99) Benzo[g,h,i]perylene	18.645	276	329894	50.52 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On : 2 Aug 2012 9:39 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2988,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:54:34 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SL2988-CC2973	**Method:**	SW846 8270D
Lab FileID:	L058563.D	**Analyst approved:**	08/03/12 09:34 Nancy Filiault
Injection Time:	08/02/12 09:39	**Supervisor approved:**	08/03/12 15:31 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.62	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On    :  2 Aug 2012   9:39 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2988,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 02 12:54:00 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration
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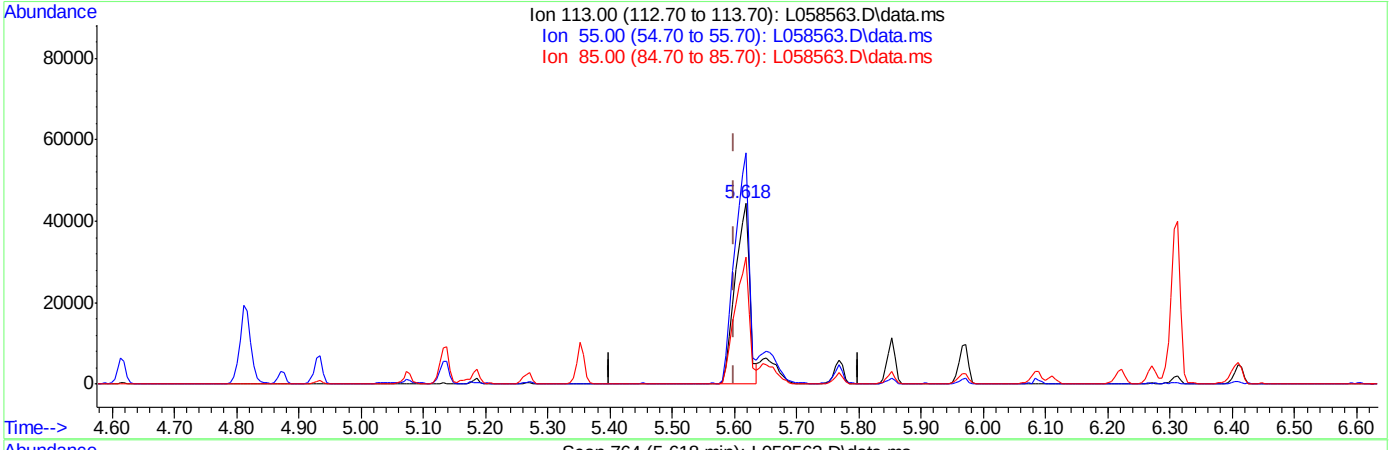

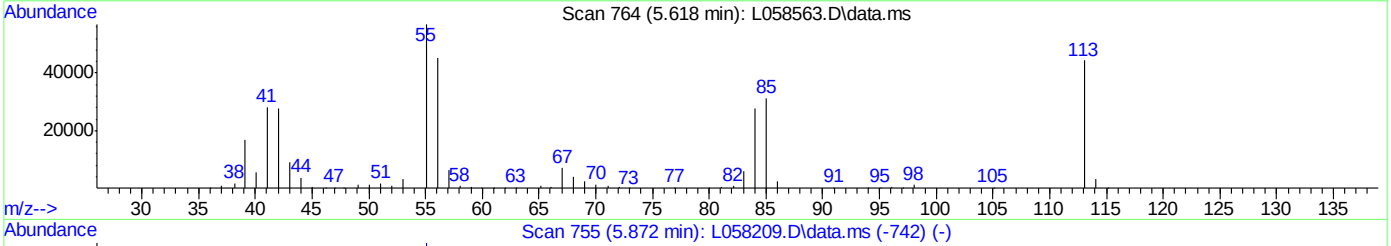

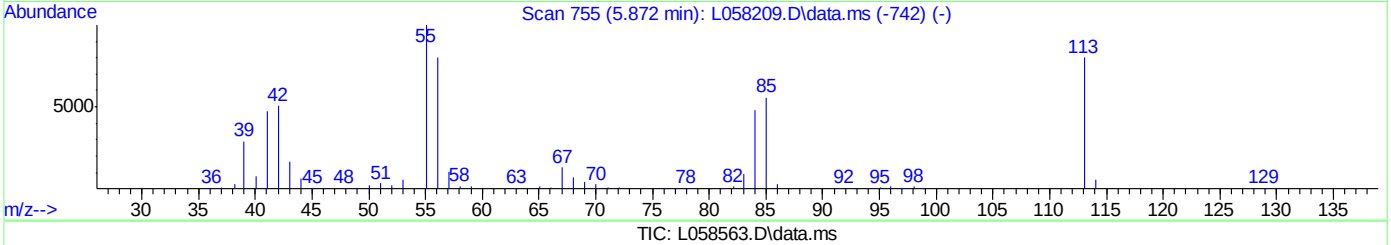

TIC: L058563.D\data.ms

(37) Caprolactam (P)

5.618min (+0.019) 42.66ppm

response 70585

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	128.47
85.00	69.20	70.53
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\080212\
Data File : L058563.D
Acq On    :  2 Aug 2012   9:39 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2988,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 02 12:54:00 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Thu Aug 02 12:53:53 2012
Response via : Initial Calibration
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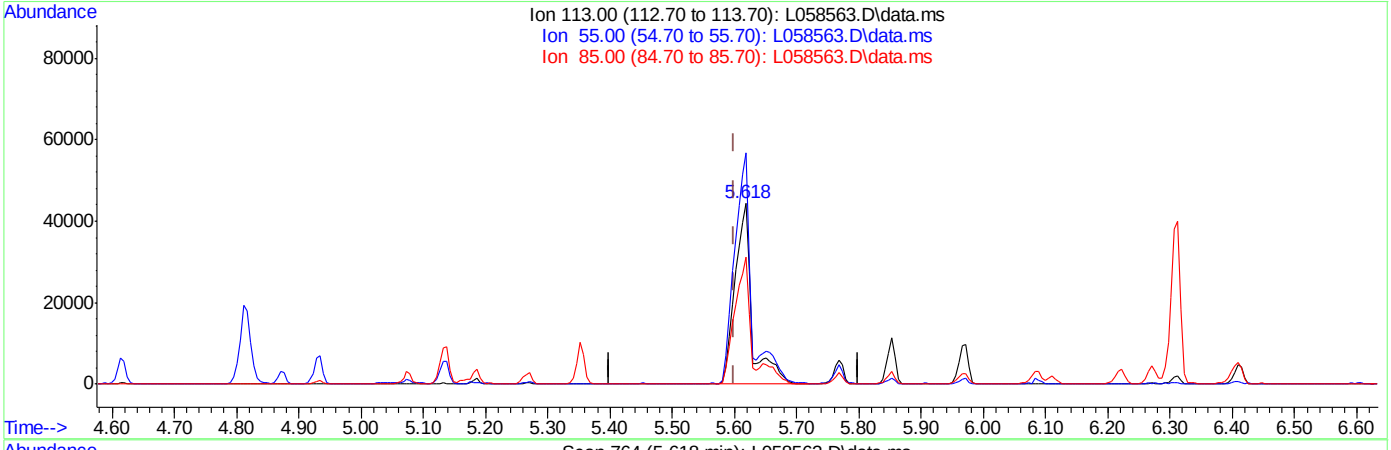
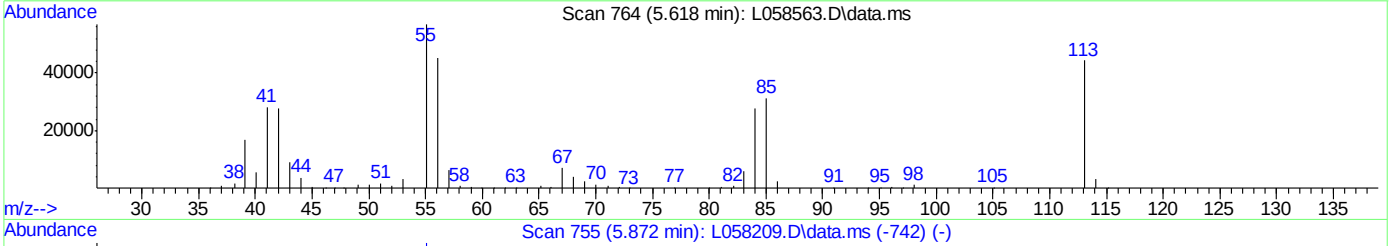
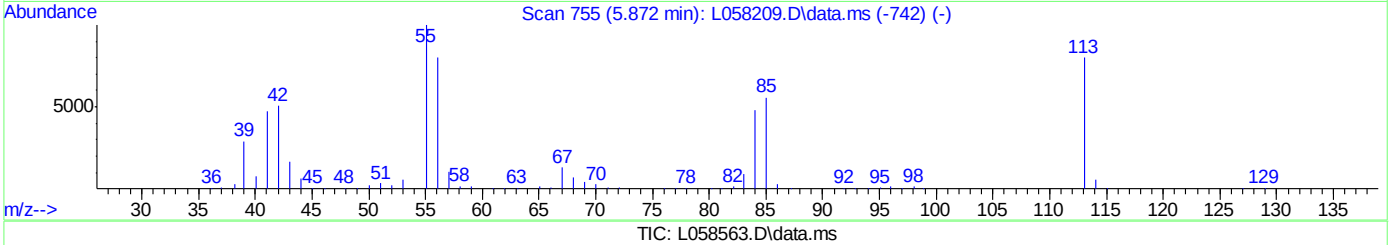






TIC: L058563.D\data.ms

(37) Caprolactam (P)

5.618min (+0.019) 50.70ppm m

response 83894

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	128.09
85.00	69.20	70.42
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:35:20 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.015	152	601325	40.00 ppm	0.00
22) Naphthalene-d8	4.966	136	2667547	40.00 ppm	0.00
41) Acenaphthene-d10	6.874	164	1285497	40.00 ppm	0.00
66) Phenanthrene-d10	9.128	188	2066752	40.00 ppm	-0.01
81) Chrysene-d12	13.904	240	1389407	40.00 ppm	-0.02
90) Perylene-d12	16.361	264	1050442	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.086	112	260926	10.12 ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 10.12%#		
9) Phenol-d5	3.828	99	360969	11.02 ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 11.02%#		
23) Nitrobenzene-d5	4.443	82	166266	4.87 ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 9.74%#		
45) 2-Fluorobiphenyl	6.051	172	229667	4.96 ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 9.92%#		
70) 2,4,6-Tribromophenol	8.043	330	46459	8.30 ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 8.30%#		
84) Terphenyl-d14	12.109	244	163867	4.13 ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 8.26%#		

Target Compounds

					Qvalue
2) 1,4-Dioxane	1.451	88	56113	4.65 ppm	89
3) N-nitrosodimethylamine	1.750	42	80775	5.10 ppm	92
4) Pyridine	1.745	79	165423	5.27 ppm	95
5) Benzaldehyde	3.695	106	113712	4.39 ppm	96
6) Aniline	3.812	93	219132	5.13 ppm	85
8) bis(2-Chloroethyl)ether	3.871	93	146883	5.22 ppm	95
10) Phenol	3.839	94	183867	5.62 ppm	93
11) 2-Chlorophenol	3.887	128	134919	5.38 ppm	99
12) 1,3-Dichlorobenzene	3.989	146	135504	5.15 ppm	98
13) 1,4-Dichlorobenzene	4.026	146	137947	5.32 ppm	98
14) 1,2-Dichlorobenzene	4.165	146	129440	5.44 ppm	99
15) Benzyl alcohol	4.149	108	96845	5.66 ppm	97
16) bis(2-chloroisopropyl)...	4.266	45	257355	4.96 ppm	79
17) 2-Methylphenol	4.261	108	131604	5.69 ppm	95
18) Acetophenone	4.336	105	216365	5.96 ppm	98
19) Hexachloroethane	4.384	117	55386	4.16 ppm	96
20) N-Nitroso-di-n-propyla...	4.368	70	110055	5.16 ppm	94
21) 3&4-Methylphenol	4.368	108	138581	4.77 ppm	100
24) Nitrobenzene	4.453	77	163048	5.03 ppm	99
25) Isophorone	4.624	82	299242	5.14 ppm	99
26) 2-Nitrophenol	4.689	139	72432	5.08 ppm	92
27) 2,4-Dimethylphenol	4.747	107	149199	5.15 ppm	99
28) bis(2-Chloroethoxy)met...	4.817	93	174983	5.22 ppm	97
29) Benzoic Acid	4.822	105	108730m	4.16 ppm	
30) 2,4-Dichlorophenol	4.876	162	101057	5.34 ppm	97
31) 1,2,4-Trichlorobenzene	4.940	180	110394	5.14 ppm	99
32) Naphthalene	4.982	128	378500	5.11 ppm	99
33) 4-Chloroaniline	5.057	127	161468	5.50 ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:35:20 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.062	162	97789	5.37	ppm		98
35) Hexachlorobutadiene	5.148	225	53290	5.06	ppm		98
36) Caprolactam	5.324	113	52177	5.78	ppm		96
37) 4-Chloro-3-methylphenol	5.527	107	121792	5.18	ppm	#	40
38) 2-Methylnaphthalene	5.613	142	246825	5.46	ppm		96
39) 1-Methylnaphthalene	5.725	142	225486	5.40	ppm		97
40) 1,2,4,5-Tetrachloroben...	5.837	216	92219	5.38	ppm		99
42) Hexachlorocyclopentadiene	5.869	237	50414	5.08	ppm		96
43) 2,4,6-Trichlorophenol	5.960	196	66853	4.92	ppm		96
44) 2,4,5-Trichlorophenol	6.003	196	66982	4.88	ppm		97
46) 1,1'-Biphenyl	6.147	154	306731	5.71	ppm		98
47) 2-Chloronaphthalene	6.136	162	197548	5.07	ppm		99
48) 2-Nitroaniline	6.323	65	85968	4.79	ppm		99
49) p-Dinitrobenzene	6.473	75	51182	4.80	ppm		89
50) Acenaphthylene	6.654	152	339054	5.28	ppm		99
51) Dimethylphthalate	6.638	163	225729	5.33	ppm		100
52) m-Dinitrobenzene	6.622	168	39644	4.96	ppm		97
53) 2,6-Dinitrotoluene	6.703	165	52193	4.94	ppm	#	70
54) o-Dinitrobenzene	6.777	50	43480	4.88	ppm		98
55) Acenaphthene	6.911	153	206760	5.23	ppm		98
56) 3-Nitroaniline	6.868	138	60703	4.66	ppm	#	80
57) 2,4-Dinitrophenol	7.012	184	18043	6.39	ppm		98
58) Dibenzofuran	7.135	168	272817	5.49	ppm		98
59) 2,4-Dinitrotoluene	7.237	165	67042	5.09	ppm		92
60) 4-Nitrophenol	7.183	109	39093	5.03	ppm		90
61) 2,3,4,6-Tetrachlorophenol	7.402	232	48041	5.24	ppm		97
62) Fluorene	7.637	166	223568	5.72	ppm		97
63) 4-Chlorophenyl-phenyle...	7.696	204	99761	5.35	ppm		97
64) Diethylphthalate	7.680	149	225451	5.59	ppm		98
65) 4-Nitroaniline	7.766	138	60322	4.97	ppm		98
67) 4,6-Dinitro-2-methylph...	7.846	198	27716	3.98	ppm		55
68) n-Nitrosodiphenylamine	7.905	169	183285	5.04	ppm		98
69) 1,2-Diphenylhydrazine	7.931	77	311035	4.65	ppm		97
71) 4-Bromophenyl-phenylether	8.460	248	50054	4.10	ppm		95
72) Hexachlorobenzene	8.642	284	46052	4.62	ppm		97
73) Simazine	8.823	201	14359	3.71	ppm		96
74) Atrazine	8.914	200	60783	4.88	ppm		96
75) Pentachlorophenol	8.968	266	29227	4.44	ppm		93
76) Phenanthrene	9.160	178	304851	5.31	ppm		99
77) Anthracene	9.229	178	306617	5.34	ppm		99
78) Carbazole	9.577	167	269801	4.97	ppm		100
79) Di-n-butylphthalate	10.506	149	330864	5.34	ppm		100
80) Fluoranthene	11.243	202	259864	6.23	ppm		98
82) Benzidine	11.633	184	118023	4.02	ppm		96
83) Pyrene	11.617	202	253618	4.26	ppm		98
85) Butylbenzylphthalate	13.225	149	121480	3.91	ppm		94
86) 3,3'-Dichlorobenzidine	13.989	252	70140	4.25	ppm		91
87) Benzo[a]anthracene	13.867	228	192422	4.93	ppm		97
88) Chrysene	13.941	228	175613	4.89	ppm		97
89) bis(2-Ethylhexyl)phtha...	14.470	149	156486	4.18	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:35:20 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.565	149	245425	3.47 ppm	98
92) Benzo[b]fluoranthene	15.747	252	170258m	4.83 ppm	
93) Benzo[k]fluoranthene	15.790	252	156294	4.53 ppm	99
94) Benzo[a]pyrene	16.244	252	152801	4.86 ppm	97
95) Indeno[1,2,3-cd]pyrene	17.900	276	108340	5.37 ppm	97
96) Dibenz[a,h]anthracene	17.969	278	111198	5.45 ppm	96
97) Benzo[g,h,i]perylene	18.220	276	120507	5.68 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

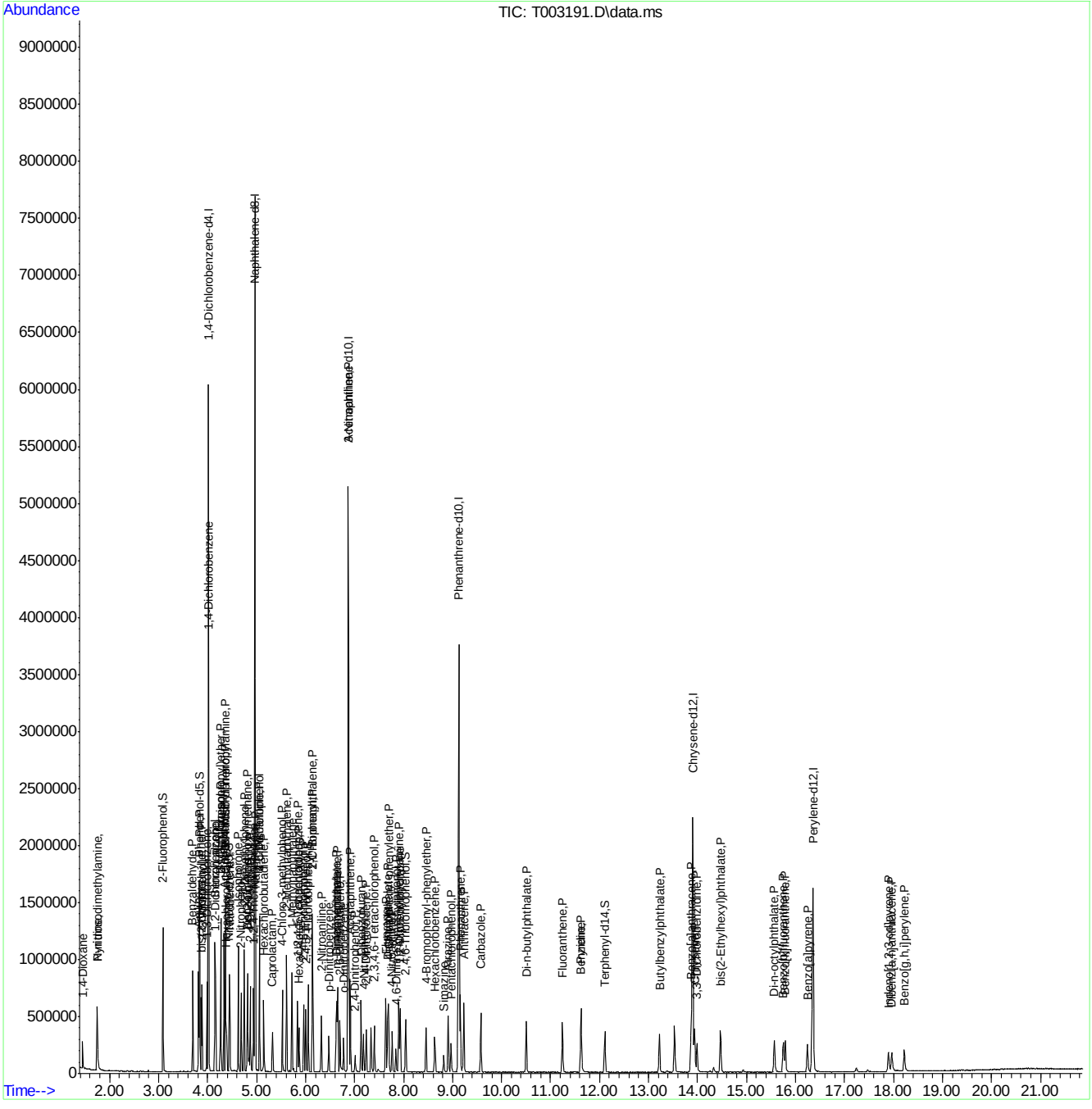
9.6.11

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:35:20 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



Manual Integration Approval Summary

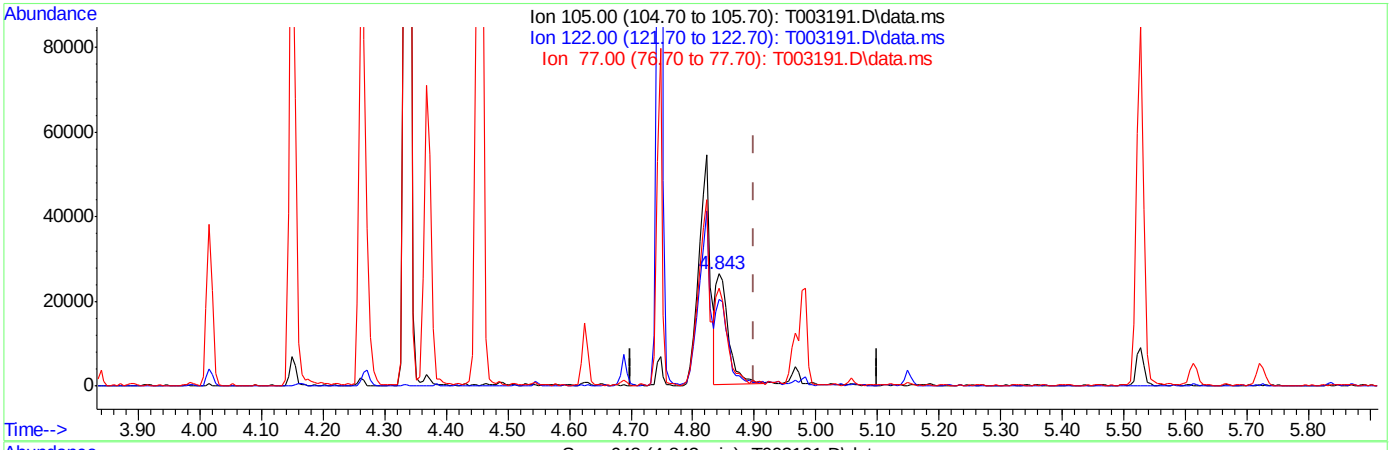
Sample Number:	ST170-IC170	**Method:**	EPA 625
Lab FileID:	T003191.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 13:20	**Supervisor approved:**	08/01/12 11:33 Mike Eger

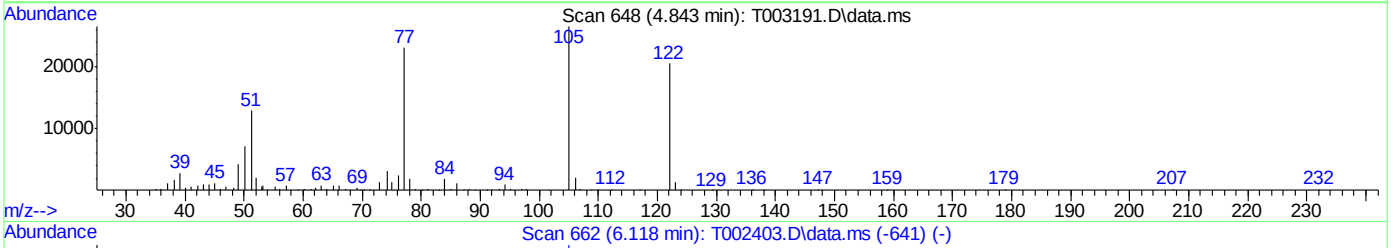
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.82	Split peak
Benzo(b)fluoranthene	205-99-2		15.75	Missed peak

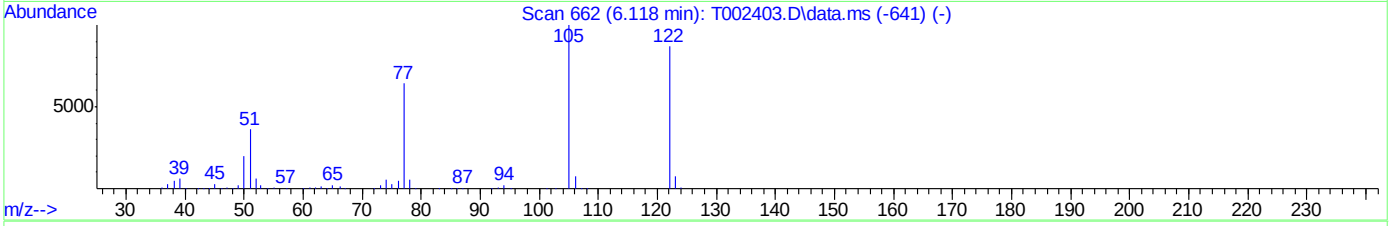
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:33:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003191.D\data.ms

(29) Benzoic Acid

4.843min (-0.057) 1.46ppm

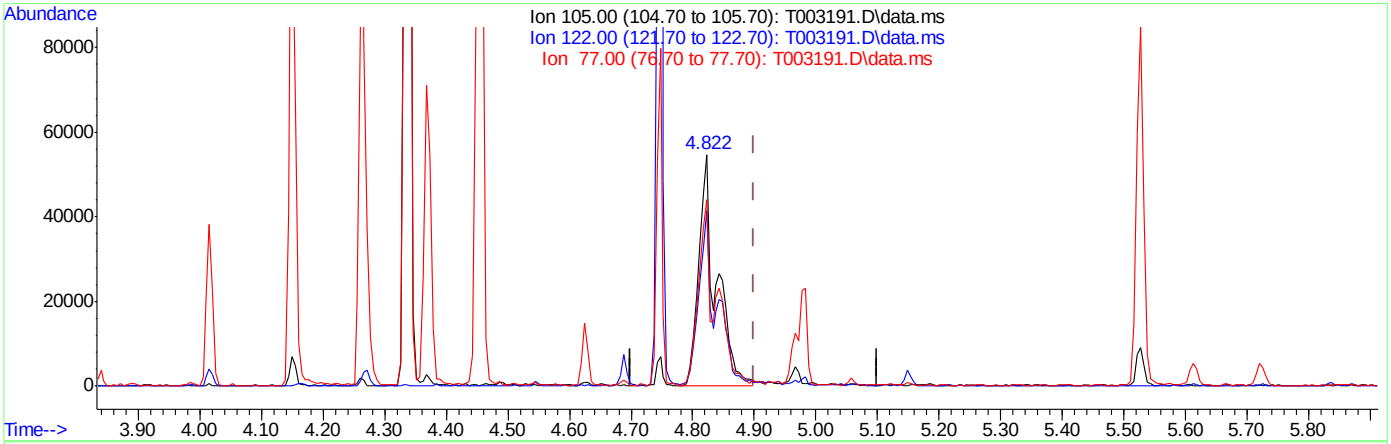
response 38190

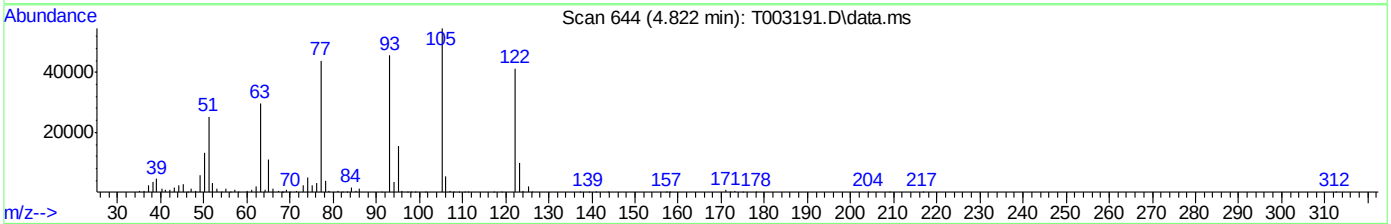
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	76.23
77.00	80.30	86.61
0.00	0.00	0.00

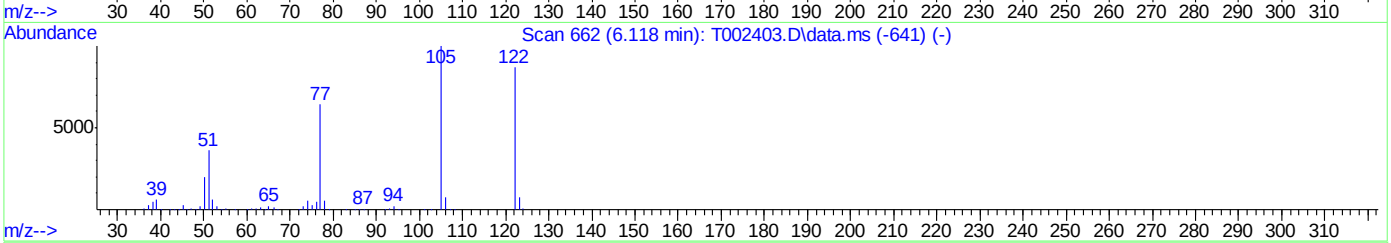
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On    : 31 Jul 2012   1:20 pm
Operator  : fouads
Sample    : ic170-5
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Aug 01 06:33:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration
```







TIC: T003191.D\data.ms

(29) Benzoic Acid

4.822min (-0.079) 4.16ppm m

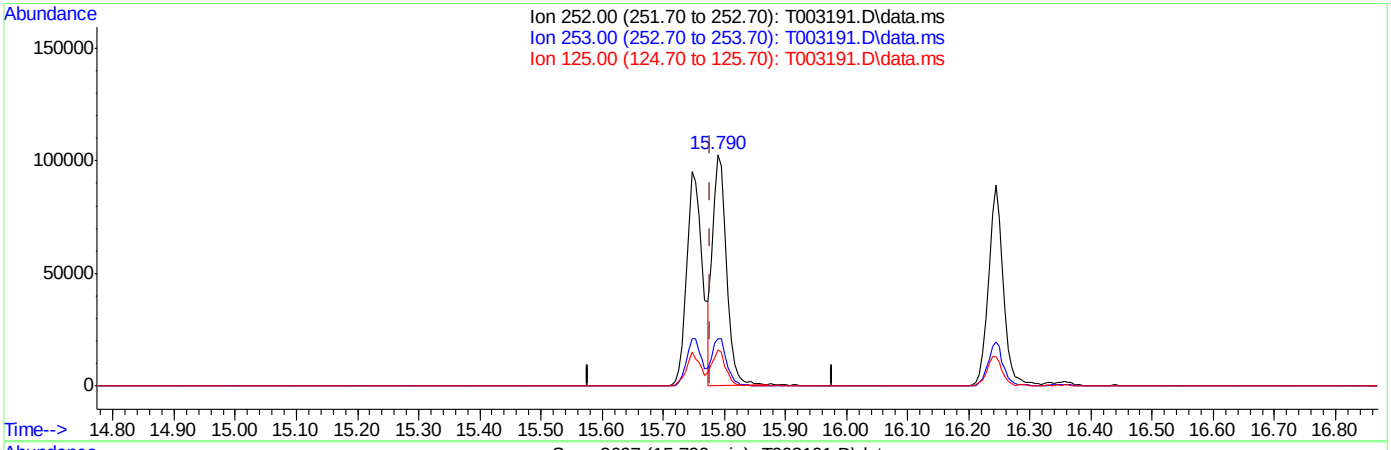
response 108730

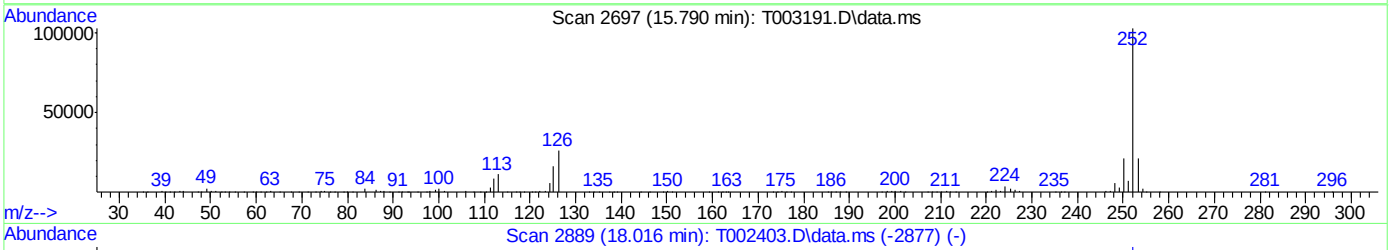
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	75.50
77.00	80.30	80.43
0.00	0.00	0.00

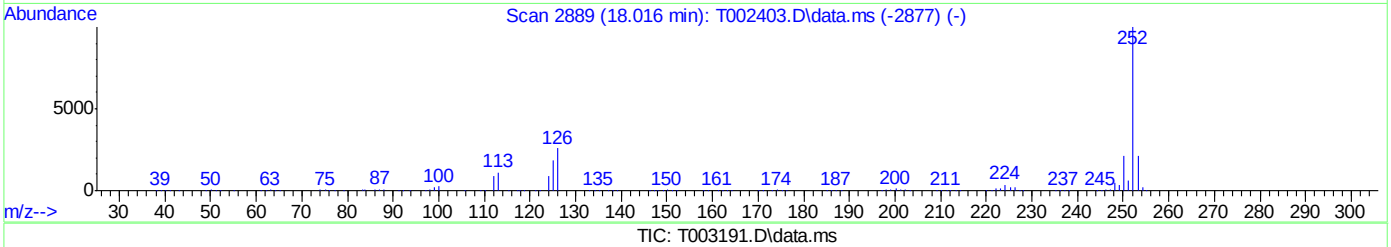
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:33:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003191.D\data.ms

(92) Benzo[b]fluoranthene (P)

15.790min (+0.011) 4.44ppm

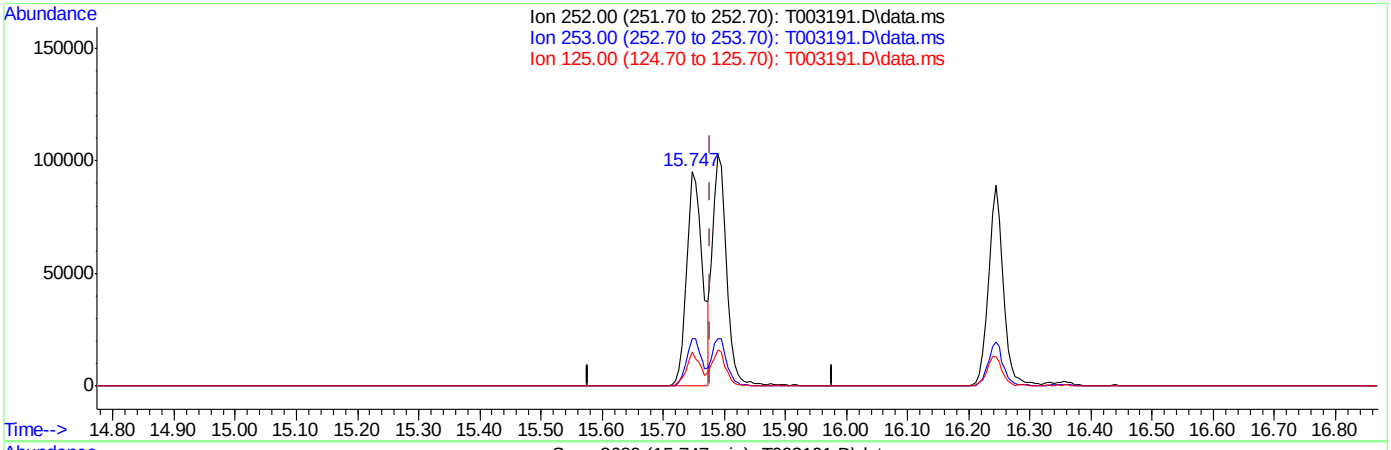
response 156294

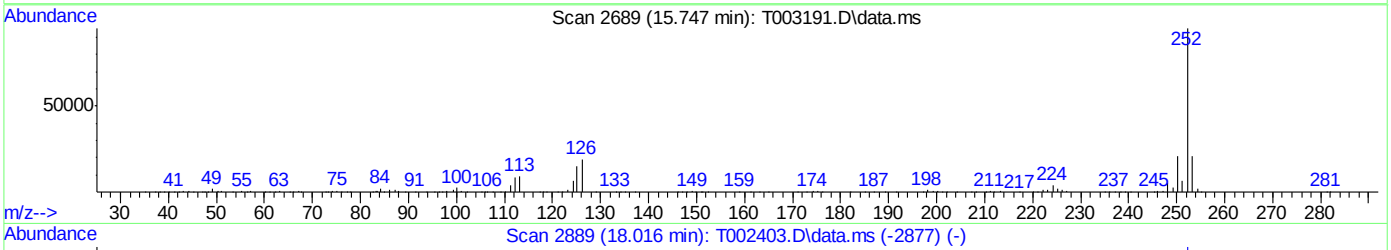
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	20.10
125.00	14.80	15.82
0.00	0.00	0.00

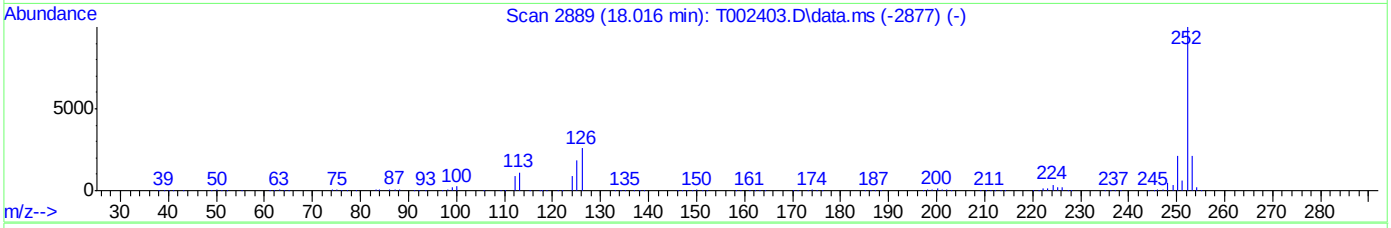
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003191.D
Acq On : 31 Jul 2012 1:20 pm
Operator : fouads
Sample : ic170-5
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 06:33:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003191.D\data.ms

(92) Benzo[b]fluoranthene (P)

15.747min (-0.032) 4.83ppm m

response 170258

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.09
125.00	14.80	15.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003192.D
Acq On : 31 Jul 2012 1:52 pm
Operator : fouads
Sample : ic170-10
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 06:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.016	152	588886	40.00	ppm	0.00
22) Naphthalene-d8	4.967	136	2550603	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1214541	40.00	ppm	0.00
66) Phenanthrene-d10	9.128	188	1971928	40.00	ppm	-0.01
81) Chrysene-d12	13.904	240	1330805	40.00	ppm	-0.02
90) Perylene-d12	16.356	264	1013026	40.00	ppm	-0.01

System Monitoring Compounds						
7) 2-Fluorophenol	3.086	112	539025	21.36	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 21.36%#			
9) Phenol-d5	3.834	99	712732	22.21	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 22.21%#			
23) Nitrobenzene-d5	4.443	82	333989	10.24	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 20.48%#			
45) 2-Fluorobiphenyl	6.051	172	461144	10.55	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 21.10%#			
70) 2,4,6-Tribromophenol	8.049	330	93428	17.49	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 17.49%#			
84) Terphenyl-d14	12.109	244	325203	8.56	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 17.12%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.446	88	115938	9.82	ppm	92
3) N-nitrosodimethylamine	1.745	42	165106	10.65	ppm	96
4) Pyridine	1.735	79	293815	9.55	ppm	99
5) Benzaldehyde	3.695	106	212923	8.62	ppm	96
6) Aniline	3.813	93	449250	10.73	ppm	86
8) bis(2-Chloroethyl)ether	3.871	93	292745	10.62	ppm	93
10) Phenol	3.839	94	362300	11.30	ppm	91
11) 2-Chlorophenol	3.887	128	272151	11.08	ppm	98
12) 1,3-Dichlorobenzene	3.989	146	278085	10.79	ppm	96
13) 1,4-Dichlorobenzene	4.026	146	272829	10.74	ppm	97
14) 1,2-Dichlorobenzene	4.165	146	263859	11.32	ppm	97
15) Benzyl alcohol	4.149	108	192659	11.51	ppm	89
16) bis(2-chloroisopropyl)...	4.267	45	501369	10.08	ppm	83
17) 2-Methylphenol	4.261	108	258664	11.41	ppm	99
18) Acetophenone	4.336	105	404504	11.37	ppm	100
19) Hexachloroethane	4.384	117	110532	8.69	ppm	94
20) N-Nitroso-di-n-propyla...	4.368	70	214311	10.52	ppm	94
21) 3&4-Methylphenol	4.368	108	272119	9.78	ppm	100
24) Nitrobenzene	4.454	77	321821	10.39	ppm	98
25) Isophorone	4.625	82	592191	10.65	ppm	98
26) 2-Nitrophenol	4.689	139	143027	10.49	ppm	99
27) 2,4-Dimethylphenol	4.748	107	296329	10.71	ppm	99
28) bis(2-Chloroethoxy)met...	4.817	93	341422	10.64	ppm	98
29) Benzoic Acid	4.844	105	236709	9.52	ppm	98
30) 2,4-Dichlorophenol	4.876	162	194584	10.76	ppm	98
31) 1,2,4-Trichlorobenzene	4.940	180	214196	10.44	ppm	99
32) Naphthalene	4.983	128	740109	10.46	ppm	99
33) 4-Chloroaniline	5.057	127	316804	11.28	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003192.D
Acq On : 31 Jul 2012 1:52 pm
Operator : fouads
Sample : ic170-10
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 06:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.063	162	192576	11.06	ppm		98
35) Hexachlorobutadiene	5.148	225	103980	10.33	ppm		100
36) Caprolactam	5.341	113	97084	11.24	ppm		95
37) 4-Chloro-3-methylphenol	5.528	107	247032	10.99	ppm	#	47
38) 2-Methylnaphthalene	5.613	142	491608	11.38	ppm		98
39) 1-Methylnaphthalene	5.725	142	442085	11.06	ppm		99
40) 1,2,4,5-Tetrachloroben...	5.837	216	178866	10.92	ppm		99
42) Hexachlorocyclopentadiene	5.869	237	107468	11.46	ppm		99
43) 2,4,6-Trichlorophenol	5.960	196	129609	10.09	ppm		95
44) 2,4,5-Trichlorophenol	6.003	196	135912	10.48	ppm		98
46) 1,1'-Biphenyl	6.147	154	565295	11.14	ppm		99
47) 2-Chloronaphthalene	6.137	162	394334	10.71	ppm		99
48) 2-Nitroaniline	6.324	65	172056	10.14	ppm		96
49) p-Dinitrobenzene	6.473	75	102852	10.22	ppm		92
50) Acenaphthylene	6.655	152	660895	10.89	ppm		99
51) Dimethylphthalate	6.639	163	442055	11.05	ppm		99
52) m-Dinitrobenzene	6.623	168	80545	10.67	ppm		95
53) 2,6-Dinitrotoluene	6.708	165	103754	10.39	ppm		88
54) o-Dinitrobenzene	6.778	50	87322	10.38	ppm		99
55) Acenaphthene	6.911	153	400539	10.72	ppm		97
56) 3-Nitroaniline	6.874	138	124934	10.15	ppm		92
57) 2,4-Dinitrophenol	7.013	184	50559	16.02	ppm		98
58) Dibenzofuran	7.136	168	529332	11.28	ppm		97
59) 2,4-Dinitrotoluene	7.242	165	132298	10.62	ppm		98
60) 4-Nitrophenol	7.184	109	77866	10.61	ppm		98
61) 2,3,4,6-Tetrachlorophenol	7.403	232	98003	11.32	ppm		96
62) Fluorene	7.638	166	442095	11.97	ppm		98
63) 4-Chlorophenyl-phenyle...	7.697	204	189370	10.76	ppm		98
64) Diethylphthalate	7.680	149	441523	11.59	ppm		100
65) 4-Nitroaniline	7.771	138	122875	10.72	ppm		98
67) 4,6-Dinitro-2-methylph...	7.846	198	66748	9.81	ppm		90
68) n-Nitrosodiphenylamine	7.905	169	355638	10.25	ppm		98
69) 1,2-Diphenylhydrazine	7.932	77	613472	9.61	ppm		98
71) 4-Bromophenyl-phenylether	8.460	248	99544	8.54	ppm		94
72) Hexachlorobenzene	8.637	284	94145	9.89	ppm		98
73) Simazine	8.824	201	26779	7.34	ppm		97
74) Atrazine	8.915	200	113547	9.56	ppm		98
75) Pentachlorophenol	8.968	266	62725	9.98	ppm		95
76) Phenanthrene	9.160	178	586899	10.71	ppm		99
77) Anthracene	9.230	178	607172	11.09	ppm		100
78) Carbazole	9.577	167	522006	10.08	ppm		98
79) Di-n-butylphthalate	10.507	149	651460	11.01	ppm		99
80) Fluoranthene	11.244	202	515163	12.94	ppm		99
82) Benzidine	11.628	184	287550	10.23	ppm		98
83) Pyrene	11.618	202	508762	8.93	ppm		99
85) Butylbenzylphthalate	13.220	149	247448	8.31	ppm		98
86) 3,3'-Dichlorobenzidine	13.990	252	143510	9.07	ppm		98
87) Benzo[a]anthracene	13.867	228	383160	10.25	ppm		99
88) Chrysene	13.942	228	358514	10.43	ppm		98
89) bis(2-Ethylhexyl)phtha...	14.465	149	318399	8.88	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003192.D
Acq On : 31 Jul 2012 1:52 pm
Operator : fouads
Sample : ic170-10
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 06:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

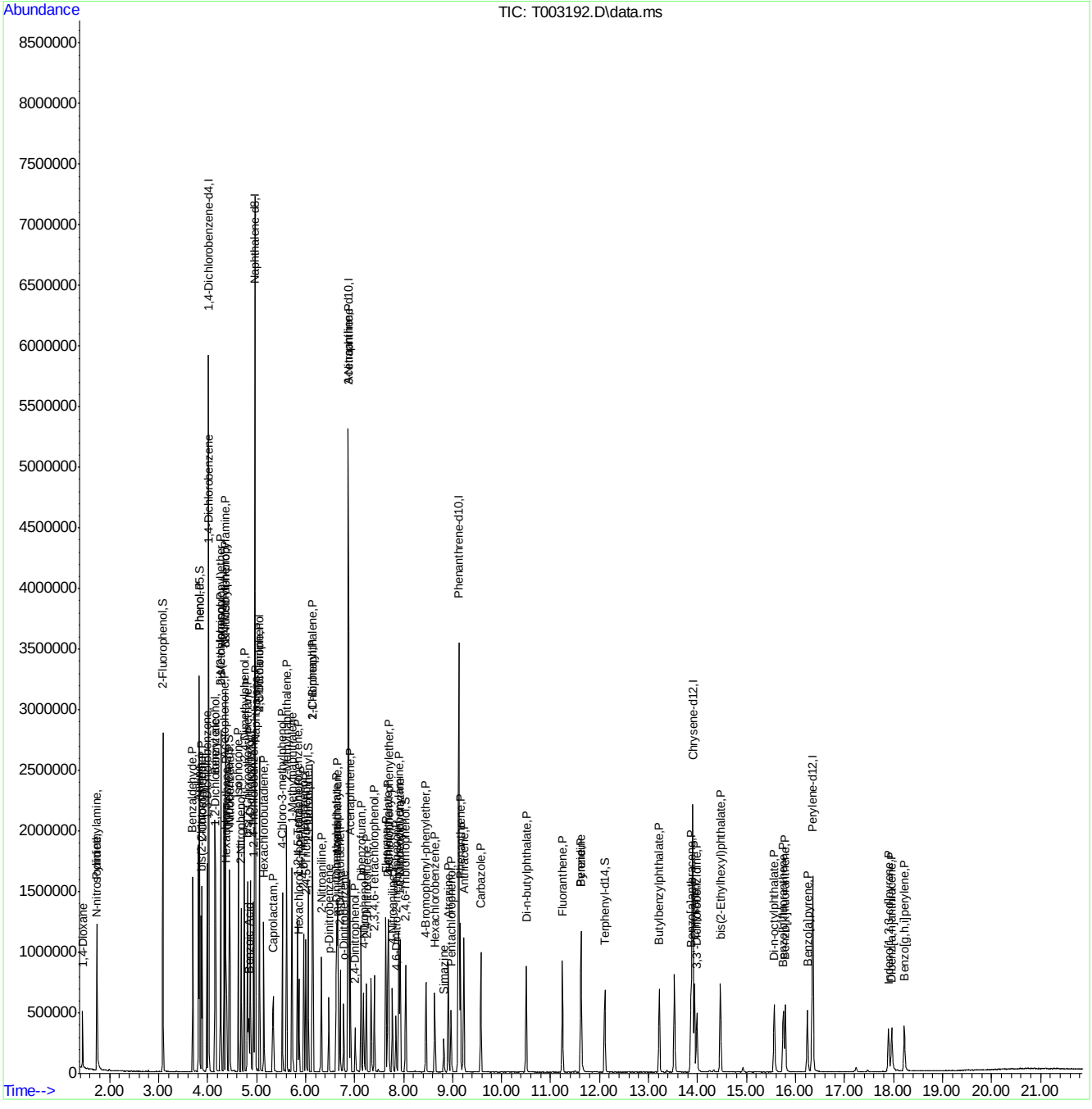
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.566	149	497919	7.31 ppm	99
92) Benzo[b]fluoranthene	15.753	252	318341	9.37 ppm	99
93) Benzo[k]fluoranthene	15.790	252	342726	10.30 ppm	98
94) Benzo[a]pyrene	16.244	252	310367	10.24 ppm	98
95) Indeno[1,2,3-cd]pyrene	17.900	276	226644	11.66 ppm	97
96) Dibenz[a,h]anthracene	17.964	278	224138	11.40 ppm	97
97) Benzo[g,h,i]perylene	18.226	276	247344	12.08 ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003192.D
Acq On : 31 Jul 2012 1:52 pm
Operator : fouads
Sample : ic170-10
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 06:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:37:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.016	152	492365	40.00	ppm	0.00
22) Naphthalene-d8	4.966	136	2174041	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1036399	40.00	ppm	0.00
66) Phenanthrene-d10	9.128	188	1697985	40.00	ppm	-0.01
81) Chrysene-d12	13.904	240	1199140	40.00	ppm	-0.02
90) Perylene-d12	16.356	264	949660	40.00	ppm	-0.01

System Monitoring Compounds						
7) 2-Fluorophenol	3.086	112	1066015	50.52	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 50.52%			
9) Phenol-d5	3.834	99	1441964	53.75	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 53.75%			
23) Nitrobenzene-d5	4.443	82	684726	24.63	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 49.26%			
45) 2-Fluorobiphenyl	6.056	172	902253	24.18	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 48.36%			
70) 2,4,6-Tribromophenol	8.054	330	183975	40.00	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 40.00%#			
84) Terphenyl-d14	12.109	244	682730	19.94	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 39.88%#			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.435	88	244412	24.76	ppm		96
3) N-nitrosodimethylamine	1.734	42	341746	26.37	ppm		97
4) Pyridine	1.724	79	661110	25.70	ppm		99
5) Benzaldehyde	3.695	106	444577	23.87	ppm		98
6) Aniline	3.813	93	918586	26.24	ppm		88
8) bis(2-Chloroethyl)ether	3.871	93	605436	26.27	ppm		92
10) Phenol	3.845	94	722225	26.94	ppm		93
11) 2-Chlorophenol	3.893	128	538403	26.21	ppm		94
12) 1,3-Dichlorobenzene	3.989	146	549781	25.51	ppm		98
13) 1,4-Dichlorobenzene	4.032	146	549566	25.88	ppm		96
14) 1,2-Dichlorobenzene	4.165	146	522136	26.79	ppm		98
15) Benzyl alcohol	4.154	108	390771	27.92	ppm		100
16) bis(2-chloroisopropyl)...	4.272	45	966617	24.83	ppm		74
17) 2-Methylphenol	4.267	108	510760	26.96	ppm	#	80
18) Acetophenone	4.341	105	871452	29.31	ppm		99
19) Hexachloroethane	4.384	117	222588	22.60	ppm		99
20) N-Nitroso-di-n-propyla...	4.373	70	419508	26.55	ppm		95
21) 3&4-Methylphenol	4.373	108	530889	24.45	ppm		97
24) Nitrobenzene	4.459	77	659227	24.98	ppm		99
25) Isophorone	4.630	82	1200834	25.33	ppm		100
26) 2-Nitrophenol	4.689	139	294175	25.32	ppm		95
27) 2,4-Dimethylphenol	4.747	107	588693	24.96	ppm		96
28) bis(2-Chloroethoxy)met...	4.817	93	689122	25.21	ppm		100
29) Benzoic Acid	4.865	105	544361m	26.02	ppm		
30) 2,4-Dichlorophenol	4.876	162	391036	25.37	ppm		98
31) 1,2,4-Trichlorobenzene	4.940	180	427278	24.43	ppm		98
32) Naphthalene	4.982	128	1527542	25.32	ppm		100
33) 4-Chloroaniline	5.063	127	626382	26.17	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:37:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.068	162	376685	25.37	ppm		98
35) Hexachlorobutadiene	5.153	225	212524	24.77	ppm		97
36) Caprolactam	5.372	113	211839	28.77	ppm		96
37) 4-Chloro-3-methylphenol	5.533	107	502290	26.23	ppm	#	43
38) 2-Methylnaphthalene	5.618	142	969749	26.33	ppm		98
39) 1-Methylnaphthalene	5.725	142	898685	26.39	ppm		99
40) 1,2,4,5-Tetrachloroben...	5.837	216	361497	25.90	ppm		98
42) Hexachlorocyclopentadiene	5.869	237	232783	29.08	ppm		100
43) 2,4,6-Trichlorophenol	5.965	196	266177	24.30	ppm		97
44) 2,4,5-Trichlorophenol	6.008	196	270422	24.44	ppm		98
46) 1,1'-Biphenyl	6.152	154	1173826	27.11	ppm		98
47) 2-Chloronaphthalene	6.142	162	770843	24.53	ppm		99
48) 2-Nitroaniline	6.329	65	351120	24.26	ppm		97
49) p-Dinitrobenzene	6.478	75	217712	25.34	ppm		96
50) Acenaphthylene	6.660	152	1332508	25.73	ppm		99
51) Dimethylphthalate	6.644	163	882585	25.85	ppm		99
52) m-Dinitrobenzene	6.628	168	165533	25.70	ppm		97
53) 2,6-Dinitrotoluene	6.713	165	207995	24.40	ppm		78
54) o-Dinitrobenzene	6.788	50	177168	24.68	ppm		98
55) Acenaphthene	6.916	153	812988	25.50	ppm		99
56) 3-Nitroaniline	6.879	138	260928	24.84	ppm		97
57) 2,4-Dinitrophenol	7.018	184	130602	36.51	ppm		100
58) Dibenzofuran	7.141	168	1069673	26.72	ppm		97
59) 2,4-Dinitrotoluene	7.248	165	274335	25.82	ppm		95
60) 4-Nitrophenol	7.194	109	166366	26.56	ppm		94
61) 2,3,4,6-Tetrachlorophenol	7.408	232	199523	27.00	ppm		98
62) Fluorene	7.643	166	884310	28.07	ppm		99
63) 4-Chlorophenyl-phenyle...	7.702	204	377714	25.14	ppm		97
64) Diethylphthalate	7.691	149	892719	27.45	ppm		100
65) 4-Nitroaniline	7.787	138	256144	26.19	ppm		99
67) 4,6-Dinitro-2-methylph...	7.857	198	156204	25.06	ppm		75
68) n-Nitrosodiphenylamine	7.915	169	718013	24.04	ppm		99
69) 1,2-Diphenylhydrazine	7.937	77	1254694	22.82	ppm		100
71) 4-Bromophenyl-phenylether	8.460	248	198677	19.80	ppm		97
72) Hexachlorobenzene	8.642	284	188039	22.95	ppm		99
73) Simazine	8.834	201	55714	18.42	ppm		97
74) Atrazine	8.930	200	246191	24.08	ppm		96
75) Pentachlorophenol	8.973	266	137875	25.47	ppm		97
76) Phenanthrene	9.165	178	1203352	25.51	ppm		99
77) Anthracene	9.240	178	1244262	26.39	ppm		99
78) Carbazole	9.582	167	1080883	24.24	ppm		99
79) Di-n-butylphthalate	10.506	149	1364760	26.79	ppm		99
80) Fluoranthene	11.254	202	1068678	31.18	ppm		100
82) Benzidine	11.634	184	655751	25.88	ppm		98
83) Pyrene	11.623	202	1053525	20.53	ppm		98
85) Butylbenzylphthalate	13.226	149	531854	19.82	ppm		97
86) 3,3'-Dichlorobenzidine	13.995	252	320094	22.45	ppm		99
87) Benzo[a]anthracene	13.872	228	842518	25.02	ppm		99
88) Chrysene	13.947	228	771715	24.92	ppm		98
89) bis(2-Ethylhexyl)phtha...	14.470	149	691885	21.42	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:37:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

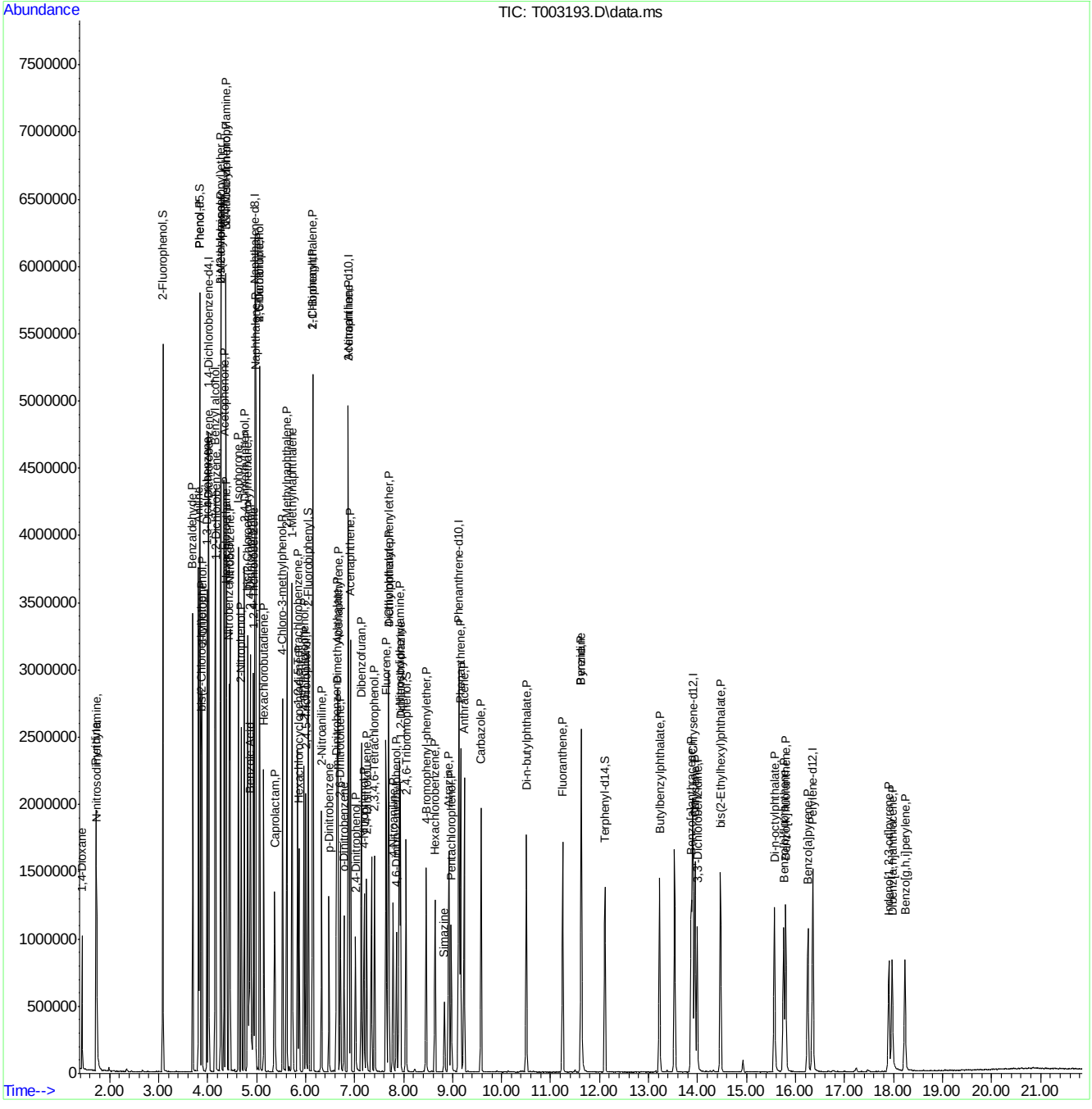
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.571	149	1125404	17.61 ppm	99
92) Benzo[b]fluoranthene	15.758	252	749971	23.55 ppm	98
93) Benzo[k]fluoranthene	15.801	252	746596	23.93 ppm	99
94) Benzo[a]pyrene	16.255	252	707054	24.88 ppm	99
95) Indeno[1,2,3-cd]pyrene	17.905	276	531872	29.18 ppm	99
96) Dibenz[a,h]anthracene	17.975	278	515943	27.99 ppm	98
97) Benzo[g,h,i]perylene	18.237	276	568786	29.64 ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:37:50 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

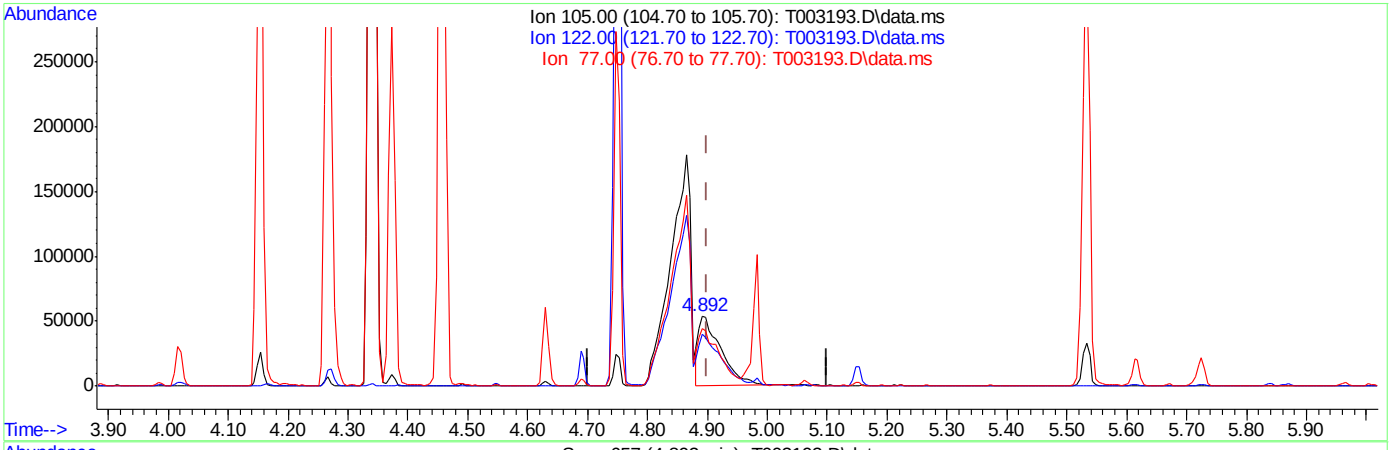
Sample Number:	ST170-IC170	**Method:**	EPA 625
Lab FileID:	T003193.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 14:25	**Supervisor approved:**	08/01/12 11:33 Mike Eger

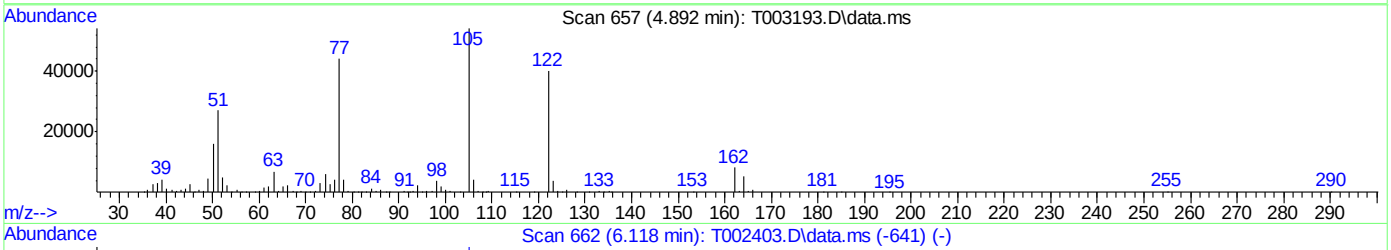
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.86	Split peak

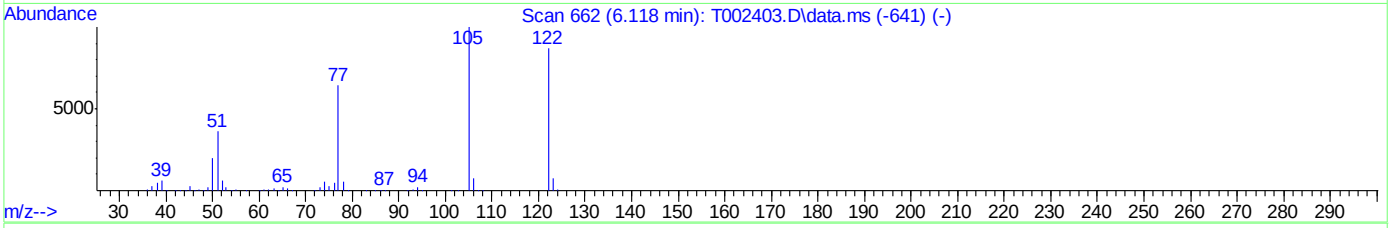
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:33:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003193.D\data.ms

(29) Benzoic Acid

4.892min (-0.009) 6.32ppm

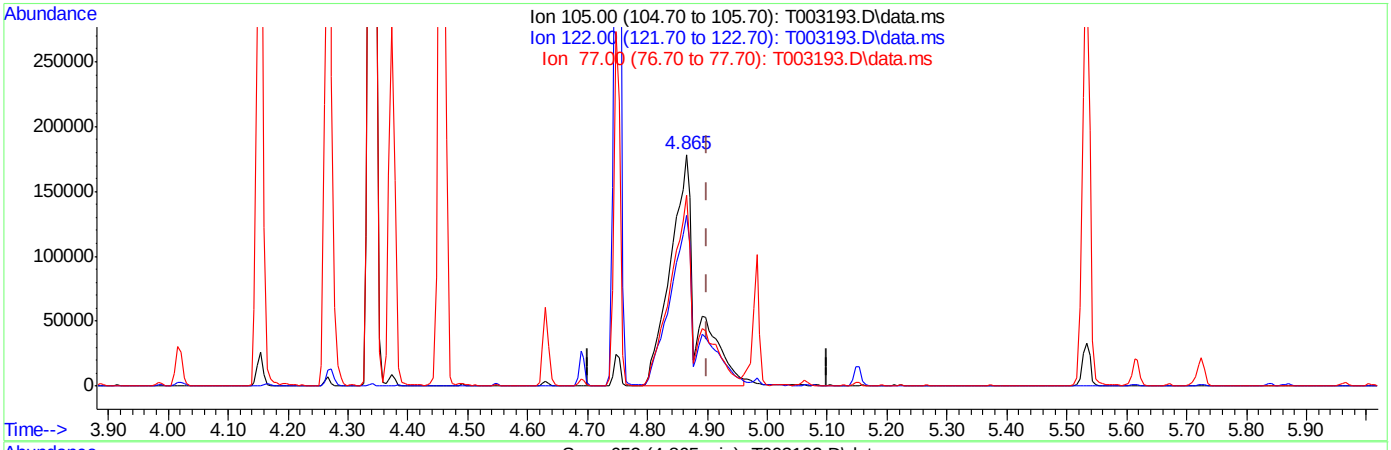
response 134405

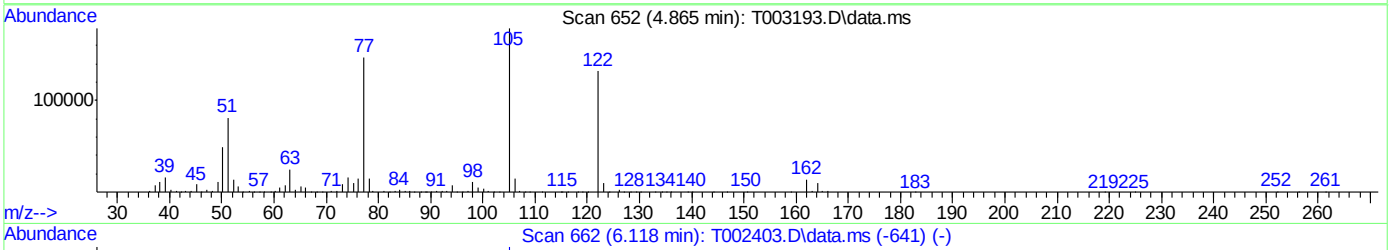
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	74.82
77.00	80.30	79.14
0.00	0.00	0.00

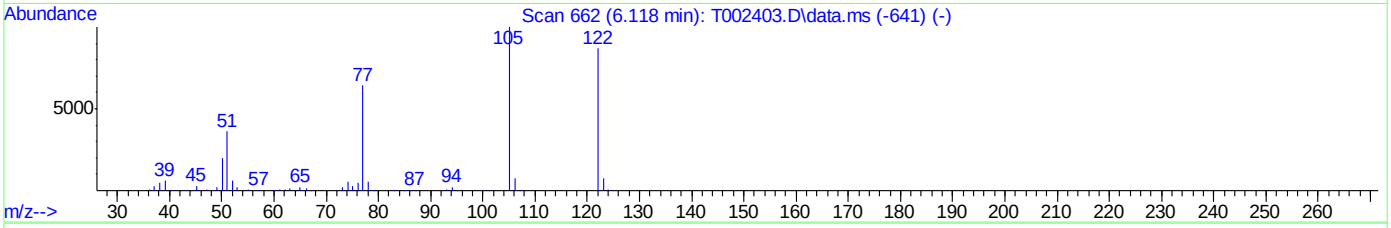
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003193.D
Acq On : 31 Jul 2012 2:25 pm
Operator : fouads
Sample : ic170-25
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 06:33:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003193.D\data.ms

(29) Benzoic Acid

4.865min (-0.036) 26.02ppm m

response 544361

Ion	Exp%	Act%
105.00	100	100
122.00	72.30	73.84
77.00	80.30	82.47
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:39:22 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	507736	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	2236972	40.00	ppm	0.00
41) Acenaphthene-d10	6.879	164	1099772	40.00	ppm	0.00
66) Phenanthrene-d10	9.133	188	1805550	40.00	ppm	0.00
81) Chrysene-d12	13.915	240	1208695	40.00	ppm	0.00
90) Perylene-d12	16.361	264	936017	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.091	112	2223395	102.17	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 102.17%#			
9) Phenol-d5	3.845	99	2962504	107.09	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 107.09%#			
23) Nitrobenzene-d5	4.448	82	1467418	51.29	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 102.58%			
45) 2-Fluorobiphenyl	6.062	172	1869985	47.23	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 94.46%			
70) 2,4,6-Tribromophenol	8.065	330	399627	81.70	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 81.70%			
84) Terphenyl-d14	12.120	244	1444340	41.84	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 83.68%			

Target Compounds

							Qvalue
2) 1,4-Dioxane	1.435	88	514213	50.51	ppm		99
3) N-nitrosodimethylamine	1.745	42	713585	53.40	ppm		98
4) Pyridine	1.718	79	1370614	51.67	ppm		100
5) Benzaldehyde	3.695	106	681948	40.21	ppm		97
6) Aniline	3.818	93	1978721	54.82	ppm		95
8) bis(2-Chloroethyl)ether	3.877	93	1255712	52.84	ppm		99
10) Phenol	3.855	94	1483137	53.65	ppm		98
11) 2-Chlorophenol	3.893	128	1124274	53.07	ppm		99
12) 1,3-Dichlorobenzene	3.989	146	1128674	50.78	ppm		98
13) 1,4-Dichlorobenzene	4.032	146	1122105	51.25	ppm		100
14) 1,2-Dichlorobenzene	4.165	146	1009147	50.22	ppm		100
15) Benzyl alcohol	4.160	108	781825	54.16	ppm		100
16) bis(2-chloroisopropyl)...	4.272	45	1782428	50.33	ppm		98
17) 2-Methylphenol	4.272	108	1025506	52.49	ppm	#	81
18) Acetophenone	4.347	105	1723016	56.19	ppm		99
19) Hexachloroethane	4.390	117	399043	45.14	ppm		83
20) N-Nitroso-di-n-propyla...	4.379	70	774224	55.31	ppm		98
21) 3&4-Methylphenol	4.379	108	1017500	52.59	ppm		99
24) Nitrobenzene	4.464	77	1360883	50.11	ppm		99
25) Isophorone	4.641	82	2628905	53.89	ppm		100
26) 2-Nitrophenol	4.694	139	623543	52.16	ppm		100
27) 2,4-Dimethylphenol	4.758	107	1248483	51.44	ppm		100
28) bis(2-Chloroethoxy)met...	4.822	93	1457721	51.82	ppm		99
29) Benzoic Acid	4.913	105	1140256	54.20	ppm		97
30) 2,4-Dichlorophenol	4.886	162	801521	50.54	ppm		97
31) 1,2,4-Trichlorobenzene	4.945	180	888861	49.40	ppm		99
32) Naphthalene	4.988	128	3175315	51.16	ppm		100
33) 4-Chloroaniline	5.068	127	1276219	51.83	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:39:22 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	759741	49.73 ppm	97
35) Hexachlorobutadiene	5.153	225	426815	48.35 ppm	99
36) Caprolactam	5.410	113	446015m	58.87 ppm	
37) 4-Chloro-3-methylphenol	5.543	107	1077787	54.69 ppm	88
38) 2-Methylnaphthalene	5.624	142	2048440	54.06 ppm	99
39) 1-Methylnaphthalene	5.730	142	1881544	53.69 ppm	99
40) 1,2,4,5-Tetrachloroben...	5.843	216	746878	52.00 ppm	99
42) Hexachlorocyclopentadiene	5.869	237	493766	58.13 ppm	97
43) 2,4,6-Trichlorophenol	5.971	196	567817	48.84 ppm	98
44) 2,4,5-Trichlorophenol	6.019	196	581660	49.54 ppm	98
46) 1,1'-Biphenyl	6.158	154	2230048	48.54 ppm	99
47) 2-Chloronaphthalene	6.147	162	1602591	48.06 ppm	98
48) 2-Nitroaniline	6.339	65	780387	50.81 ppm	99
49) p-Dinitrobenzene	6.489	75	490253	53.78 ppm	94
50) Acenaphthylene	6.671	152	2786483	50.70 ppm	100
51) Dimethylphthalate	6.655	163	1802339	49.75 ppm	99
52) m-Dinitrobenzene	6.644	168	358448	52.44 ppm	95
53) 2,6-Dinitrotoluene	6.724	165	458872	50.73 ppm	75
54) o-Dinitrobenzene	6.804	50	396309	52.02 ppm	97
55) Acenaphthene	6.927	153	1728497	51.09 ppm	98
56) 3-Nitroaniline	6.895	138	593132	53.21 ppm	98
57) 2,4-Dinitrophenol	7.034	184	329218	64.71 ppm	96
58) Dibenzofuran	7.146	168	2303703	54.23 ppm	98
59) 2,4-Dinitrotoluene	7.264	165	609755	54.08 ppm	95
60) 4-Nitrophenol	7.210	109	363937	54.76 ppm	96
61) 2,3,4,6-Tetrachlorophenol	7.419	232	423802	54.05 ppm	99
62) Fluorene	7.654	166	1896613	56.73 ppm	99
63) 4-Chlorophenyl-phenyle...	7.707	204	782465	49.09 ppm	99
64) Diethylphthalate	7.702	149	1849390	53.59 ppm	99
65) 4-Nitroaniline	7.814	138	563267	54.26 ppm	99
67) 4,6-Dinitro-2-methylph...	7.878	198	370098	50.75 ppm	56
68) n-Nitrosodiphenylamine	7.926	169	1524912	48.02 ppm	98
69) 1,2-Diphenylhydrazine	7.947	77	2682618	45.89 ppm	99
71) 4-Bromophenyl-phenylether	8.471	248	429814	40.28 ppm	93
72) Hexachlorobenzene	8.653	284	407945	46.82 ppm	97
73) Simazine	8.861	201	125011	42.38 ppm	95
74) Atrazine	8.952	200	507761	46.71 ppm	96
75) Pentachlorophenol	8.984	266	306732	53.29 ppm	97
76) Phenanthrene	9.176	178	2598289	51.80 ppm	100
77) Anthracene	9.251	178	2659658	53.05 ppm	99
78) Carbazole	9.598	167	2357501	49.72 ppm	99
79) Di-n-butylphthalate	10.517	149	2959368	54.62 ppm	100
80) Fluoranthene	11.260	202	2311819	63.43 ppm	97
82) Benzidine	11.644	184	1213325	47.51 ppm	97
83) Pyrene	11.634	202	2204232	42.61 ppm	97
85) Butylbenzylphthalate	13.231	149	1151289	42.55 ppm	100
86) 3,3'-Dichlorobenzidine	14.006	252	651065	45.31 ppm	99
87) Benzo[a]anthracene	13.883	228	1765004	52.00 ppm	99
88) Chrysene	13.963	228	1602277	51.33 ppm	99
89) bis(2-Ethylhexyl)phtha...	14.476	149	1490251	45.78 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:39:22 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

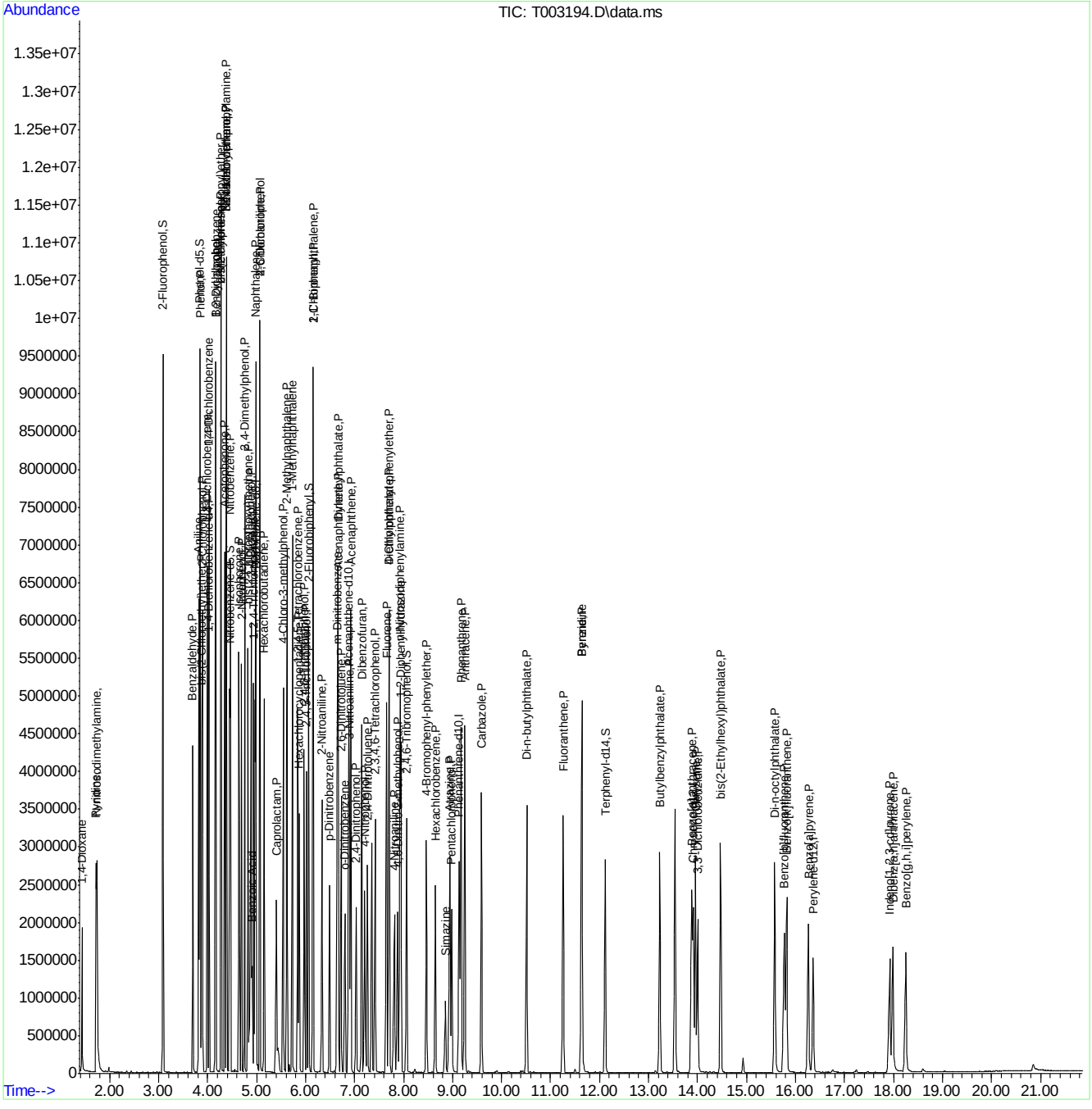
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.576	149	2435856	38.68 ppm	99
92) Benzo[b]fluoranthene	15.774	252	1533938	48.86 ppm	99
93) Benzo[k]fluoranthene	15.822	252	1452594	47.25 ppm	98
94) Benzo[a]pyrene	16.271	252	1470537	52.50 ppm	96
95) Indeno[1,2,3-cd]pyrene	17.927	276	1137223	63.30 ppm	98
96) Dibenz[a,h]anthracene	17.991	278	1122908	61.81 ppm	97
97) Benzo[g,h,i]perylene	18.258	276	1207099	63.83 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:39:22 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



Manual Integration Approval Summary

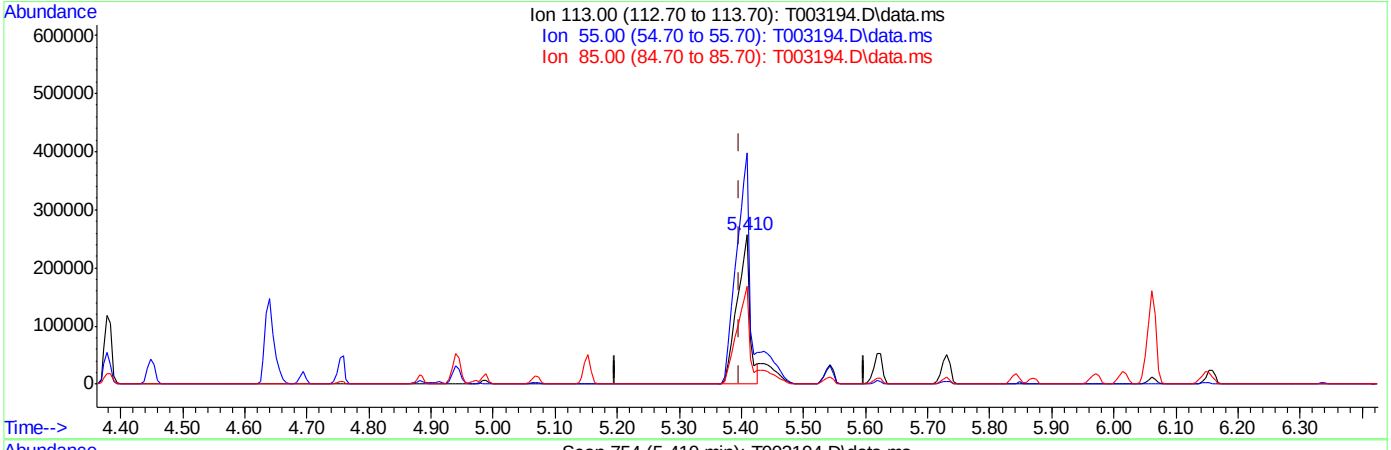
Sample Number:	ST170-IC170	**Method:**	EPA 625
Lab FileID:	T003194.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 14:58	**Supervisor approved:**	08/01/12 11:33 Mike Eger

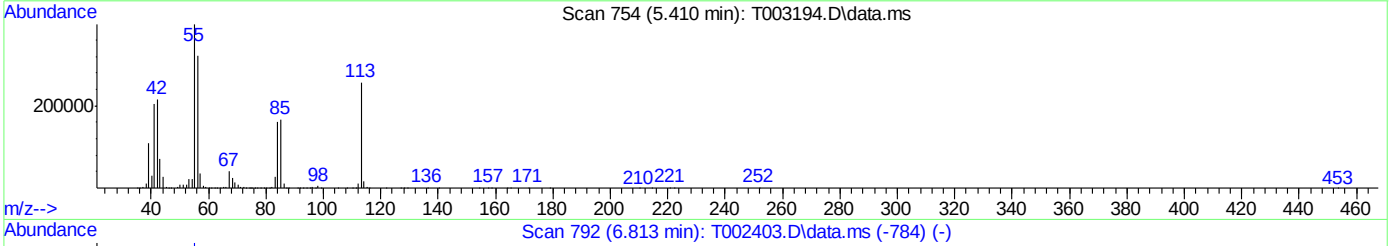
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.41	Split peak

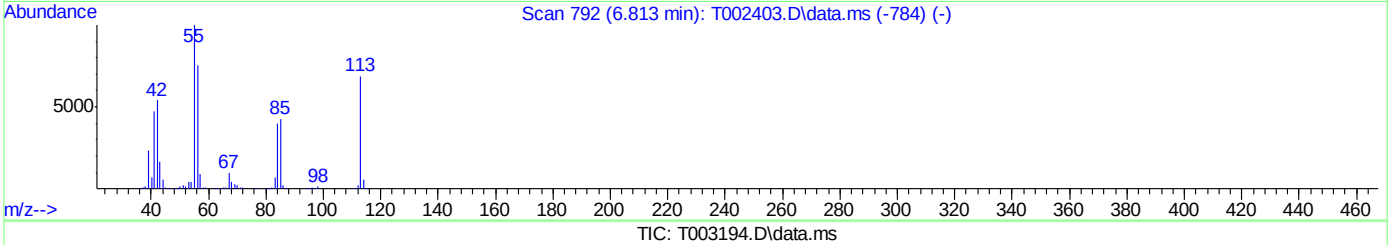
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:33:53 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003194.D\data.ms

(36) Caprolactam (P)

5.410min (+0.012) 50.27ppm

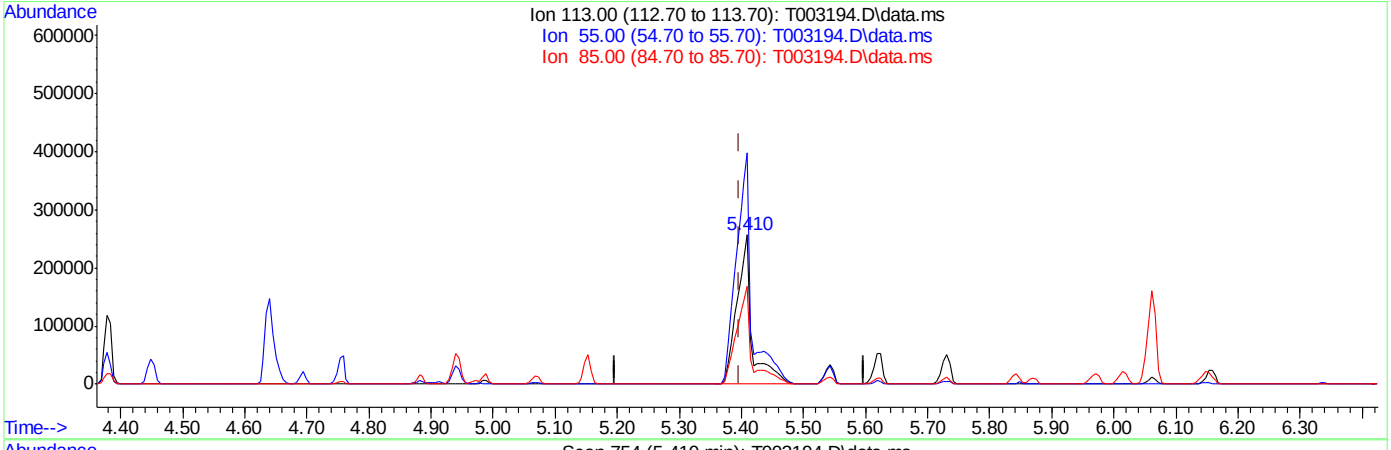
response 380868

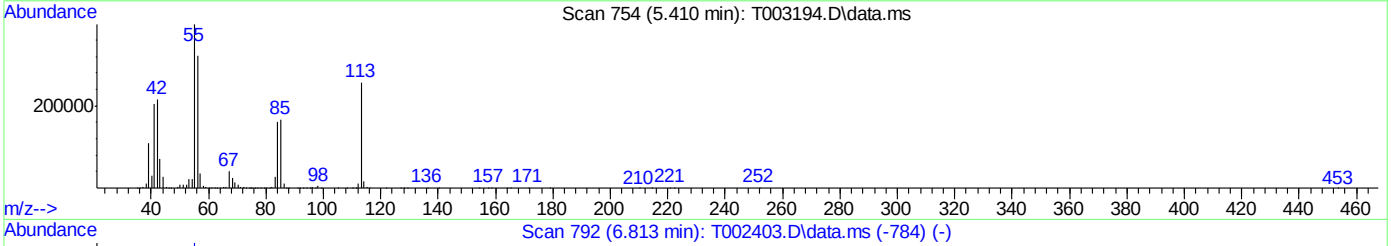
Ion	Exp%	Act%
113.00	100	100
55.00	157.10	154.91
85.00	65.50	65.21
0.00	0.00	0.00

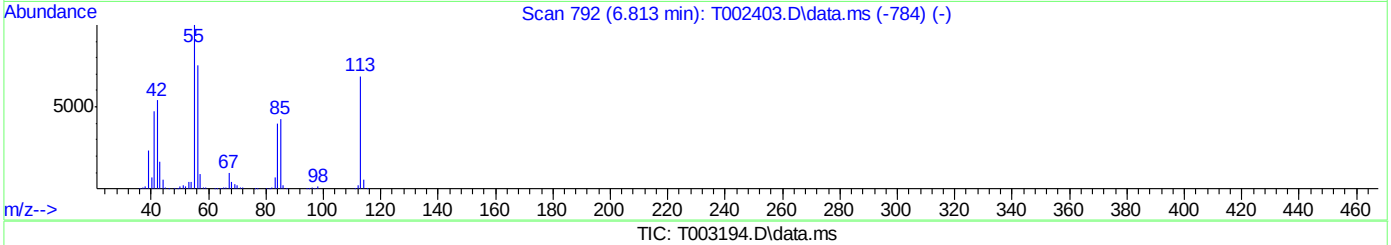
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003194.D
Acq On : 31 Jul 2012 2:58 pm
Operator : fouads
Sample : ic170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 06:33:53 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003194.D\data.ms

(36) Caprolactam (P)

5.410min (+0.012) 58.87ppm m

response 446015

Ion	Exp%	Act%
113.00	100	100
55.00	157.10	155.21
85.00	65.50	65.38
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On : 31 Jul 2012 3:30 pm
Operator : fouads
Sample : ic170-60
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 06:40:38 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	513666	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	2248268	40.00	ppm	0.00
41) Acenaphthene-d10	6.879	164	1095611	40.00	ppm	0.00
66) Phenanthrene-d10	9.139	188	1779580	40.00	ppm	0.00
81) Chrysene-d12	13.915	240	1181365	40.00	ppm	0.00
90) Perylene-d12	16.362	264	942224	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.091	112	2583324	117.34	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 117.34%#			
9) Phenol-d5	3.850	99	3427651	122.47	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 122.47%#			
23) Nitrobenzene-d5	4.448	82	1692496	58.86	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 117.72%#			
45) 2-Fluorobiphenyl	6.062	172	2166794	54.93	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 109.86%#			
70) 2,4,6-Tribromophenol	8.070	330	460592	95.54	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 95.54%			
84) Terphenyl-d14	12.120	244	1659274	49.18	ppm	-0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.36%			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.430	88	611485	59.37	ppm	92
3) N-nitrosodimethylamine	1.745	42	841597	62.26	ppm	99
4) Pyridine	1.719	79	1678576	62.55	ppm	99
5) Benzaldehyde	3.695	106	771475	47.99	ppm	98
6) Aniline	3.818	93	2335368	63.95	ppm	96
8) bis(2-Chloroethyl)ether	3.877	93	1468710	61.09	ppm	99
10) Phenol	3.855	94	1684874	60.25	ppm	96
11) 2-Chlorophenol	3.893	128	1331550	62.13	ppm	97
12) 1,3-Dichlorobenzene	3.989	146	1333720	59.31	ppm	97
13) 1,4-Dichlorobenzene	4.032	146	1321535	59.66	ppm	100
14) 1,2-Dichlorobenzene	4.165	146	1157952	56.96	ppm	98
15) Benzyl alcohol	4.160	108	899171	61.57	ppm	99
16) bis(2-chloroisopropyl)...	4.272	45	2014014	58.84	ppm	97
17) 2-Methylphenol	4.272	108	1189019	60.15	ppm	97
18) Acetophenone	4.352	105	2033128	65.54	ppm	100
19) Hexachloroethane	4.384	117	440081	51.28	ppm	99
20) N-Nitroso-di-n-propyla...	4.384	70	848432	62.45	ppm	97
21) 3&4-Methylphenol	4.384	108	1134404	60.72	ppm	93
24) Nitrobenzene	4.464	77	1590847	58.28	ppm	99
25) Isophorone	4.641	82	3072396	62.66	ppm	100
26) 2-Nitrophenol	4.694	139	726143	60.43	ppm	96
27) 2,4-Dimethylphenol	4.758	107	1426774	58.49	ppm	99
28) bis(2-Chloroethoxy)met...	4.828	93	1694596	59.94	ppm	100
29) Benzoic Acid	4.924	105	1331718	63.47	ppm	99
30) 2,4-Dichlorophenol	4.886	162	947705	59.45	ppm	98
31) 1,2,4-Trichlorobenzene	4.945	180	1032477	57.09	ppm	99
32) Naphthalene	4.988	128	3676566	58.94	ppm	100
33) 4-Chloroaniline	5.068	127	1452075	58.67	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On : 31 Jul 2012 3:30 pm
Operator : fouads
Sample : ic170-60
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 06:40:38 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	877359	57.14	ppm		98
35) Hexachlorobutadiene	5.154	225	488309	55.04	ppm		99
36) Caprolactam	5.421	113	529406m	69.52	ppm		
37) 4-Chloro-3-methylphenol	5.549	107	1252887	63.26	ppm	#	40
38) 2-Methylnaphthalene	5.624	142	2388962	62.73	ppm		99
39) 1-Methylnaphthalene	5.731	142	2184767	62.03	ppm		100
40) 1,2,4,5-Tetrachloroben...	5.843	216	859157	59.52	ppm		99
42) Hexachlorocyclopentadiene	5.875	237	583854	68.99	ppm		99
43) 2,4,6-Trichlorophenol	5.976	196	661968	57.16	ppm		99
44) 2,4,5-Trichlorophenol	6.019	196	682840	58.38	ppm		100
46) 1,1'-Biphenyl	6.158	154	2552827	55.78	ppm		100
47) 2-Chloronaphthalene	6.153	162	1839299	55.37	ppm		99
48) 2-Nitroaniline	6.340	65	895713	58.54	ppm		99
49) p-Dinitrobenzene	6.494	75	561376	61.82	ppm		95
50) Acenaphthylene	6.671	152	3139752	57.35	ppm		100
51) Dimethylphthalate	6.660	163	2019791	55.96	ppm		100
52) m-Dinitrobenzene	6.644	168	408445	59.98	ppm		97
53) 2,6-Dinitrotoluene	6.730	165	535915	59.48	ppm		86
54) o-Dinitrobenzene	6.810	50	453312	59.73	ppm		98
55) Acenaphthene	6.927	153	2002013	59.39	ppm		99
56) 3-Nitroaniline	6.900	138	685685	61.74	ppm		99
57) 2,4-Dinitrophenol	7.039	184	391524	72.30	ppm		87
58) Dibenzofuran	7.152	168	2649324	62.60	ppm		99
59) 2,4-Dinitrotoluene	7.269	165	711175	63.31	ppm		99
60) 4-Nitrophenol	7.216	109	424321	64.08	ppm		94
61) 2,3,4,6-Tetrachlorophenol	7.424	232	494908	63.36	ppm		95
62) Fluorene	7.654	166	2186850	65.66	ppm		99
63) 4-Chlorophenyl-phenyle...	7.707	204	878549	55.32	ppm		99
64) Diethylphthalate	7.702	149	2078161	60.45	ppm		99
65) 4-Nitroaniline	7.825	138	642939	62.17	ppm		98
67) 4,6-Dinitro-2-methylph...	7.883	198	428564	58.10	ppm	#	39
68) n-Nitrosodiphenylamine	7.932	169	1749180	55.89	ppm		99
69) 1,2-Diphenylhydrazine	7.953	77	3048001	52.90	ppm		97
71) 4-Bromophenyl-phenylether	8.471	248	499806	47.52	ppm		98
72) Hexachlorobenzene	8.653	284	465069	54.15	ppm		99
73) Simazine	8.866	201	139784	49.39	ppm		92
74) Atrazine	8.957	200	571113	53.30	ppm		93
75) Pentachlorophenol	8.989	266	355169	62.61	ppm		97
76) Phenanthrene	9.176	178	2952700	59.72	ppm		100
77) Anthracene	9.256	178	3079436	62.32	ppm		98
78) Carbazole	9.598	167	2679468	57.34	ppm		100
79) Di-n-butylphthalate	10.517	149	3391728	63.52	ppm		100
80) Fluoranthene	11.265	202	2629895	73.21	ppm		98
82) Benzidine	11.644	184	1328444	53.22	ppm		98
83) Pyrene	11.639	202	2547575	50.39	ppm		98
85) Butylbenzylphthalate	13.236	149	1318363	49.86	ppm		99
86) 3,3'-Dichlorobenzidine	14.006	252	730496	52.01	ppm		99
87) Benzo[a]anthracene	13.888	228	2032295	61.26	ppm		99
88) Chrysene	13.963	228	1831122	60.02	ppm		99
89) bis(2-Ethylhexyl)phtha...	14.476	149	1699135	53.40	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On : 31 Jul 2012 3:30 pm
Operator : fouads
Sample : ic170-60
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 06:40:38 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

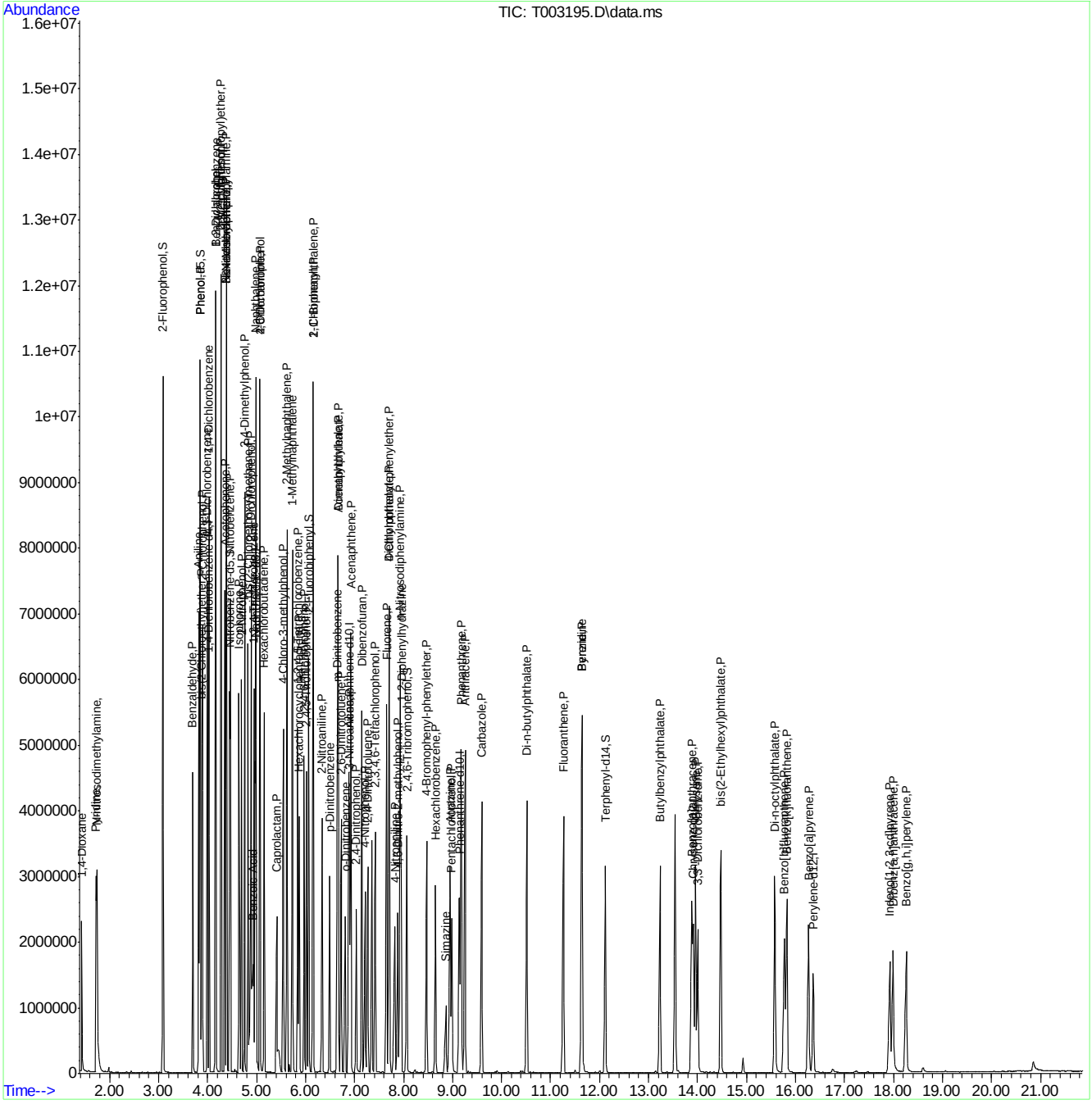
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.576	149	2789944	44.01 ppm	100
92) Benzo[b]fluoranthene	15.774	252	1838233	58.17 ppm	99
93) Benzo[k]fluoranthene	15.827	252	1728451	55.85 ppm	99
94) Benzo[a]pyrene	16.271	252	1730483	61.38 ppm	97
95) Indeno[1,2,3-cd]pyrene	17.932	276	1372869	75.91 ppm	96
96) Dibenz[a,h]anthracene	17.996	278	1340000	73.27 ppm	98
97) Benzo[g,h,i]perylene	18.263	276	1447716	76.05 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On : 31 Jul 2012 3:30 pm
Operator : fouads
Sample : ic170-60
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 06:40:38 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

Sample Number:	ST170-IC170	**Method:**	EPA 625
Lab FileID:	T003195.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 15:30	**Supervisor approved:**	08/01/12 11:33 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.42	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On    : 31 Jul 2012   3:30 pm
Operator  : fouads
Sample    : ic170-60
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Aug 01 06:33:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration
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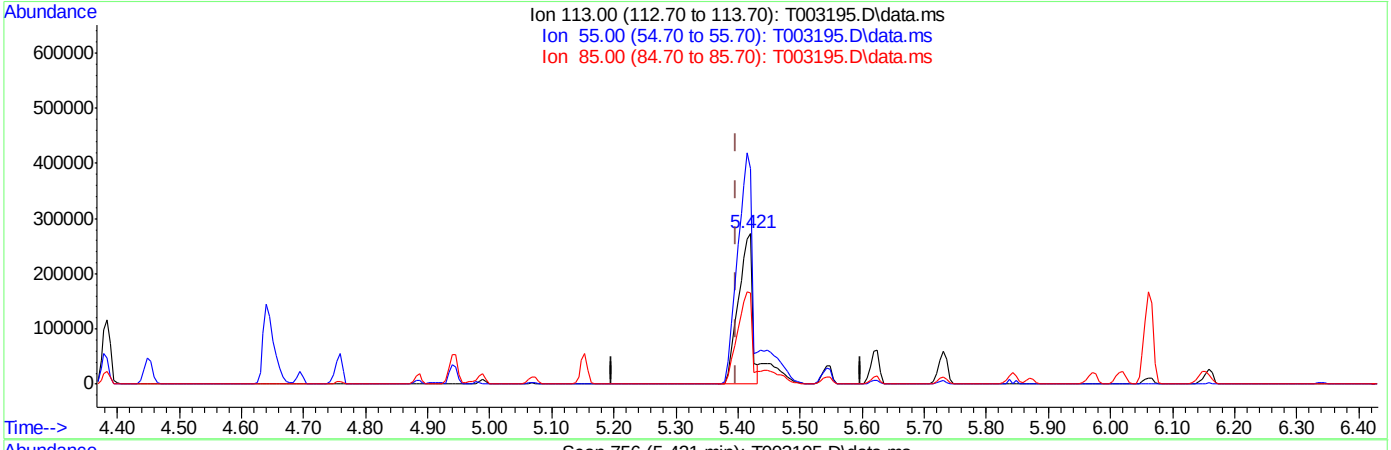
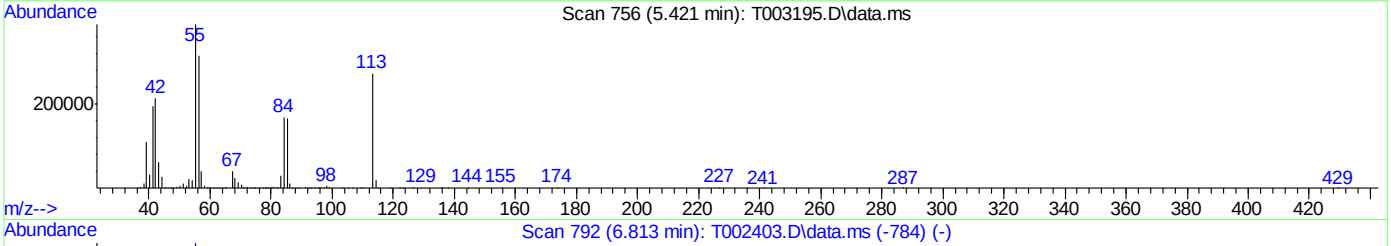
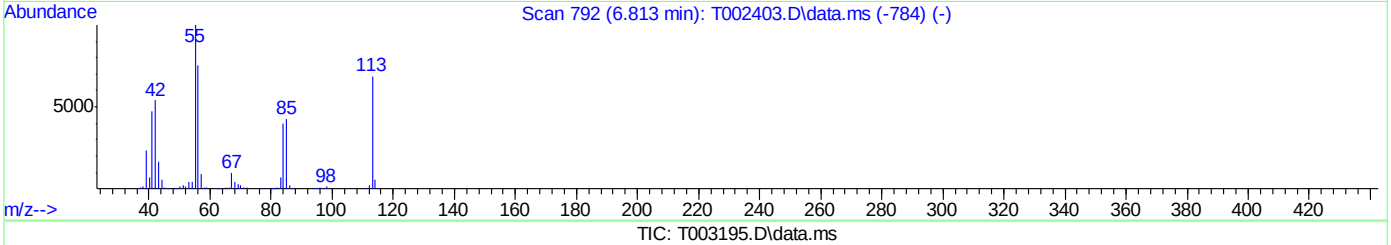






TIC: T003195.D\data.ms

(36) Caprolactam (P)

5.421min (+0.023) 57.66ppm

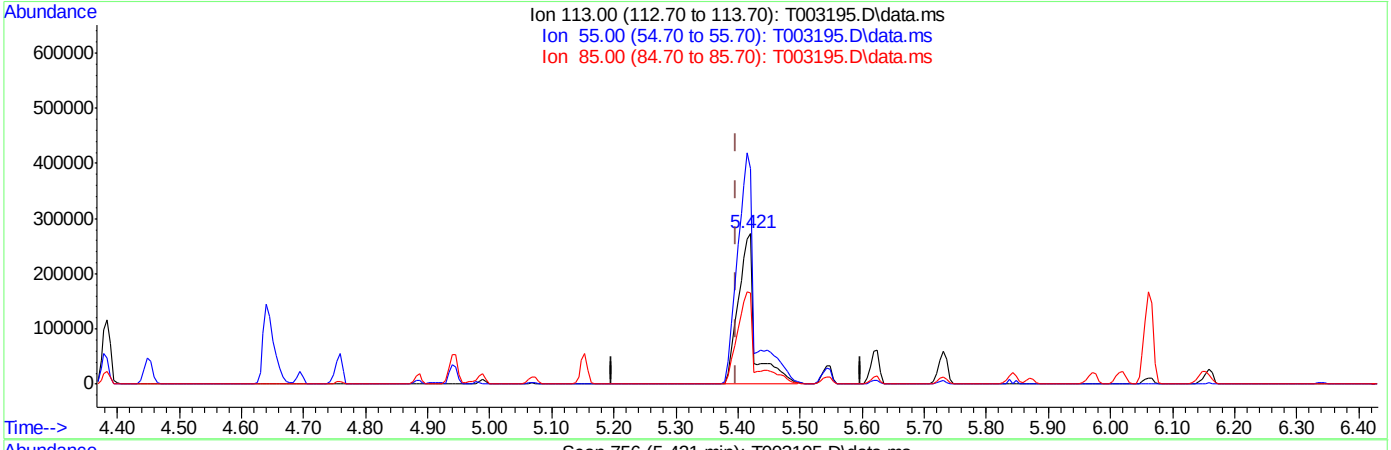
response 439086

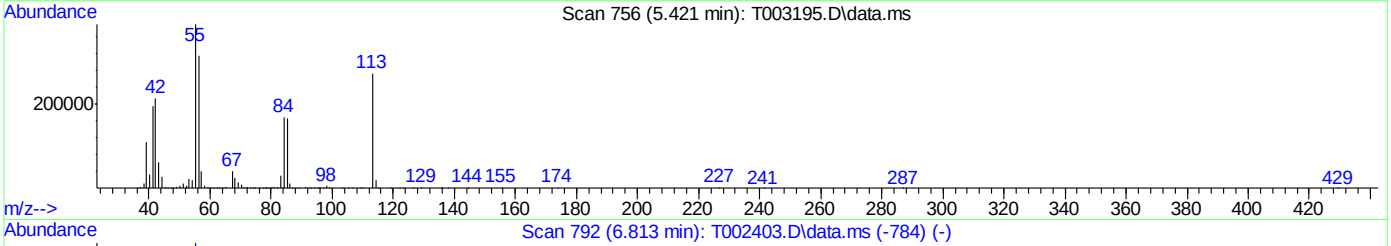
Ion	Exp%	Act%
113.00	100	100
55.00	157.10	141.44
85.00	65.50	60.54
0.00	0.00	0.00

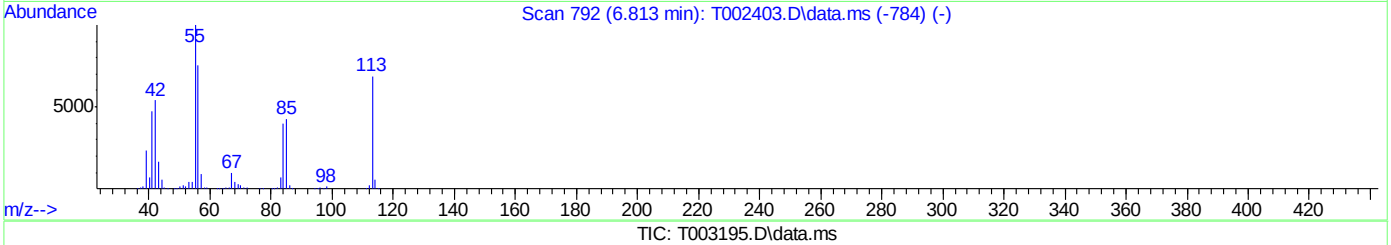
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003195.D
Acq On : 31 Jul 2012 3:30 pm
Operator : fouads
Sample : ic170-60
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 06:33:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003195.D\data.ms

(36) Caprolactam (P)

5.421min (+0.023) 69.52ppm m

response 529406

Ion	Exp%	Act%
113.00	100	100
55.00	157.10	142.78
85.00	65.50	60.75
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On : 31 Jul 2012 4:03 pm
Operator : fouads
Sample : icc170-75
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 06:32:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	513827	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	2263815	40.00	ppm	0.00
41) Acenaphthene-d10	6.879	164	1114563	40.00	ppm	0.00
66) Phenanthrene-d10	9.139	188	1802120	40.00	ppm	0.00
81) Chrysene-d12	13.920	240	1200280	40.00	ppm	0.00
90) Perylene-d12	16.367	264	959644	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.091	112	3153892	143.21	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 143.21%#			
9) Phenol-d5	3.850	99	4121517	147.22	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 147.22%#			
23) Nitrobenzene-d5	4.454	82	2096373	72.40	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 144.80%#			
45) 2-Fluorobiphenyl	6.067	172	2658452	66.25	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 132.50%#			
70) 2,4,6-Tribromophenol	8.076	330	566229	115.99	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 115.99%#			
84) Terphenyl-d14	12.125	244	2064909	60.24	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 120.48%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.430	88	749880	72.78	ppm	97
3) N-nitrosodimethylamine	1.745	42	1037623	76.73	ppm	99
4) Pyridine	1.718	79	2092972	77.97	ppm	98
5) Benzaldehyde	3.700	106	880444	62.79	ppm	98
6) Aniline	3.818	93	2906942	79.58	ppm	93
8) bis(2-Chloroethyl)ether	3.882	93	1790185	74.44	ppm	98
10) Phenol	3.861	94	2153715	76.99	ppm	97
11) 2-Chlorophenol	3.893	128	1631200	76.09	ppm	98
12) 1,3-Dichlorobenzene	3.989	146	1619892	72.02	ppm	99
13) 1,4-Dichlorobenzene	4.032	146	1572491	70.97	ppm	99
14) 1,2-Dichlorobenzene	4.165	146	1364791	67.11	ppm	99
15) Benzyl alcohol	4.165	108	1078332	73.81	ppm	93
16) bis(2-chloroisopropyl)...	4.272	45	2382730	77.55	ppm	87
17) 2-Methylphenol	4.277	108	1458976	73.79	ppm	96
18) Acetophenone	4.352	105	2523701	81.32	ppm	100
19) Hexachloroethane	4.384	117	485870	60.37	ppm	96
20) N-Nitroso-di-n-propyla...	4.390	70	1002416	85.41	ppm	98
21) 3&4-Methylphenol	4.384	108	1318748	79.07	ppm	98
24) Nitrobenzene	4.470	77	1964546	71.48	ppm	98
25) Isophorone	4.646	82	3856356	78.11	ppm	100
26) 2-Nitrophenol	4.699	139	895813	74.04	ppm	86
27) 2,4-Dimethylphenol	4.763	107	1750849	71.28	ppm	98
28) bis(2-Chloroethoxy)met...	4.828	93	2072325	72.80	ppm	99
29) Benzoic Acid	4.929	105	1719663	82.72	ppm	98
30) 2,4-Dichlorophenol	4.886	162	1154047	71.90	ppm	98
31) 1,2,4-Trichlorobenzene	4.945	180	1226570	67.36	ppm	98
32) Naphthalene	4.988	128	4535844	72.22	ppm	99
33) 4-Chloroaniline	5.073	127	1754338	70.40	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On : 31 Jul 2012 4:03 pm
Operator : fouads
Sample : icc170-75
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 06:32:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	1076697	69.65	ppm		98
35) Hexachlorobutadiene	5.153	225	584449	65.43	ppm		99
36) Caprolactam	5.437	113	663070m	86.48	ppm		
37) 4-Chloro-3-methylphenol	5.554	107	1556840	78.07	ppm	#	40
38) 2-Methylnaphthalene	5.624	142	2927068	76.33	ppm		100
39) 1-Methylnaphthalene	5.736	142	2689286	75.83	ppm		100
40) 1,2,4,5-Tetrachloroben...	5.848	216	1050593	72.28	ppm		99
42) Hexachlorocyclopentadiene	5.875	237	706411	82.05	ppm		98
43) 2,4,6-Trichlorophenol	5.976	196	812668	68.97	ppm		97
44) 2,4,5-Trichlorophenol	6.024	196	836001	70.26	ppm		100
46) 1,1'-Biphenyl	6.163	154	3037008	65.23	ppm		99
47) 2-Chloronaphthalene	6.152	162	2222332	65.76	ppm		99
48) 2-Nitroaniline	6.345	65	1115722	71.68	ppm		99
49) p-Dinitrobenzene	6.500	75	704182	76.22	ppm		96
50) Acenaphthylene	6.676	152	3785030	67.96	ppm		99
51) Dimethylphthalate	6.665	163	2383249	64.91	ppm		100
52) m-Dinitrobenzene	6.649	168	501804	72.44	ppm		92
53) 2,6-Dinitrotoluene	6.735	165	661827	72.20	ppm		82
54) o-Dinitrobenzene	6.815	50	568085	73.58	ppm		100
55) Acenaphthene	6.932	153	2459075	71.71	ppm		98
56) 3-Nitroaniline	6.911	138	851548	75.37	ppm		94
57) 2,4-Dinitrophenol	7.045	184	495533	82.70	ppm		98
58) Dibenzofuran	7.157	168	3257832	75.67	ppm		95
59) 2,4-Dinitrotoluene	7.280	165	884693	77.42	ppm		98
60) 4-Nitrophenol	7.226	109	537068	79.73	ppm		95
61) 2,3,4,6-Tetrachlorophenol	7.429	232	601851	75.74	ppm		96
62) Fluorene	7.659	166	2699889	79.68	ppm		99
63) 4-Chlorophenyl-phenyle...	7.712	204	1077161	66.68	ppm		97
64) Diethylphthalate	7.712	149	2499758	71.47	ppm		99
65) 4-Nitroaniline	7.835	138	815398	77.51	ppm		99
67) 4,6-Dinitro-2-methylph...	7.894	198	544872	70.05	ppm		48
68) n-Nitrosodiphenylamine	7.937	169	2119650	66.87	ppm		100
69) 1,2-Diphenylhydrazine	7.958	77	3689419	63.23	ppm		97
71) 4-Bromophenyl-phenylether	8.471	248	616603	57.89	ppm		96
72) Hexachlorobenzene	8.658	284	580409	66.73	ppm		98
73) Simazine	8.877	201	179709	67.43	ppm		96
74) Atrazine	8.962	200	728016	67.09	ppm		96
75) Pentachlorophenol	8.995	266	441635	76.88	ppm		99
76) Phenanthrene	9.181	178	3649767	72.90	ppm		99
77) Anthracene	9.262	178	3766059	75.26	ppm		100
78) Carbazole	9.604	167	3323518	70.23	ppm		99
79) Di-n-butylphthalate	10.522	149	4247416	78.55	ppm		99
80) Fluoranthene	11.270	202	3293049	90.53	ppm		98
82) Benzidine	11.650	184	1541146	60.76	ppm		98
83) Pyrene	11.644	202	3117510	60.69	ppm		97
85) Butylbenzylphthalate	13.236	149	1634031	60.82	ppm		100
86) 3,3'-Dichlorobenzidine	14.011	252	892652	62.56	ppm		98
87) Benzo[a]anthracene	13.893	228	2507931	74.41	ppm		98
88) Chrysene	13.973	228	2285258	73.72	ppm		99
89) bis(2-Ethylhexyl)phtha...	14.476	149	2115563	65.44	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On : 31 Jul 2012 4:03 pm
Operator : fouads
Sample : icc170-75
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 06:32:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

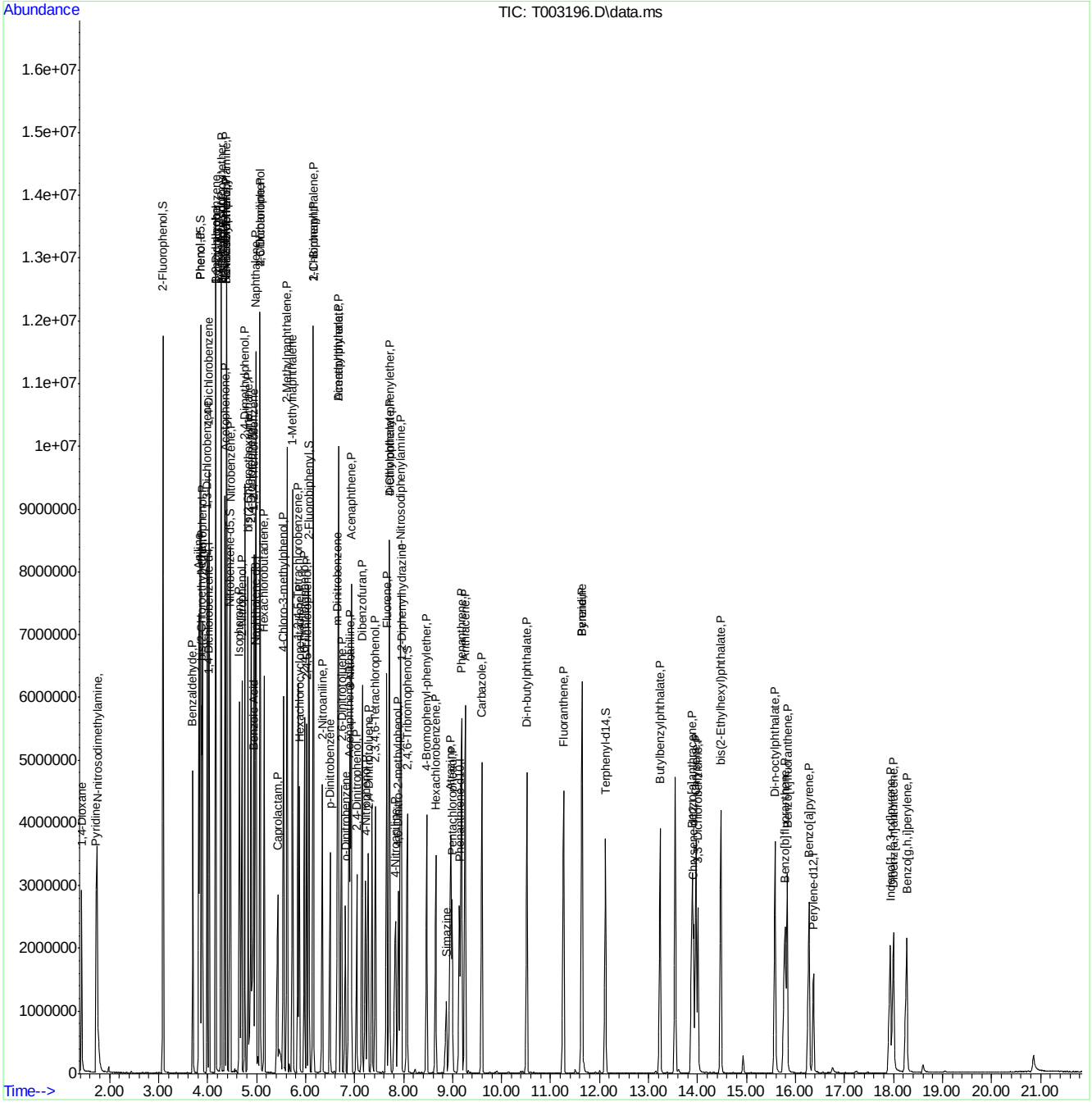
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.582	149	3472072	53.78 ppm	99
92) Benzo[b]fluoranthene	15.785	252	2267264	70.44 ppm	98
93) Benzo[k]fluoranthene	15.833	252	2055862	65.22 ppm	99
94) Benzo[a]pyrene	16.281	252	2200507	76.63 ppm	97
95) Indeno[1,2,3-cd]pyrene	17.937	276	1777005	96.48 ppm	99
96) Dibenz[a,h]anthracene	18.007	278	1795520	96.40 ppm	96
97) Benzo[g,h,i]perylene	18.274	276	1859845	95.92 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On : 31 Jul 2012 4:03 pm
Operator : fouads
Sample : icc170-75
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 06:32:54 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

Sample Number:	ST170-ICC170	**Method:**	EPA 625
Lab FileID:	T003196.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 16:03	**Supervisor approved:**	08/01/12 11:33 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.44	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On    : 31 Jul 2012   4:03 pm
Operator  : fouads
Sample    : icc170-75
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Aug 01 06:32:21 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration
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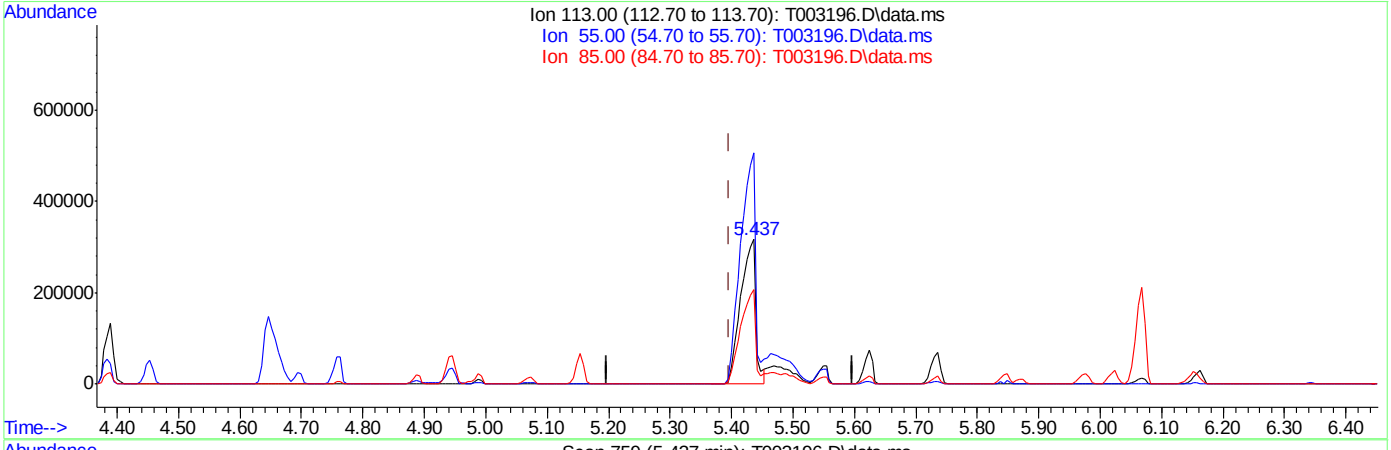
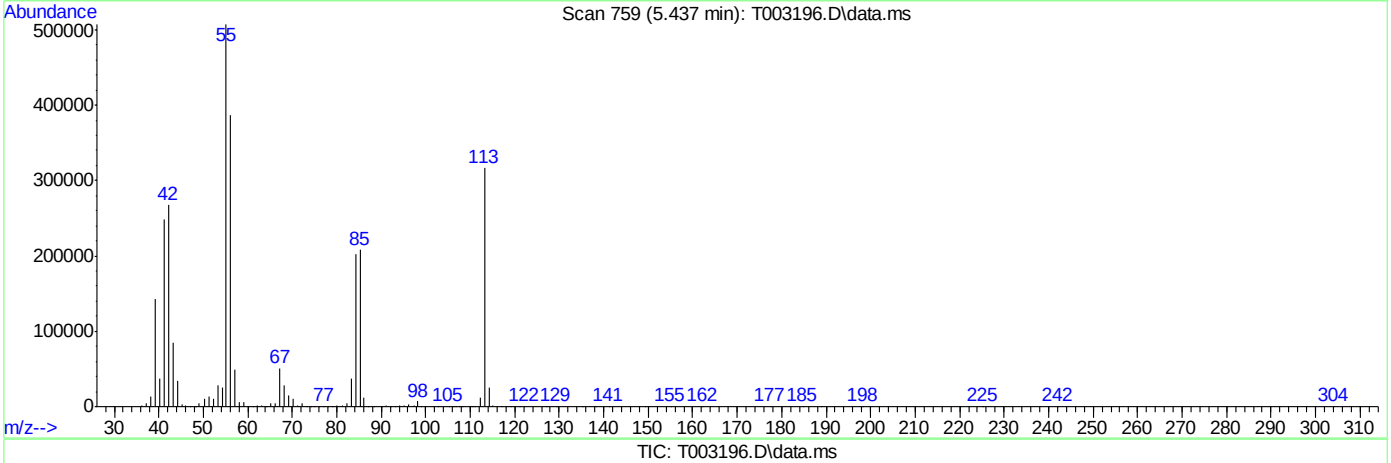




TIC: T003196.D\data.ms

(36) Caprolactam (P)

5.437min (+0.039) 71.36ppm

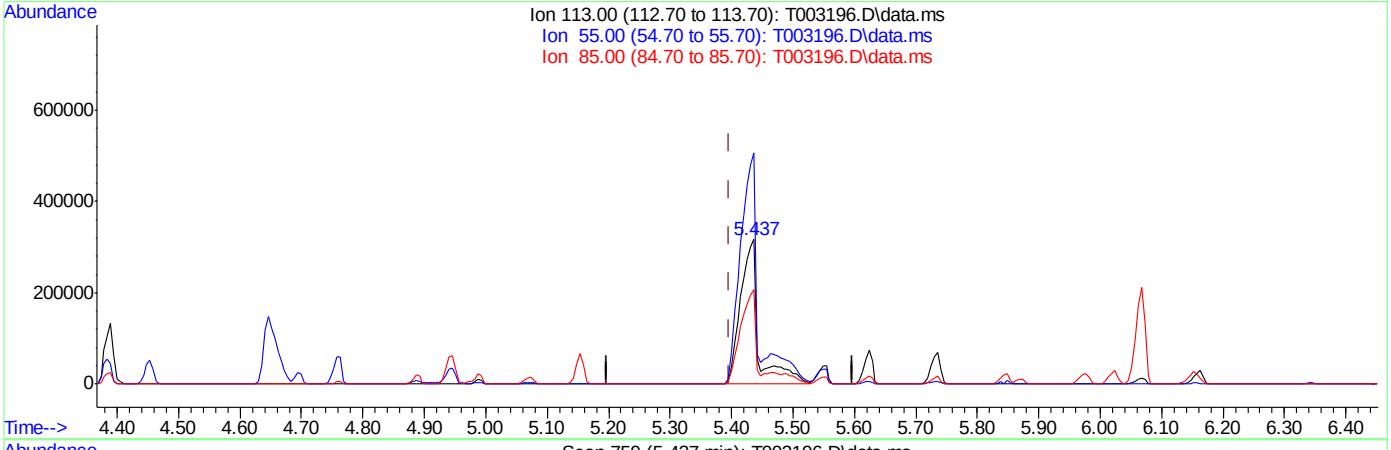
response 547135

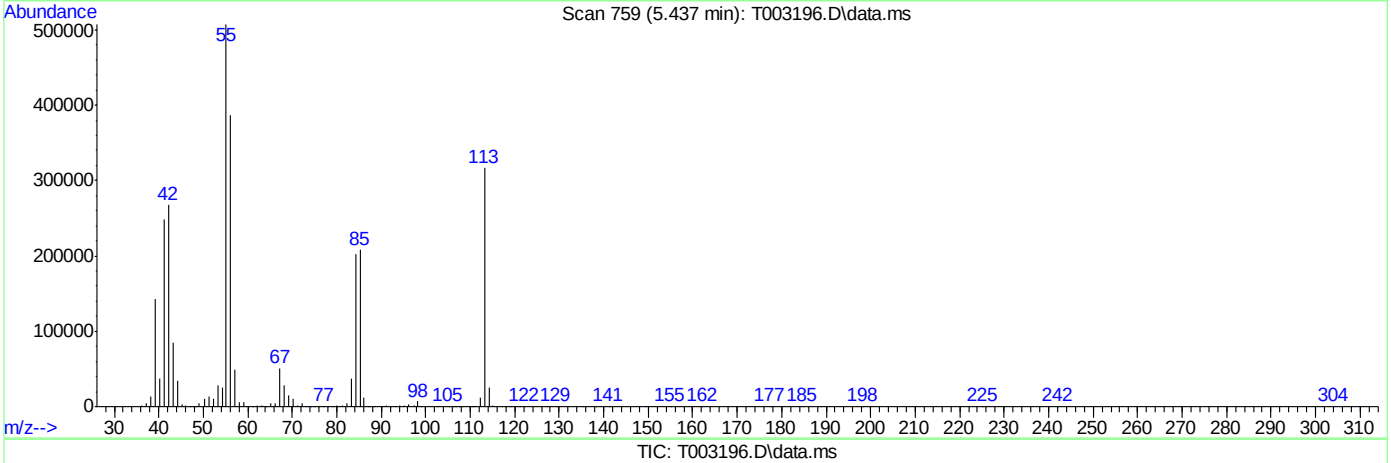
Ion	Exp%	Act%
113.00	100	100
55.00	157.10	160.21
85.00	65.50	65.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003196.D
Acq On : 31 Jul 2012 4:03 pm
Operator : fouads
Sample : icc170-75
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 06:32:21 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration





TIC: T003196.D\data.ms

(36) Caprolactam (P)

5.437min (+0.039) 86.48ppm m

response 663070

Ion	Exp%	Act%
113.00	100	100
55.00	157.10	160.25
85.00	65.50	65.73
0.00	0.00	0.00

T003197.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:46:17 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	580333	40.00	ppm	0.00
22) Naphthalene-d8	4.972	136	2516660	40.00	ppm	0.00
41) Acenaphthene-d10	6.884	164	1227091	40.00	ppm	0.00
66) Phenanthrene-d10	9.144	188	1975736	40.00	ppm	0.00
81) Chrysene-d12	13.926	240	1307813	40.00	ppm	0.00
90) Perylene-d12	16.372	264	1086833	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.097	112	3965009	159.41	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 159.41%#			
9) Phenol-d5	3.855	99	5180934	163.85	ppm	0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 163.85%#			
23) Nitrobenzene-d5	4.459	82	2651824	82.39	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 164.78%#			
45) 2-Fluorobiphenyl	6.072	172	3305841	74.83	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 149.66%#			
70) 2,4,6-Tribromophenol	8.081	330	696717	130.17	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 130.17%#			
84) Terphenyl-d14	12.131	244	2521325	67.51	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 135.02%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.430	88	969754	83.34	ppm	98
3) N-nitrosodimethylamine	1.751	42	1329867	87.08	ppm	99
4) Pyridine	1.719	79	2677299	88.31	ppm	99
5) Benzaldehyde	3.700	106	997205	63.26	ppm	98
6) Aniline	3.823	93	3713702	90.02	ppm	97
8) bis(2-Chloroethyl)ether	3.882	93	2278916	83.90	ppm	99
10) Phenol	3.866	94	2647817	83.81	ppm	97
11) 2-Chlorophenol	3.898	128	2065389	85.30	ppm	95
12) 1,3-Dichlorobenzene	3.994	146	2043346	80.43	ppm	95
13) 1,4-Dichlorobenzene	4.037	146	1975107	78.92	ppm	98
14) 1,2-Dichlorobenzene	4.171	146	1679887	73.14	ppm	97
15) Benzyl alcohol	4.176	108	1365255	82.74	ppm	95
16) bis(2-chloroisopropyl)...	4.277	45	2924364	93.17	ppm	87
17) 2-Methylphenol	4.283	108	1872039	83.83	ppm	99
18) Acetophenone	4.358	105	3157846	90.10	ppm	100
19) Hexachloroethane	4.390	117	604439	73.71	ppm	80
20) N-Nitroso-di-n-propyla...	4.395	70	1332414	Below Cal		100
21) 3&4-Methylphenol	4.395	108	1606348	95.82	ppm	91
24) Nitrobenzene	4.470	77	2467993	80.77	ppm	99
25) Isophorone	4.651	82	4965087	90.46	ppm	100
26) 2-Nitrophenol	4.699	139	1145221	85.15	ppm	92
27) 2,4-Dimethylphenol	4.769	107	2213984	81.08	ppm	98
28) bis(2-Chloroethoxy)met...	4.833	93	2604448	82.30	ppm	99
29) Benzoic Acid	4.967	105	2213125m	96.93	ppm	
30) 2,4-Dichlorophenol	4.892	162	1454496	81.52	ppm	99
31) 1,2,4-Trichlorobenzene	4.945	180	1553430	76.74	ppm	100
32) Naphthalene	4.993	128	5530766	79.21	ppm	100
33) 4-Chloroaniline	5.079	127	2079690	75.07	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:46:17 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	5.073	162	1309406	76.19	ppm		98
35) Hexachlorobutadiene	5.159	225	732727	73.78	ppm		99
36) Caprolactam	5.453	113	902752m	105.91	ppm		
37) 4-Chloro-3-methylphenol	5.560	107	1948583	87.89	ppm	#	68
38) 2-Methylnaphthalene	5.629	142	3632006	85.20	ppm		97
39) 1-Methylnaphthalene	5.736	142	3332177	84.51	ppm		99
40) 1,2,4,5-Tetrachloroben...	5.848	216	1319506	81.66	ppm		100
42) Hexachlorocyclopentadiene	5.875	237	894080	94.33	ppm		98
43) 2,4,6-Trichlorophenol	5.982	196	1025421	79.05	ppm		99
44) 2,4,5-Trichlorophenol	6.030	196	1053689	80.43	ppm		98
46) 1,1'-Biphenyl	6.169	154	3622903	70.68	ppm		100
47) 2-Chloronaphthalene	6.158	162	2723014	73.19	ppm		98
48) 2-Nitroaniline	6.350	65	1396361	81.49	ppm		98
49) p-Dinitrobenzene	6.505	75	885670	87.08	ppm		97
50) Acenaphthylene	6.681	152	4501879	73.42	ppm		98
51) Dimethylphthalate	6.676	163	2795161	69.14	ppm		100
52) m-Dinitrobenzene	6.660	168	604434	79.25	ppm	#	72
53) 2,6-Dinitrotoluene	6.740	165	834499	82.69	ppm		81
54) o-Dinitrobenzene	6.826	50	710211	83.55	ppm		97
55) Acenaphthene	6.938	153	3039914	80.52	ppm		97
56) 3-Nitroaniline	6.917	138	1057286	85.00	ppm		98
57) 2,4-Dinitrophenol	7.055	184	637528	90.88	ppm		95
58) Dibenzofuran	7.162	168	4060220	85.66	ppm		90
59) 2,4-Dinitrotoluene	7.290	165	1105574	87.88	ppm		97
60) 4-Nitrophenol	7.237	109	671443	90.54	ppm		97
61) 2,3,4,6-Tetrachlorophenol	7.435	232	743169	84.94	ppm		95
62) Fluorene	7.664	166	3334597	89.39	ppm		99
63) 4-Chlorophenyl-phenyle...	7.718	204	1303172	73.27	ppm		95
64) Diethylphthalate	7.718	149	3046467	79.12	ppm		99
65) 4-Nitroaniline	7.857	138	1014887	87.63	ppm		97
67) 4,6-Dinitro-2-methylph...	7.910	198	679523	77.70	ppm	#	43
68) n-Nitrosodiphenylamine	7.948	169	2557325	73.59	ppm		98
69) 1,2-Diphenylhydrazine	7.964	77	4453010	69.61	ppm		98
71) 4-Bromophenyl-phenylether	8.476	248	763303	65.36	ppm		99
72) Hexachlorobenzene	8.663	284	724331	75.96	ppm		97
73) Simazine	8.893	201	217949	78.06	ppm		95
74) Atrazine	8.973	200	924135	77.68	ppm		97
75) Pentachlorophenol	9.000	266	552485	87.73	ppm		99
76) Phenanthrene	9.192	178	4515411	82.26	ppm		98
77) Anthracene	9.267	178	4651771	84.79	ppm		100
78) Carbazole	9.609	167	4117386	79.36	ppm		100
79) Di-n-butylphthalate	10.528	149	5216342	87.99	ppm		99
80) Fluoranthene	11.276	202	4030801	101.07	ppm		98
82) Benzidine	11.650	184	1736680	62.84	ppm		98
83) Pyrene	11.650	202	3798157	67.86	ppm		97
85) Butylbenzylphthalate	13.242	149	2023282	69.12	ppm		97
86) 3,3'-Dichlorobenzidine	14.022	252	1066436	68.59	ppm		99
87) Benzo[a]anthracene	13.899	228	3122014	85.01	ppm		99
88) Chrysene	13.979	228	2804327	83.03	ppm		99
89) bis(2-Ethylhexyl)phtha...	14.481	149	2600660	73.84	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:46:17 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Di-n-octylphthalate	15.587	149	4323363	59.13 ppm	99
92) Benzo[b]fluoranthene	15.795	252	3242662	88.96 ppm	100
93) Benzo[k]fluoranthene	15.843	252	2442487	68.42 ppm	98
94) Benzo[a]pyrene	16.292	252	2795804	85.97 ppm	97
95) Indeno[1,2,3-cd]pyrene	17.948	276	2325275	111.47 ppm	96
96) Dibenz[a,h]anthracene	18.012	278	2342087	111.03 ppm	98
97) Benzo[g,h,i]perylene	18.290	276	2442407	111.23 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

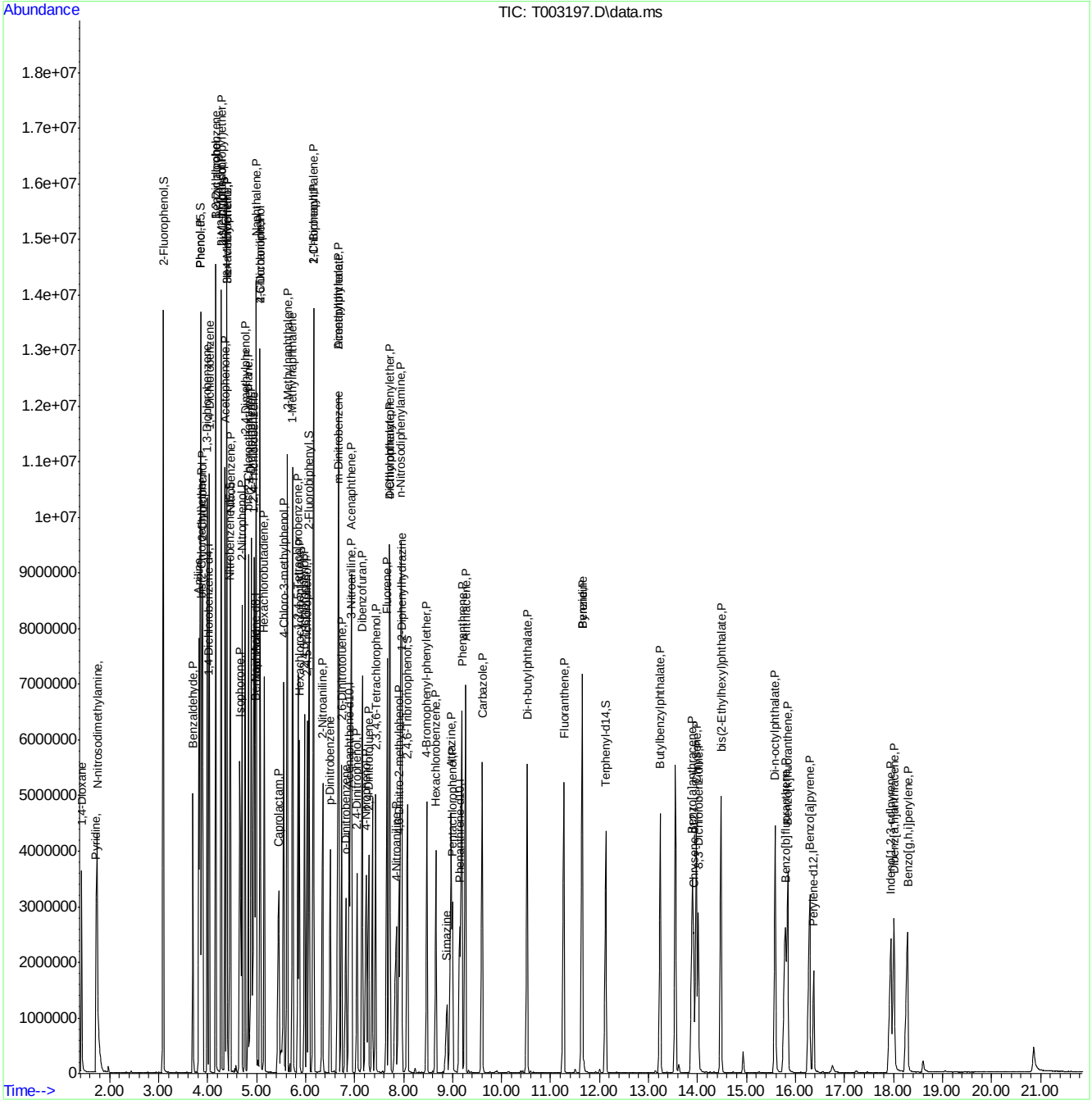
9.6.17

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:46:17 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration



Manual Integration Approval Summary

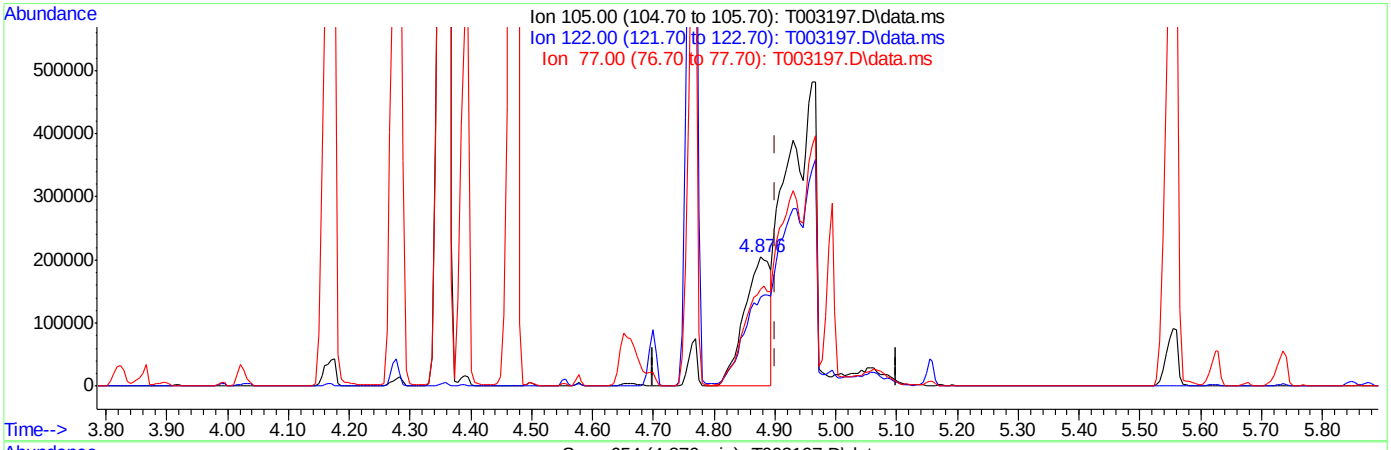
Sample Number:	ST170-IC170	**Method:**	EPA 625
Lab FileID:	T003197.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 16:36	**Supervisor approved:**	08/01/12 11:33 Mike Eger

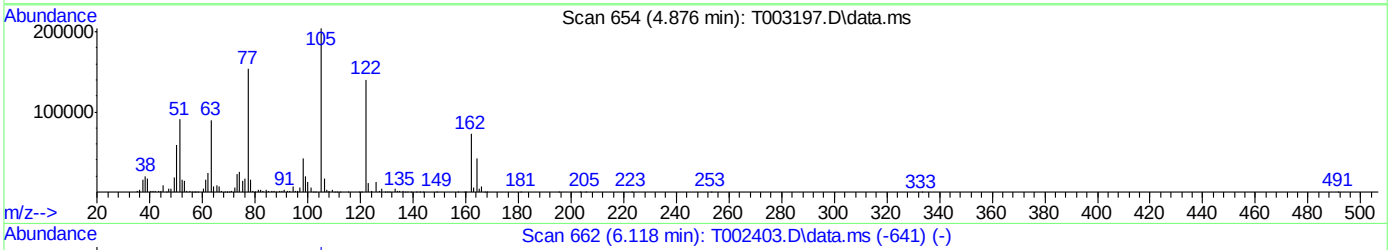
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.97	Split peak
Caprolactam	105-60-2		5.45	Split peak

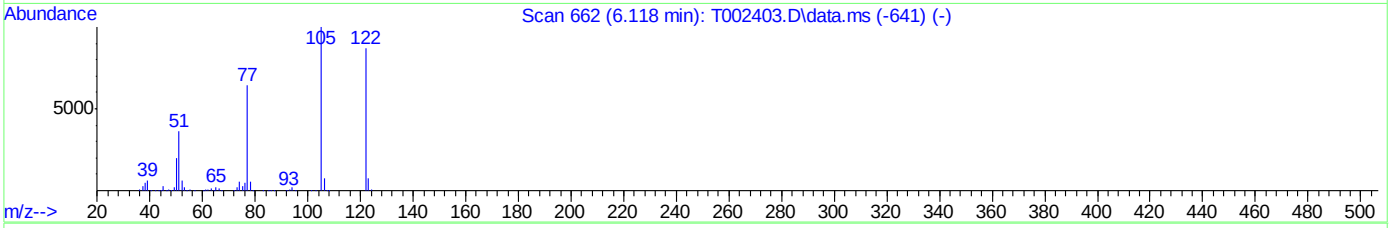
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:33:55 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003197.D\data.ms

(29) Benzoic Acid

4.876min (-0.025) 24.51ppm

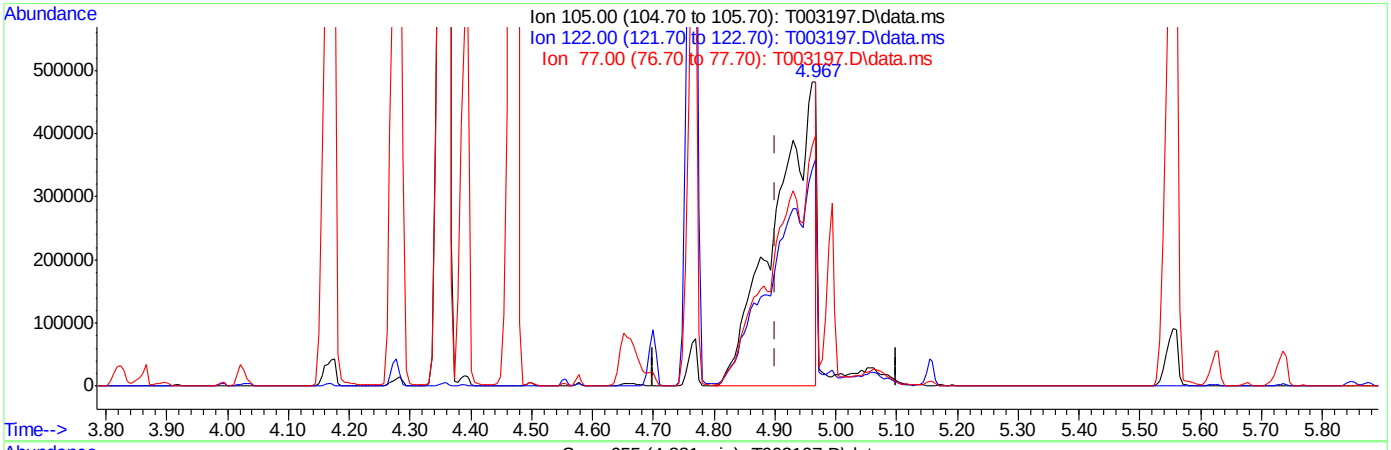
response 594172

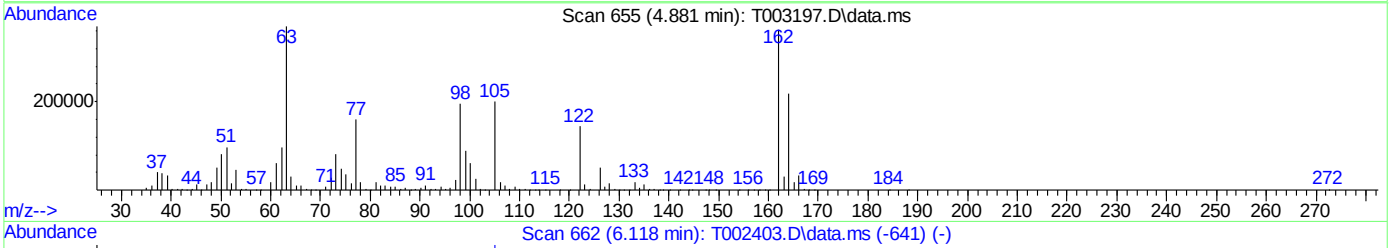
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	59.99
77.00	80.30	69.38
0.00	0.00	0.00

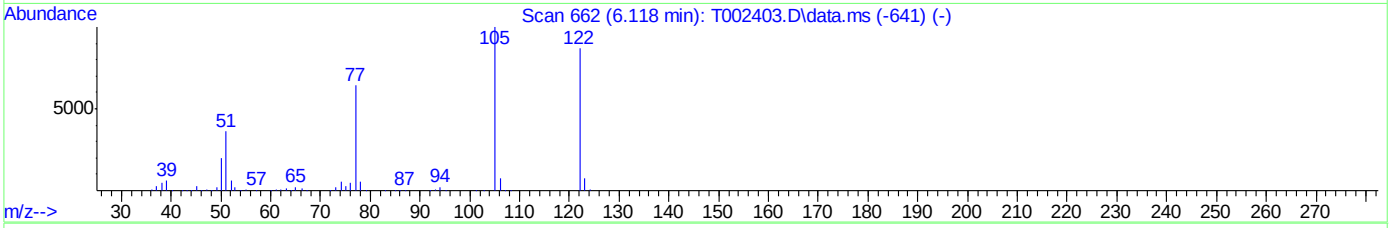
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:33:55 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration







TIC: T003197.D\data.ms

(29) Benzoic Acid

4.967min (+0.066) 96.93ppm m

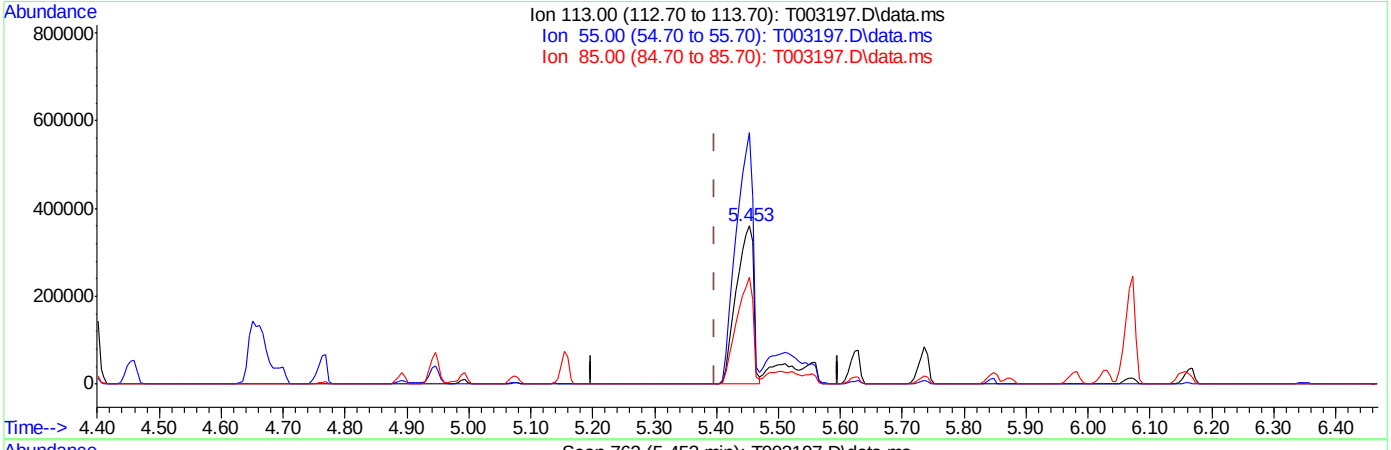
response 2213125

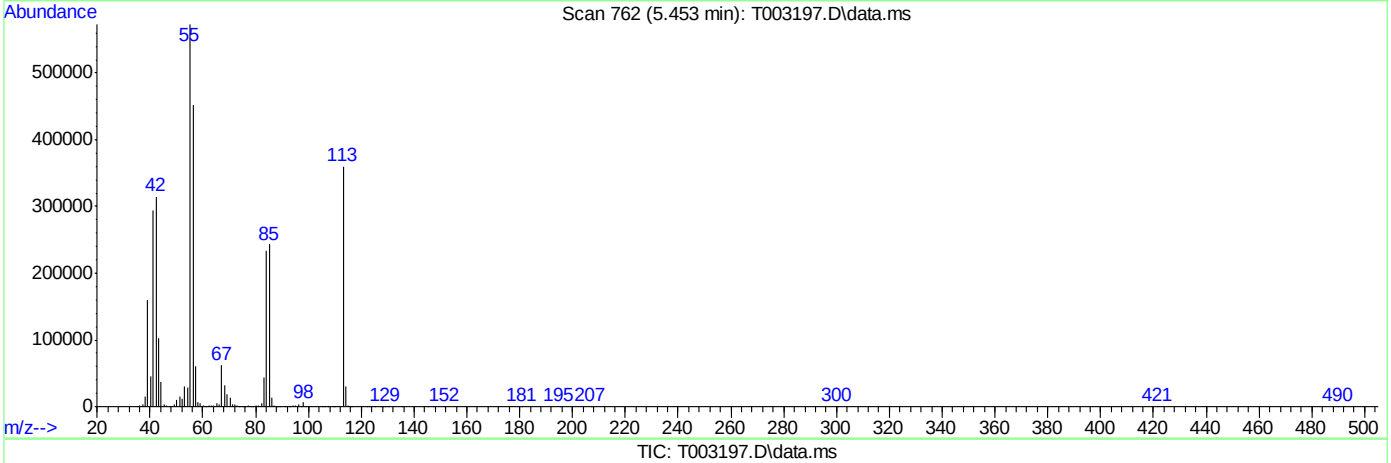
Ion	Exp%	Act%
105.00	100	100
122.00	72.30	74.63
77.00	80.30	82.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:42:11 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration





TIC: T003197.D\data.ms

(36) Caprolactam (P)

5.453min (+0.055) 80.07ppm

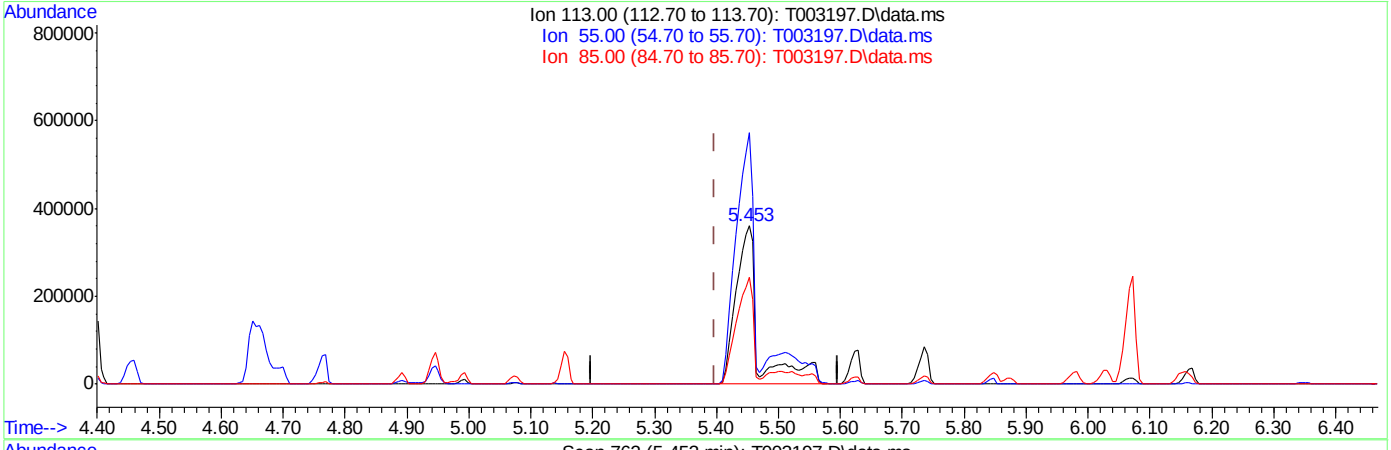
response 682527

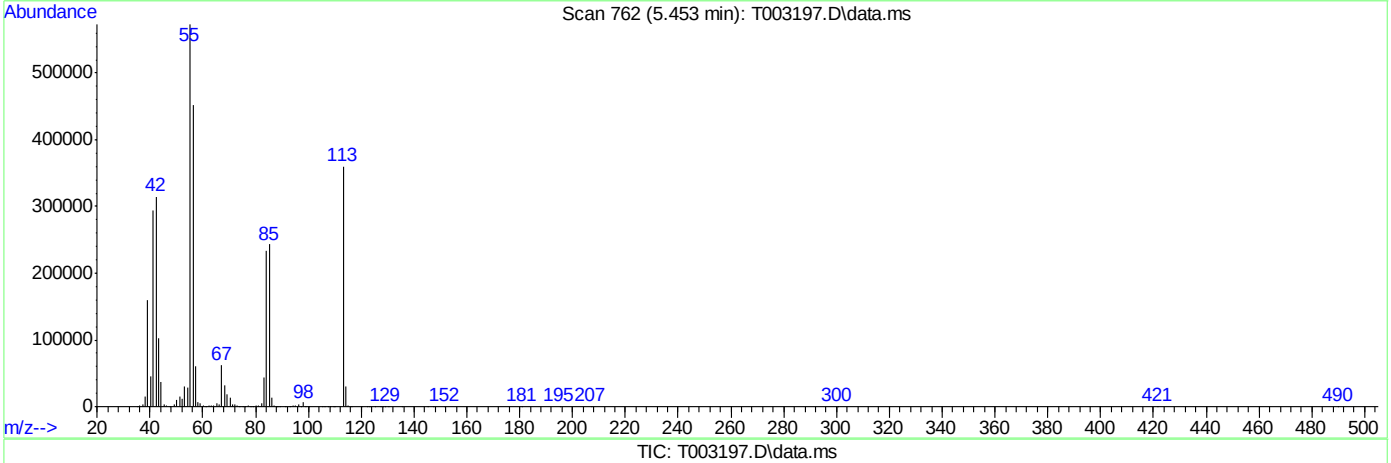
Ion	Exp%	Act%
113.00	100	100
55.00	157.10	159.25
85.00	65.50	67.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003197.D
Acq On : 31 Jul 2012 4:36 pm
Operator : fouads
Sample : ic170-100
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 06:42:11 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:32:01 2012
Response via : Initial Calibration





TIC: T003197.D\data.ms

(36) Caprolactam (P)

5.453min (+0.055) 105.91ppm m

response 902752

Ion	Exp%	Act%
113.00	100	100
55.00	157.10	159.22
85.00	65.50	67.69
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/01/12 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003198.D
Acq On : 31 Jul 2012 5:08 pm
Operator : fouads
Sample : icv170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 07:06:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:03:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.021	152	580395	40.00 ppm	0.00
22) Naphthalene-d8	4.972	136	2569534	40.00 ppm	0.00
41) Acenaphthene-d10	6.874	164	1282014	40.00 ppm	0.00
66) Phenanthrene-d10	9.139	188	2016616	40.00 ppm	0.00
81) Chrysene-d12	13.915	240	1294572	40.00 ppm	0.00
90) Perylene-d12	16.361	264	952599	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery	=	0.00%#
9) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery	=	0.00%#
23) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery	=	0.00%#
45) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery	=	0.00%#
70) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery	=	0.00%#
84) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery	=	0.00%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.499	88	577841	51.83 ppm		99
3) N-nitrosodimethylamine	1.804	42	814038	52.24 ppm		99
5) Benzaldehyde	3.700	106	940206	67.18 ppm		99
8) bis(2-Chloroethyl)ether	3.877	93	1403547	51.20 ppm		98
10) Phenol	3.850	94	1847390	56.27 ppm		99
11) 2-Chlorophenol	3.893	128	1326573	53.29 ppm		99
12) 1,3-Dichlorobenzene	3.989	146	1277191	51.02 ppm		99
13) 1,4-Dichlorobenzene	4.032	146	1267274	51.16 ppm		99
14) 1,2-Dichlorobenzene	4.165	146	1232283	54.65 ppm		99
16) bis(2-chloroisopropyl)...	4.272	45	1964507	47.63 ppm		85
17) 2-Methylphenol	4.272	108	1140974	49.45 ppm	#	73
18) Acetophenone	4.341	105	1923258	49.86 ppm		99
19) Hexachloroethane	4.384	117	399318	42.77 ppm		98
20) N-Nitroso-di-n-propyla...	4.379	70	891509	52.22 ppm		97
21) 3&4-Methylphenol	4.384	108	2130106	93.69 ppm		98
24) Nitrobenzene	4.459	77	1597569	52.88 ppm		96
25) Isophorone	4.641	82	2534688	44.13 ppm		100
26) 2-Nitrophenol	4.694	139	727276	53.21 ppm		91
27) 2,4-Dimethylphenol	4.758	107	1308092	47.84 ppm		98
28) bis(2-Chloroethoxy)met...	4.822	93	1670269	52.10 ppm		99
29) Benzoic Acid	4.956	105	2441507	100.11 ppm		99
30) 2,4-Dichlorophenol	4.886	162	943437	52.27 ppm		94
31) 1,2,4-Trichlorobenzene	4.940	180	976945	49.71 ppm		99
32) Naphthalene	4.988	128	3600685	51.67 ppm		99
34) 2,6-Dichlorophenol	5.068	162	903000	52.73 ppm		99
35) Hexachlorobutadiene	5.153	225	487598	51.54 ppm		98
36) Caprolactam	5.410	113	461946m	46.57 ppm		
37) 4-Chloro-3-methylphenol	5.543	107	1227892	52.35 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003198.D
Acq On : 31 Jul 2012 5:08 pm
Operator : fouads
Sample : icv170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 07:06:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:03:58 2012
Response via : Initial Calibration

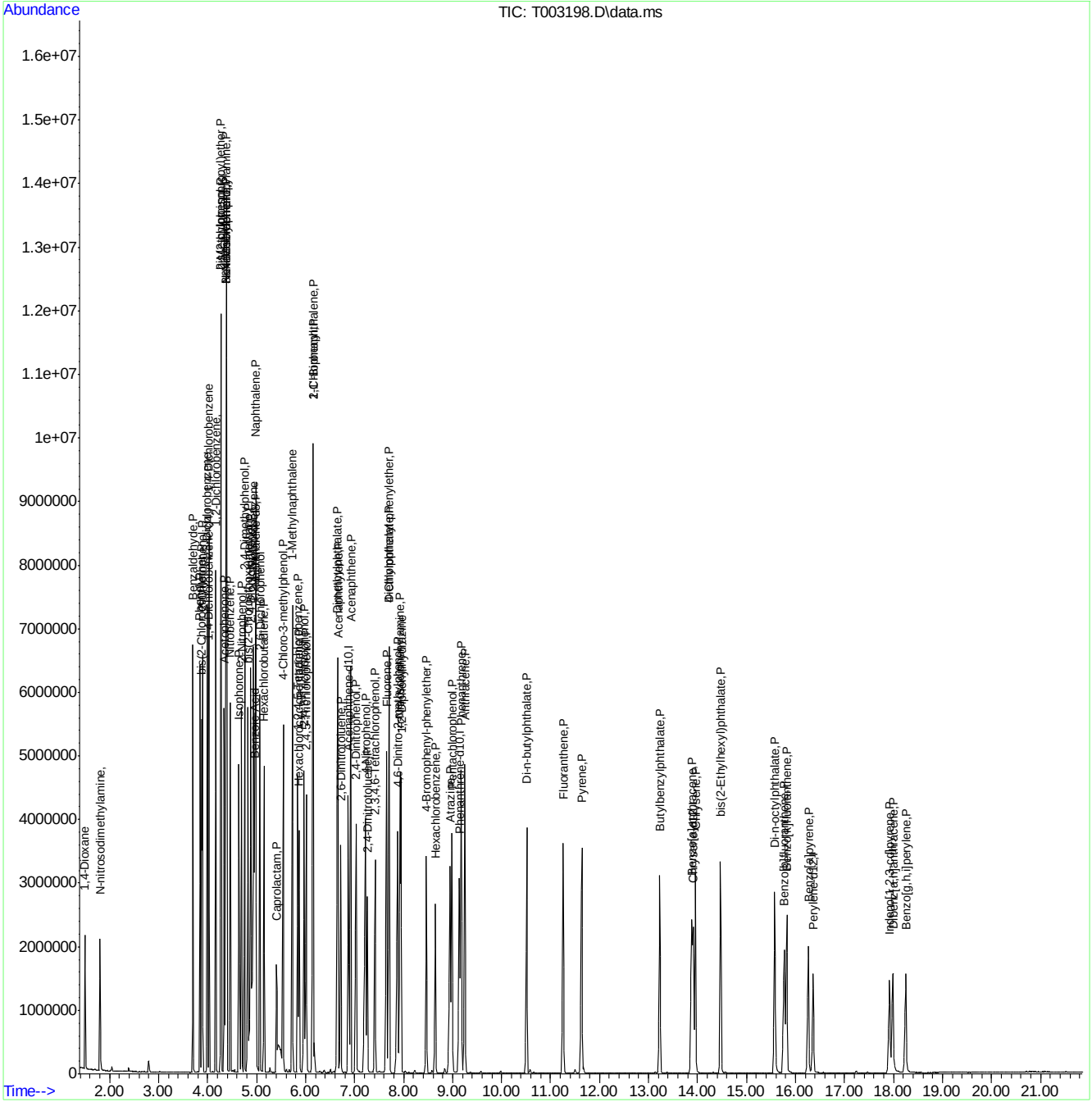
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) 1-Methylnaphthalene	5.730	142	2187608	52.80	ppm		98
40) 1,2,4,5-Tetrachloroben...	5.843	216	817112	49.41	ppm		99
42) Hexachlorocyclopentadiene	5.869	237	590925	54.43	ppm		98
43) 2,4,6-Trichlorophenol	5.971	196	640084	50.06	ppm		99
44) 2,4,5-Trichlorophenol	6.013	196	665338	50.74	ppm		97
46) 1,1'-Biphenyl	6.158	154	2349229	43.14	ppm		99
47) 2-Chloronaphthalene	6.147	162	1797542	49.36	ppm		100
50) Acenaphthylene	6.665	152	3186535	51.32	ppm		99
51) Dimethylphthalate	6.649	163	2090650	51.80	ppm		100
53) 2,6-Dinitrotoluene	6.724	165	509478	49.76	ppm		92
55) Acenaphthene	6.922	153	1998320	51.32	ppm		98
57) 2,4-Dinitrophenol	7.034	184	694926	101.56	ppm		97
59) 2,4-Dinitrotoluene	7.264	165	659083	49.02	ppm		99
60) 4-Nitrophenol	7.226	109	795938	99.03	ppm		96
61) 2,3,4,6-Tetrachlorophenol	7.418	232	462536	48.82	ppm		95
62) Fluorene	7.654	166	2101613	49.35	ppm		98
63) 4-Chlorophenyl-phenyle...	7.707	204	855696	48.27	ppm		98
64) Diethylphthalate	7.702	149	2033368	49.16	ppm		99
67) 4,6-Dinitro-2-methylph...	7.883	198	861634	118.07	ppm	#	100
68) n-Nitrosodiphenylamine	7.926	169	1407480	51.16	ppm		98
69) 1,2-Diphenylhydrazine	7.953	77	2936465	51.26	ppm		99
71) 4-Bromophenyl-phenylether	8.466	248	480618	51.43	ppm		98
72) Hexachlorobenzene	8.653	284	451603	51.40	ppm		99
74) Atrazine	8.952	200	538643	48.59	ppm		94
75) Pentachlorophenol	8.989	266	640917	100.92	ppm		99
76) Phenanthrene	9.176	178	2921839	52.31	ppm		99
77) Anthracene	9.251	178	2917680	50.77	ppm		100
79) Di-n-butylphthalate	10.517	149	3218826	50.88	ppm		100
80) Fluoranthene	11.260	202	2474919	50.11	ppm		100
83) Pyrene	11.639	202	2560186	56.28	ppm		98
85) Butylbenzylphthalate	13.231	149	1247959	53.94	ppm		97
87) Benzo[a]anthracene	13.883	228	1912863	53.26	ppm		99
88) Chrysene	13.963	228	1734843	52.96	ppm		99
89) bis(2-Ethylhexyl)phtha...	14.476	149	1602286	53.63	ppm		99
91) Di-n-octylphthalate	15.576	149	2588489	57.17	ppm		99
92) Benzo[b]fluoranthene	15.768	252	1608163	53.22	ppm		97
93) Benzo[k]fluoranthene	15.822	252	1597748	56.53	ppm		99
94) Benzo[a]pyrene	16.265	252	1418277	50.14	ppm		99
95) Indeno[1,2,3-cd]pyrene	17.921	276	1103974	50.68	ppm		99
96) Dibenz[a,h]anthracene	17.991	278	1124374	51.89	ppm		98
97) Benzo[g,h,i]perylene	18.258	276	1171823	50.35	ppm		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003198.D
Acq On : 31 Jul 2012 5:08 pm
Operator : fouads
Sample : icv170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 07:06:52 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:03:58 2012
Response via : Initial Calibration



Manual Integration Approval Summary

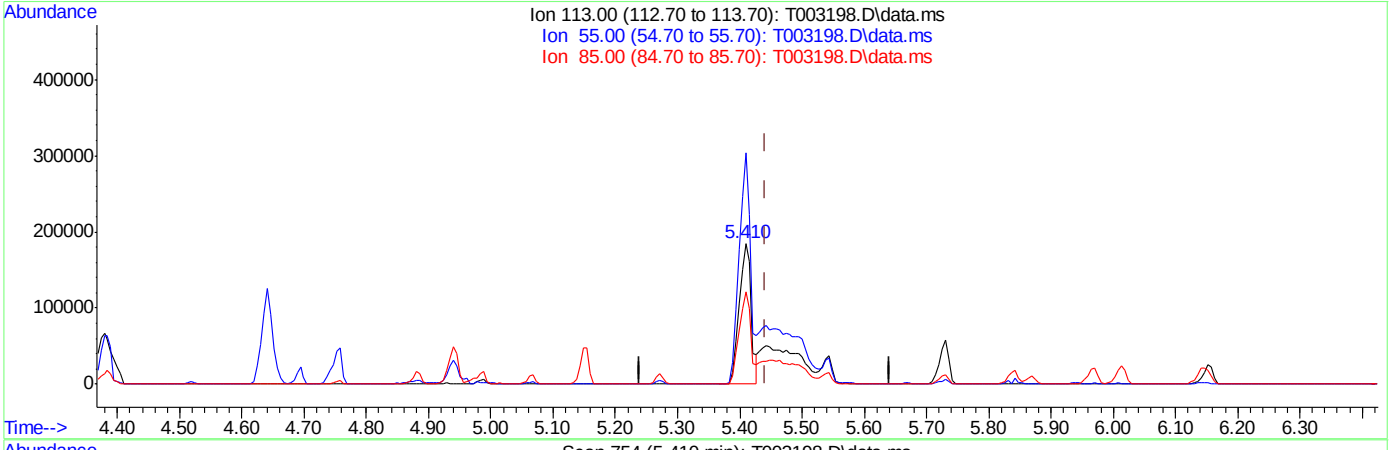
Sample Number:	ST170-ICV170	**Method:**	EPA 625
Lab FileID:	T003198.D	**Analyst approved:**	08/01/12 10:00 Fouad Sekkar
Injection Time:	07/31/12 17:08	**Supervisor approved:**	08/01/12 11:33 Mike Eger

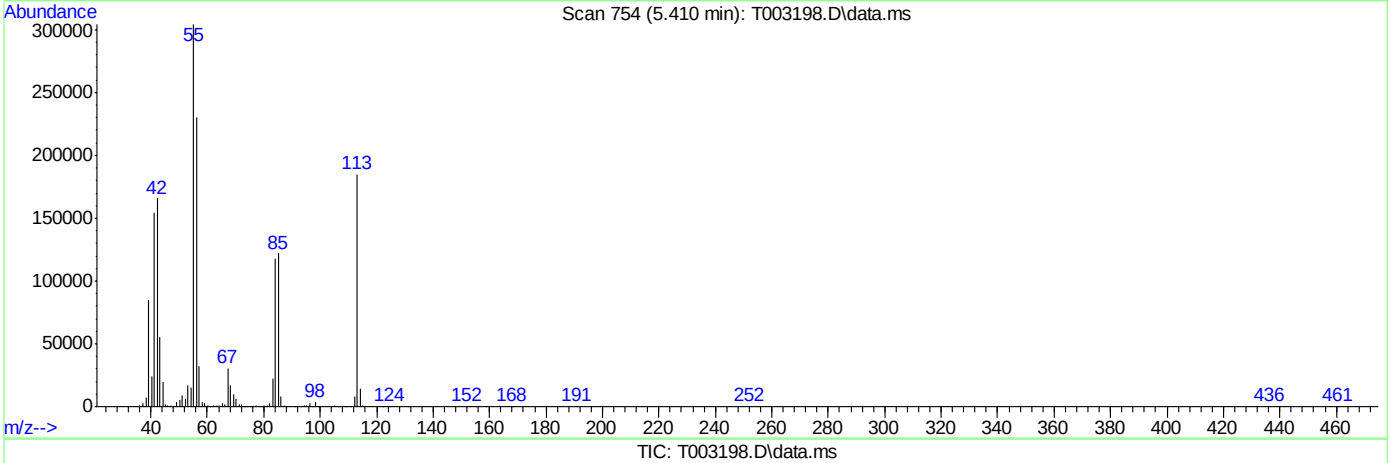
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.41	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003198.D
Acq On    : 31 Jul 2012   5:08 pm
Operator  : fouads
Sample    : icv170-50
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Aug 01 07:04:09 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:03:58 2012
Response via : Initial Calibration
```





TIC: T003198.D\data.ms

(36) Caprolactam (P)

5.410min (-0.031) 24.42ppm

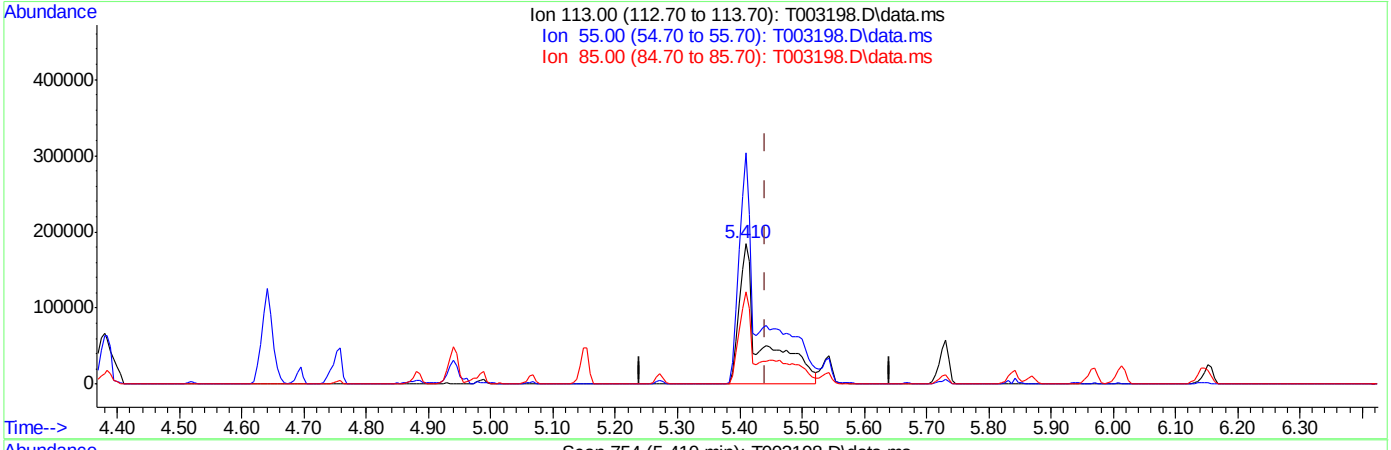
response 242211

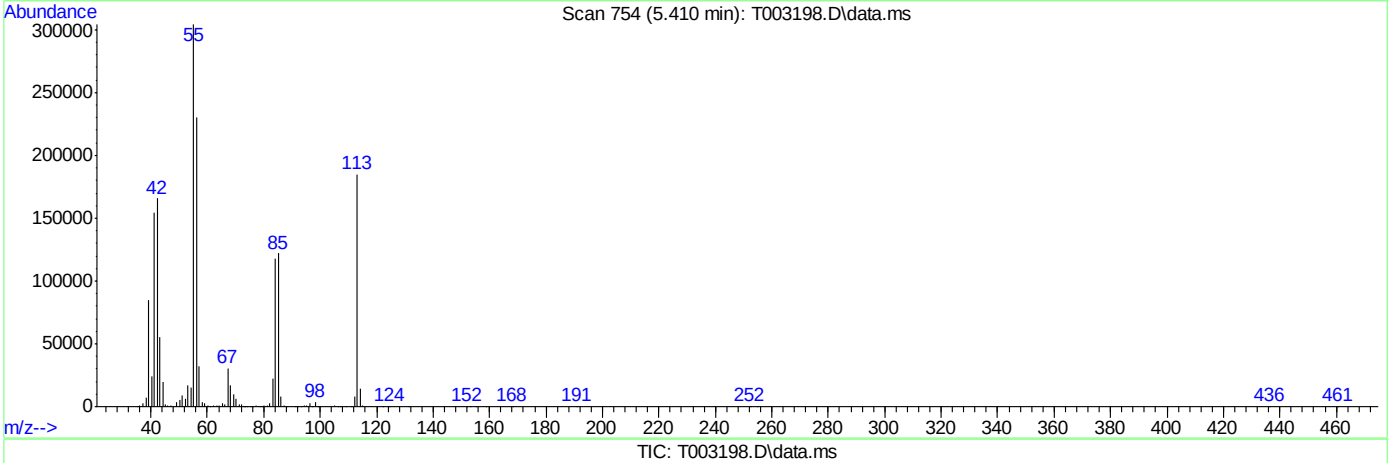
Ion	Exp%	Act%
113.00	100	100
55.00	160.30	165.03
85.00	65.70	66.20
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : T003198.D
Acq On    : 31 Jul 2012   5:08 pm
Operator  : fouads
Sample    : icv170-50
Misc      : op42823,st170,30.0,,,1,1,soil
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Aug 01 07:04:09 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 07:03:58 2012
Response via : Initial Calibration
```





TIC: T003198.D\data.ms

(36) Caprolactam (P)

5.410min (-0.031) 46.57ppm m

response 461946

Ion	Exp%	Act%
113.00	100	100
55.00	160.30	164.73
85.00	65.70	66.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003199.D
Acq On : 31 Jul 2012 5:40 pm
Operator : fouads
Sample : icv170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 07:03:08 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:56:46 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.016	152	503149	40.00	ppm	0.00
22) Naphthalene-d8	4.967	136	2165442	40.00	ppm	0.00
41) Acenaphthene-d10	6.874	164	1024919	40.00	ppm	0.00
66) Phenanthrene-d10	9.123	188	1733747	40.00	ppm	-0.02
81) Chrysene-d12	13.899	240	1227224	40.00	ppm	-0.02
90) Perylene-d12	16.351	264	963830	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery	=	0.00%#	
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery	=	0.00%#	
70) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery	=	0.00%#	
84) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery	=	0.00%#	

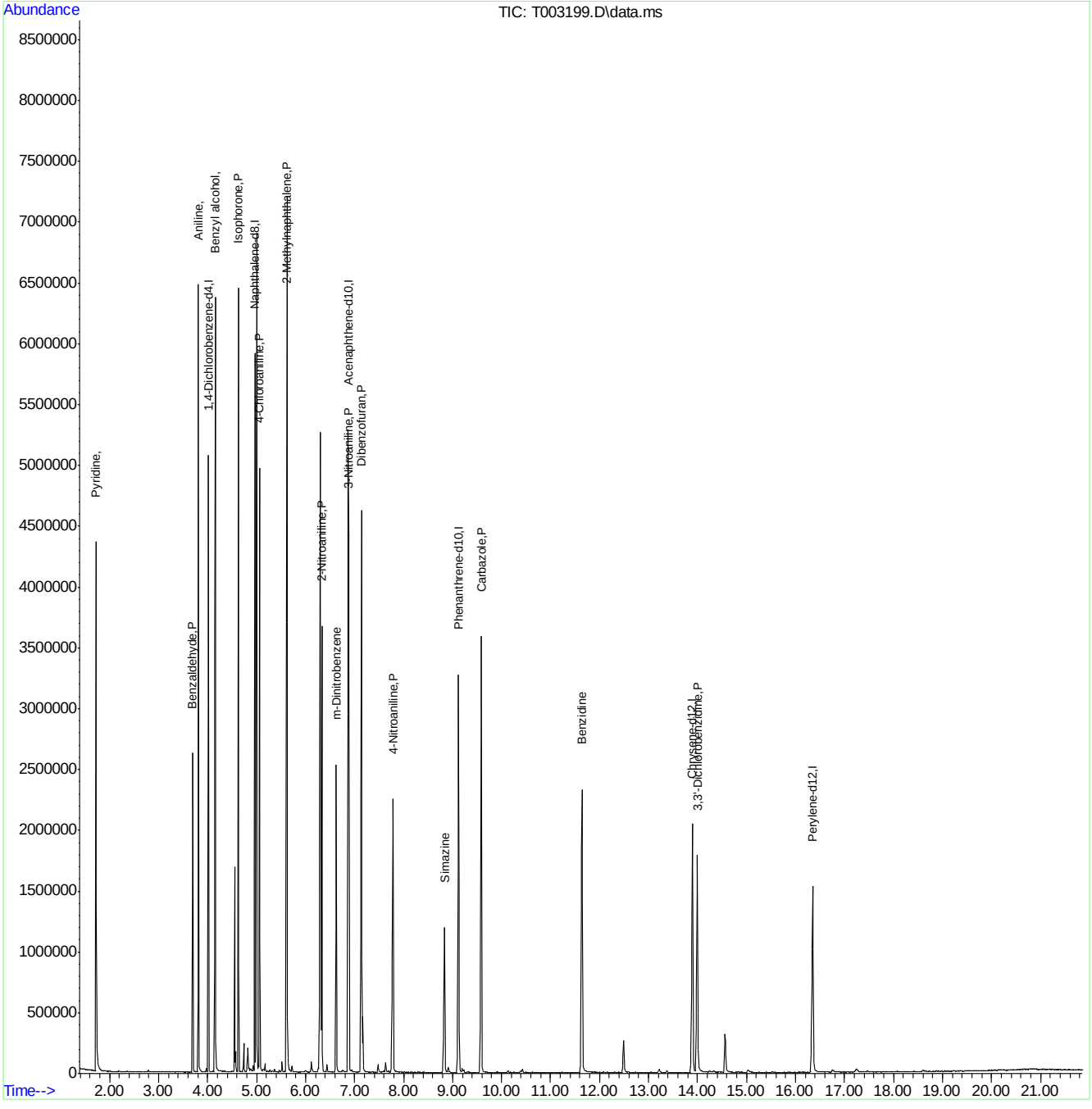
Target Compounds						Qvalue
4) Pyridine	1.719	79	1310232	49.60	ppm	100
5) Benzaldehyde	3.695	106	354377	20.74	ppm	99
6) Aniline	3.813	93	1633671	43.97	ppm	85
15) Benzyl alcohol	4.155	108	768906	51.39	ppm	88
25) Isophorone	4.630	82	2217924	45.82	ppm	98
33) 4-Chloroaniline	5.063	127	1119931	47.13	ppm	97
38) 2-Methylnaphthalene	5.618	142	1844256	48.34	ppm	100
48) 2-Nitroaniline	6.334	65	708636	51.69	ppm	99
52) m-Dinitrobenzene	6.628	168	324303	51.69	ppm	86
56) 3-Nitroaniline	6.884	138	496815	48.60	ppm	98
58) Dibenzofuran	7.141	168	2141412	51.94	ppm	92
65) 4-Nitroaniline	7.787	138	536899	54.38	ppm	100
73) Simazine	8.840	201	145602	63.99	ppm	99
78) Carbazole	9.588	167	2238534	51.74	ppm	100
82) Benzidine	11.644	184	1430793	64.83	ppm	99
86) 3,3'-Dichlorobenzidine	14.000	252	599974	48.40	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : T003199.D
Acq On : 31 Jul 2012 5:40 pm
Operator : fouads
Sample : icv170-50
Misc : op42823,st170,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 07:03:08 2012
Quant Method : C:\msdchem\2\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Aug 01 06:56:46 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES SE

DATE:	07-13-12
COLUMN TYPE:	20 FMS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D / 625
ACQ. METHOD:	~~625~~ 8270D
PROC. METHOD:	8270D
CALIB. DATE:	07-13-12
RUN BATCH: SL	2973

ANALYST:	NAF
MECL2 LOT #:	K51503
DFTPP RESPONSE:	701362
EM VOLTAGE:	1966

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0503 ~~14~~ 20u	1	DFTPP	DFTPP	54262	1X		PASS
L 203	2	IC2973-5	8270	54225/74	10/10/40		✓
L 04	3	-10			20/20/40		✓
L 05	4	-25			50/50/40		✓
L 06	5	ICC2973 -50			100/100/400	#95 OP	✓
L 07	6	IC2973 -60			120/120/400	#95 OP	✓
L 08	7	-75			150/150/400	#37,SP #95 OP	✓
L 09	8	-100			200/200/400	#2 MP #37 SP #95 OP	✓
L 10	9	ICV 2973-10		54275A	2X	#37 SP	PASS
L 11	10	-50		54270 60123 54623 5801	200 40 200 40F	5941 28A	PASS #37 low
L 12	11	E 41370A		E41370A	2X		PASS
L 13	12	OP42610-BS		OP42610	1X		✓
L 14	13	-MB					✓ b.s
L 15	14	F94747-3					ND
L 16	15	F94762-1			4X		Run 1X
L 17	16	-2			4X		Run 1X
L 18	17	-3			1X		✓
L 19	18	-4				#95 OP	✓
L 20	19	-5					✓
L 21	20	~~OP42610-5~~ -6					ND

NAF 7-16-12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature:

Instrument Run Log SL2973 page 1 of 2

387 of 764

ACCUTEST LABORATORIES F95217

9.7.1 6

ACCUTEST LABORATORIES SE

DATE:	07-13-12
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270 625
ACQ. METHOD:	QCB304
PROC. METHOD:	8270BA
CALIB. DATE:	07-13-12
RUN BATCH: SL	2973

ANALYST:	NMF
MECL2 LOT #:	K51103
DFTPP RESPONSE:	701304
EM VOLTAGE:	1485

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 05 2222	21	~~OP42610-MS~~	8270	OP42610	1*		ND
L N07164 23	22	F94764-1					ND
L N07164 24	23	F94764-2					ND
L N07164 25	24	F94764-3					ND
L N07164 26	25	OP42610-MS				#3 SP	✓
L N07164 27	26	-MSD				#3 SP	✓
L							
L							
L							
L							
L							
L							
L							
L						NMF 07-16-12	
L							
L							
L							
L							
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: [signature]

msbna02_l_log.xls NF rev. 08/09

ACCUTEST LABORATORIES SE

DATE:	08-02-12
COLUMN TYPE:	tbrms
AMOUNT INJECTED:	2 ul
INSTRUMENT: MSBNA02-L	

MS BNA02-L ANALYSIS LOG

METHODS*:	8270 / 625
ACQ. METHOD:	ALL BNA
PROC. METHOD:	8270
CALIB. DATE:	07-13-12
RUN BATCH: SL	2988

ANALYST:	NN
MECL2 LOT #:	K5301
DFTPP RESPONSE:	52516J
EM VOLTAGE:	1988

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS IS 6020A
L 65 8762	1	dftpp	dftpp	54297	1x		Pass
L 63	2	CC2973 -10	~~8270~~ 8270	54260/75	100/100/400	#37 SP	#37 low
L 64	3	OP42407-bs	8270	OP42407	1x	#37 SP	✓
L 65	4	-mb			↓		✓ BDL
L 66	5	F95400-1			4x		Run 1x
L 67	6	F95402-1					↓
L 68	7	F95403-1			↓		
L 69	8	F95389-1			1x		✓
L 70	9	-2					✓
L 71	10	OP42407-mc				#37 SP #98 OP	✓
L 72	11	-msd				#17 MP #37 SP #98 OP	✓
L 73	12	F95389-3					✓
L 74	13	-4		↓			✓
L 75	14	OP42872-mb		OP42872	↓		✓ BDL
L 76	15	F95269-15			4x	#38 MP	✓
L 77	16	-15			2x	#38 MP	✓
L 78	17	-15		↓	1x		✓
L 79	18	OP42809-mb		OP42809			ND
L 80	19	F95217-6		↓	↓		ND
L 81	20	F95387-5	↓	OP42872	10x		✓ matrix

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
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msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	040212
COLUMN TYPE:	t65ms
AMOUNT INJECTED:	2 ul
INSTRUMENT: MSBNA02-L	

MS BNA02-L ANALYSIS LOG

METHODS*:	8270 16ot
ACQ. METHOD:	ACUBNA
PROC. METHOD:	8270D
CALIB. DATE:	07-13-12
RUN BATCH: SL	2988

ANALYST:	NMC
MECL2 LOT #:	K 35301
DFTPP RESPONSE:	TS 163
EM VOLTAGE:	1988

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0505 82	21	F95397-6	8270	OP42872	10x		✓ matrix
L 83	22	-7			5x		✓ matrix
L 84	23	-8			10x		✓ matrix
L 85	24	F95273-2			1x		✓
L 86	25	F95400-1		OP42907			✓
L 87	26	F95402-1					✓ out RR
L 88	27	F95403-1					✓
L							
L							
L							
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NMC 08-03-12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	07/31/12
COLUMN TYPE:	T6+SMS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 / 625
ACQ. METHOD:	MB-BNA
PROC. METHOD:	8270D
CALIB. DATE:	07/31/12
RUN BATCH:	ST 170

ANALYST:	FS
MECL2 LOT #:	K51603
DFTPP RESPONSE:	22 / 0 / 143
EM VOLTAGE:	2253

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS IS to: 60/80
T 003187	1	dFTPP	dFTPP	54297	x1		ok
T 88	2	cc169-50	8270D	54302/54290	100/0/400		Failed → Mail-in
T 89	1	dFTPP	dFTPP	54297	x1		TUNE passed
T 90	2	cc169-50	8270D	54302/54290	100/0/400		CCV Failed
T 91	3	ic170-5		54302/54290	10/0/400	#23 SP, 32 MP	
T 92	4	-10			20/0/400		
T 93	5	-25			50/0/400	#23 SP	
T 94	6	-50			100/0/400	#1 36 SP	Curve passed <15%
T 95	7	-60			120/20/400	#36 SP	
T 96	8	-75			150/150/400	#36 SP	
T 97	9	-100			200/200	#23 SP, 36 SP	
T 98	10	ICV170-50		6092A	2+	#36 SP	ICV1 passed
T 99	11	↓		5306 6094 5341 6093 5302	400 400+ 200 200+		ICV2 passed (sensitivity)
T 003200	12	op42808-BS		op42808	x1	#2 MP, 23 PSS, 36 SP	~~NB~~ 8/01/12 ✓
T 01	13	-MB					ND
T 02	14	F95208-1					ND
T 03	15	-3				#23 MP	✓
T 04	16	-4				#23 MP	✓
T 05	17	-MS				#2, 4 MP, 36 SP	✓
T 06	18	-MSD				#2, 4 MP, 36 SP	✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: Fouad

msbna06_t_log.xls NF rev. 08/11

ACCUTEST LABORATORIES F95217

ACCUTEST LABORATORIES SE

DATE:	07/31/12
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 / 625
ACQ. METHOD:	MS-BNA
PROC. METHOD:	8270
CALIB. DATE:	07/21/12
RUN BATCH:	ST 170

ANALYST:	E.S
MECL2 LOT #:	K51403
DFTPP RESPONSE:	22 / 10 / 143
EM VOLTAGE:	2253

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 003207	19	F95217-1	8270	OP4808	X1		ND
T 08	20	-2	↓	↓	↓		✓
T 09	21	-3					✓
T 10	22	-4					ND
T 11	23	-5					ND
T 12	24	-6					ND 7/12HRS
T							
T							
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(13)
08/01/12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: [signature]

msbna06_t_log.xls NF rev. 08/11

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 07/26/12 08:20 (mm/dd/yy 24:00)

Prep Method: 3550C 3580A or Method (circle)

Batch#: OP42808

Analytical Method: 8270

Ext. By: KC, JC, AH Conc. By: AV Vialed By: AA Balance ID: HAV 3

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 42808 MB	X	30.0	0.5ml	0.5ml	1.0mL	
OP 42808 BS	X	30.0	↓	0.5ml	↓	
F95208-1	6	30.1	↓	↓	↓	
-3	6	30.2	↓	↓	↓	
-4	6	30.1	↓	↓	↓	ms/msD
F95178-1	5	30.0	↓	↓	↓	
-2	5	29.7	↓	↓	↓	
-3	5	30.1	↓	↓	↓	
-4	5	29.9	↓	↓	↓	
-5	5	29.7	↓	↓	↓	
-6	5	29.9	↓	↓	↓	
F95217-1	8	30.3	↓	↓	↓	
-2	8	30.1	↓	↓	↓	
-3	8	30.1	↓	↓	↓	
-4	8	29.8	↓	↓	↓	
-5	8	30.4	↓	↓	↓	
-6	8	29.7	↓	↓	↓	
			AA 07/26/12			
F95208-4 MS	6	29.9	0.5ml	0.5ml	1.0mL	
-4 MSD	6	30.0	↓	↓	↓	
DUP						

Comments:

Surr. ID: E4125L Conc: 100/200 ppm Exp. Date: 12/27/12 Inj. By: Av Ver. By: JC

Spk. ID: 59756 Conc: Various Exp. Date: 11/30/12 Inj. By: Av Ver. By: JC

E4137B 100 ppm 01/13/13

Initial Bath Temp (Therm ID): 101452585

Observed Temp °C: 75°c Corr. Temp °C: 76°c

Exchange Bath/N-Evap Temp (Therm ID): 91244522

Observed Temp °C: 35°c Corr. Temp °C: 37°c

CH2CL2 Lot # K51503 Hexane Lot # — Na2SO4 Lot# K51540

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# K51E12

Syringe Filter Lot# — Reagent # — Reagent # —

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: Ahmed Av. Date: 07/26/12

Accepted By: [illegible] Date: 07/26/12

NF rev. 08/11 extsolid 081911.xls

9.8.1

9

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3028-MB	QR069931.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	56-136%
98-08-8	aaa-Trifluorotoluene	99%	61-121%

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3028-BS	QR069930.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.6	98	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	61-121%

10.2.1

10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95178-2MS	QR069956.D	1	07/26/12	CP	n/a	n/a	GQR3028
F95178-2MSD	QR069957.D	1	07/26/12	CP	n/a	n/a	GQR3028
F95178-2	QR069932.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95178-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	161		101	221	59*	222	60*	0	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F95178-2	Limits
460-00-4	4-Bromofluorobenzene	120%	121%	115%	56-136%
98-08-8	aaa-Trifluorotoluene	115%	116%	116%	61-121%

10.3.1

10

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F95217-1	QR069948.D	105.0	102.0
F95217-2	QR069949.D	108.0	103.0
F95217-3	QR069950.D	106.0	102.0
F95217-4	QR069953.D	106.0	102.0
F95217-5	QR069954.D	104.0	103.0
F95217-6	QR069955.D	108.0	102.0
F95178-2MS	QR069956.D	120.0	115.0
F95178-2MSD	QR069957.D	121.0	116.0
GQR3028-BS	QR069930.D	108.0	103.0
GQR3028-MB	QR069931.D	100.0	99.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	56-136%
S2 = aaa-Trifluorotoluene	61-121%

(a) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069929.D	**Injection Time:**	09:07
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT
Check Std	15.07	11.15

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
GQR3028-BS	QR069930.D	07/26/12	09:36	15.08	11.15
GQR3028-MB	QR069931.D	07/26/12	10:04	15.08	11.15
F95178-2	QR069932.D	07/26/12	10:42	15.08	11.16
ZZZZZZ	QR069933.D	07/26/12	11:10	15.07	11.15
ZZZZZZ	QR069934.D	07/26/12	11:38	15.08	11.16
ZZZZZZ	QR069935.D	07/26/12	12:07	15.08	11.16
ZZZZZZ	QR069936.D	07/26/12	12:35	15.08	11.16
ZZZZZZ	QR069937.D	07/26/12	13:03	15.08	11.16
ZZZZZZ	QR069938.D	07/26/12	13:31	15.08	11.16
ZZZZZZ	QR069939.D	07/26/12	14:00	15.08	11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069940.D	**Injection Time:**	14:29
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	15.08	15.08	11.16	11.16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
GQR3028-RT	QR069941.D	07/26/12	14:57	15.08	15.08	11.16	11.16
ZZZZZZ	QR069942.D	07/26/12	15:26		15.08		11.16
ZZZZZZ	QR069943.D	07/26/12	15:54		15.08		11.16
ZZZZZZ	QR069944.D	07/26/12	16:22		15.08		11.15
ZZZZZZ	QR069945.D	07/26/12	16:50		15.07		11.15
ZZZZZZ	QR069946.D	07/26/12	17:19		15.08		11.16
ZZZZZZ	QR069947.D	07/26/12	17:47		15.07		11.15
F95217-1	QR069948.D	07/26/12	18:16		15.08		11.15
F95217-2	QR069949.D	07/26/12	18:44		15.07		11.15
F95217-3	QR069950.D	07/26/12	19:12		15.07		11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069951.D	**Injection Time:**	19:41
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	15.08	15.08	11.16	11.16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
F95217-4	QR069953.D	07/26/12	20:37		15.08		11.15
F95217-5	QR069954.D	07/26/12	21:05		15.07		11.15
F95217-6	QR069955.D	07/26/12	21:34		15.07		11.15
F95178-2MS	QR069956.D	07/26/12	22:02		15.07		11.15
F95178-2MSD	QR069957.D	07/26/12	22:30		15.07		11.15
GQR3028-ECC3009	QR069958.D	07/26/12	22:58	15.07	15.07	11.15	11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3009-ICC3009
Lab FileID: QR069322.D

```
                    Response Factor Report  VOA3

  Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
  Title        : SW846 8015 TPH by GC-FID
  Last Update  : Fri Jul 06 08:27:06 2012
  Response via : Initial Calibration

  Calibration Files
  1   =QR069319.D  2   =QR069320.D  3   =QR069321.D  4   =QR069322.D
  5      =QR069323.D   6      =QR069324.D

        Compound              1     2     3     4     5     6     Avg    %RSD
  ---------------------------------------------------------------------------
  1) S   a,a,a-TFT           6.497 6.471 6.813 7.151 6.496 6.452 6.647 E2   4.24
  2) S   BFB                 1.725 1.742 1.817 2.013 1.857 1.834 1.831 E3   5.64

Signal #2

  4) S   a,a,a-TFT #2        3.853 3.858 4.079 4.282 3.933 3.941 3.991 E4   4.12
  5)  S  BFB #2              2.521 2.526 2.622 2.931 2.760 2.734 2.682 E4   5.89
  6) H   TPH-GRO (C6-C10)    5.397 5.153 4.929 4.951 4.796 4.792 5.003 E4   4.67
 ---------------------------------------------------------------------------
 (#) = Out of Range

           GROML.M           Mon Jul 09 14:46:17 2012
```

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3009-ICV3009
Lab FileID: QR069325.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH  Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On    :  5 Jul 2012   7:18 pm                    Operator: MikeM
Sample    : ICV3009-3                                Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	a,a,a-TFT	50.000	49.354	1.3	96	0.00	11.04-11.24
2 S	BFB	50.000	48.119	3.8	97	0.00	14.95-15.15
*****	Signal #2 *****						
4 S	a,a,a-TFT #2	50.000	48.997	2.0	96	0.00	11.04-11.24
5 S	BFB #2	50.000	48.389	3.2	99	0.00	14.95-15.15
6 H	TPH-GRO (C6-C10)	400.000	370.841	7.3	94	0.00	7.23-16.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
QR069321.D GROML.M Mon Jul 09 14:46:54 2012

10.6.2

10

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069929.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH  Vial: 3
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
 Acq On    : 26 Jul 2012   9:07 am                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  49.365      1.3   96   0.01   11.04-11.24
 2 S   BFB                     50.000  48.595      2.8   98   0.01   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  52.232     -4.5  102   0.00   11.04-11.24
 5  S  BFB #2                  50.000  51.774     -3.5  106   0.01   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 409.910     -2.5  104   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:20 2012
```

10.6.3

10

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069940.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH  Vial: 14
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
 Acq On    : 26 Jul 2012   2:29 pm                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  49.765      0.5   97   0.02   11.04-11.24
 2 S   BFB                     50.000  49.926      0.1  101   0.03   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  52.280     -4.6  102   0.02   11.04-11.24
 5  S  BFB #2                  50.000  52.977     -6.0  108   0.03   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 429.084     -7.3  109   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:21 2012
```

10.6.4

10

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069951.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH  Vial: 25
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
 Acq On    : 26 Jul 2012   7:41 pm                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  48.712      2.6   95   0.02   11.04-11.24
 2 S   BFB                     50.000  49.629      0.7  100   0.02   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  51.969     -3.9  102   0.02   11.04-11.24
 5  S  BFB #2                  50.000  53.014     -6.0  108   0.02   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 408.602     -2.2  104   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:22 2012
```

10.6.5

10

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-ECC3009
Lab FileID: QR069958.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH  Vial: 32
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
 Acq On    : 26 Jul 2012  10:58 pm                    Operator: CARLENEP
 Sample    : ECC3009-3                                Inst    : VOA3
 Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  49.048      1.9   96   0.01   11.04-11.24
 2 S   BFB                     50.000  49.904      0.2  101   0.02   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  52.501     -5.0  103   0.01   11.04-11.24
 5  S  BFB #2                  50.000  53.942     -7.9  110   0.02   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 406.903     -1.7  103   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:22 2012
```

10.6.6

10

Southeast ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069948.D\FID1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069948.D\FID2A.CH
Acq On : 26 Jul 2012 6:16 pm Operator: CARLENEP
Sample : F95217-1 Inst : VOA3
Misc : gc13944,gqr3028,8.22,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32902	49.502 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.00%	
2) S BFB	15.07	90122	49.210 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.42%	
4) S a,a,a-TFT #2	11.15	2045250	51.248 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.50%	
5) S BFB #2	15.08	1406038	52.422 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 104.84%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	983894	19.667 ug/Kg

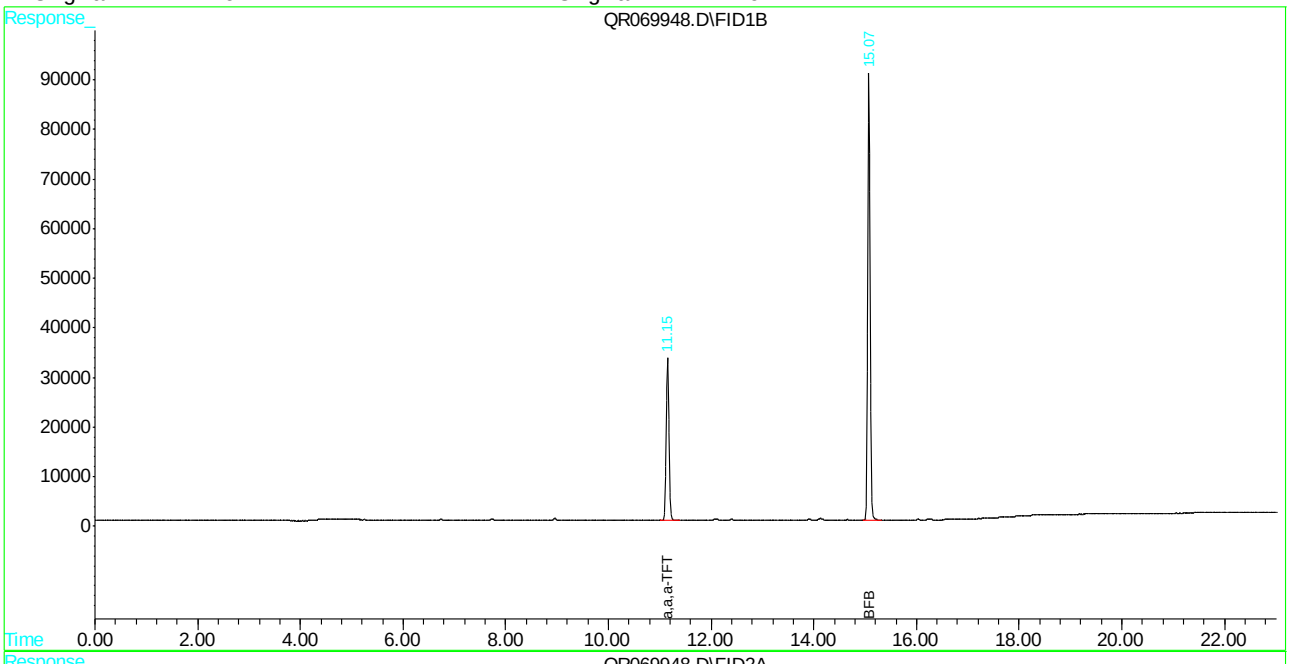
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069948.D GROML.M Fri Jul 27 12:36:52 2012

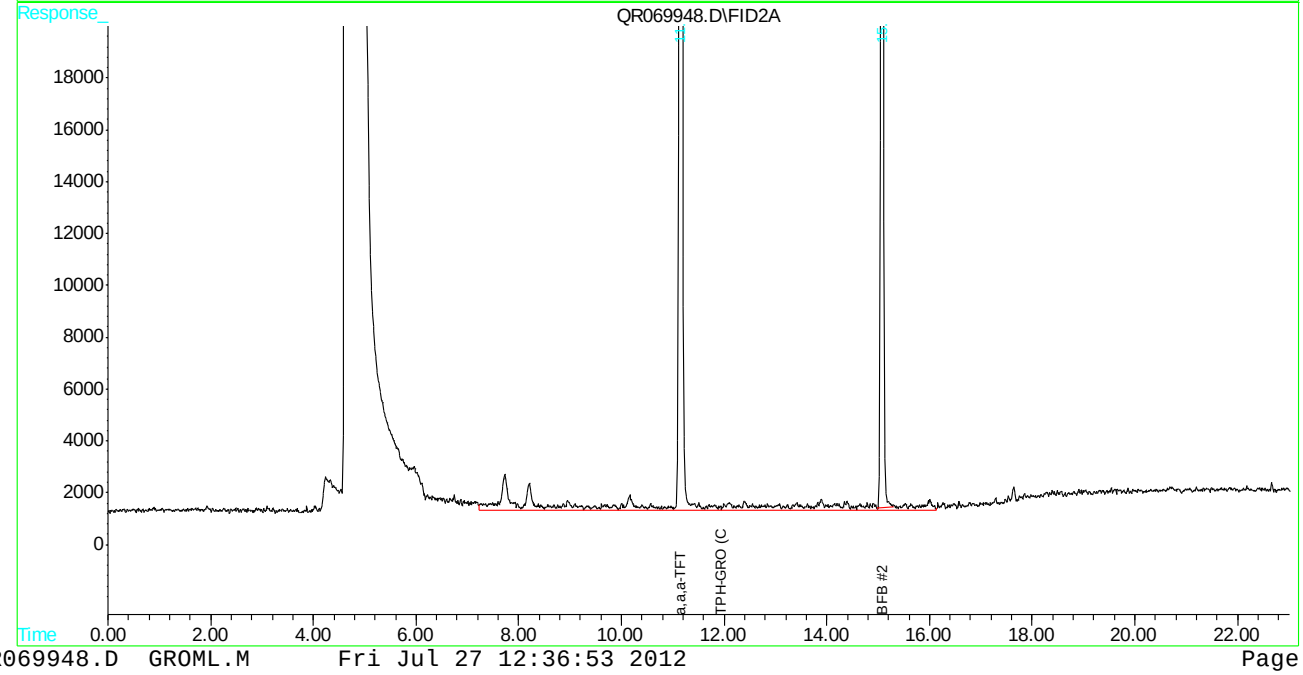
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069948.D\FID1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069948.D\FID2A.CH
Acq On : 26 Jul 2012 6:16 pm Operator: CARLENEP
Sample : F95217-1 Inst : VOA3
Misc : gc13944,gqr3028,8.22,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069949.D\FID1B.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069949.D\FID2A.CH
Acq On : 26 Jul 2012 6:44 pm Operator: CARLENEP
Sample : F95217-2 Inst : VOA3
Misc : gc13944,gqr3028,6.66,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32629	49.091 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.18%	
2) S BFB	15.07	91536	49.981 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.96%	
4) S a,a,a-TFT #2	11.15	2057167	51.547 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.09%	
5) S BFB #2	15.07	1443970	53.836 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.67%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	988390	19.757 ug/Kg

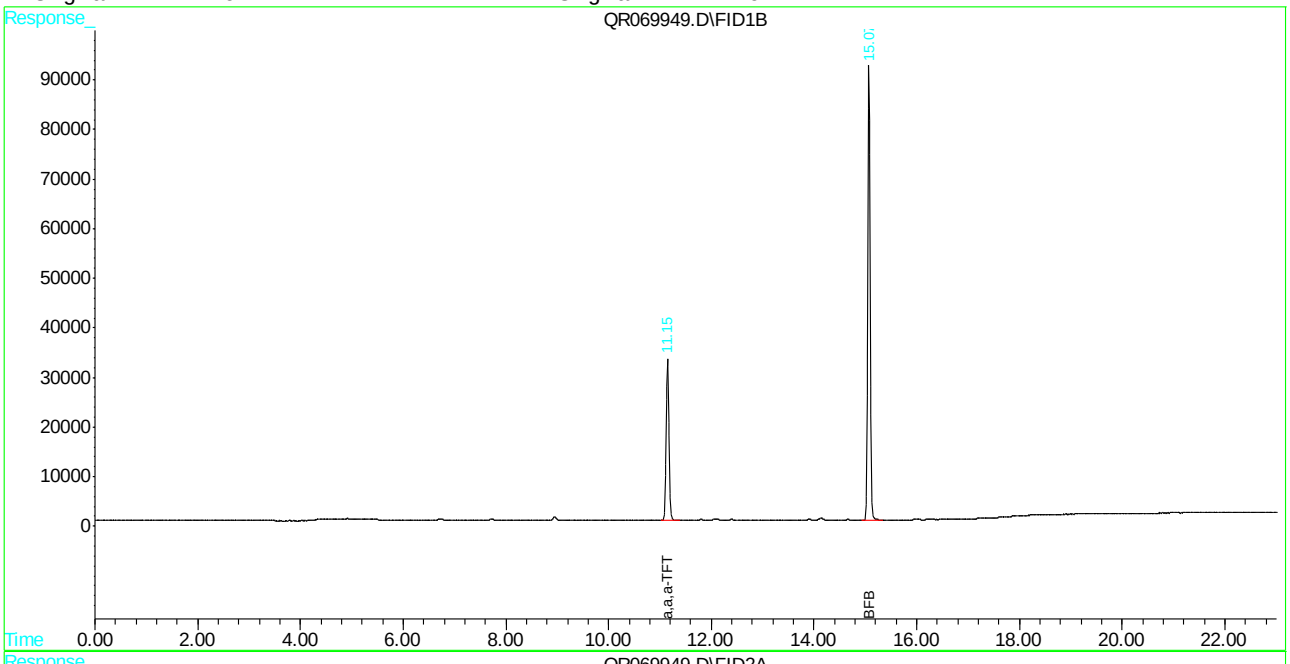
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069949.D GROML.M Fri Jul 27 12:36:55 2012

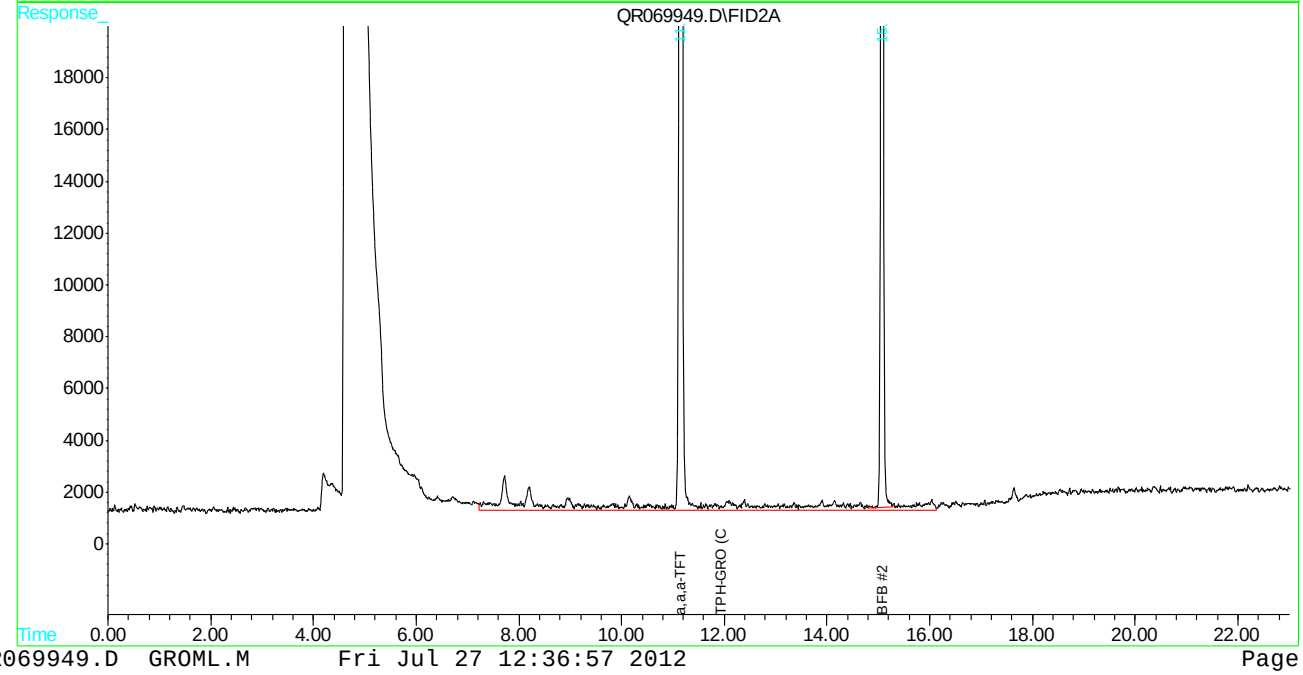
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069949.D\FID1B.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069949.D\FID2A.CH
Acq On : 26 Jul 2012 6:44 pm Operator: CARLENEP
Sample : F95217-2 Inst : VOA3
Misc : gc13944,gqr3028,6.66,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069950.D\FID1B.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069950.D\FID2A.CH
Acq On : 26 Jul 2012 7:12 pm Operator: CARLENEP
Sample : F95217-3 Inst : VOA3
Misc : gc13944,gqr3028,5.06,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32672	49.155 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.31%	
2) S BFB	15.07	91364	49.887 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.77%	
4) S a,a,a-TFT #2	11.15	2026219	50.772 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 101.54%	
5) S BFB #2	15.07	1426058	53.169 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 106.34%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1176002	23.507 ug/Kg

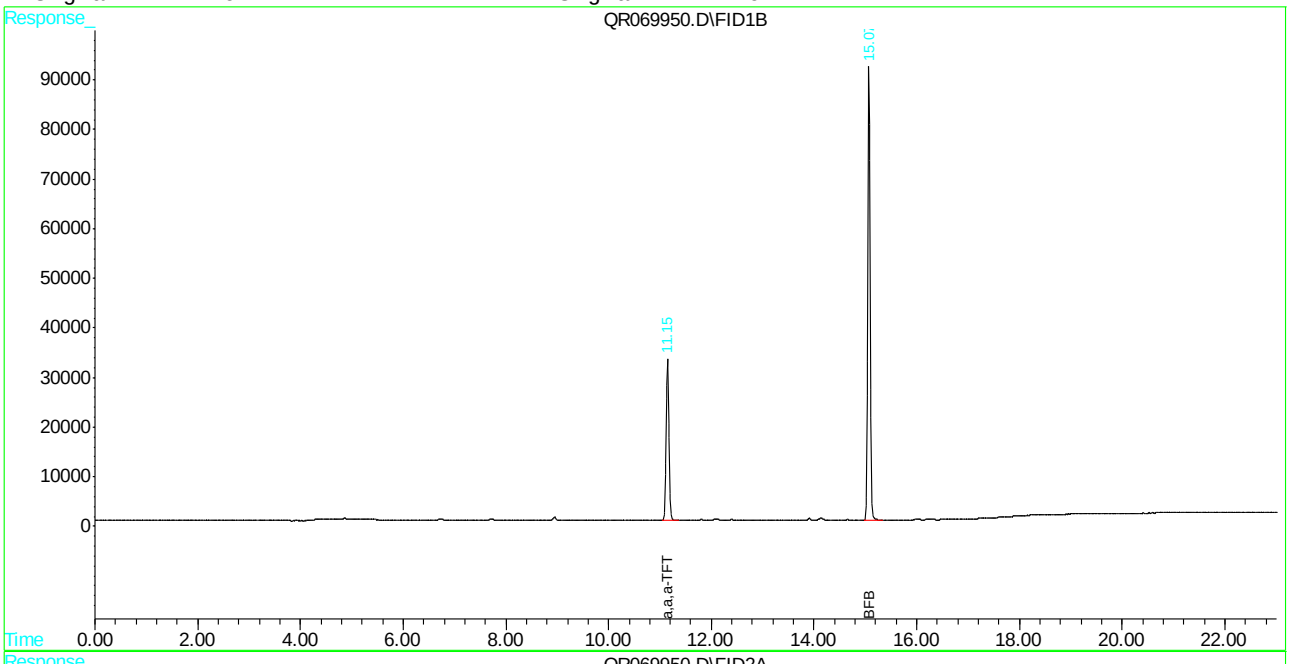
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069950.D GROML.M Fri Jul 27 12:36:59 2012

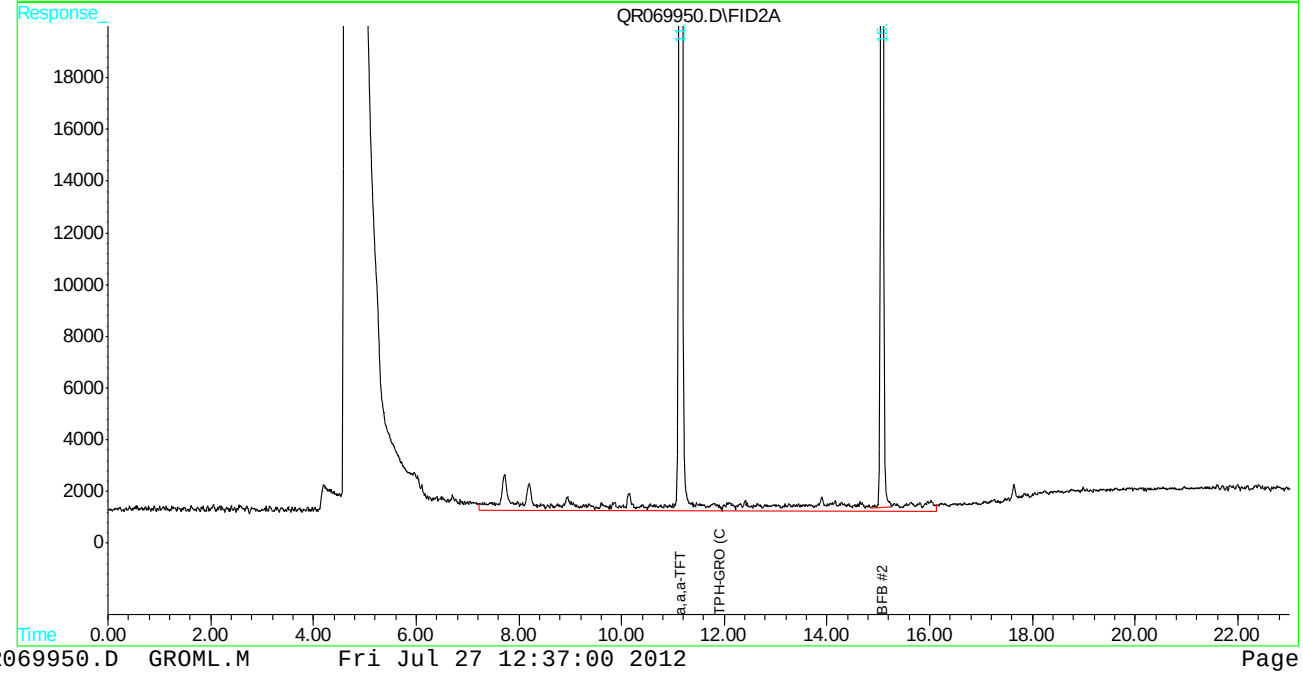
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069950.D\FID1B.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069950.D\FID2A.CH
Acq On : 26 Jul 2012 7:12 pm Operator: CARLENEP
Sample : F95217-3 Inst : VOA3
Misc : gc13944,gqr3028,5.06,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069953.D\FID1B.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069953.D\FID2A.CH
Acq On : 26 Jul 2012 8:37 pm Operator: CARLENEP
Sample : F95217-4 Inst : VOA3
Misc : gc13944,gqr3028,6.11,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32989	49.632 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.26%	
2) S BFB	15.07	91754	50.100 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.20%	
4) S a,a,a-TFT #2	11.15	2043576	51.206 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.41%	
5) S BFB #2	15.08	1414868	52.751 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 105.50%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	952414	19.037 ug/Kg

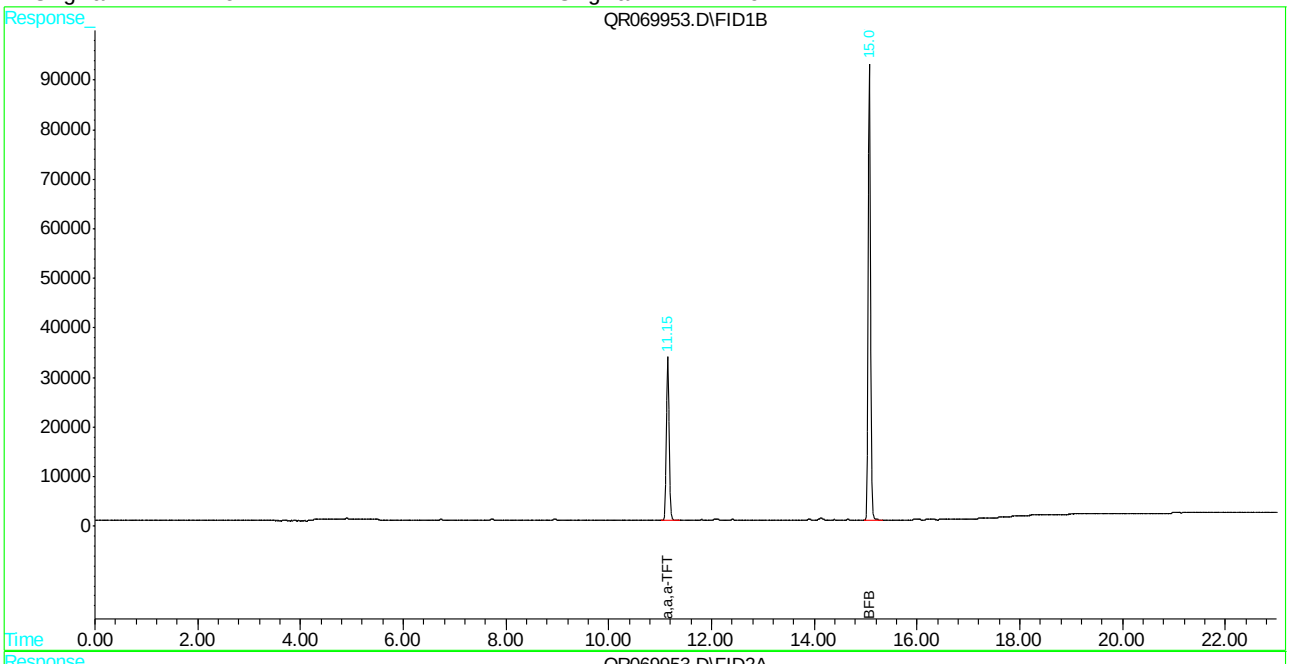
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069953.D GROML.M Fri Jul 27 12:37:10 2012

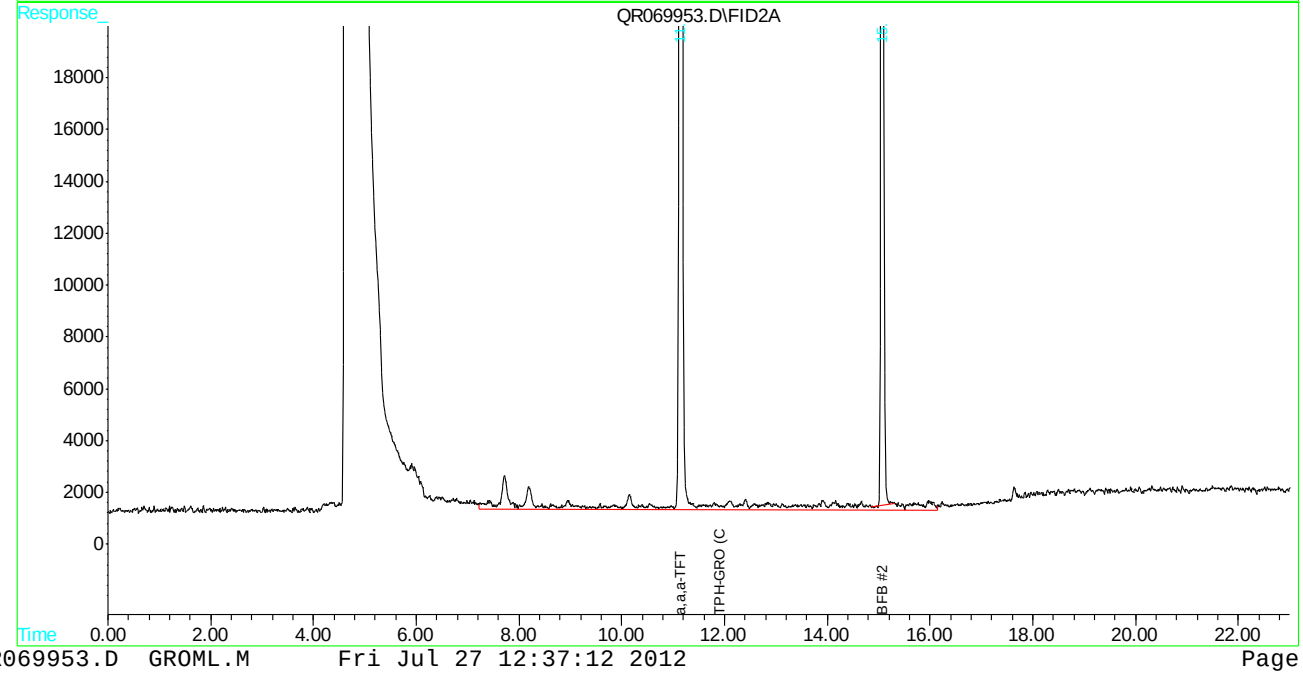
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069953.D\FID1B.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069953.D\FID2A.CH
Acq On : 26 Jul 2012 8:37 pm Operator: CARLENEP
Sample : F95217-4 Inst : VOA3
Misc : gc13944,gqr3028,6.11,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069954.D\FID1B.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069954.D\FID2A.CH
Acq On : 26 Jul 2012 9:05 pm Operator: CARLENEP
Sample : F95217-5 Inst : VOA3
Misc : gc13944,gqr3028,4.79,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32829	49.392 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.78%	
2) S BFB	15.07	90550	49.443 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.89%	
4) S a,a,a-TFT #2	11.15	2055052	51.494 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.99%	
5) S BFB #2	15.07	1391204	51.869 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.74%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1022659	20.441 ug/Kg

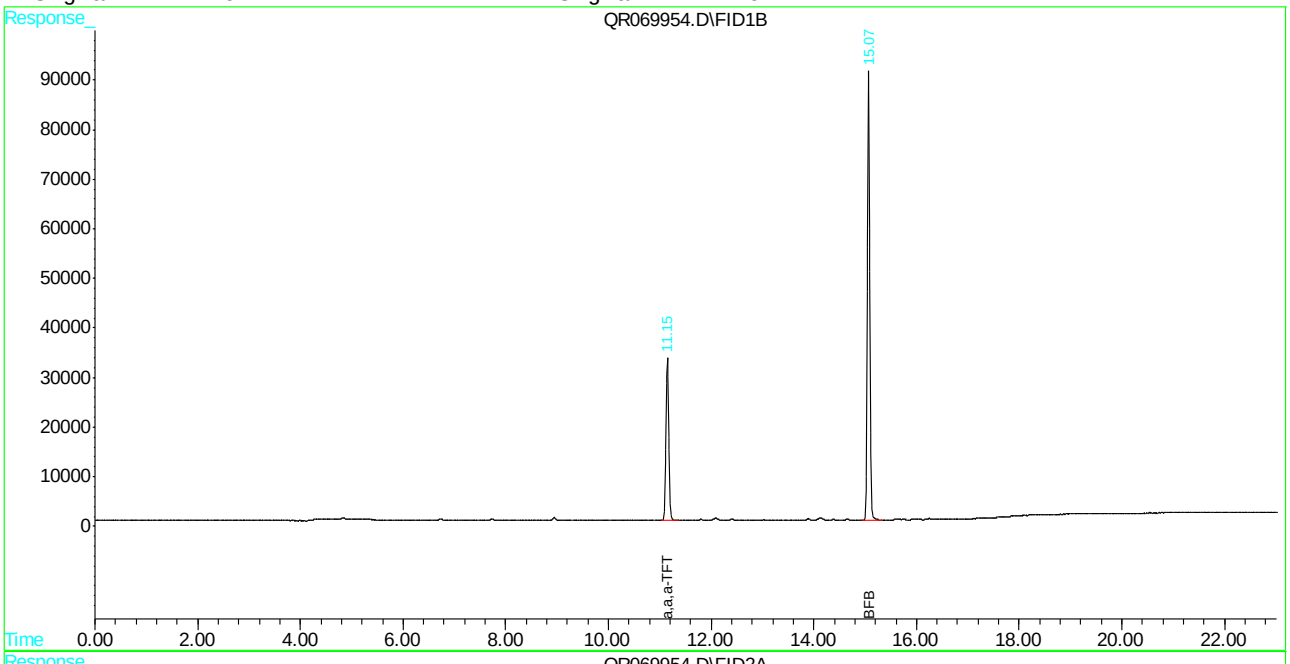
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069954.D GROML.M Fri Jul 27 12:37:13 2012

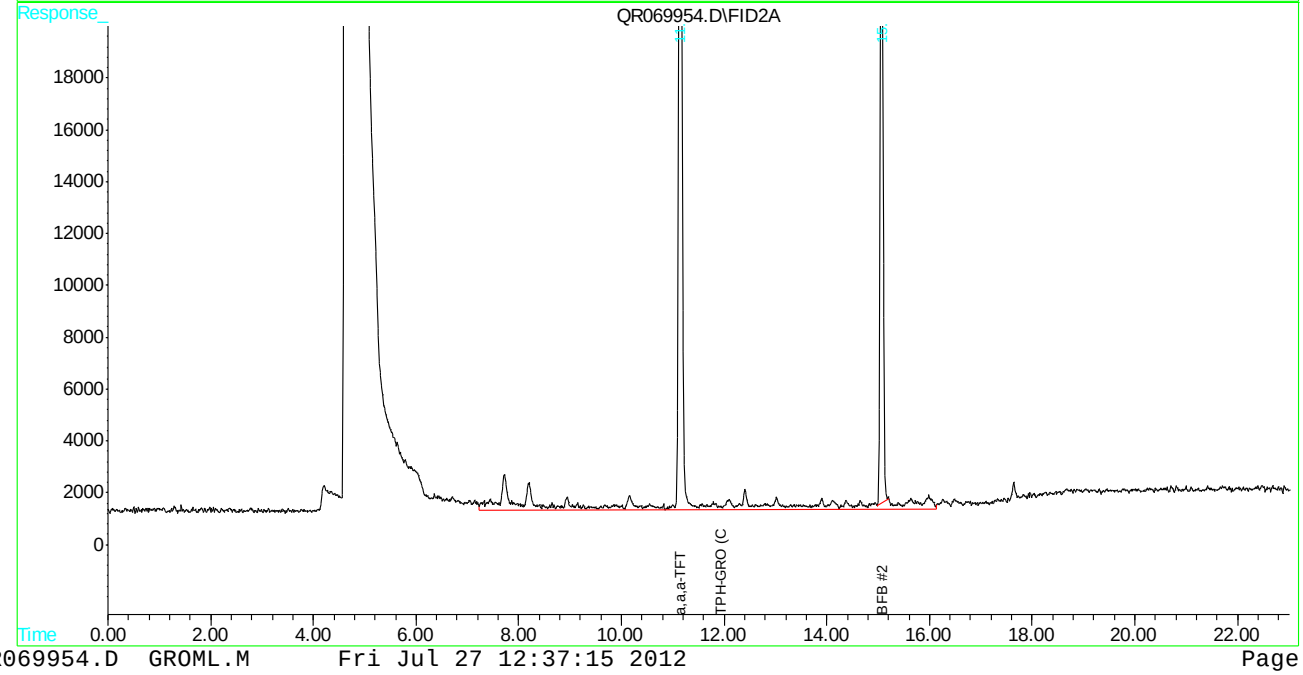
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069954.D\FID1B.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069954.D\FID2A.CH
Acq On : 26 Jul 2012 9:05 pm Operator: CARLENEP
Sample : F95217-5 Inst : VOA3
Misc : gc13944,gqr3028,4.79,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069955.D\FID1B.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069955.D\FID2A.CH
Acq On : 26 Jul 2012 9:34 pm Operator: CARLENEP
Sample : F95217-6 Inst : VOA3
Misc : gc13944,gqr3028,6.43,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33107	49.810 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.62%	
2) S BFB	15.07	91975	50.221 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.44%	
4) S a,a,a-TFT #2	11.15	2040517	51.130 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.26%	
5) S BFB #2	15.07	1445489	53.893 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.79%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	916301	18.316 ug/Kg

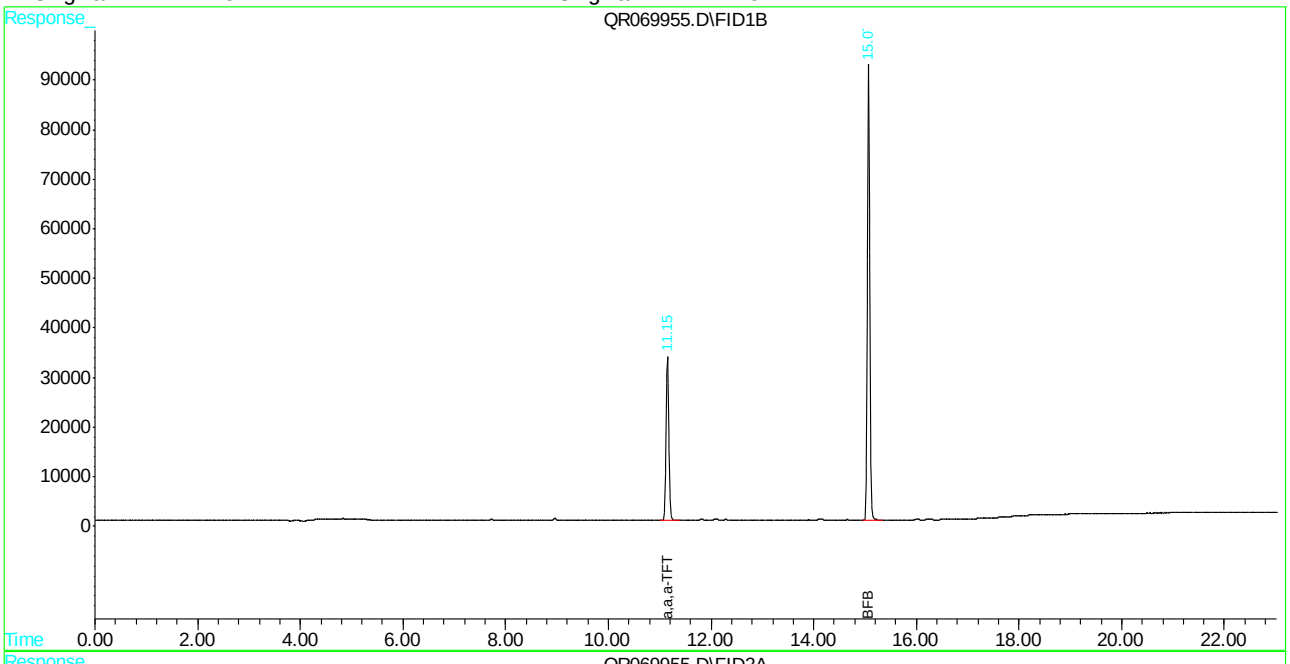
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069955.D GROML.M Fri Jul 27 12:37:16 2012

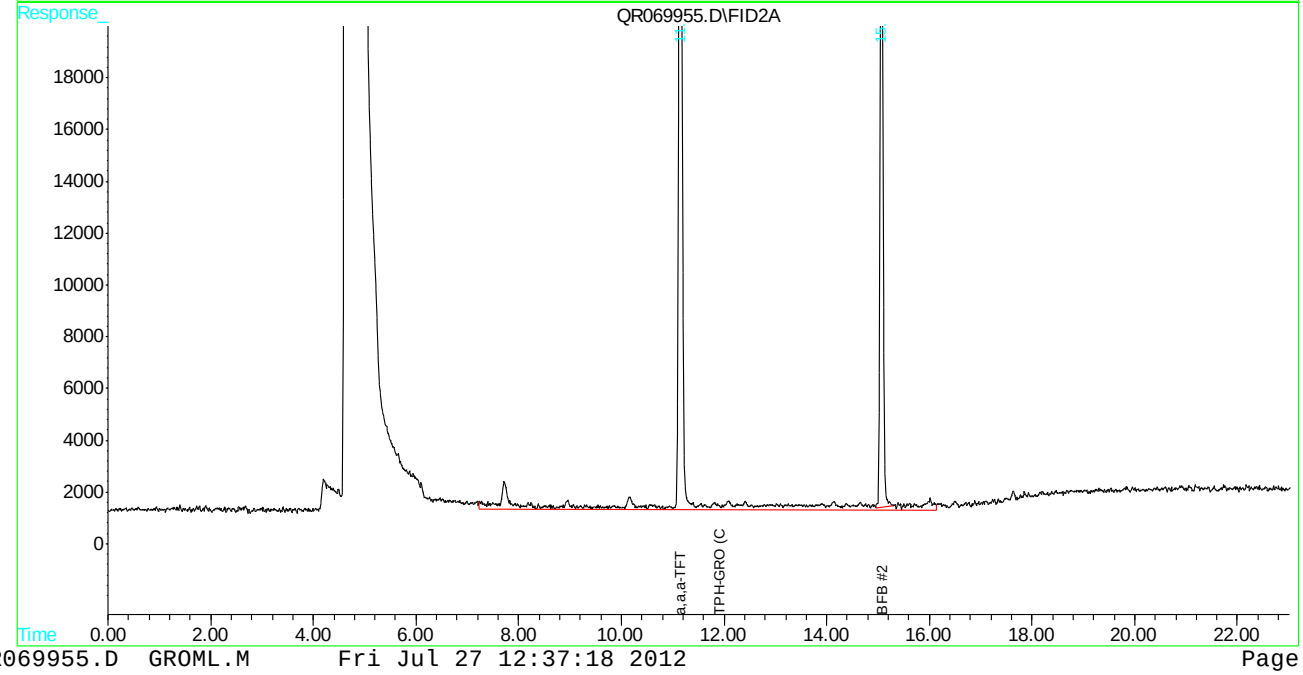
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069955.D\FID1B.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069955.D\FID2A.CH
Acq On : 26 Jul 2012 9:34 pm Operator: CARLENEP
Sample : F95217-6 Inst : VOA3
Misc : gc13944,gqr3028,6.43,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID1B.CH  Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID2A.CH
Acq On    : 26 Jul 2012  10:04 am                    Operator: CARLENEP
Sample    : MB                                       Inst    : VOA3
Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32162	48.388 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 96.78%	
2) S BFB	15.08	85863	46.883 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 93.77%	
4) S a,a,a-TFT #2	11.15	1974018	49.464 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.93%	
5) S BFB #2	15.08	1343725	50.099 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.20%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1106267	22.113 ug/Kg

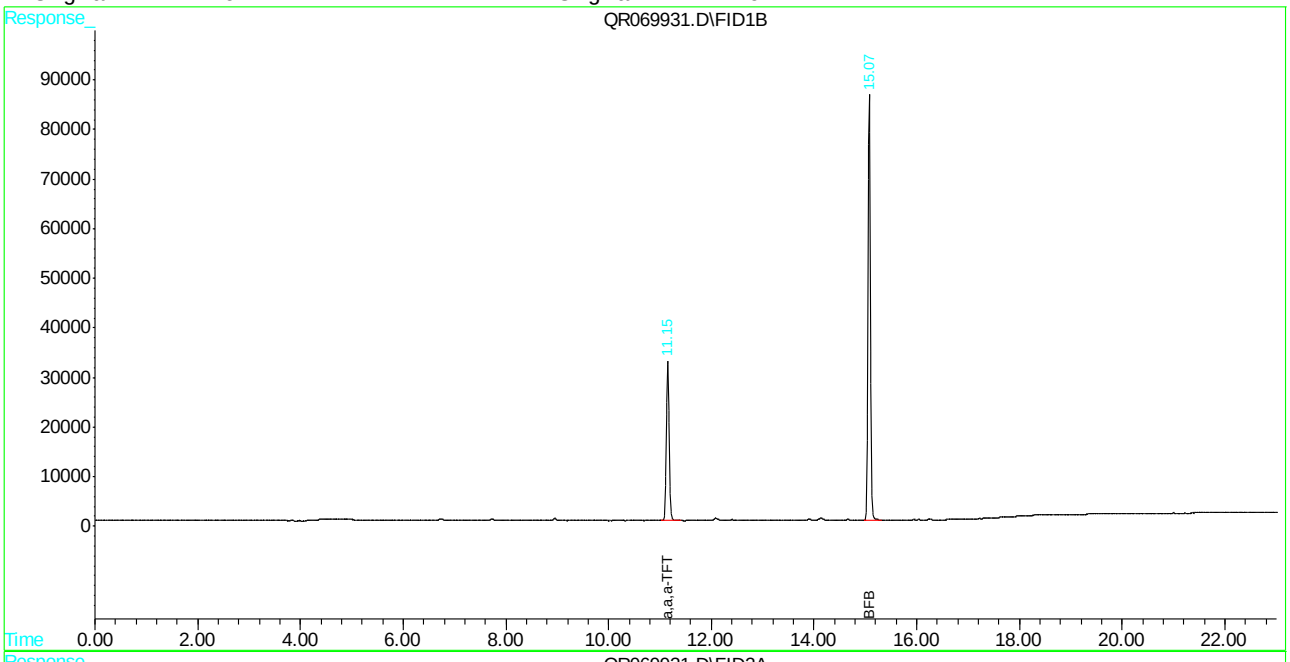
(f)=RT Delta > 1/2 Window (m)=manual int.

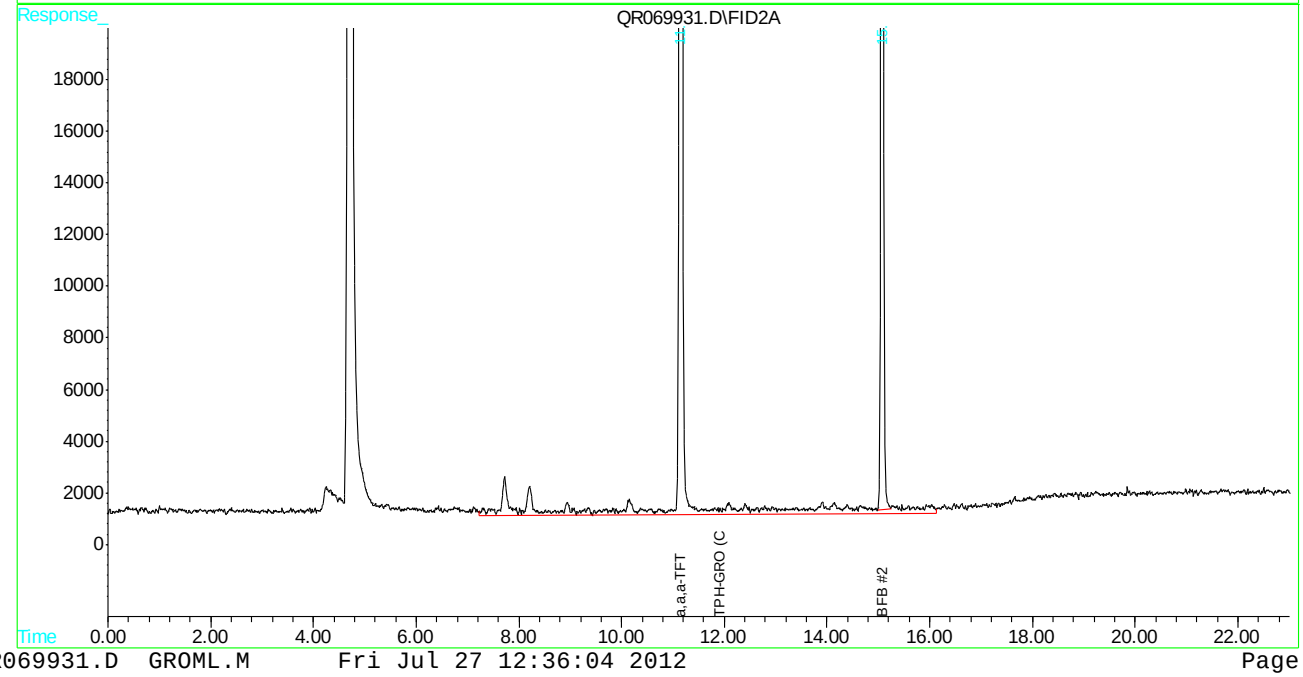
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID2A.CH
Acq On : 26 Jul 2012 10:04 am Operator: CARLENEP
Sample : MB Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID2A.CH
Acq On : 26 Jul 2012 9:36 am Operator: CARLENEP
Sample : BS Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32737	49.254 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.51%	
2) S BFB	15.07	88793	48.484 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 96.97%	
4) S a,a,a-TFT #2	11.15	2052995	51.442 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.88%	
5) S BFB #2	15.08	1443331	53.813 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.63%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	19634627	392.468 ug/Kg

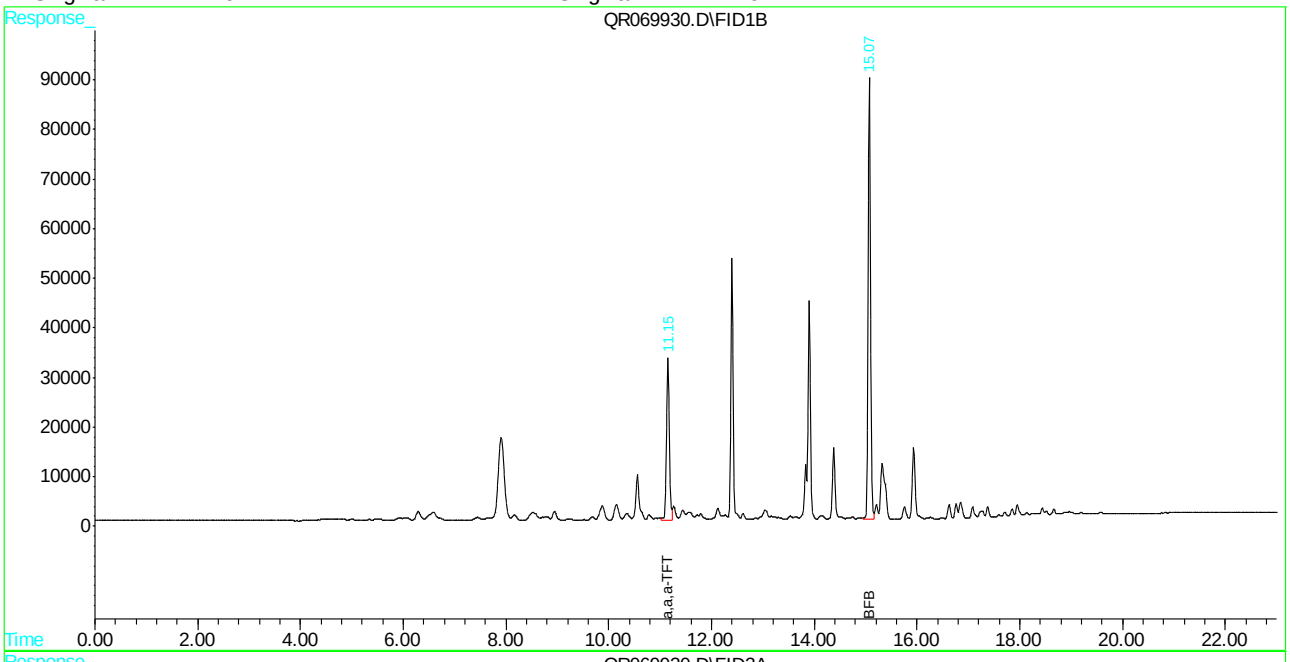
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069930.D GROML.M Fri Jul 27 12:36:01 2012

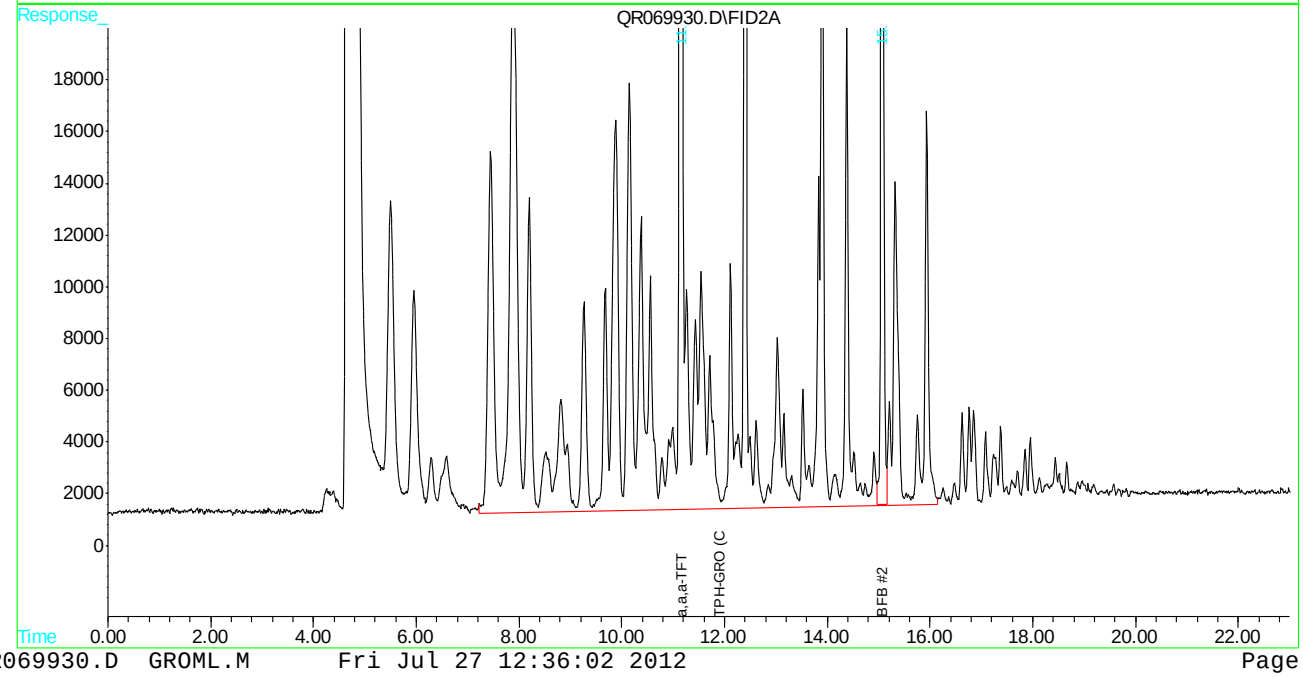
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID2A.CH
Acq On : 26 Jul 2012 9:36 am Operator: CARLENEP
Sample : BS Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID1B.CH  Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID2A.CH
Acq On    : 26 Jul 2012  10:02 pm                    Operator: CARLENEP
Sample    : F95178-2MS,200                           Inst    : VOA3
Misc      : gc13940,gqr3028,6.07,,25,5.0,,soil       Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33674	50.664 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 101.33%	
2) S BFB	15.07	93933	51.290 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 102.58%	
4) S a,a,a-TFT #2	11.15	2293866	57.478 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 114.96%	
5) S BFB #2	15.07	1608990	59.989 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 119.98%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	43561373	870.730 ug/Kg

11.4.1

11

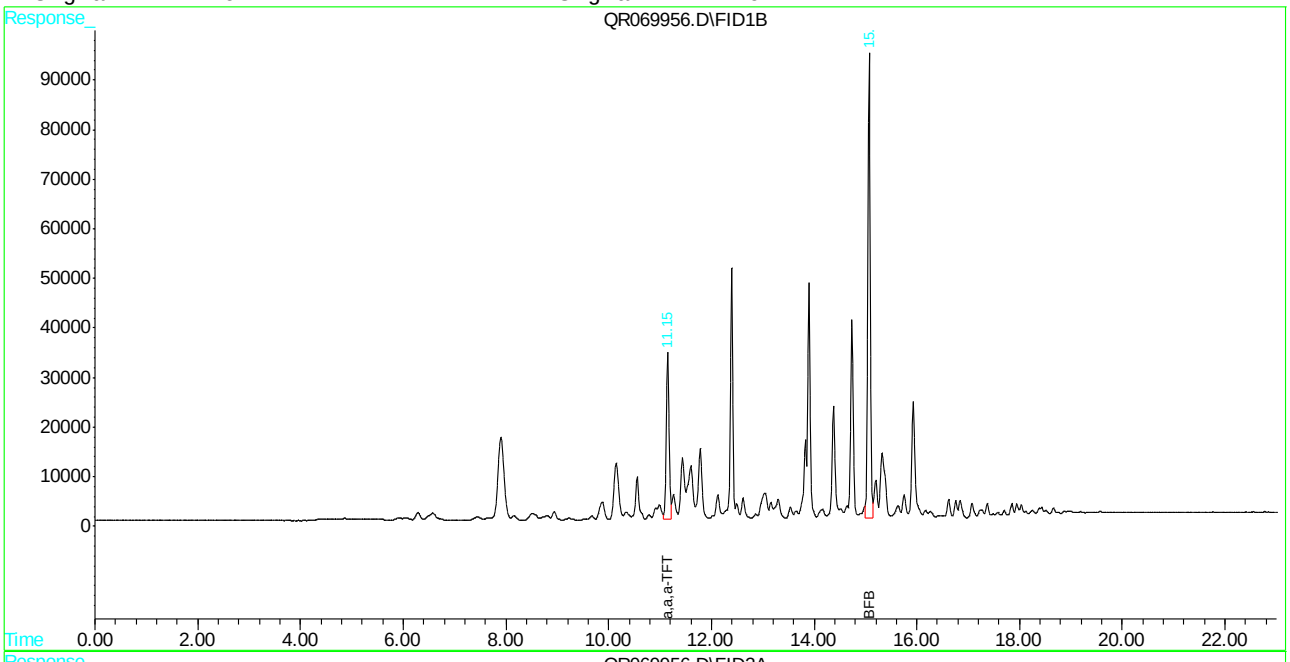
(f)=RT Delta > 1/2 Window (m)=manual int.

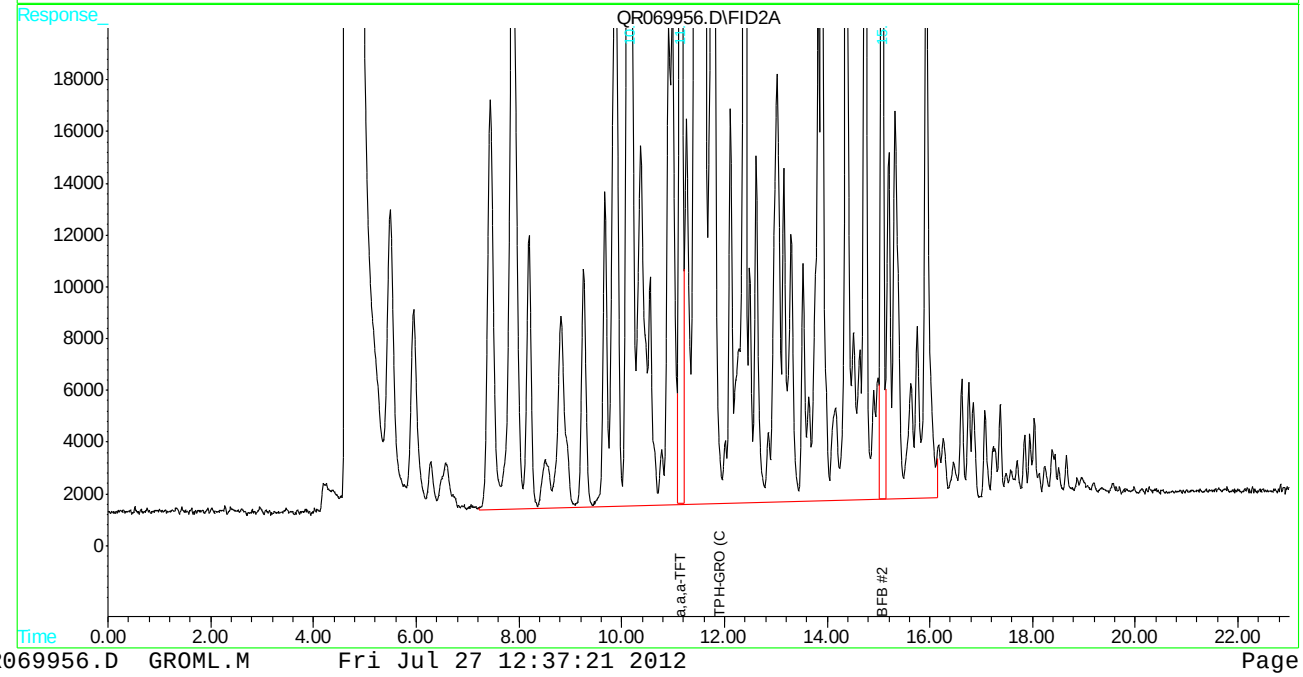
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID1B.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID2A.CH
Acq On : 26 Jul 2012 10:02 pm Operator: CARLENEP
Sample : F95178-2MS,200 Inst : VOA3
Misc : gc13940,gqr3028,6.07,,25,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	F95178-2MS	**Method:**	SW846 8015C
Lab FileID:	QR069956.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:02	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Bromofluorobenzene	460-00-4	1	15.07	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID1B.CH  Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID2A.CH
Acq On    : 26 Jul 2012  10:30 pm                    Operator: CARLENEP
Sample    : F95178-2MSD,200                          Inst    : VOA3
Misc      : gc13940,gqr3028,6.07,,25,5.0,,soil       Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:34 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33987	51.135 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.27%	
2) S BFB	15.07	94256	51.466 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 102.93%	
4) S a,a,a-TFT #2	11.15	2319483	58.120 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 116.24%	
5) S BFB #2	15.07	1629030	60.736 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 121.47%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	43750369	874.507 ug/Kg

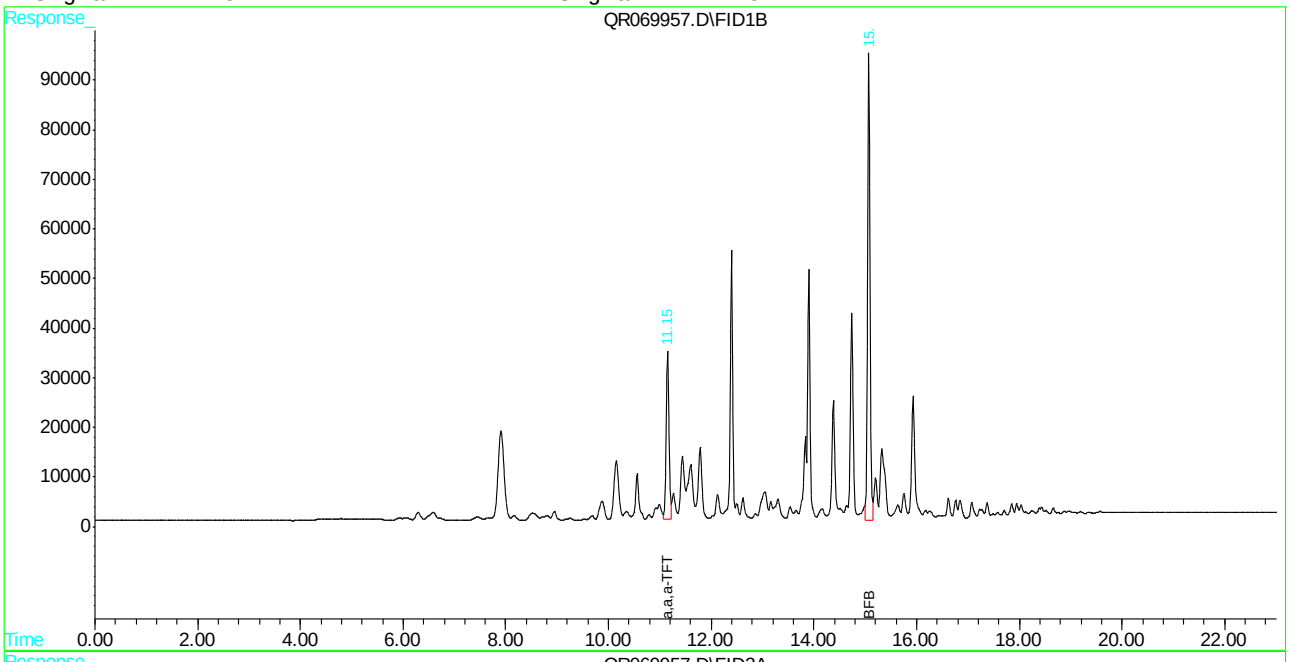
(f)=RT Delta > 1/2 Window (m)=manual int.

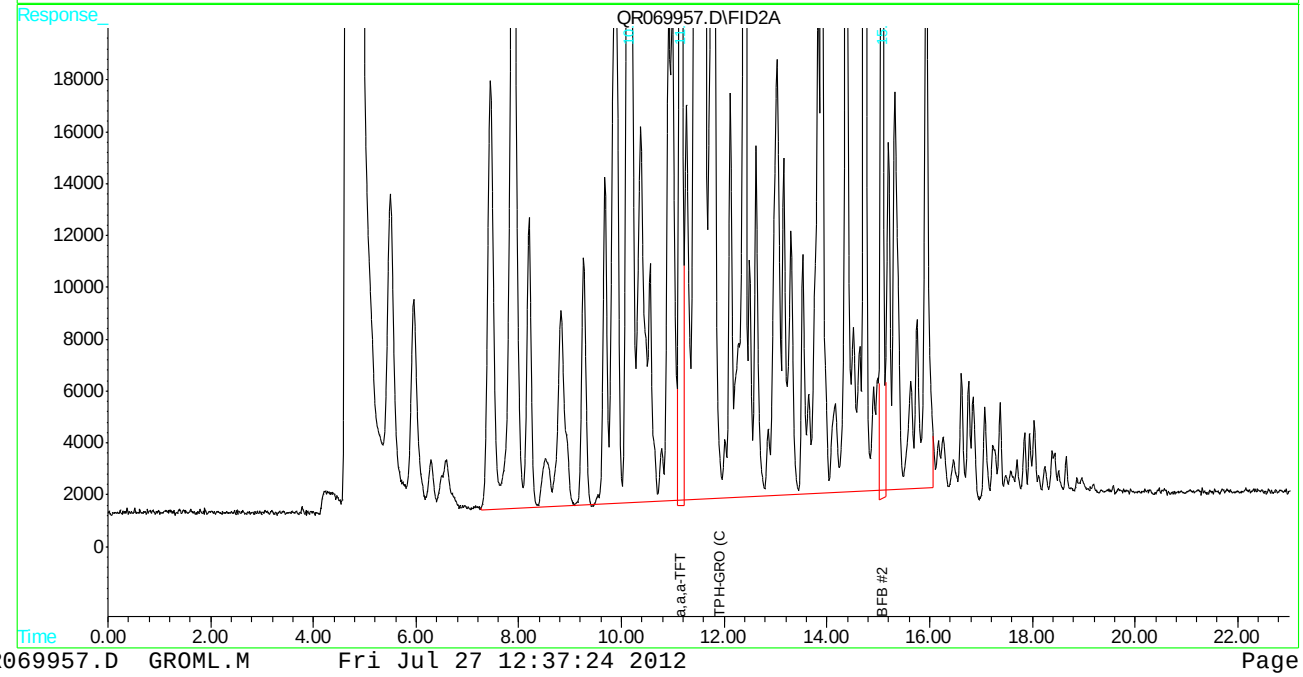
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID1B.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID2A.CH
Acq On : 26 Jul 2012 10:30 pm Operator: CARLENEP
Sample : F95178-2MSD,200 Inst : VOA3
Misc : gc13940,gqr3028,6.07,,25,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:34 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	F95178-2MSD	**Method:**	SW846 8015C
Lab FileID:	QR069957.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:30	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Bromofluorobenzene	460-00-4	1	15.07	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.07	Poor instrument integration

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID2A.CH
Acq On : 5 Jul 2012 3:57 pm Operator: MikeM
Sample : RT Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 9 14:47 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33056	49.733 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery =	99.47%
2) S BFB	15.06	86662	47.320 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery =	94.64%
4) S a,a,a-TFT #2	11.15	1951983	48.911 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery =	97.82%
5) S BFB #2	15.06	1256693	46.854 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery =	93.71%
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	23426055	468.253 ug/Kg

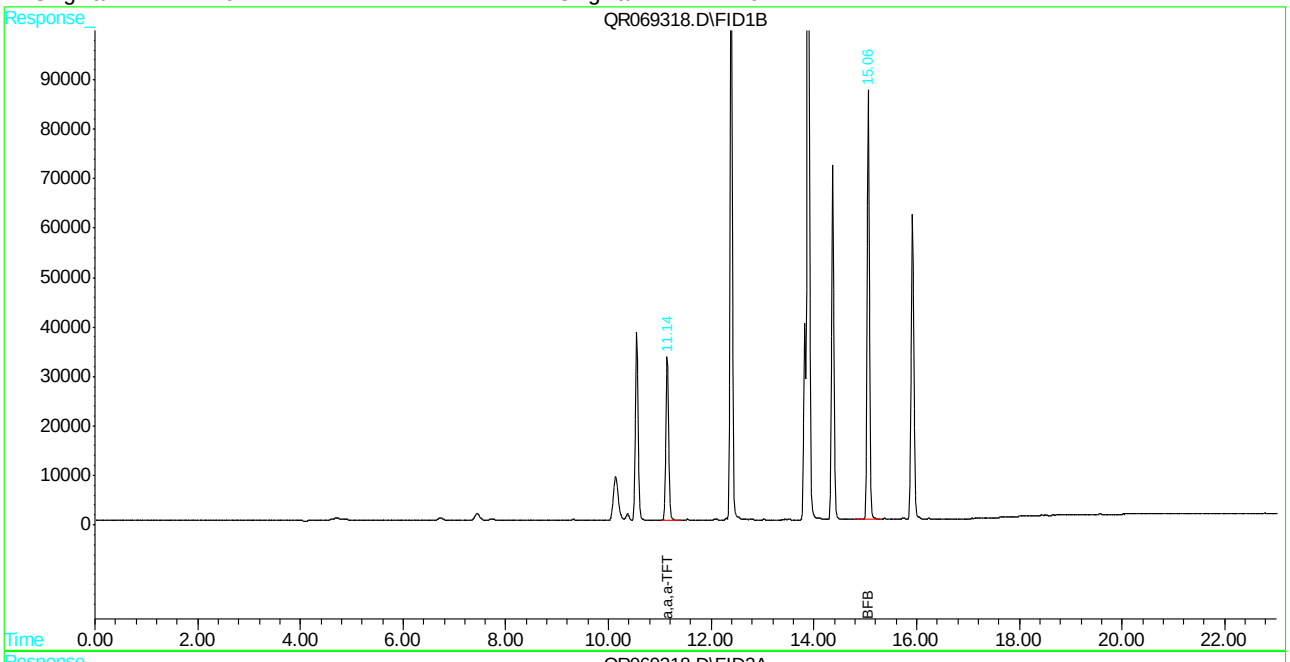
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069318.D GROML.M Mon Jul 09 14:47:58 2012

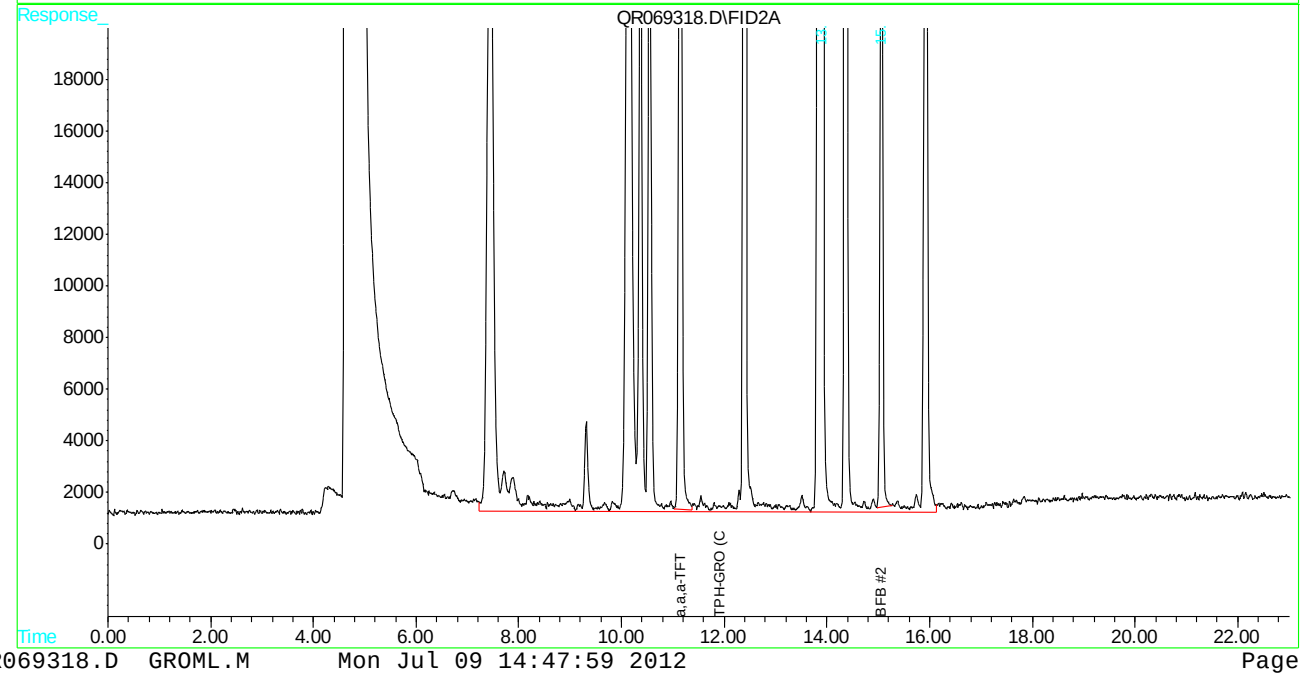
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID2A.CH
Acq On : 5 Jul 2012 3:57 pm Operator: MikeM
Sample : RT Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 9 14:47 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID1B.CH  Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID2A.CH
Acq On    : 26 Jul 2012   8:39 am                    Operator: CARLENEP
Sample    : RT                                       Inst    : VOA3
Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	33344	50.167 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 100.33%	
2) S BFB	15.06	92187	50.337 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.67%	
4) S a,a,a-TFT #2	11.14	2039356	51.101 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.20%	
5) S BFB #2	15.06	1386673	51.700 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.40%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	31399200	627.625 ug/Kg

11.5.2

11

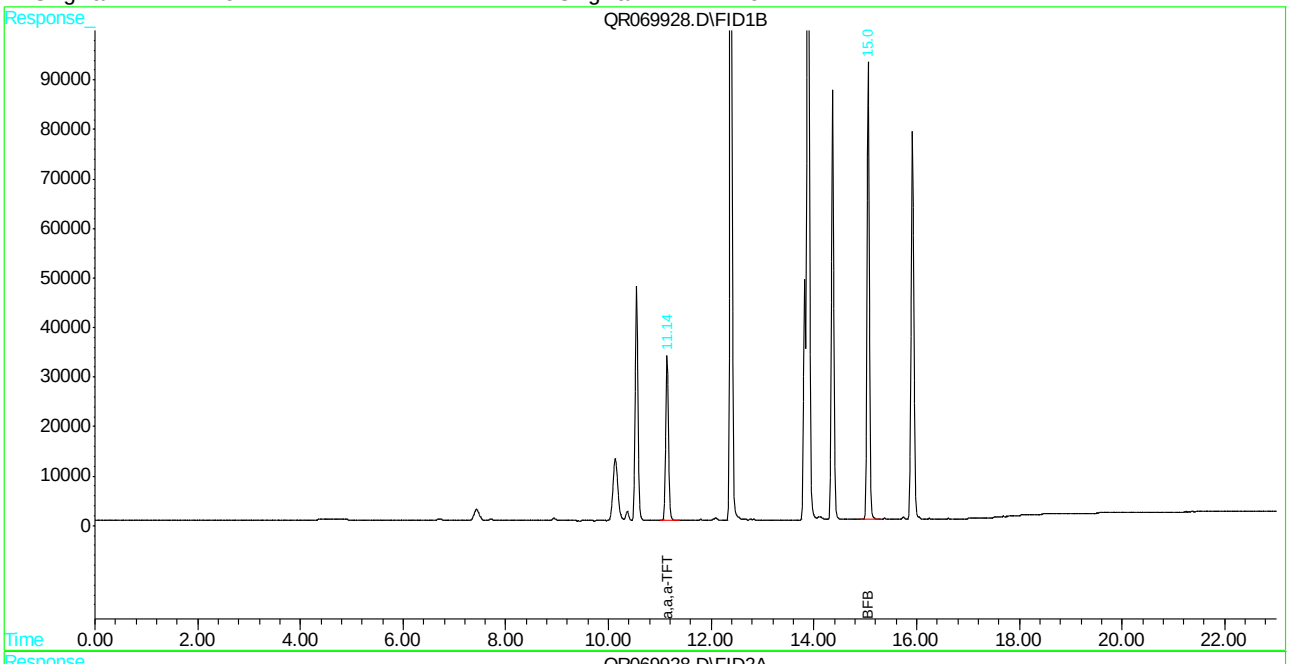
(f)=RT Delta > 1/2 Window (m)=manual int.

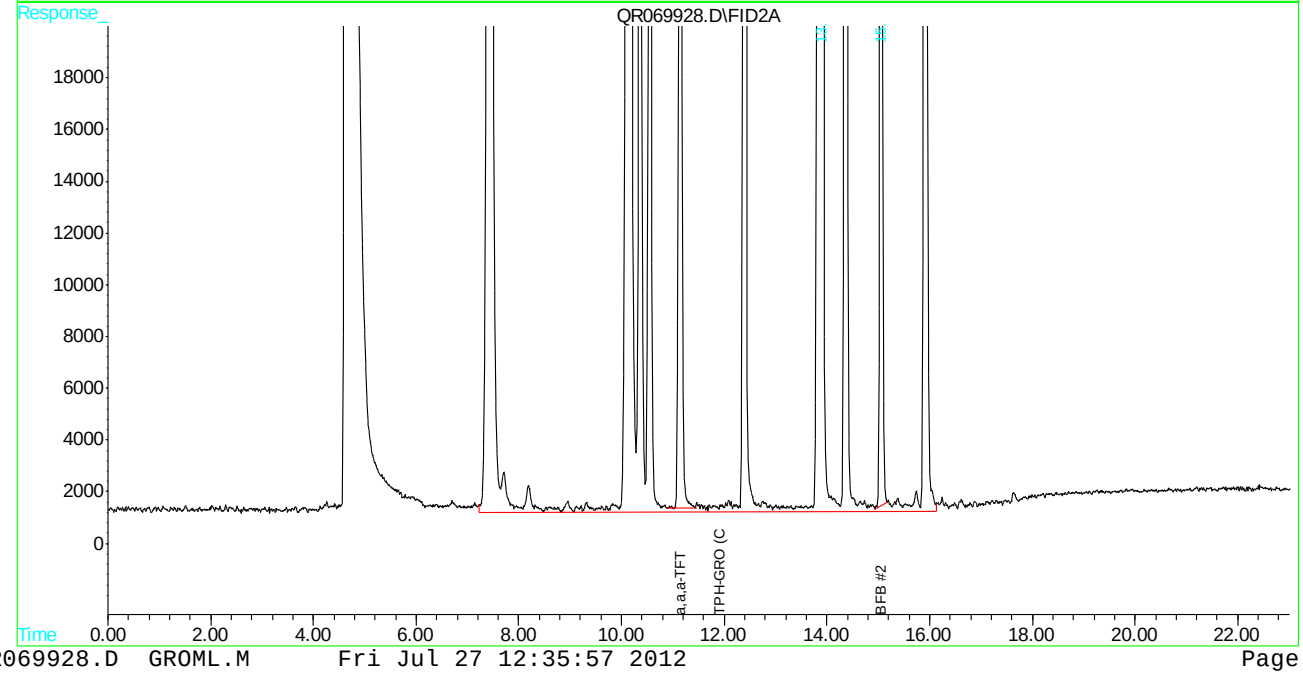
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID2A.CH
Acq On : 26 Jul 2012 8:39 am Operator: CARLENEP
Sample : RT Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID1B.CH  Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID2A.CH
Acq On    : 26 Jul 2012   2:57 pm                    Operator: CARLENEP
Sample    : RT                                       Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	32880	49.468 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.94%	
2) S BFB	15.08	90963	49.668 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.34%	
4) S a,a,a-TFT #2	11.16	2021836	50.662 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 101.32%	
5) S BFB #2	15.08	1392857	51.931 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.86%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	31495511	629.550 ug/Kg

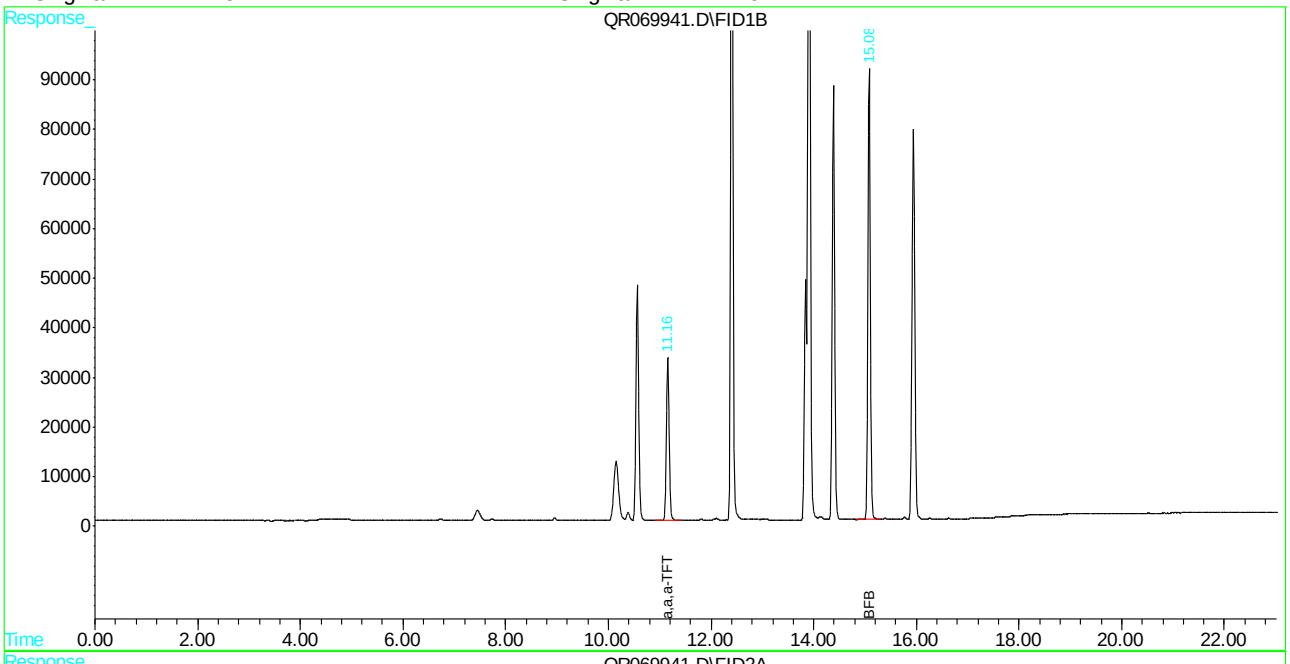
(f)=RT Delta > 1/2 Window (m)=manual int.

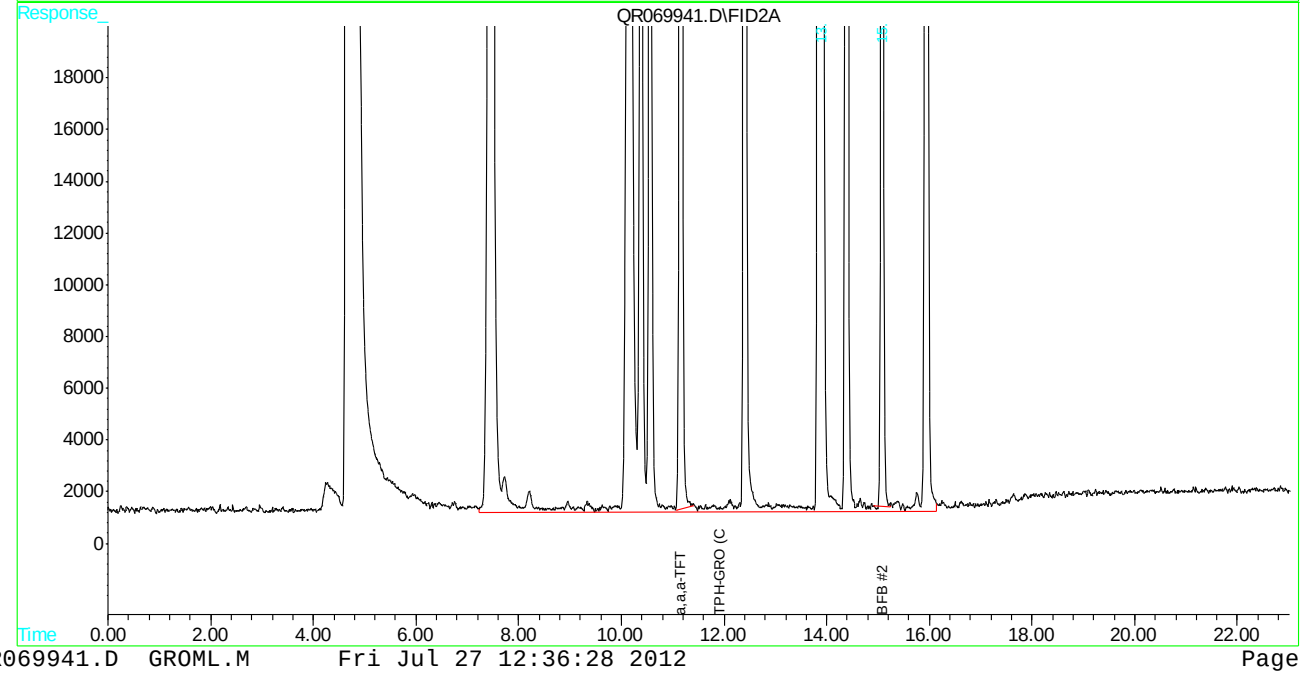
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID1B.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID2A.CH
Acq On : 26 Jul 2012 2:57 pm Operator: CARLENEP
Sample : RT Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID1B.CH  Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID2A.CH
Acq On    :  5 Jul 2012   4:29 pm                    Operator: MikeM
Sample    : IC3009-1                                 Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:23 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          32485   48.785 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   97.57%
 2) S   BFB                        15.05          86258   47.250 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   94.50%
 4) S   a,a,a-TFT #2               11.14        1926367   44.871 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   89.74%
 5)  S  BFB #2                     15.05        1260307   46.561 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   93.12%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92        5397245  108.838 ug/Kg
```

11.6.1

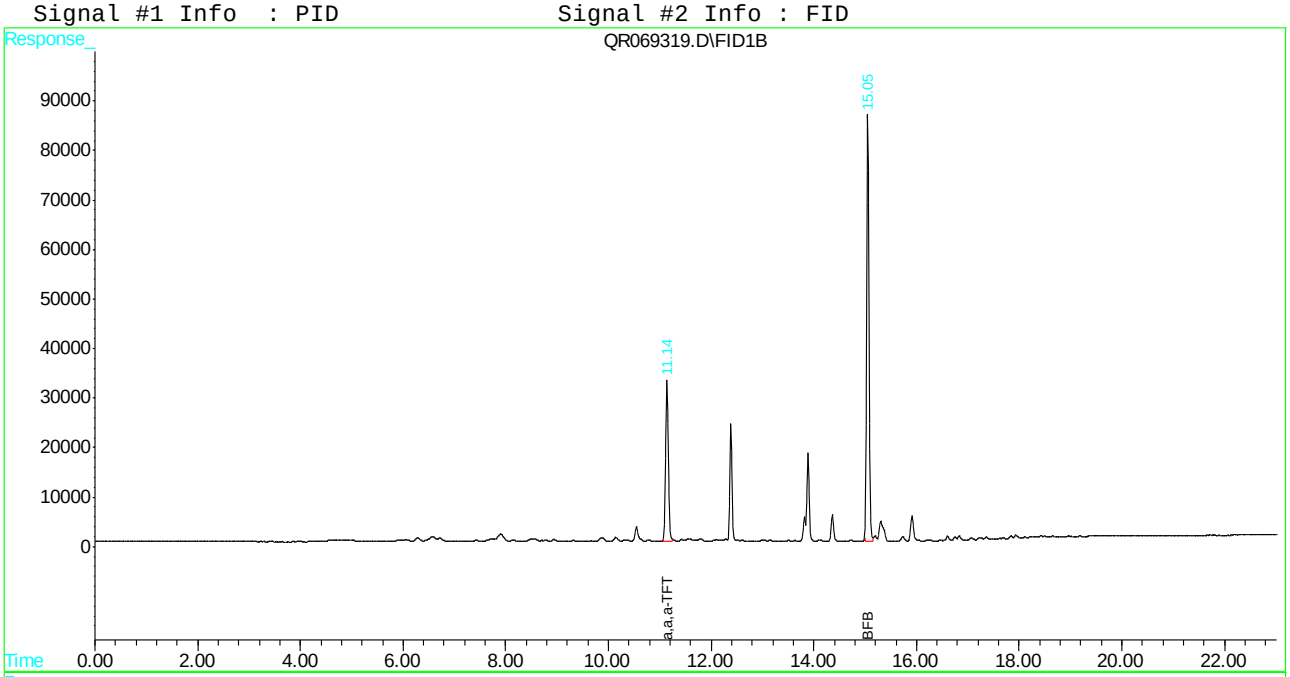
11

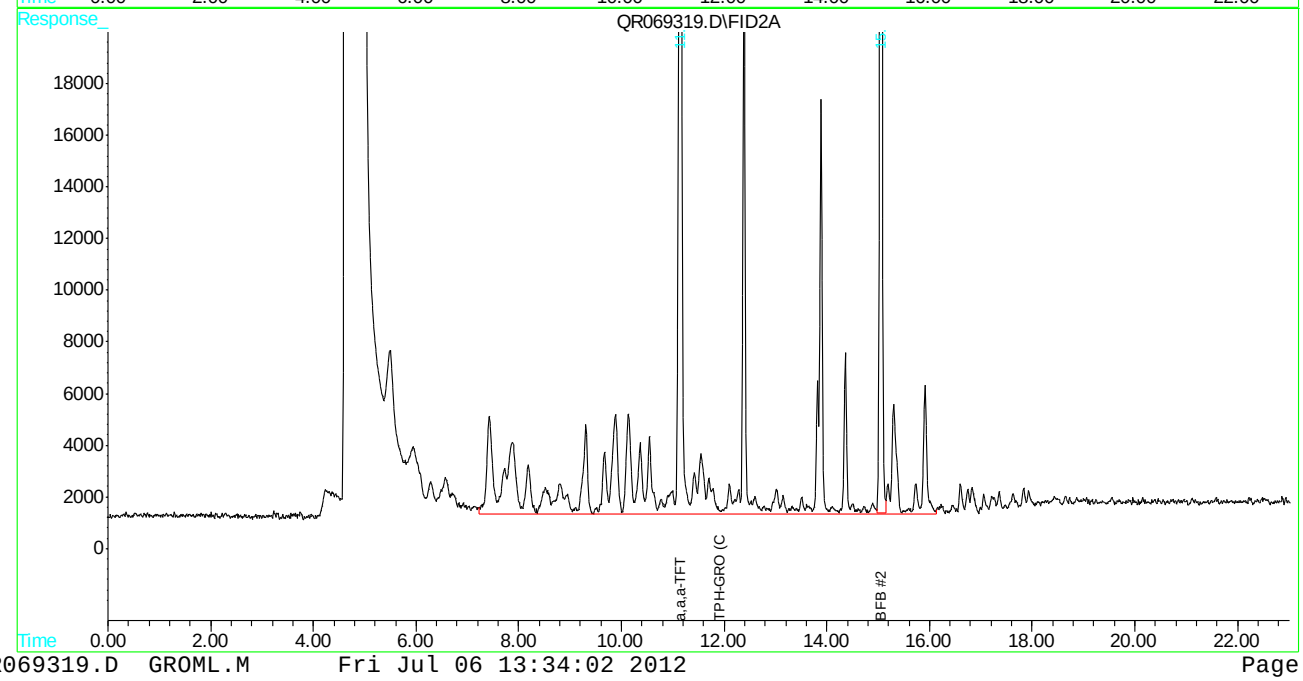
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID2A.CH
Acq On : 5 Jul 2012 4:29 pm Operator: MikeM
Sample : IC3009-1 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





QR069319.D GROML.M Fri Jul 06 13:34:02 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069319.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 16:29	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID1B.CH  Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID2A.CH
Acq On    :  5 Jul 2012   4:57 pm                    Operator: MikeM
Sample    : IC3009-2                                 Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:24 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          38825   58.305 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  116.61%
 2) S   BFB                        15.05         104504   57.245 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  114.49%
 4) S   a,a,a-TFT #2               11.14        2315097   53.926 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  107.85%
 5)  S  BFB #2                     15.05        1515391   55.985 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  111.97%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       10305145  207.807 ug/Kg
```

11.6.2

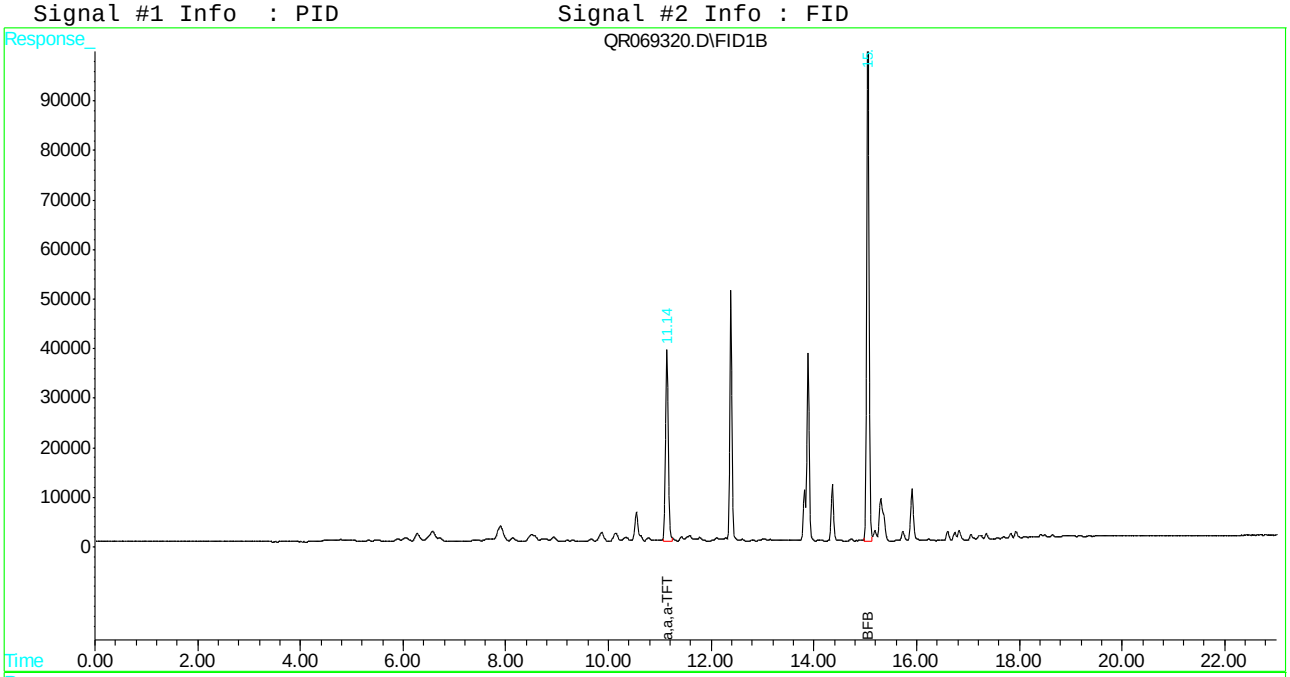
11

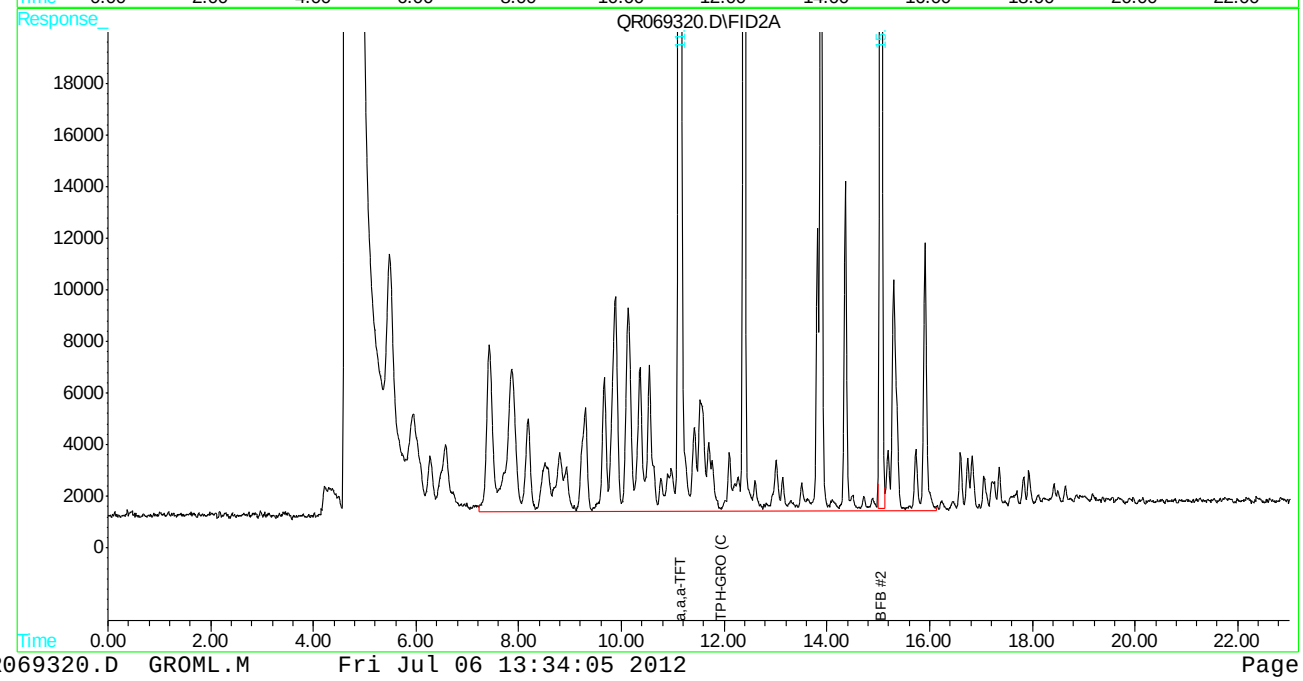
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID2A.CH
Acq On : 5 Jul 2012 4:57 pm Operator: MikeM
Sample : IC3009-2 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069320.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 16:57	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID2A.CH
Acq On : 5 Jul 2012 5:25 pm Operator: MikeM
Sample : IC3009-3 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	34066	51.158 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.32%	
2) S BFB	15.05	90846	49.763 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.53%	
4) S a,a,a-TFT #2	11.14	2039532	47.507 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 95.01%	
5) S BFB #2	15.05	1311054	48.436 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 96.87%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	19714500	397.551 ug/Kg

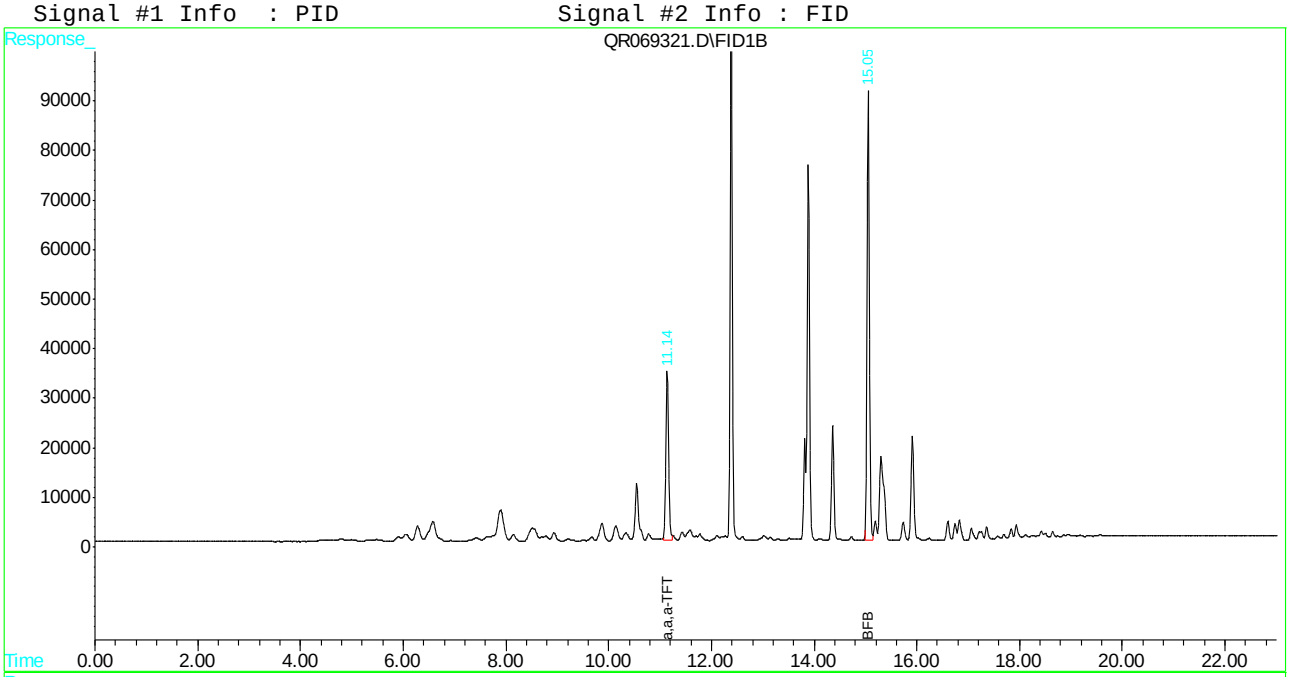
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069321.D GROML.M Fri Jul 06 13:34:07 2012

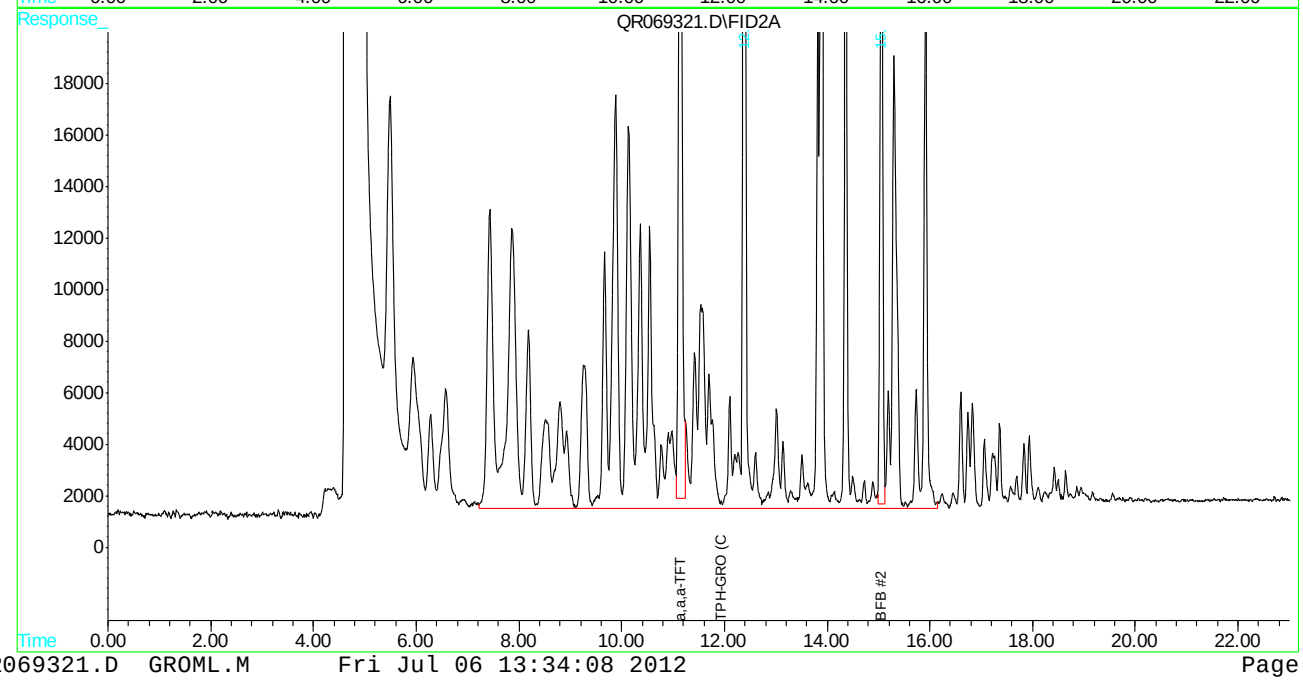
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID2A.CH
Acq On : 5 Jul 2012 5:25 pm Operator: MikeM
Sample : IC3009-3 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069321.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 17:25	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID2A.CH
Acq On : 5 Jul 2012 5:54 pm Operator: MikeM
Sample : ICC3009-4 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	50059	75.176 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 150.35%#	
2) S BFB	15.05	140925	77.196 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 154.39%#	
4) S a,a,a-TFT #2	11.14	2997264	69.815 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 139.63%#	
5) S BFB #2	15.05	2051421	75.789 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 151.58%#	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	29704458	599.002 ug/Kg

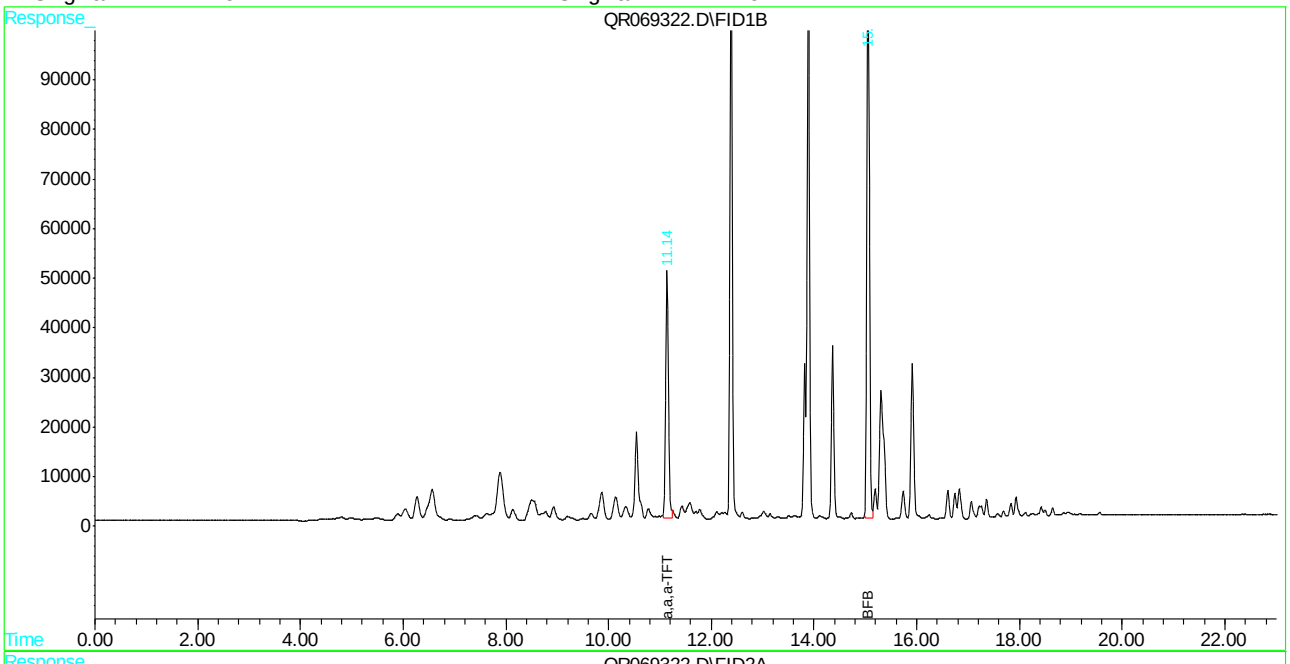
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069322.D GROML.M Fri Jul 06 13:34:10 2012

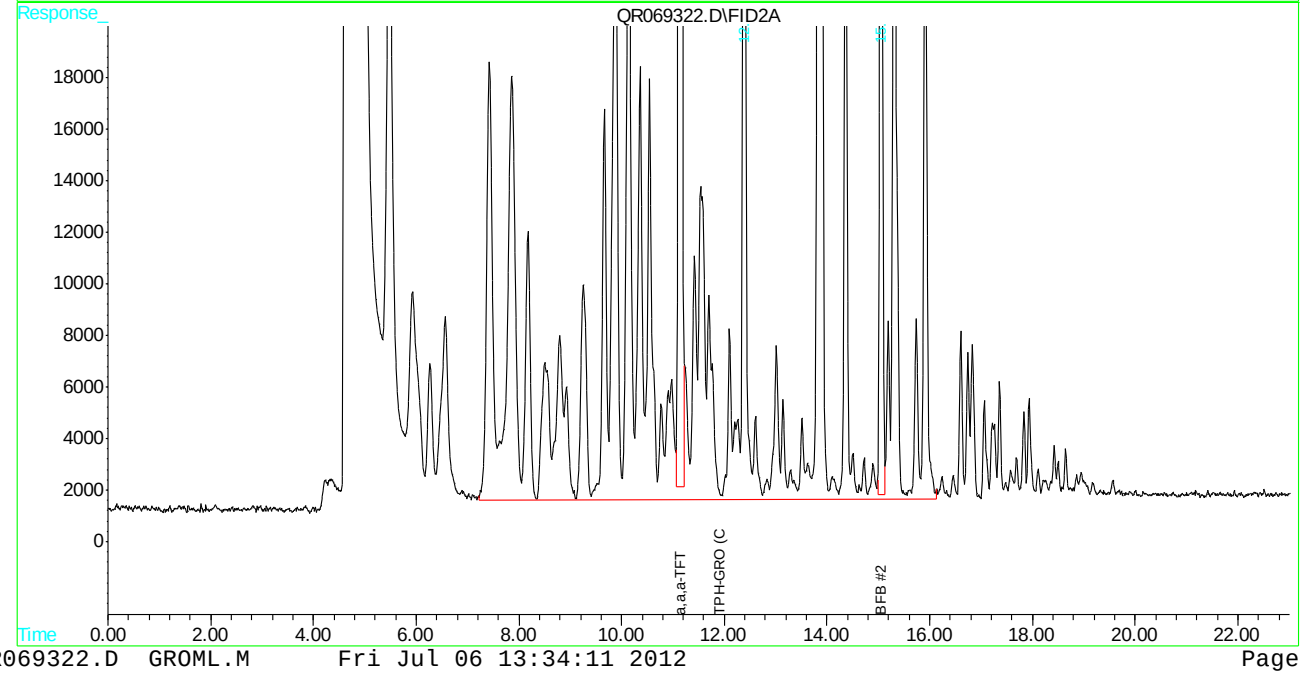
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID2A.CH
Acq On : 5 Jul 2012 5:54 pm Operator: MikeM
Sample : ICC3009-4 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-ICC3009	**Method:**	SW846 8015C
Lab FileID:	QR069322.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 17:54	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID2A.CH
Acq On : 5 Jul 2012 6:22 pm Operator: MikeM
Sample : IC3009-5 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.13	51969	78.045 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 156.09%#	
2) S BFB	15.05	148582	81.390 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 162.78%#	
4) S a,a,a-TFT #2	11.13	3146017	73.280 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 146.56%#	
5) S BFB #2	15.05	2207967	81.572 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 163.14%#	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	38370599	773.759 ug/Kg

11.6.5 11

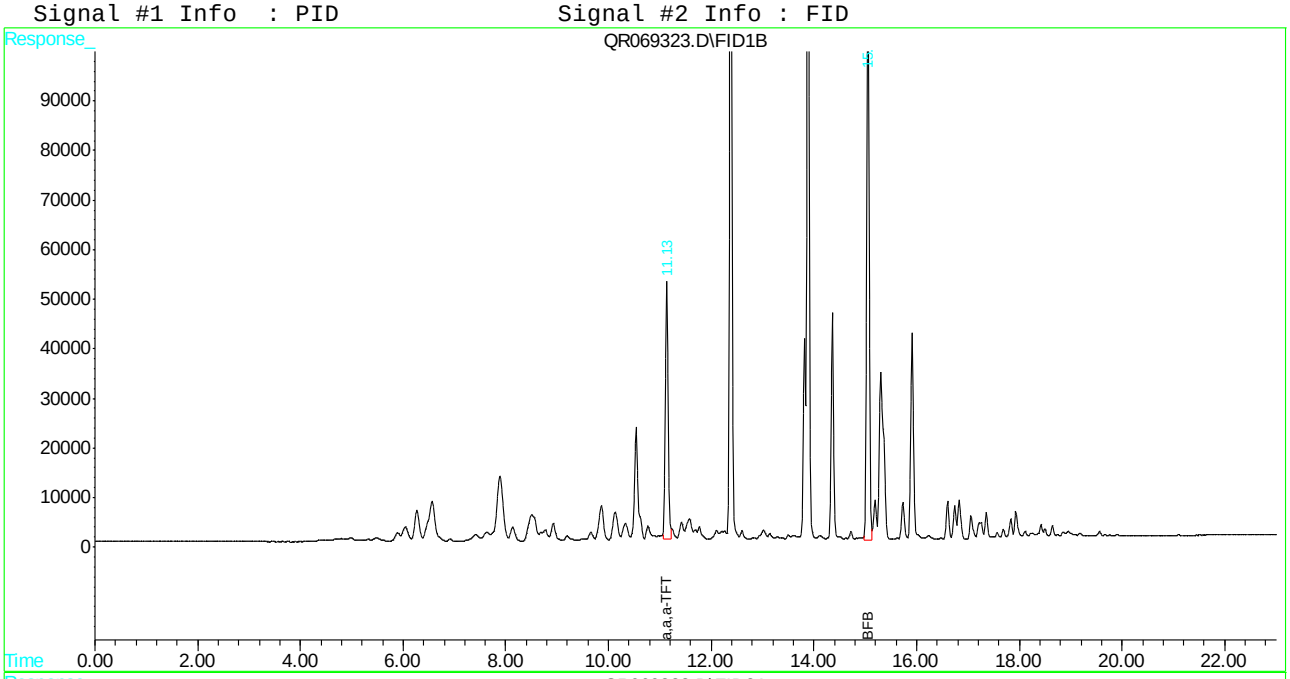
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069323.D GROML.M Fri Jul 06 13:34:13 2012

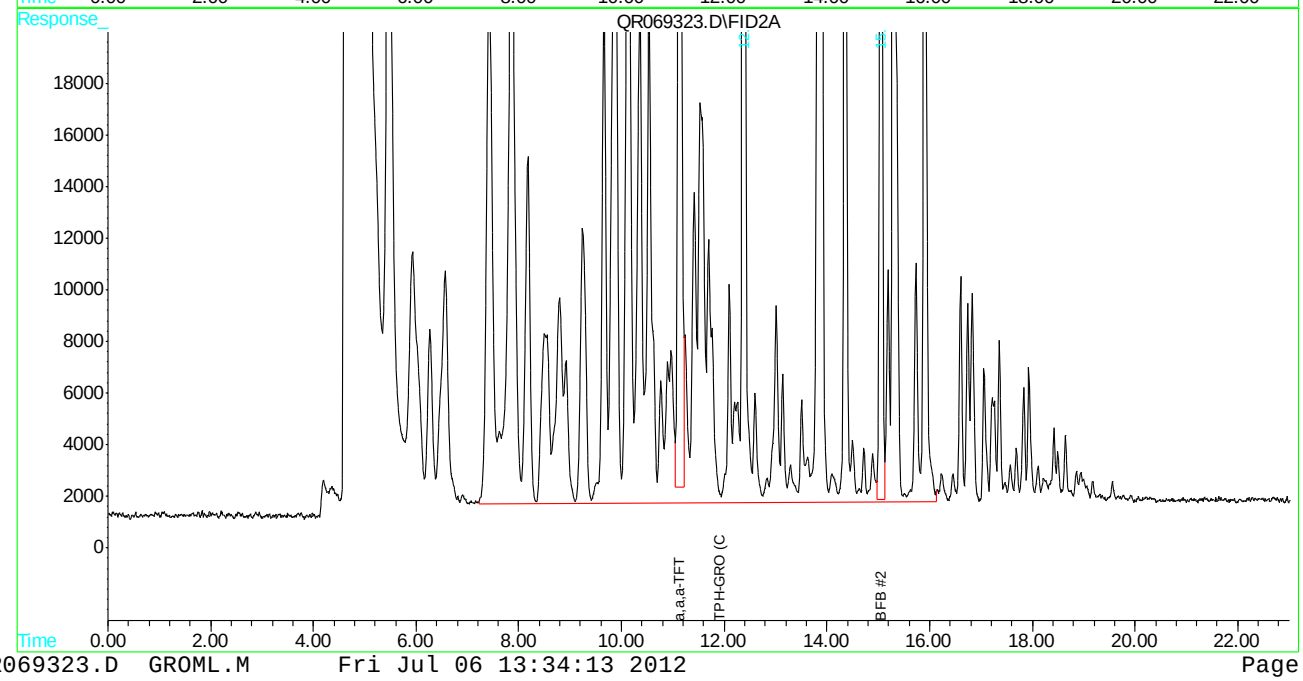
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID2A.CH
Acq On : 5 Jul 2012 6:22 pm Operator: MikeM
Sample : IC3009-5 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069323.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 18:22	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.13	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.13	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID1B.CH  Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID2A.CH
Acq On    :  5 Jul 2012   6:50 pm                    Operator: MikeM
Sample    : IC3009-6                                 Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:26 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.13          64515   96.887 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  193.77%#
 2) S   BFB                        15.05         183413  100.470 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  200.94%#
 4) S   a,a,a-TFT #2               11.13        3940526   91.787 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  183.57%#
 5)  S  BFB #2                     15.05        2733938  101.004 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  202.01%#

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       47916413  966.254 ug/Kg
```

11.6.6

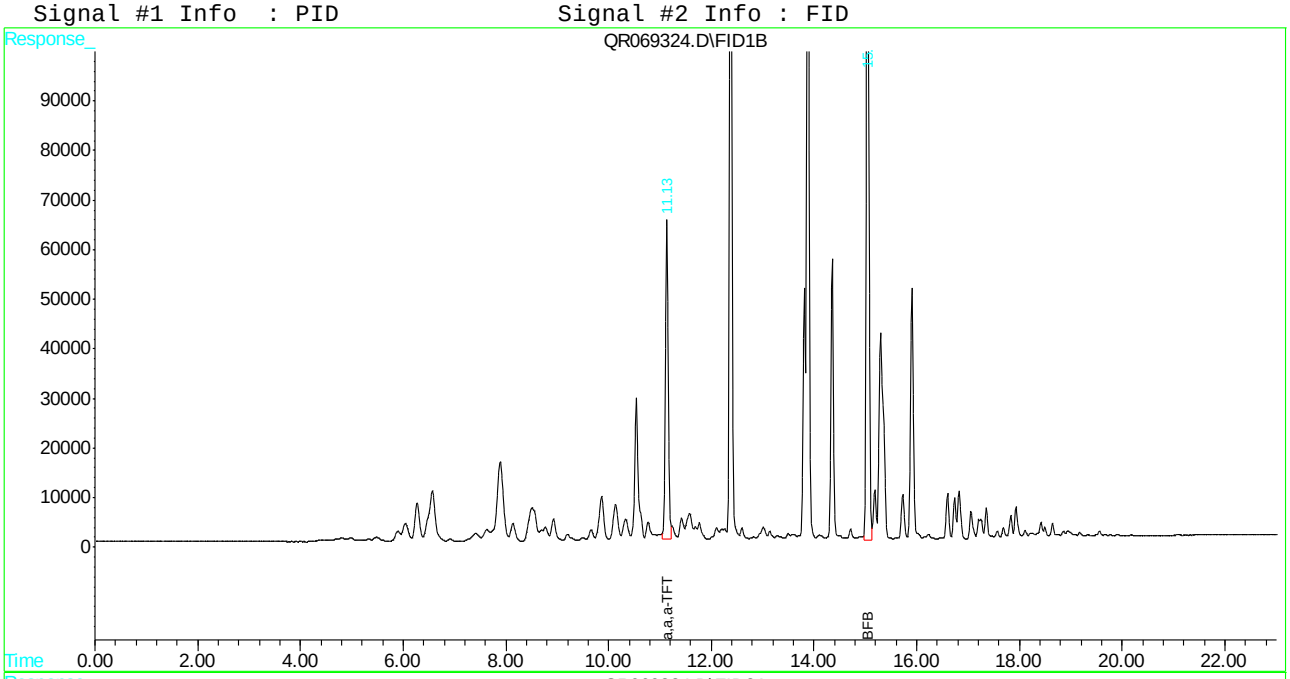
11

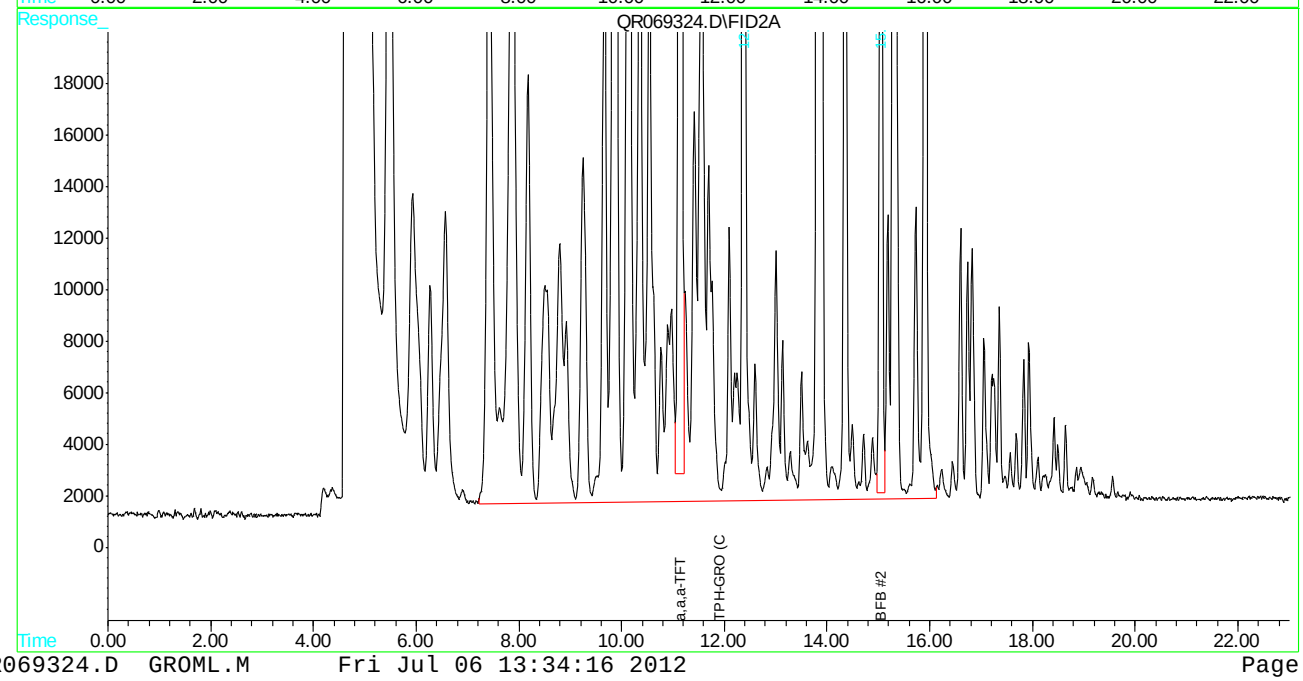
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID2A.CH
Acq On : 5 Jul 2012 6:50 pm Operator: MikeM
Sample : IC3009-6 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:26 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069324.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 18:50	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.13	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.13	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH  Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On    :  5 Jul 2012   7:18 pm                    Operator: MikeM
Sample    : ICV3009-3                                Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:28 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          32804   49.354 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   98.71%
 2) S   BFB                        15.05          88125   48.119 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   96.24%
 4) S   a,a,a-TFT #2               11.14        1955403   48.997 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   97.99%
 5)  S  BFB #2                     15.05        1297874   48.389 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   96.78%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       18552649  370.841 ug/Kg
```

11.6.7

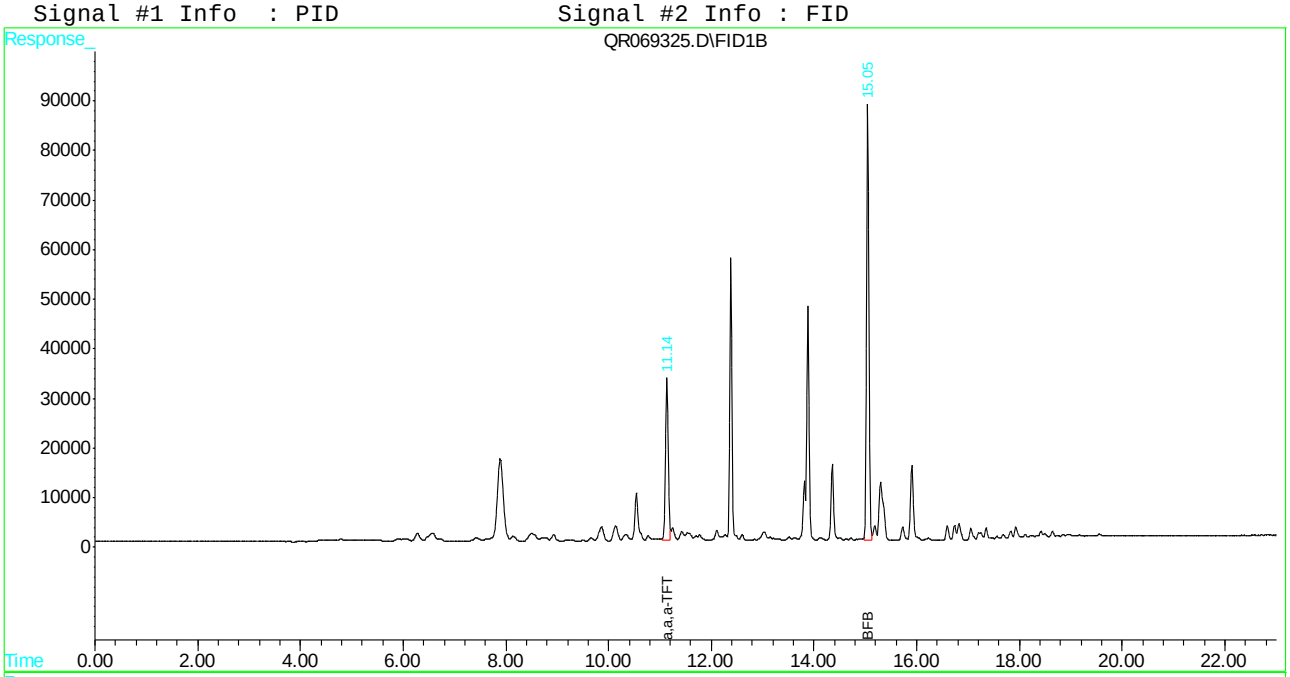
11

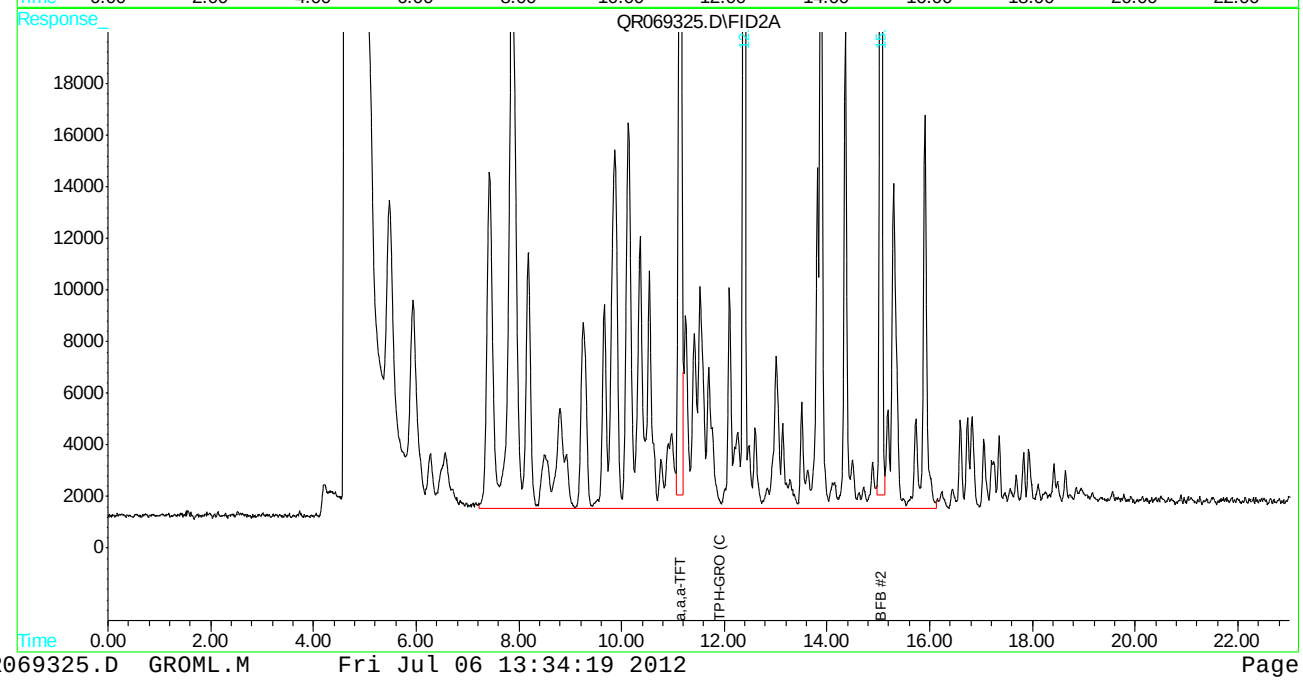
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On : 5 Jul 2012 7:18 pm Operator: MikeM
Sample : ICV3009-3 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:28 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-ICV3009	**Method:**	SW846 8015C
Lab FileID:	QR069325.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 19:18	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH  Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
Acq On    : 26 Jul 2012   9:07 am                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:28 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32811	49.365 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.73%	
2) S BFB	15.07	88996	48.595 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 97.19%	
4) S a,a,a-TFT #2	11.15	2084511	52.232 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 104.46%	
5) S BFB #2	15.07	1388655	51.774 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.55%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	20507207	409.910 ug/Kg

11.6.8

11

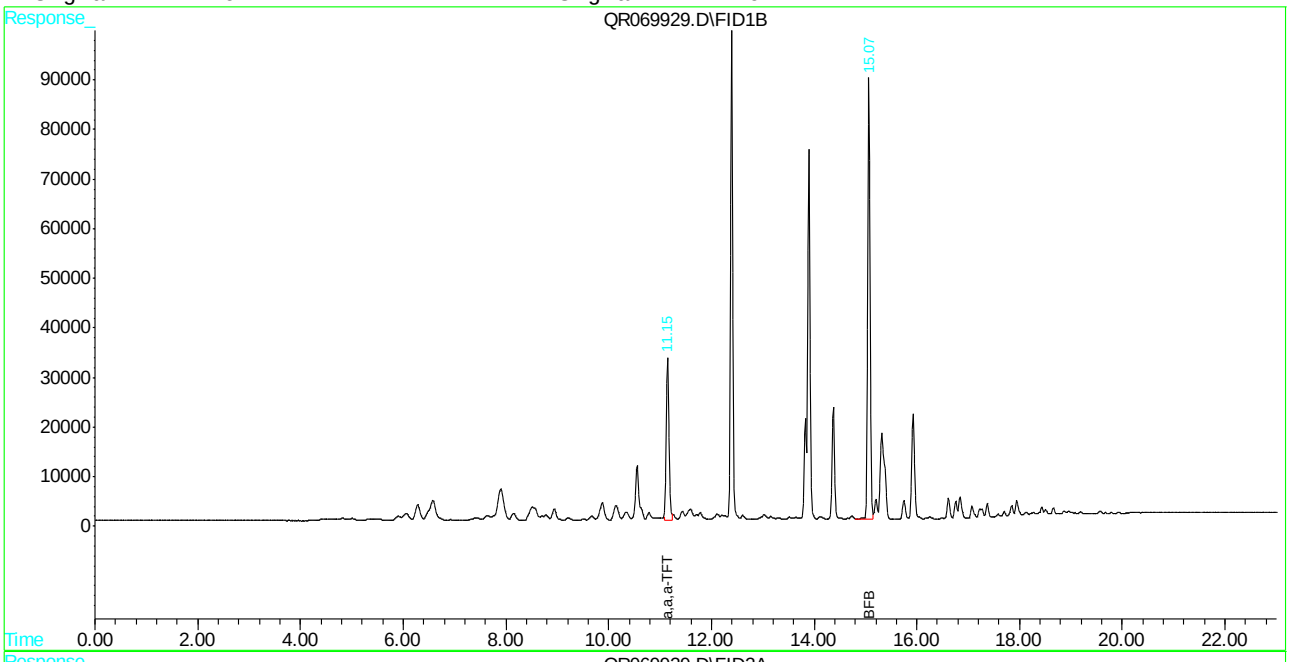
(f)=RT Delta > 1/2 Window (m)=manual int.

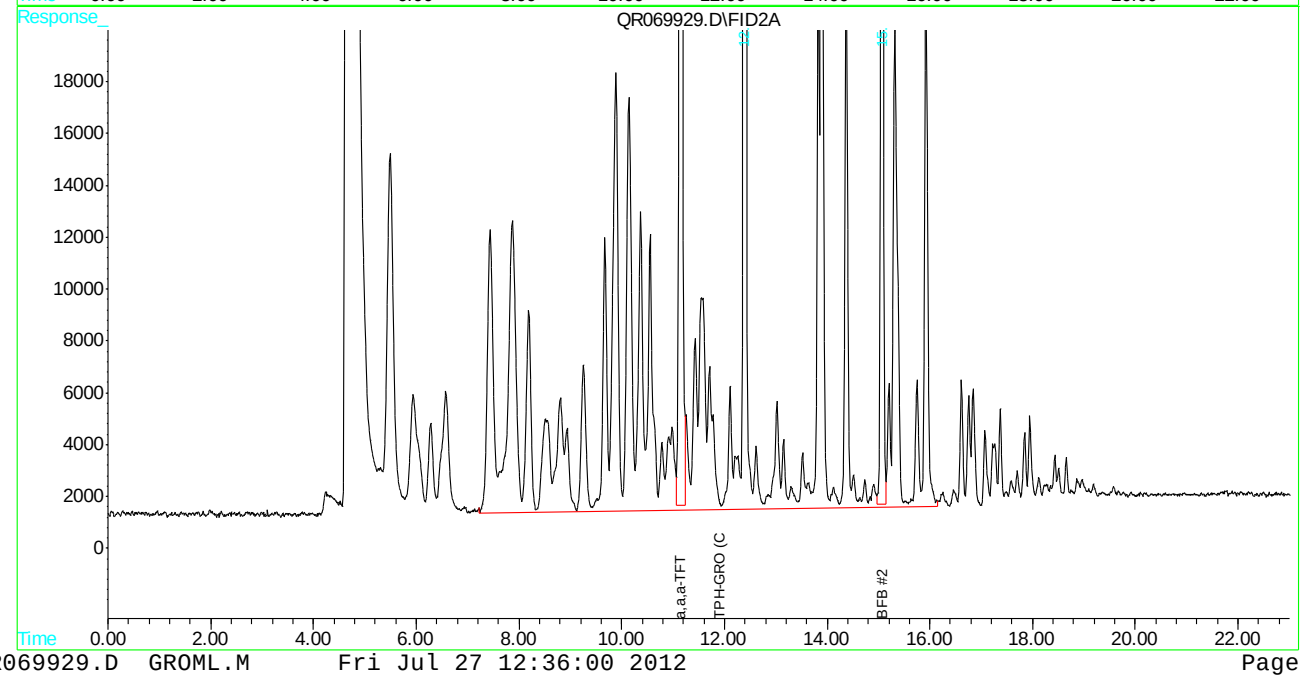
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
Acq On : 26 Jul 2012 9:07 am Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:28 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069929.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 09:07	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.15	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.15	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH  Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
Acq On    : 26 Jul 2012   2:29 pm                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:30 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	33077	49.765 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.53%	
2) S BFB	15.08	91434	49.926 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.85%	
4) S a,a,a-TFT #2	11.16	2086412	52.280 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 104.56%	
5) S BFB #2	15.08	1420910	52.977 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 105.95%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	21466461	429.084 ug/Kg

11.6.9

11

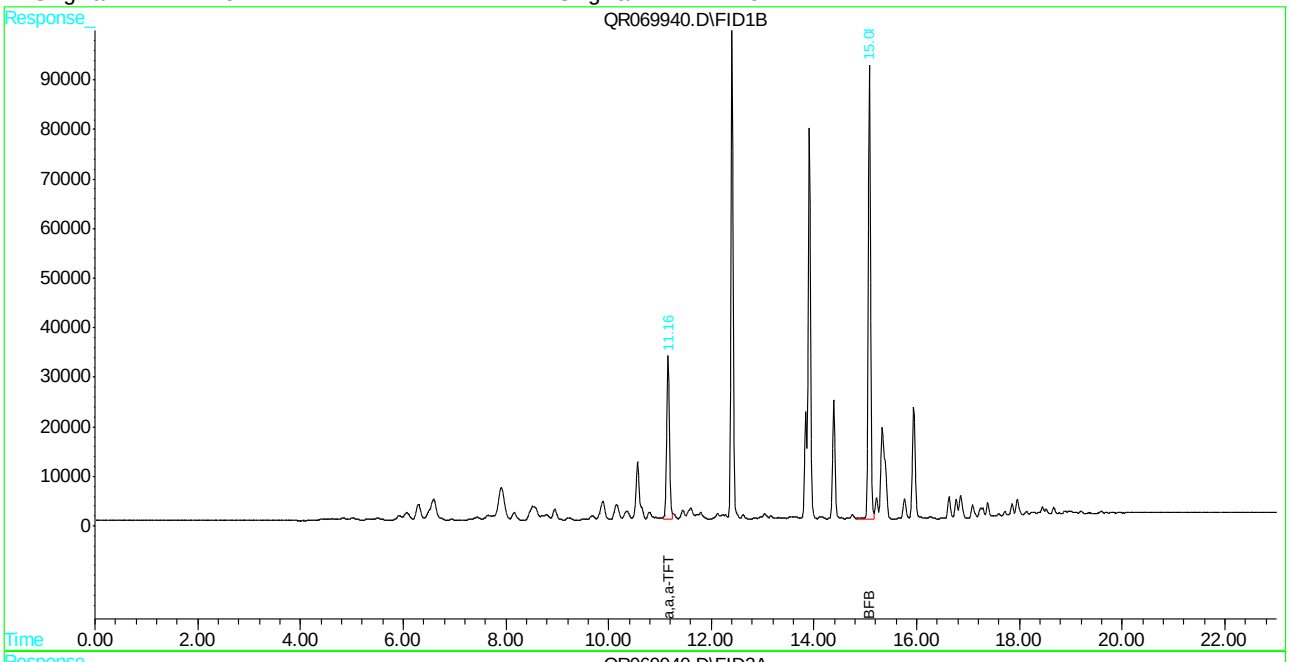
(f)=RT Delta > 1/2 Window (m)=manual int.

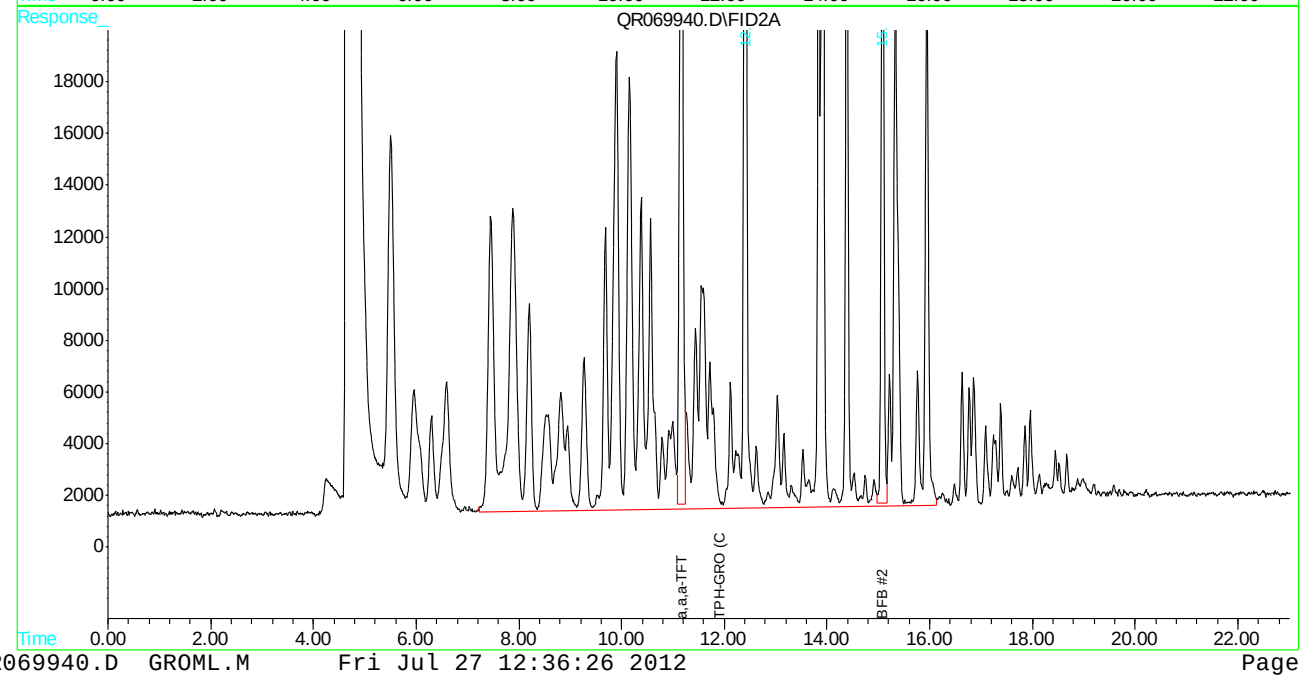
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
Acq On : 26 Jul 2012 2:29 pm Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:30 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069940.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 14:29	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.16	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.16	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH  Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
Acq On    : 26 Jul 2012   7:41 pm                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:32 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	32377	48.712 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 97.42%	
2) S BFB	15.08	90891	49.629 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.26%	
4) S a,a,a-TFT #2	11.16	2073999	51.969 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.94%	
5) S BFB #2	15.08	1421922	53.014 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 106.03%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	20441761	408.602 ug/Kg

11.6.10

11

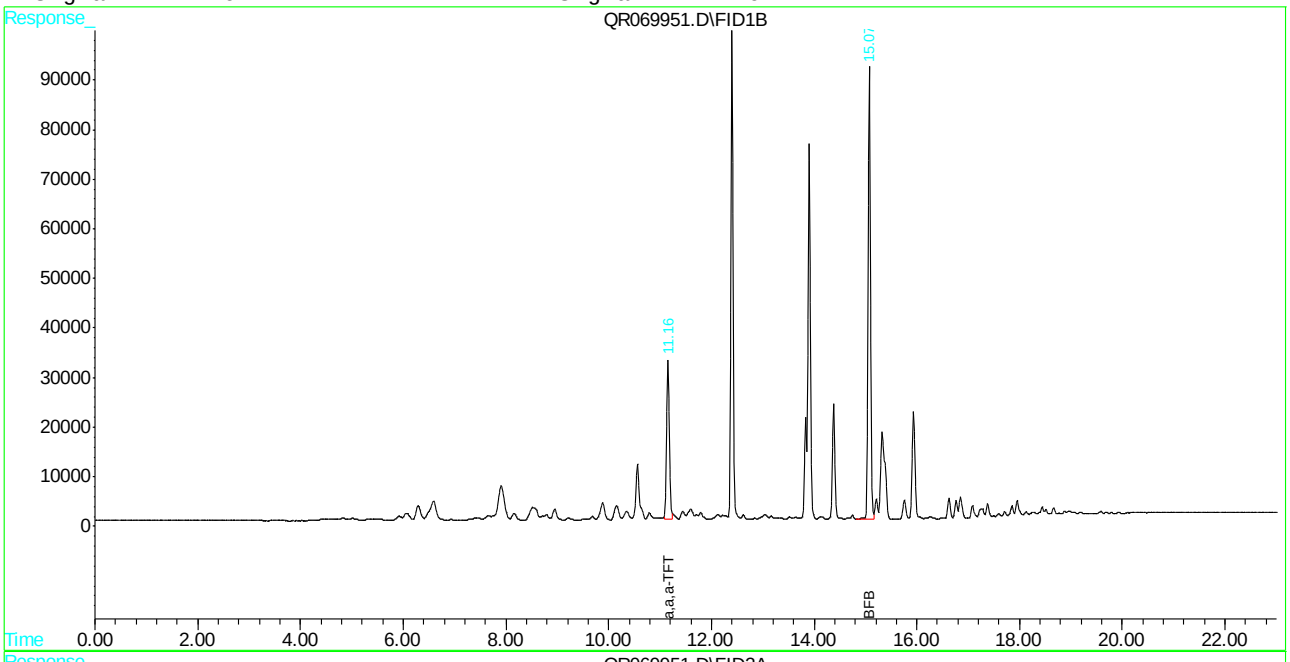
(f)=RT Delta > 1/2 Window (m)=manual int.

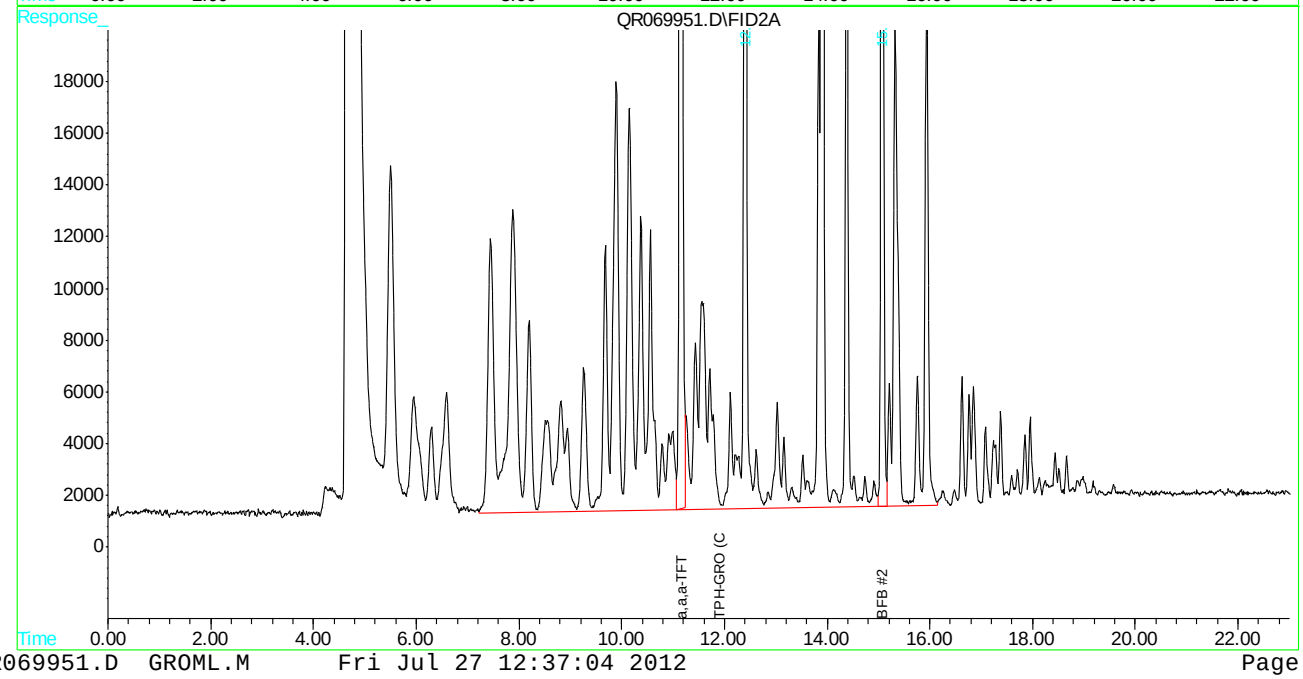
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
Acq On : 26 Jul 2012 7:41 pm Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:32 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069951.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 19:41	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.16	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.16	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH  Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
Acq On    : 26 Jul 2012  10:58 pm                    Operator: CARLENEP
Sample    : ECC3009-3                                Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32601	49.048 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.10%	
2) S BFB	15.07	91394	49.904 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.81%	
4) S a,a,a-TFT #2	11.15	2095231	52.501 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 105.00%	
5) S BFB #2	15.07	1446815	53.942 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.88%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	20356800	406.903 ug/Kg

11.6.11

11

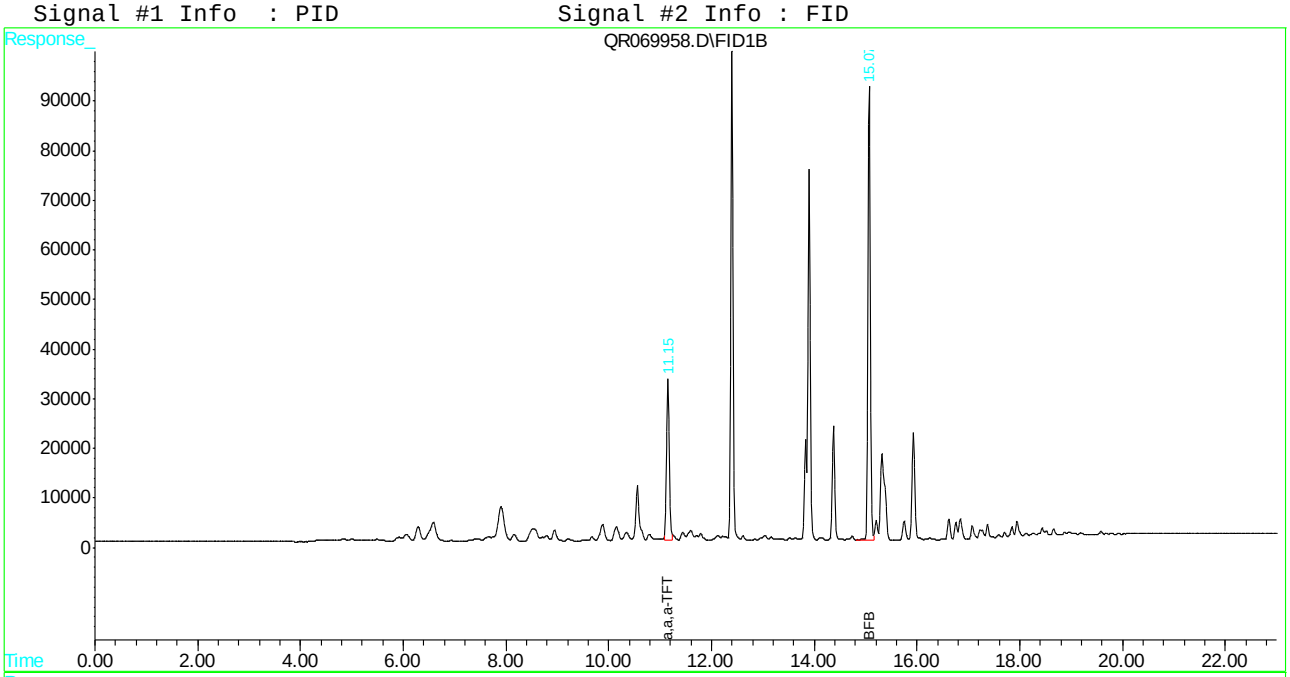
(f)=RT Delta > 1/2 Window (m)=manual int.

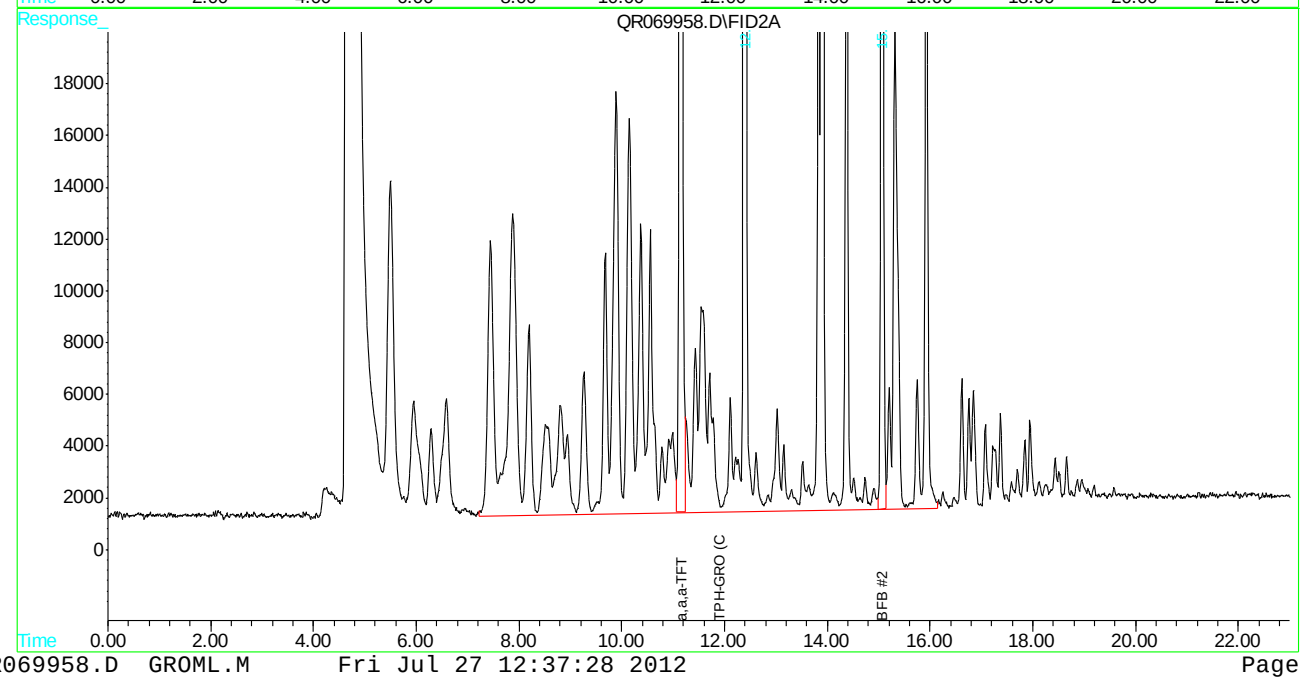
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
Acq On : 26 Jul 2012 10:58 pm Operator: CARLENEP
Sample : ECC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-ECC3009	**Method:**	SW846 8015C
Lab FileID:	QR069958.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:58	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.15	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.15	Poor instrument integration

ACCUTEST LABORATORIES SE

DATE:	07/05/12
COLUMN TYPE:	RTX502-2
DETECTOR:	PID/FID
PURGE PRESSURE:	K08E0110 psi
METHANOL LOT #:	K08E01
ANALYST:	MM

GC VOA3-QR ANALYSIS LOG

METHODS:	V8015
METHOD FILE:	GROMLM.
CALIB. DATE:	05/30/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR 3009

STANDARDS

Window Defining	V14373
ICAL/CCV	V14391 A
ISTD/SURR	V14392
ICV/QC	V14297
SIGNAL 1 SURR. AREA:	34249/1999067
SIGNAL 2 SURR. AREA:	89890/1306219

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069318	rt	N	S	5.00	100	1	—	N	N	N	20uL 10mL
QR 19	ic3009-1					2	1,2,4,5-pii				5uL 5mL
QR 20	2					3					10uL 2uL/10x
QR 21	3					4					20uL
QR 22	ic3009-4					5					30uL 4uL/10x
QR 23	ic3009-5					6					40uL 6uL/10x
QR 24	6					7					50uL 10uL/10x
QR 25	icv3009-3					8					20uL 10mL
QR 26	rt					9					20uL 10mL
QR 27	cc3009-3					10					20uL 10mL
QR 28	BS					11					20uL 10mL
QR 29	MB MM 07/12					12	—				
QR 30	F994410-1	Q8853		4.60	100	13	—			50%	
QR 31	2	Q8854		5.74	100	14	—			50%	
QR 32	3	Q8856		4.73	100	15	—			50%	
QR 33	4	Q8857		7.64	100	16	—			50%	
QR 34	5	Q8860		6.13	100	17	—			50%	
QR 35	6	Q8862		4.62	100	18	1,2,4,5-pi			50%	
QR 36	7	Q8864		5.61	100	19	1,2,4,5-pii			50%	
QR 37	8	Q8866 MM 7/12		5.79	100	20	1,2,4,5-pii			50%	
QR 38	CC3009-3	—		5.09	100	21	1,2,4,5-pii			—	20uL 10mL
QR 39	CCb	—		5.01	100	22	—			—	
QR 40	rt	—		5.20	100	23	—			—	20uL 10mL
QR 41	F994410-9	Q8868		5.96	100	24	—			50%	
QR 42	10	Q8870		5.77	100	25	—			50%	MM 7/12
QR 43	F994430-7	Q9054		5.57	10	26	—			500%	
QR 44	F994429-7	Q9056		5.74	10/10x	27	1,2,4,5-pii			10,00%	MM 7/12

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: MM

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES SE

DATE:	07/05/12
COLUMN TYPE:	
DETECTOR:	PID/FID
PURGE PRESSURE:	
METHANOL LOT #:	
ANALYST:	WM

GC VOA3-QR ANALYSIS LOG

METHODS:	
METHOD FILE:	
CALIB. DATE:	
INSTRUMENT:	GC/VOA3-QR
RUN ID:	GQR 3009

cont. p.32

STANDARDS

Window Defining	
ICAL/CCV	
ISTD/SURR	
ICV/QC	
SIGNAL 1 SURR. AREA:	
SIGNAL 2 SURR. AREA:	

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
QR069345	F94429-8	08981	S	5.07	100	28	1,2,3,5-pi	N	N	50p	
QR 46	9	08983		5.05	100	29	–			50p	
QR 47	10	08985		5.01	100	30	1,2,4,5-pi			50p	
QR 48	11	09061		5.06	100	31	–			50p	
QR 49	12	08990		6.48	100	32	–			50p	
QR 50	CC3009-1	–		5.00	100	33	–			–	20uL 10mL Pand
QR 51	CCB	–		5.00	100	34	–			–	
QR 52	LT	–		5.00	100	35	–			–	20uL 10mL ✓
QR 53	F94427-1	09062		6.13	20/1mx	36	1,2,4,5-pi			20/50p	
QR 54	F94374-DMP	09048		5.05	100	37	–			50p	
QR 55	5ml	09040				38	–				
QR 56	5ml	09048				39	–				
QR 57	10	08860		5.12	100	40	–			50p	
QR 58	ECC3009-1	–		5.00	100	41	–			–	20uL 10mL Pand
QR 59	ECB	–		5.00	100	42	–			–	
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											

WM 07/05/12

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

Analyst's Signature:_____

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES F95217

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8738	F94374-2	W	31.00	36.61	5.61	6-23-12	13:36	MJ	PT	IN
39	-2	M	29.25	35.13	5.88					
40	F94374-3	W	30.20	35.14	4.94					
41	-3	W	31.01	37.60	6.59					
42	-3	M	29.33	34.76	5.43					
43	F94374-4	W	30.84	36.66	5.82					
44	-4	W	30.95	36.42	5.47					
45	-4	M	29.29	35.08	5.79					
46	F94374-5	W	30.91	36.72	5.81					
47	-5	W	31.11	37.46	6.35					
48	-5	M	29.20	34.55	5.35					
49	F94374-6	W	30.59	36.12	5.53					
50	-6	W	30.70	35.10	4.40					
51	-6	M	29.59	33.79	4.20					
52	F94374-7	W	30.69	36.51	5.82					
53	-7	W	30.95	36.73	5.78					
54	-7	M	29.45	35.50	6.05					
55	F94374-8	W	30.81	36.48	5.67					
56	-8	W	30.80	36.61	5.81					
57	-8	M	29.40	34.96	5.56					
58	F94374-10	W	30.79	39.28	8.49					
59	-10	W	30.54	38.75	8.21					
Q8760	-10	M	29.60	37.72	8.12		13:52			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95217

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8853	F94410-1	M	29.34	33.94	4.60	6/26/12	9:06	MJ	PT	IN
54	F94410-2	M	29.60	35.34	5.74					
55	-2	M	29.39	35.31	5.92					
56	F94410-3	M	29.37	34.10	4.73					
57	-3	M	29.42	35.15	5.73					
58	F94410-4	M	29.40	37.04	7.64					
59	-4	M	29.25	33.08	3.83					
60	F94410-5	M	29.38	35.51	6.13					
61	-5	M	29.30	33.38	4.08					
62	F94410-6	M	29.37	33.99	4.62					
63	-6	M	29.49	35.24	5.75					
64	F94410-7	M	29.26	34.87	5.61					
65	-7	M	29.26	34.05	4.79		9:17			
66	F94410-8	M	29.38	35.17	5.79		9:35			
67	-8	M	29.40	35.91	6.51					
68	F94410-9	M	29.29	35.25	5.96					
69	-9	M	29.39	34.48	5.09					
70	F94410-10	M	29.38	35.15	5.77					
71	-10	M	29.52	36.26	6.74					
72	F94411-2	W	31.12	37.26	6.14					Presv. (NaHSO4)
73	-2	W	31.30	36.86	5.56					
74	-2	M	29.26	33.98	4.72					
Q8875	F94411-4	W	31.64	37.06	5.42		9:47			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8945	F94423-8	W	30.57	30.54	0.03	6-26-12	13:10	MJ	PT	TB
46	-8	M	29.46	29.41	0.05					
47	F94424-1	W AC 1922	—		5.10		13:15		5030A	IN, Bot 1
48	-1	W	—		5.00					
49	-1	M AC 1886	—		5.07					
50	F94424-2	W	—		5.02		13:20			
51	-2	W	—		5.11					
52	-2	M	—		5.32					
53	F94424-3	W	—		5.32		13:30			
54	-3	W	—		5.27					
55	-3	M	—		5.02					
56	F94425-1	W	—		5.03		13:35			OOH, 5 DAY RUS B O
57	-1	W	—		5.24					
58	-1	M AC 1913	—		5.22					
59	F94429-1	W	31.56	36.71	5.15		13:51		PT	Presv. (NaHSO4)
60	-1	W	31.64	36.96	5.32					
61	-1	M	29.40	35.53	6.13					
62	F94429-2	W	31.33	35.34	4.01					
63	-2	W	31.27	35.81	4.54					
64	-2	M	29.32	34.38	5.06					
65	F94429-3	M	29.36	35.26	5.90					
66	-3	M	29.46	35.83	6.37					
Q8967	F94429-4	W	31.41	36.56	5.15		14:00			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95217

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8968	F94429-4	W	31.51	36.98	5.47	6-26-12	14:10	MJ	PT	Presv. (NaHSO4)
69	-4	M	29.44	35.52	6.08		↓			
70	F94429-5	W		—	—		14:30			NO ~~Ale~~ H2O
71	-5	W		—	—					↓
72	-5	M	29.28	34.44	5.16		↓			Presv. (NaHSO4)
73	-5	M	29.38	34.59	5.21		14:37		↓	↓
74	F94429 -5	W AC MC		—	5.08				5030A	Re-prep But 6
75	-5	W		—	5.00				↓	↓
76	F94429-6	M	29.34	34.98	5.64				PT	Presv. (NaHSO4)
77	-6	M	29.30	34.83	5.53					
78	F94429-7	W	31.33	36.16	4.83					
79	-7	W	31.46	36.67	5.21					
80	-7	M	29.47	35.03	5.56					
81	F94429-8	M	29.58	35.45	5.87					
82	-8	M	29.28	35.15	5.87					
83	F94429-9	M	29.30	34.35	5.05					
84	-9	M	29.44	35.01	5.57					
85	F94429-10	M	29.60	35.51	5.91					
86	-10	M	29.23	34.77	5.54					
87	F94429-11	W	31.36	35.86	4.50					
88	-11	W	31.03	35.98	4.95					
89	-11	M	29.21	34.60	5.39					
Q8990	F94429-12	M	29.39	35.87	6.48		15:10			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q9037	F94430-2	M	29.38	35.02	5.64	6-26-12	16:30	MJ	PT	Presv. (NaHSO4)
38	F94430-3	W	31.27	36.67	5.40					
39	-3	W	31.54	37.20	5.66					
40	-3	M	29.60	34.60	5.00					
41	-3	M	29.40	34.18	4.78					
42	F94430-4	W	31.48	37.26	5.78					
43	-4	W	31.31	37.14	5.83					
44	-4	M	29.40	34.46	5.06					
45	-4	M	29.11	34.55	5.44					
46	F94430-5	W	31.29	36.48	5.19					
47	-5	W	31.44	36.71	5.27					
48	-5	M	29.43	34.60	5.17					
49	-5	M	29.32	34.46	5.14					
50	F94430-6	W	31.26	36.43	5.17					
51	-6	W	31.03	35.66	4.63					
52	-6	M	29.56	34.18	4.62					
53	-6	M	29.44	35.46	6.02					
54	F94430-7	M	29.59	35.10	5.51					
55	-7	M	29.58	35.28	5.70					
56	F94430-8	W	31.40	31.36	0.04					TB
57	-8	W	31.45	31.41	0.04					
58	-8	M	29.27	29.06	0.21					
Q9059	F94438-1	~~30.85~~ W MS 6-26-12	30.85	32.88	2.03		16:52			IN

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log GQR3009 page 7 of 9

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ACCUTEST LABORATORIES F95217

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ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q90060	F94438-1	W	30.92	32.82	1.90	6-26-12	16:55	MJ	PT	IN, Reprep, low wt
61	-1	M	29.44	—	—	↓	↓	↓	↓	Reprep, NO Meth.
62	F94429-1	M	29.38	35.69	6.31	6/27/12	10:00	AD	PT	OOH Prep (but Preserved in MeOH)
63	-2	M	29.46	34.55	5.09					
64	-4	M	29.32	34.83	5.51					
65	-7	M	29.43	35.22	5.79					
66	-11	M	29.46	35.22	5.76					
67	-14	M	29.45	34.92	5.47					
68	-18	M	29.26	35.60	6.34					
69	-26	M	29.37	35.40	6.03					
70	F94436-1	W	31.30	35.84	4.54					Preserved (NaHSO4)
71	-1	W	31.27	32.84	1.57					leaked ↓
72	-1	M	29.51	34.12	4.61					(MeOH)
73	F94436-2	W	31.16	35.38	4.22					(NaHSO4)
74	-2	W	31.01	35.19	4.18					↓
75	-2	M	29.49	34.97	5.48					(MeOH)
76	F94436-3	W	31.28	36.14	4.86					(NaHSO4)
77	-3	W	30.98	36.14	5.16					↓
78	-3	M	29.31	32.37	3.06					(MeOH)
79	-3	M	29.37	33.48	4.11					↓
80	F94436-4	W	31.25	37.08	5.83					(NaHSO4)
81	-4	W	31.01	36.78	5.77					↓
Q9082	-4	M	29.50	34.62	5.12		10:43			(MeOH)

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev.08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q9220	F94465-3	M	29.32	34.41	5.09	6/27/12	15:13	AD	PT	Preserved (MeOH)
21	F94465-4	W	31.43	36.31	4.88					(NaHSO4)
22	-4	W	31.34	36.18	4.84					
23	-4	M	29.33	34.58	5.25					(MeOH)
24	-4	M	29.52	34.13	4.61					
25	F94465-5	W	31.52	36.47	4.95					(NaHSO4)
26	-5	W	31.29	36.29	5.00					
27	-5	M	29.37	34.46	5.09					(MeOH)
28	-5	M	29.42	34.27	4.85					
29	F94465-6	M	29.31	34.20	4.89					
30	-6	M	29.31	34.70	5.39					
31	F94471-1	W	31.16	37.33	6.17					(NaHSO4)
32	-1	W	30.90	37.14	6.24					
33	-1	M	29.26	35.46	6.20		15:34			(MeOH)
34	F94316-6	W AC 1922	—		5.09		15:45		5030A	Bot 5 Reprep OOH
35	F94429-5	M AC 1913	—		5.16					Bot 6 OOH Reprep AD 6/27/11
36	F94490-5	W	30.66	37.45	6.79	6/28/12	9:50	MJ	PT	IN
37	-5	W	30.89	37.47	6.58					
38	-5	M	29.45	35.34	5.89					
39	F94490-8	W	30.74	36.63	5.89					
40	-8	W	31.04	36.63	5.59					
41	-8	M	29.41	34.76	5.35					
Q9242	F94490-11	W	30.60	36.49	5.89		9:56			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	07/26/12
COLUMN TYPE:	RTX 502.2
DETECTOR:	PID/FID
PURGE PRESSURE:	20PSI
METHANOL LOT #:	K08E01
ANALYST:	CP

GC VOA3-QR ANALYSIS LOG

METHODS:	8015/ TVGRO
METHOD FILE:	6ROML.M/TVGRO.5.QR.M
CALIB. DATE:	07/05/12/ 07/26/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR 3028/29

STANDARDS

Window Defining	V14477	—
ICAL/CCV	V14391B	V14477
ISTD/SURR	V14463	V14410
ICV/QC	V14411	V14483/V14482
SIGNAL 1 SURR. AREA:	32811/88996	
SIGNAL 2 SURR. AREA:	2084511/1388655	

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069927	BLK	—	S	5.00	100	1	n/a	n/a	n/a	n/a	ND
QR 28	RT	—				2					✓ 20µl → 5mL
QR 29	CC3009-3	—				3	1,4PII				PASSED 20µl → 5mL
QR 30	BS	—				4	n/a				✓ 20µl → 5mL
QR 31	MB	—				5					ND
QR 32	F95178-2, 200x	R1688		6.07	25	6	2PII				✓
QR 33	-6, 200x	R1700		5.65	25	7	n/a				✓
QR 34	F95220-1	R1760		7.65	100	8					ND
QR 35	-2	R1763		7.68		9					ND
QR 36	-3	R1766		7.62		10					ND
QR 37	-4	R1769		5.69		11					ND
QR 38	-5	R1772		6.66		12					ND
QR 39	-6	R1775		7.99		13					ND
QR 40	CC3009-3	—		5.00		14	1,4PII				PASSED 20µl → 5mL
QR 41	RT	—				15	n/a				✓ 20µl → 5mL
QR 42	F95274-1	R1901		6.71		16					ND
QR 43	-2	R1904		4.60		17					ND
QR 44	-3	R1907		5.54		18					ND
QR 45	-4	R1910		4.58		19					ND
QR 46	-5	R1913		6.62		20					ND
QR 47	-6	R1916		6.41		21					ND
QR 48	F95217-1	R1736		8.22		22					ND
QR 49	-2	R1740		6.66		23					ND
QR 50	-3	R1744		5.06		24					ND
QR 51	CC3009-3	—		5.00		25	1,4PII				PASSED 20µl → 5mL
QR 52	CCB	—				26	n/a				ND
QR CP 07/26/12 53	F95217-~~2~~4	R1748		6.11		27					ND

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: CParipanki

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES F95217

ACCUTEST LABORATORIES SE

DATE:	07/26/12
COLUMN TYPE:	RTX502.2
DETECTOR:	PID/FID
PURGE PRESSURE:	20PSI
METHANOL LOT #:	K08E01
ANALYST:	CP

GC VOA3-QR ANALYSIS LOG

METHODS:	8015/TN6RO
METHOD FILE:	6ROML.M/TN6RO.5.QR.M
CALIB. DATE:	07/05/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR3028/29

STANDARDS

Window Defining	√ 14477 —
ICAL/CCV	√ 14391B √
ISTD/SURR	√ 14463 √
ICV/QC	√ 14411 √
SIGNAL 1 SURR. AREA:	43581/127436
SIGNAL 2 SURR. AREA:	71538/61693

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069954	F95217-5	R1752	S	4.79	100	28	n/a	n/a	n/a	N	ND
QR 55	-6	R1756		6.43	↓	29	↓				
QR 56	F95178-2MS	200x R1688		6.07	25	30	2PII				✓
QR 57	-2MSD	200x ↓		↓	25	31	2.5PII				✓
QR 59 58	ECC3009-3/ECB	—/—		5.00/5.00	100/100	32/33	1.4PII				PASSED 20µl→5mL/ND
QR 60 59	IC3029-1	—		5.00	100	34	n/a				✓5 µl STD + — Surr →5mL
QR 61 60	-2	—				35					✓10 +2µl
QR 62 61	-3	—				36					✓20 + —
QR 63 62	ICC -4	—				37					✓30 +4µl
QR 64 63	IC 5	—				38					✓40 +6µl
QR 65 64	-6	—				39					✓50 +10µl
QR 66 65	~~ICV3029-3~~ BLK	—				40					ND
QR CP 07/27/12 67 66	BS ICV3029-3	—				41	↓				PASSED 20µl→5mL
QR 68 67	~~BSD~~ BS	—				42	1.4PII				✓
QR 69 68	~~MB~~ BSD	—				43	1.4PII				✓
QR 70 69	MB	—				44	n/a			✓	ND
QR 71 70	F896616-10A	—				45				RD ↑	2.5µl →5mL
QR 72 71	-11A	—				46				N ✓	10µl ↓
QR 73 72	ECC3029-3	—				47					PASSED 20µl→5mL
QR 74	ECB	—	↓	↓	↓	48	↓	↓	↓	↓	ND
QR											
QR											
QR											
QR											
QR											CP 07/27/12
QR											
QR											

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "_iq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

Analyst's Signature: C Pasipanki

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES F95217

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1677	F95177-1	W	30.90	36.37	5.47	7/24/12	10:39	AD	PT	In
78	-1	W	30.37	36.15	5.78					
79	-1	M	29.20	—	—					leaked
80	F95177-2	W	31.08	31.03	-0.05					TB
81	AD 7/24/12 -2	W	30.83	30.78	-0.05					
82	-2	M	29.43	29.35	-0.08					
83	F95178-1	W	30.83	36.95	6.12					OOH
84	-1	W	30.88	36.80	5.92					
85	-1	M	29.37	35.36	5.99					
86	F95178-2	W	30.97	37.84	6.87					
87	-2	W	30.87	37.16	6.29					
88	-2	M	29.27	35.34	6.07					
89	F95178-3	W	30.76	36.88	6.12					
90	-3	W	30.96	37.67	6.71					
91	-3	M	29.11	34.89	5.78					
92	F95178-4	W	30.91	37.65	6.74					
93	-4	W	31.00	36.22	5.22					
94	-4	M	29.49	35.82	6.33					
95	F95178-5	W	30.81	38.08	7.27					
96	-5	W	30.94	36.97	6.03					
97	-5	M	29.26	35.03	5.77					
98	F95178-6	W	31.11	38.09	6.98					
R1699	-6	W	30.69	37.28	6.59		11:04			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1700	F95178-6	M	29.34	34.99	5.65	7/24/12	11:04	AD	PT	OOH
01	F95178-7	W	30.12	31.12	1.00					TB
02	-7	W	30.85	30.85	0.00					
03	-7	M	29.14	28.93	-0.21					
04	F95179-1	W	31.10	37.76	6.66					
05	-1	W	30.92	37.74	6.82					
06	-1	M	29.49	35.83	6.34		11:15			
07	F95177-1	M AC 1913			5.12		13:18		5030A	In Reprep Bot 5
08	F95192-1	W	30.65	36.84	6.19		13:30		PT	In
09	-1	W	30.84	36.26	5.42					
10	-1	M	29.46	35.24	5.78					
11	F95192-2	W	30.77	36.93	6.16					
12	-2	W	30.90	37.23	6.33					
13	-2	M	29.38	35.28	5.90		13:38			
14	F95194-1	W AC 1922			5.04	7/24/12	15:15	AD	5030A	In Bot 4
15	-1	W			5.20					
16	-1	M AC 1913			5.04		15:19			
17	F95196-1	W	30.92	37.65	6.73	7/25/12	10:11		PT	In
18	-1	W	30.84	38.43	7.59					
19	-1	M	29.46	35.63	6.17					
20	F95197-1	M	29.17	34.29	5.12					Preserved (MeOH)
21	-1	M	29.20	33.80	4.60					
R1722	F95~~14~~ AD 7/25/12 4208-1	W	35.53	40.37	4.84		10:22			Preserved ($NaHSO_4$) [low soil amount; not accutest vials]

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments (low soil amount; not accutest vials)
R1723	F95208-1	W	35.25	40.14	4.89	7/25/12	10:22	AD	PT	Preserved (NaHSO4)
24	-1	M	36.94	38.34	1.40					(MeOH)
25	F95208-3	W	35.84	40.31	4.47					(NaHSO4)
26	-3	W	35.50	40.25	4.75					
27	-3	M	32.43	37.12	4.69					(MeOH)
28	F95208-4	W	34.99	39.80	4.81					(NaHSO4)
29	-4	W	36.22	40.86	4.64					
30	-4	M	32.50	36.89	4.39		10:38			(MeOH)
31	F95212-3	W	30.78	39.71	8.93		11:25			In
32	-3	W	30.55	39.35	8.80					
33	-3	M	29.52	39.55	10.03					
34	F95217-1	W	30.53	39.40	8.87					
35	-1	W	30.42	38.56	8.14					
36	-1	M	28.87	37.09	8.22					
37	-1	M	29.64	36.62	6.98					
38	F95217-2	W	30.40	38.46	8.06					
39	-2	W	30.04	36.95	6.91					
40	-2	M	29.12	35.78	6.66					
41	-2	M	29.33	35.86	6.53					
42	F95217-3	W	30.47	37.34	6.87					
43	-3	W	30.04	38.71	8.67					
44	-3	M	28.93	33.99	5.06					
R1745	-3	M	29.55	36.80	7.25		11:42			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial # 4 AD 7/25/12	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R17286	F95217-4	W	30.42	35.98	5.56	7/25/12	11:42	AD	PT	In
47	-4	W	30.41	36.25	5.84					
48	-4	M	29.02	35.13	6.11					
49	-4	M	29.35	34.31	4.96					
50	F95217-5	W	30.06	35.91	5.85					
51	-5	W	30.06	35.85	5.79					
52	-5	M	28.97	33.76	4.79					
53	-5	M	29.35	34.50	5.15					
54	F95217-6	W	30.61	38.04	7.43					
55	-6	W	30.29	37.34	7.05					
56	-6	M	28.94	35.37	6.43					
57	-6	M	29.39	36.41	7.02		11:55			
58	F95220-1	W	30.30	38.75	8.45		13:25			
59	-1	W	30.27	38.55	8.28					
60	-1	M	29.35	37.00	7.65					
61	F95220-2	W	30.53	36.89	6.36					
62	-2	W	30.37	39.00	8.63					
63	-2	M	29.60	37.28	7.68					
64	F95220-3	W	30.43	38.34	7.91					
65	-3	W	30.41	37.67	7.26					
66	-3	M	29.66	37.28	7.62					
67	F95220-4	W	30.53	38.77	8.24					
R17268	-4	W	30.80	38.29	7.49		13:40			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1769	F95220-4	M	29.32	35.01	5.69	7/25/12	13:40	AD	PT	In
70	F95220-5	W	30.33	38.06	7.73					
71	-5	W	30.41	38.95	8.54					
72	-5	M	29.09	35.75	6.66					
73	F95220-6	W	30.36	37.48	7.12					
74	-6	W	30.34	38.19	7.85					
75	-6	M	29.41	37.40	7.99					
76	F95220-7	W	30.36	31.03	0.67					
77	-7	W	30.30	30.98	0.68					
78	-7	M	29.40	29.65	0.25					
79	F95225-1	W	35.27	39.97	4.70					Frozen @ 7/25/12 11:00
80	-1	W	35.60	40.87	5.27					
81	-1	M	32.84	35.59	2.75					AD 7/25/12 ~~low methanol~~
82	F95225-2	W	35.11	39.80	4.69					~~(Frozen @ 11:00)~~ 7/25/12 AD 7/25/12
83	-2	W	35.09	39.70	4.61					
84	-2	M	33.21	36.94	3.73					
85	F95225-3	W	34.91	38.73	3.82					
86	-3	W	35.10	39.40	4.30					
87	-3	M	33.18	37.02	3.84					
88	F95225-4	W	34.97	38.75	3.78					
89	-4	W	35.38	39.16	3.78					
90	-4	M	33.00	35.55	2.55					
R1791	F95227-1	W	30.73	34.21	3.48		14:28			Frozen in @ 7/25/12 11:00

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Cut of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1884	F95273-11	W	30.109	38.92	8.23	7-26-12	11:37	MJ	PT	IN
85	-11	W	30.58	40.37	9.79					
86	-11	M	29.50	37.83	8.33					
87	F95273-12	W	30.62	38.95	8.33					
88	-12	W	30.65	38.46	7.81					
89	-12	M	29.66	37.40	7.74					
90	F95273-13	W	30.80	42.16	11.36					
91	-13	W	30.53	42.44	11.91					
92	-13	M	29.45	39.94	10.49					
93	F95273-14	W	30.85	39.09	8.24					
94	-14	W	30.65	40.45	9.80					
95	-14	M	29.38	37.32	7.94					
96	F95273-16	W	30.89	30.92	0.03					TB
97	-16	W	30.67	30.55	0.12					
98	-16	M	29.62	29.53	0.09					
99	F95274-1	W	30.20	36.59	6.39					
R1900	-1	W	30.36	37.54	7.18					
01	-1	M	29.00	35.71	6.71					
02	F95274-2	W	30.39	35.68	5.29					
03	-2	W	30.40	35.28	4.88					
04	-2	M	29.20	33.80	4.60					
05	F95274-3	W	30.25	36.79	6.54					
R1906	-3	W	30.50	36.84	6.34		12:00			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1907	F95274-3	M	29.17	34.71	5.54	7-26-12	12:00	MJ	PT	IN
08	F95274-4	W	30.38	36.59	6.21					
09	-4	W	30.20	37.51	7.31					
10	-4	M	29.00	33.58	4.58					
11	F95274-5	W	30.39	36.26	5.87					
12	-5	W	30.26	35.44	5.18					
13	-5	M	29.36	35.98	6.62					
14	F95274-6	W	30.35	35.48	5.13					
15	-6	W	30.32	36.62	6.30					
16	-6	M	29.10	35.51	6.41		12:07			
17	F95275-1	W	31.36	36.64	5.28		12:17			Presv. (NaHSO4)
18	-1	W	31.35	36.46	5.11					
19	-1	M	29.28	33.83	4.55					
20	F95275-2	W	31.75	36.85	5.10					
21	-2	W	31.50	36.90	5.40					
22	-2	M	29.44	34.48	5.04					
23	F95275-3	W	31.52	35.40	3.88					
24	-3	W	31.36	36.93	5.57					
25	-3	M	29.45	34.34	4.89					
26	F95275-4	W	31.38	36.84	5.46					
27	-4	W	31.53	36.08	4.55					
28	-4	M	29.31	34.00	4.69					
R1929	F95275-5	W	31.54	36.76	5.22		12:26			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42817-MB	YY30929.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	
	TPH (> C28-C40)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	49-108%

Method Blank Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42817-MB	YY30954.D	1	08/06/12	SJL	07/26/12	OP42817	GYY1144

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	
	TPH (> C28-C40)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	98%	49-108%

Blank Spike Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42817-BS	YY30928.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	31.0	93	60-107
	TPH (> C28-C40)	33.3	29.9	90	47-124

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	97%	49-108%

12.2.1

12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42817-MS	YY30933.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
OP42817-MSD	YY30934.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143
F95178-3	YY30932.D	1	08/03/12	SJL	07/26/12	OP42817	GYY1143

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

CAS No.	Compound	F95178-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	5.54	J	40.4	38.7	82	38.9	83	1	60-107/36
	TPH (> C28-C40)	6.09	J	40.4	41.0	86	44.3	95	8	47-124/33

CAS No.	Surrogate Recoveries	MS	MSD	F95178-3	Limits
84-15-1	o-Terphenyl	92%	96%	88%	49-108%

12.3.1

12

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F95217-1	YY30938.D	87.0
F95217-2	YY30939.D	90.0
F95217-3	YY30942.D	90.0
F95217-4	YY30943.D	95.0
F95217-5	YY30944.D	95.0
F95217-6	YY30945.D	91.0
OP42817-BS	YY30928.D	97.0
OP42817-MB	YY30929.D	96.0
OP42817-MB	YY30954.D	98.0
OP42817-MS	YY30933.D	92.0
OP42817-MSD	YY30934.D	96.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	49-108%

(a) Recovery from GC signal #1

12.4.1

12

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1143-ICC1143	**Injection Date:**	08/03/12
Lab File ID:	YY30923.D	**Injection Time:**	13:40
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
OP42817-BS	YY30928.D	08/03/12	16:01	6.84
OP42817-MB	YY30929.D	08/03/12	16:29	6.84
ZZZZZZ	YY30930.D	08/03/12	17:37	6.84
F95178-3	YY30932.D	08/03/12	18:33	6.84
OP42817-MS	YY30933.D	08/03/12	19:01	6.84
OP42817-MSD	YY30934.D	08/03/12	19:29	6.84
ZZZZZZ	YY30935.D	08/03/12	19:57	6.84
ZZZZZZ	YY30936.D	08/03/12	20:25	6.84
ZZZZZZ	YY30937.D	08/03/12	20:53	6.84
F95217-1	YY30938.D	08/03/12	21:21	6.84
F95217-2	YY30939.D	08/03/12	21:49	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1143-CC1143	**Injection Date:**	08/03/12
Lab File ID:	YY30940.D	**Injection Time:**	22:17
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
F95217-3	YY30942.D	08/03/12	23:13	6.84
F95217-4	YY30943.D	08/03/12	23:41	6.84
F95217-5	YY30944.D	08/04/12	00:09	6.84
F95217-6	YY30945.D	08/04/12	00:37	6.84
ZZZZZZ	YY30946.D	08/04/12	01:05	6.84
GYY1143-ECC1143	YY30947.D	08/04/12	01:33	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

12.5.2

12

GC Surrogate Retention Time Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1144-CC1123	**Injection Date:**	08/06/12
Lab File ID:	YY30952.D	**Injection Time:**	10:02
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
OP42817-MB	YY30954.D	08/06/12	10:58	6.84
ZZZZZZ	YY30955.D	08/06/12	11:26	6.84
GYY1144-ECC1123	YY30956.D	08/06/12	11:54	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

12.5.3

12

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1123-ICC1123
Lab FileID: YY30345.D

Response Factor Report FID 5

Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:50:40 2012
Response via : Initial Calibration

Calibration Files
100 =YY30342.D 250 =YY30343.D 500 =YY30344.D 1000=YY30345.D
1500 =YY30346.D 2000 =YY30347.D

	Compound	100	250	500	1000	1500	2000	Avg	%RSD
1) S	O-TERPHENYL	1.004	1.042	1.077	1.105	1.126	1.129	1.081 E5	4.60
2) H	TPH (C10-C28)	1.425	1.380	1.372	1.371	1.367	1.401	1.386 E5	1.65
3) H	TPH (C10-C22)	1.148	1.118	1.113	1.116	1.119	1.140	1.126 E5	1.29
4) H	TPH (>C28-C40)	7.088	6.142	6.301	6.340	6.395	6.509	6.462 E4	5.10
5) H	TPH (>C22-C36)	8.713	7.839	7.886	7.883	7.953	8.020	8.049 E4	4.12
6) H	TPH (C8-C36)	1.041	0.974	0.972	0.974	0.979	0.994	0.989 E5	2.71
7) H	TPH (C10-C40)	1.064	0.993	0.998	1.000	1.008	1.022	1.014 E5	2.61

(#) = Out of Range

FDRO_OIL.M Thu Jul 05 11:09:05 2012

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1123-ICV1123
Lab FileID: YY30348.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30348.D        Vial: 9
Acq On    : 7-3-12 07:53:50 PM                        Operator: nareshj
Sample    : icv1123-1000                              Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:50:40 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL		----------NA----------				
2	H	TPH (C10-C28)	1000.000	1091.753	-9.2	110	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	1086.736	-8.7	110	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1066.132	-6.6	109	0.00	9.34-17.61
5	H	TPH (>C22-C36)	1000.000	1102.530	-10.3	113	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2202.789	-10.1	112	0.00	2.43-12.94
7	H	TPH (C10-C40)	2000.000	2183.294	-9.2	111	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30345.D FDRO_OIL.M Thu Jul 05 11:08:47 2012

12.6.2

12

Initial Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1143-ICC1143
Lab FileID: YY30923.D

Response Factor Report FID 5

Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration

Calibration Files
100 =YY30920.D 250 =YY30921.D 500 =YY30922.D 1000=YY30923.D
1500 =YY30924.D 2000 =YY30925.D

	Compound	100	250	500	1000	1500	2000	Avg		%RSD
1) S	O-TERPHENYL	1.121	1.152	1.174	1.214	1.200	1.256	1.186	E5	4.03
2) H	TPH (C10-C28)	1.403	1.372	1.383	1.410	1.395	1.462	1.404	E5	2.23
3) H	TPH (C10-C22)	1.139	1.107	1.109	1.133	1.119	1.179	1.131	E5	2.37
4) H	TPH (>C28-C40)	6.083	6.546	7.285	7.815	7.809	8.206	7.291	E4	11.30
5) H	TPH (>C22-C36)	7.771	8.195	8.542	9.018	9.122	9.624	8.712	E4	7.74
6) H	TPH (C8-C36)	0.994	0.991	1.011	1.043	1.039	1.090	1.028	E5	3.64
7) H	TPH (C10-C40)	1.013	1.034	1.073	1.116	1.117	1.167	1.087	E5	5.30

(#) = Out of Range

FDRO_OIL.M Mon Aug 06 15:59:42 2012

Initial Calibration Verification

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1143-ICV1143
Lab FileID: YY30926.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D       Vial: 9
Acq On    : 8-3-12 03:05:00 PM                        Operator: STEVE
Sample    : ICV1143-1000                              Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL		----------NA----------				
2 H	TPH (C10-C28)	1000.000	1058.068	-5.8	105	0.00	3.63- 9.37
3 H	TPH (C10-C22)	1000.000	1036.706	-3.7	103	0.00	3.71- 7.83
4 H	TPH (>C28-C40)	1000.000	1038.271	-3.8	97	0.00	9.47-16.64
5 H	TPH (>C22-C36)	1000.000	1063.187	-6.3	103	0.00	7.92-12.87
6 H	TPH (C8-C36)	2000.000	2132.281	-6.6	105	0.00	2.43-12.94
7 H	TPH (C10-C40)	2000.000	2103.876	-5.2	102	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Mon Aug 06 15:57:23 2012

12.6.4

12

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1143-CC1143
Lab FileID: YY30940.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30940.D       Vial: 6
Acq On    : 03 Aug 2012  10:17 pm                    Operator: STEVE
Sample    : cc1143-1000                              Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	50.000	53.082	-6.2	104	0.00	6.82- 6.90
2	H	TPH (C10-C28)	1000.000	1040.072	-4.0	104	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	1035.191	-3.5	103	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1081.711	-8.2	101	0.00	9.47-16.64
5	H	TPH (>C22-C36)	1000.000	1058.081	-5.8	102	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2108.998	-5.4	104	0.00	2.43-12.94
7	H	TPH (C10-C40)	2000.000	2117.578	-5.9	103	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Mon Aug 06 15:57:24 2012

12.6.5
12

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1143-ECC1143
Lab FileID: YY30947.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30947.D       Vial: 5
Acq On    : 8-4-12 01:33:11 AM                        Operator: STEVE
Sample    : ecc1143-500                               Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	25.000	26.451	-5.8	107	0.00	6.82- 6.90
2	H	TPH (C10-C28)	500.000	522.847	-4.6	106	0.00	3.63- 9.37
3	H	TPH (C10-C22)	500.000	519.097	-3.8	106	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	500.000	514.375	-2.9	103	0.00	9.47-16.64
5	H	TPH (>C22-C36)	500.000	514.741	-2.9	105	0.00	7.92-12.87
6	H	TPH (C8-C36)	1000.000	1038.631	-3.9	106	0.00	2.43-12.94
7	H	TPH (C10-C40)	1000.000	1041.016	-4.1	105	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30922.D FDRO_OIL.M Mon Aug 06 15:56:36 2012

12.6.6

12

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1144-CC1123
Lab FileID: YY30952.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30952.D       Vial: 3
Acq On    : 06 Aug 2012  10:02 am                    Operator: STEVE
Sample    : cc1123-1000                              Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	50.000	51.221	-2.4	100	0.00	6.82- 6.90
2	H	TPH (C10-C28)	1000.000	986.313	1.4	98	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	998.620	0.1	100	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1036.841	-3.7	97	0.00	9.47-16.64
5	H	TPH (>C22-C36)	1000.000	1035.027	-3.5	100	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2027.158	-1.4	100	0.00	2.43-12.94
7	H	TPH (C10-C40)	2000.000	2048.836	-2.4	100	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Tue Aug 07 08:34:09 2012

12.6.7
12

Continuing Calibration Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1144-ECC1123
Lab FileID: YY30956.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30956.D       Vial: 7
Acq On    : 06 Aug 2012  11:54 am                    Operator: STEVE
Sample    : ecc1123-500                              Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	25.000	25.181	-0.7	102	0.00	6.82- 6.90
2	H	TPH (C10-C28)	500.000	486.529	2.7	99	0.00	3.63- 9.37
3	H	TPH (C10-C22)	500.000	489.325	2.1	100	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	500.000	493.148	1.4	99	0.00	9.47-16.64
5	H	TPH (>C22-C36)	500.000	510.235	-2.0	104	0.00	7.92-12.87
6	H	TPH (C8-C36)	1000.000	989.143	1.1	101	0.00	2.43-12.94
7	H	TPH (C10-C40)	1000.000	992.638	0.7	100	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30922.D FDRO_OIL.M Tue Aug 07 08:57:57 2012

12.6.8

12

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30938.D        Vial: 20
Acq On    : 8-3-12 09:21:32 PM                         Operator: STEVE
Sample    : f95217-1                                   Inst    : FID 5
Misc      : op42817,gyY1143,29.7,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:30 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5146350	43.391 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 86.78%			
Target Compounds			
2) H TPH (C10-C28)	6.51	2805755	19.982 PPM
3) H TPH (C10-C22)	5.00	1622695	14.347 PPM
4) H TPH (>C28-C40)	10.00	1203159	16.503 PPM
5) H TPH (>C22-C36)	9.00	1963118	22.533 PPM
6) H TPH (C8-C36)	8.00	8079402	78.608 PPM
7) H TPH (C10-C40)	7.39	6561266	60.378 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

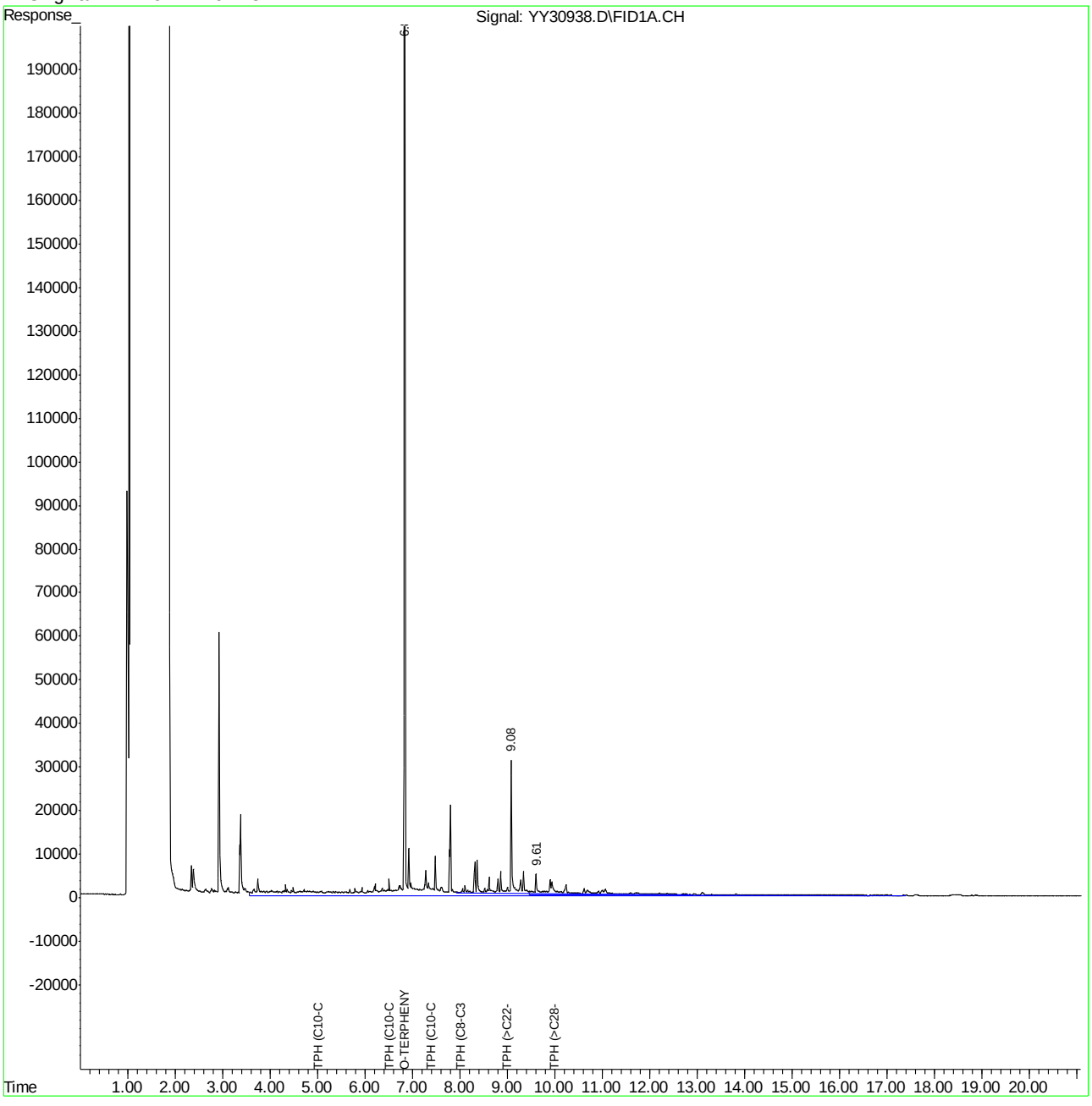
YY30938.D FDRO_OIL.M Mon Aug 06 15:10:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30938.D Vial: 20
Acq On : 8-3-12 09:21:32 PM Operator: STEVE
Sample : f95217-1 Inst : FID 5
Misc : op42817,gyY1143,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:44 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30939.D        Vial: 21
Acq On    : 8-3-12 09:49:40 PM                         Operator: STEVE
Sample    : f95217-2                                   Inst    : FID 5
Misc      : op42817,gyY1143,29.9,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:34 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5316247	44.823 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 89.65%			
Target Compounds			
2) H TPH (C10-C28)	6.51	9534768	67.903 PPM
3) H TPH (C10-C22)	5.00	3674738	32.489 PPM
4) H TPH (>C28-C40)	10.00	1617688	22.189 PPM
5) H TPH (>C22-C36)	9.00	5467225	62.755 PPM
6) H TPH (C8-C36)	8.00	13003989	126.521 PPM
7) H TPH (C10-C40)	7.39	11509825	105.915 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

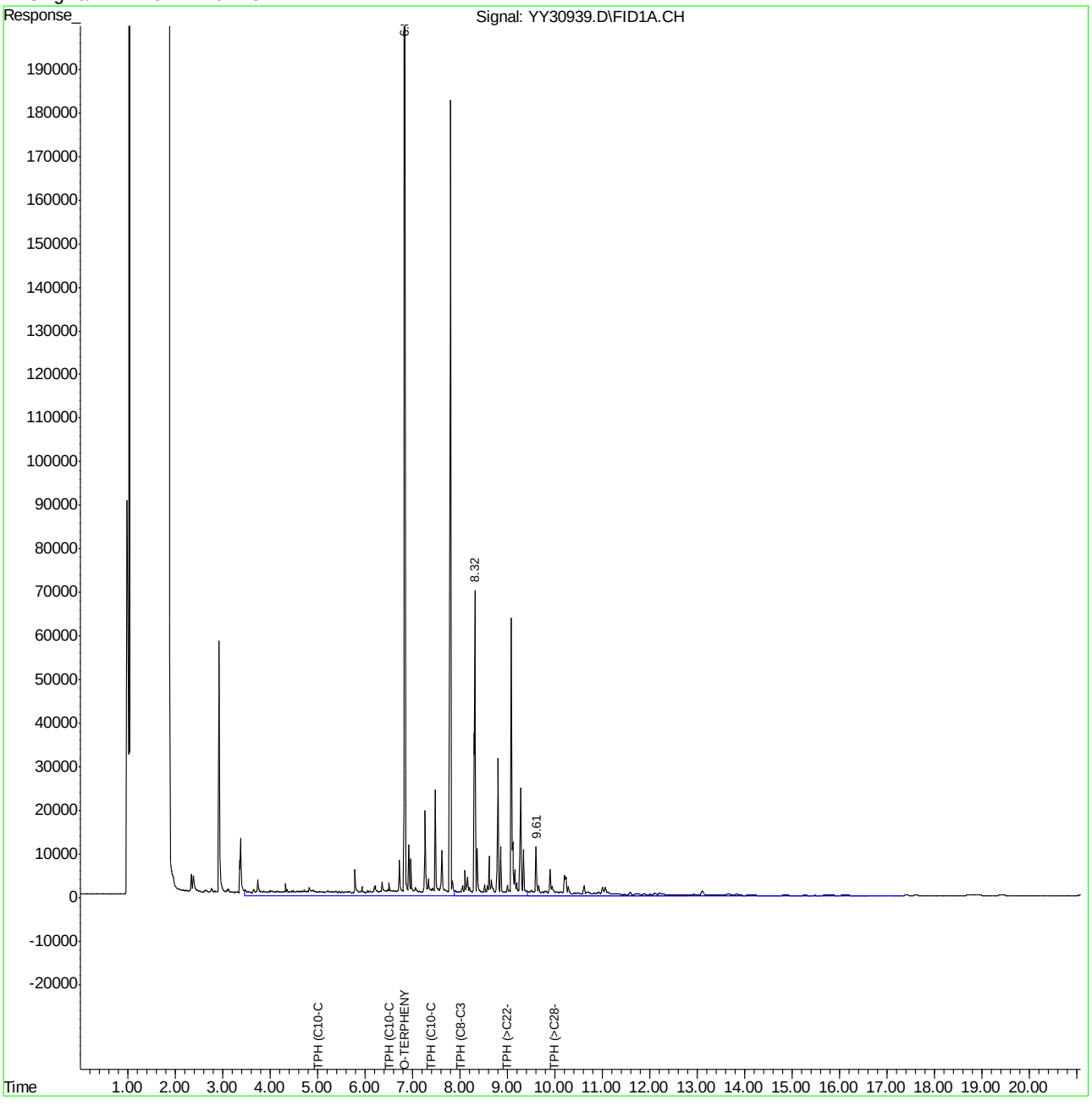
YY30939.D FDRO_OIL.M Mon Aug 06 15:10:26 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30939.D Vial: 21
Acq On : 8-3-12 09:49:40 PM Operator: STEVE
Sample : f95217-2 Inst : FID 5
Misc : op42817,gyY1143,29.9,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:46 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30942.D        Vial: 22
Acq On    : 03 Aug 2012  11:13 pm                     Operator: STEVE
Sample    : f95217-3                                  Inst    : FID 5
Misc      : op42817,gyY1143,29.9,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:46 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5324094	44.889 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 89.78%			
Target Compounds			
2) H TPH (C10-C28)	6.51	7972589	56.778 PPM
3) H TPH (C10-C22)	5.00	3504013	30.980 PPM
4) H TPH (>C28-C40)	10.00	1356705	18.609 PPM
5) H TPH (>C22-C36)	9.00	4216737	48.401 PPM
6) H TPH (C8-C36)	8.00	10996291	106.988 PPM
7) H TPH (C10-C40)	7.39	9507358	87.488 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

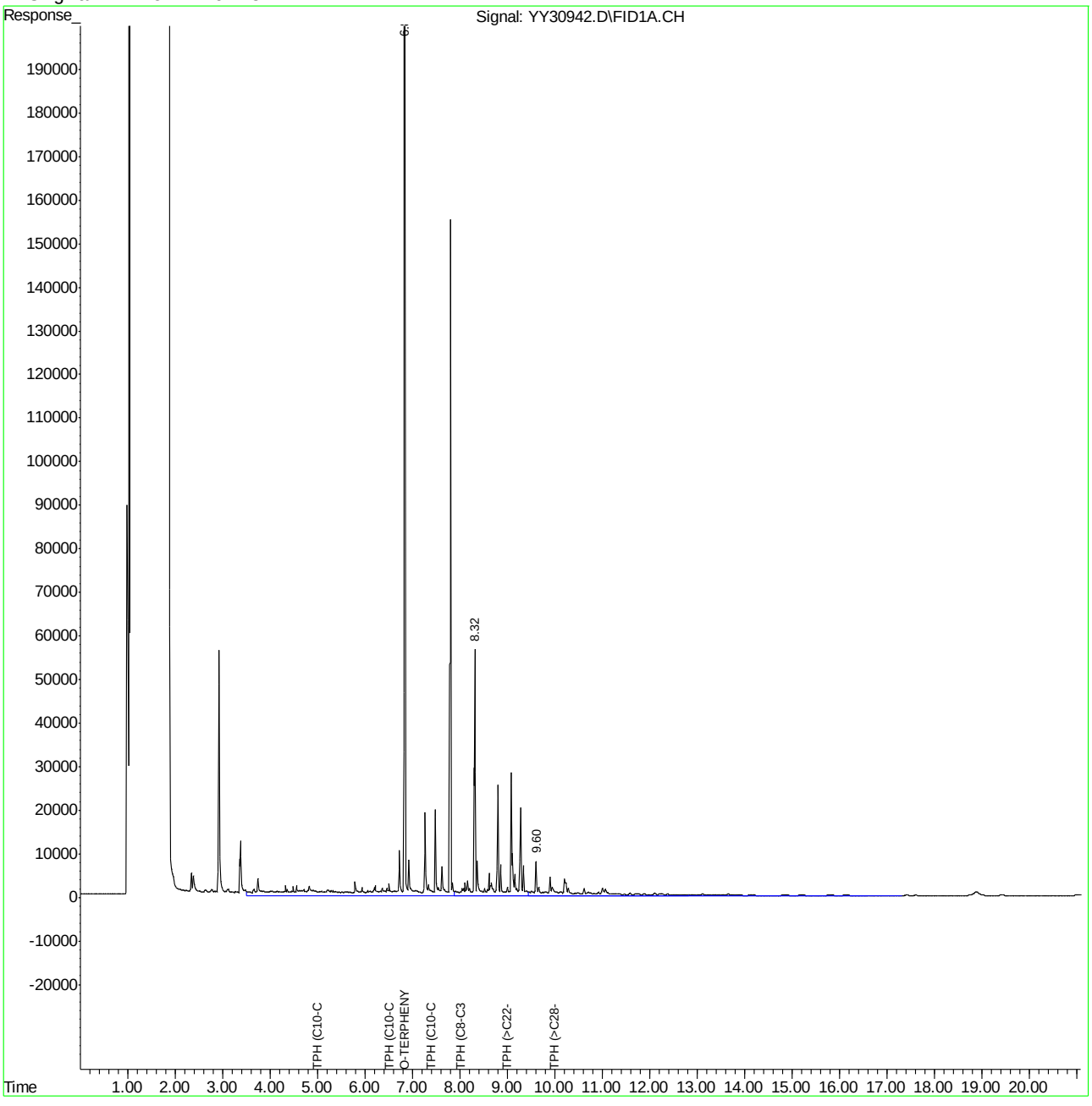
YY30942.D FDRO_OIL.M Mon Aug 06 15:10:35 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30942.D Vial: 22
Acq On : 03 Aug 2012 11:13 pm Operator: STEVE
Sample : f95217-3 Inst : FID 5
Misc : op42817,gyY1143,29.9,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:53 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30943.D        Vial: 23
Acq On    : 03 Aug 2012  11:41 pm                     Operator: STEVE
Sample    : f95217-4                                  Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:50 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5643327	47.581 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 95.16%			
Target Compounds			
2) H TPH (C10-C28)	6.51	11609383	82.678 PPM
3) H TPH (C10-C22)	5.00	5771685	51.029 PPM
4) H TPH (>C28-C40)	10.00	5280761	72.433 PPM
5) H TPH (>C22-C36)	9.00	10397085	119.341 PPM
6) H TPH (C8-C36)	8.00	17855602	173.725 PPM
7) H TPH (C10-C40)	7.39	17231164	158.564 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

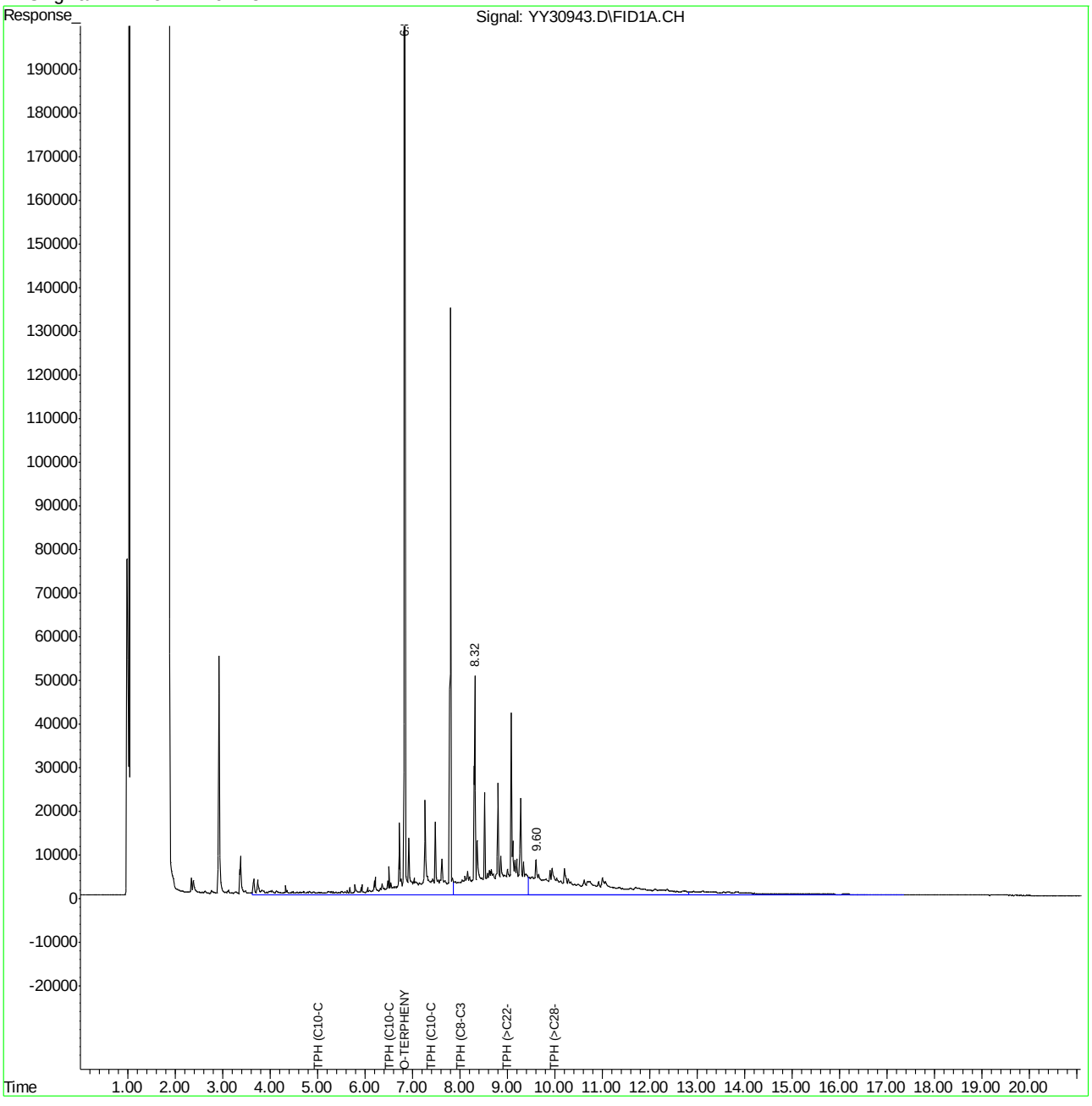
YY30943.D FDRO_OIL.M Mon Aug 06 15:10:38 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30943.D Vial: 23
Acq On : 03 Aug 2012 11:41 pm Operator: STEVE
Sample : f95217-4 Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:56 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30944.D        Vial: 24
Acq On    : 04 Aug 2012  12:09 am                     Operator: STEVE
Sample    : f95217-5                                  Inst    : FID 5
Misc      : op42817,gyY1143,29.7,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:54 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5620247	47.386 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 94.77%			
Target Compounds			
2) H TPH (C10-C28)	6.51	5106602	36.367 PPM
3) H TPH (C10-C22)	5.00	2605868	23.039 PPM
4) H TPH (>C28-C40)	10.00	1180291	16.189 PPM
5) H TPH (>C22-C36)	9.00	3190190	36.618 PPM
6) H TPH (C8-C36)	8.00	10098477	98.252 PPM
7) H TPH (C10-C40)	7.39	8549672	78.676 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

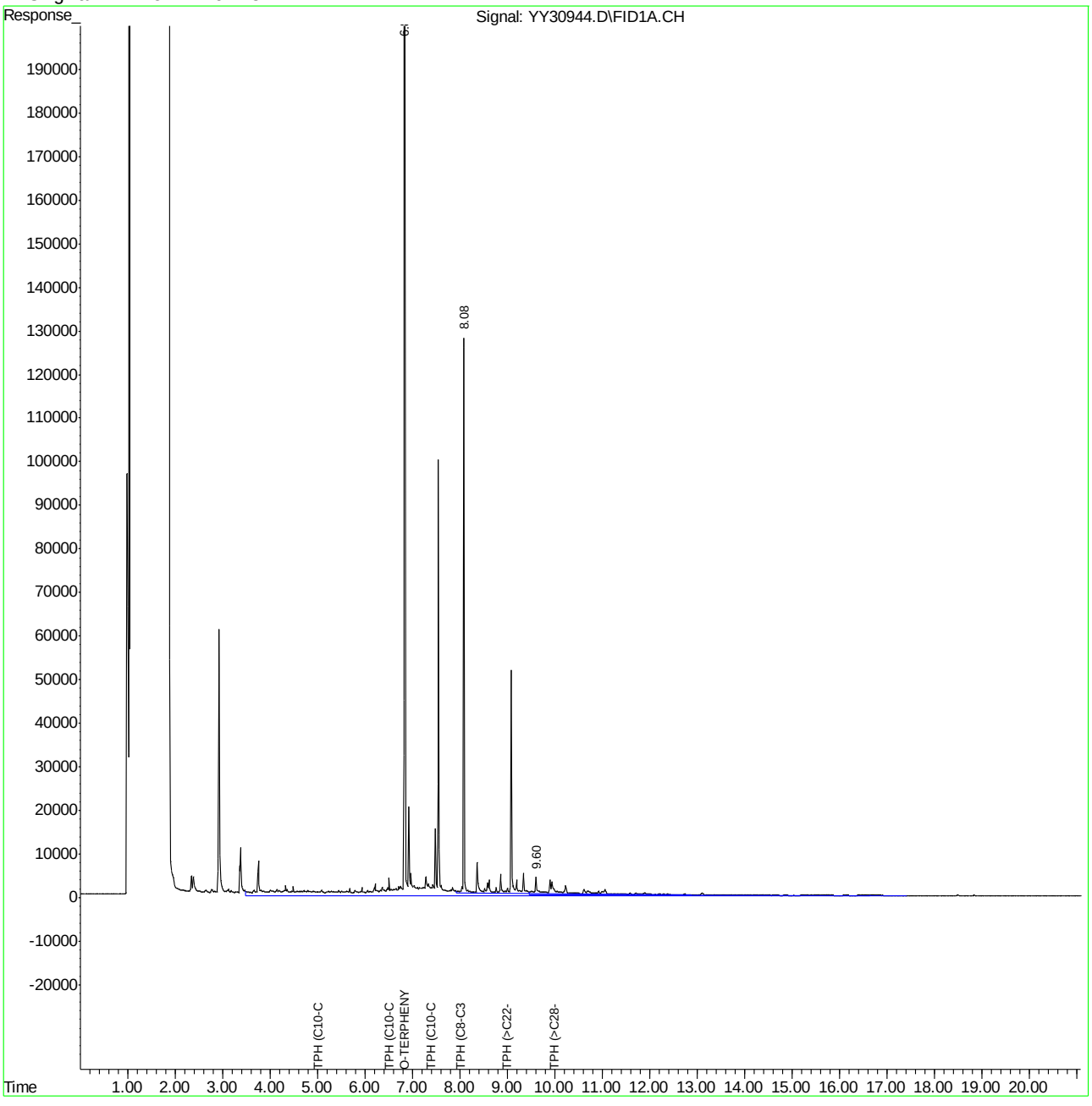
YY30944.D FDRO_OIL.M Mon Aug 06 15:10:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30944.D Vial: 24
Acq On : 04 Aug 2012 12:09 am Operator: STEVE
Sample : f95217-5 Inst : FID 5
Misc : op42817,gyY1143,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:57 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30945.D        Vial: 25
Acq On    : 04 Aug 2012  12:37 am                     Operator: STEVE
Sample    : f95217-6                                  Inst    : FID 5
Misc      : op42817,gyY1143,30.4,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:58 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5414854	45.655 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 91.31%			
Target Compounds			
2) H TPH (C10-C28)	6.51	9963643	70.958 PPM
3) H TPH (C10-C22)	5.00	5434324	48.046 PPM
4) H TPH (>C28-C40)	10.00	1602607	21.982 PPM
5) H TPH (>C22-C36)	9.00	6149586	70.587 PPM
6) H TPH (C8-C36)	8.00	13332063	129.713 PPM
7) H TPH (C10-C40)	7.39	11817482	108.746 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

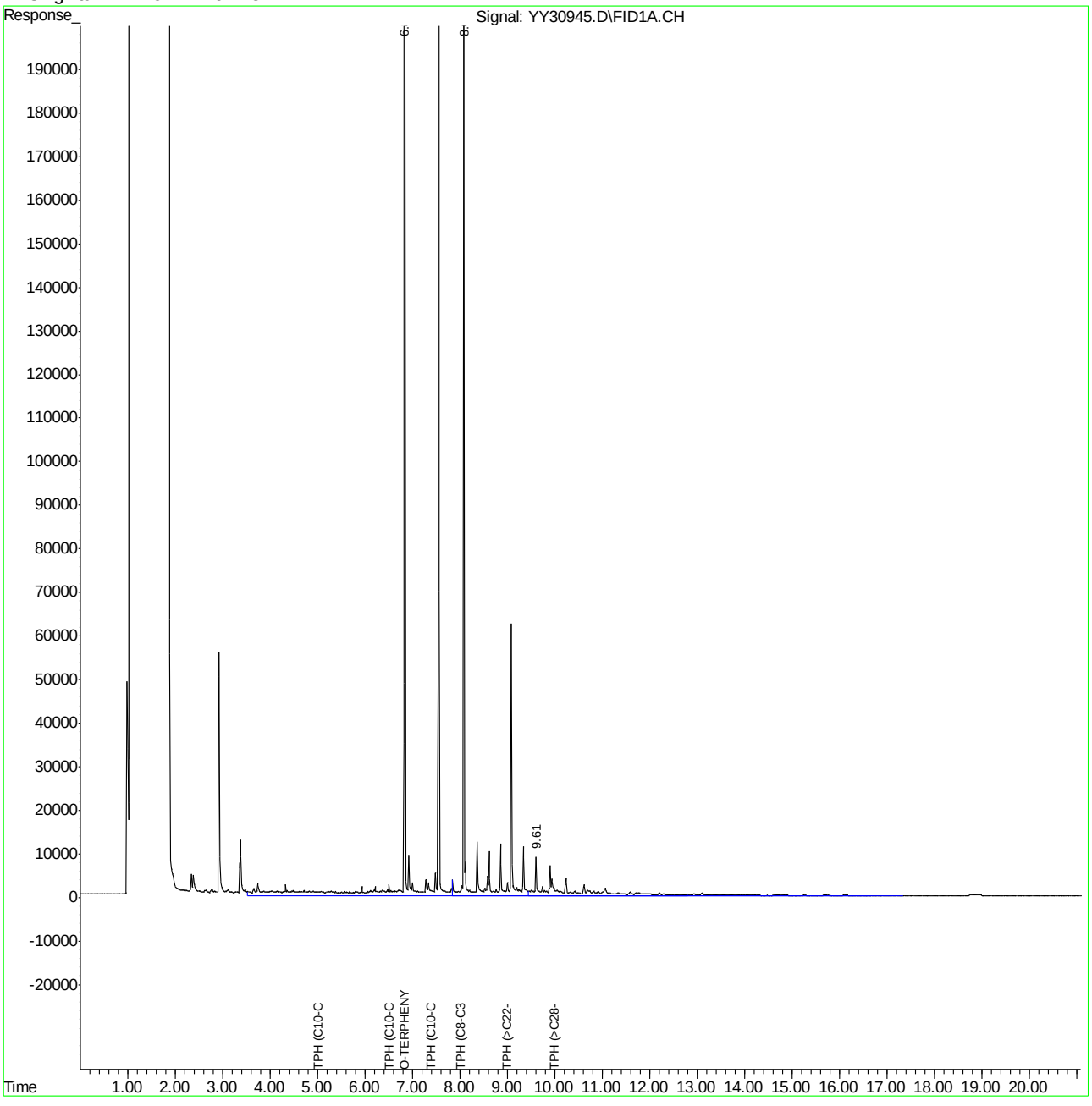
YY30945.D FDRO_OIL.M Mon Aug 06 15:10:44 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30945.D Vial: 25
Acq On : 04 Aug 2012 12:37 am Operator: STEVE
Sample : f95217-6 Inst : FID 5
Misc : op42817,gyY1143,30.4,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 15:00 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30929.D Vial: 11
Acq On : 8-3-12 04:29:51 PM Operator: STEVE
Sample : OP42817-MB Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 06 07:16:56 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5714605	48.182 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 96.36%			
Target Compounds			
2) H TPH (C10-C28)	6.51	1059601	7.546 PPM
3) H TPH (C10-C22)	5.00	599185	5.298 PPM
4) H TPH (>C28-C40)	10.00	1048260	14.378 PPM
5) H TPH (>C22-C36)	9.00	1200555	13.780 PPM
6) H TPH (C8-C36)	8.00	5205464	50.646 PPM
7) H TPH (C10-C40)	7.39	3912732	36.006 PPM

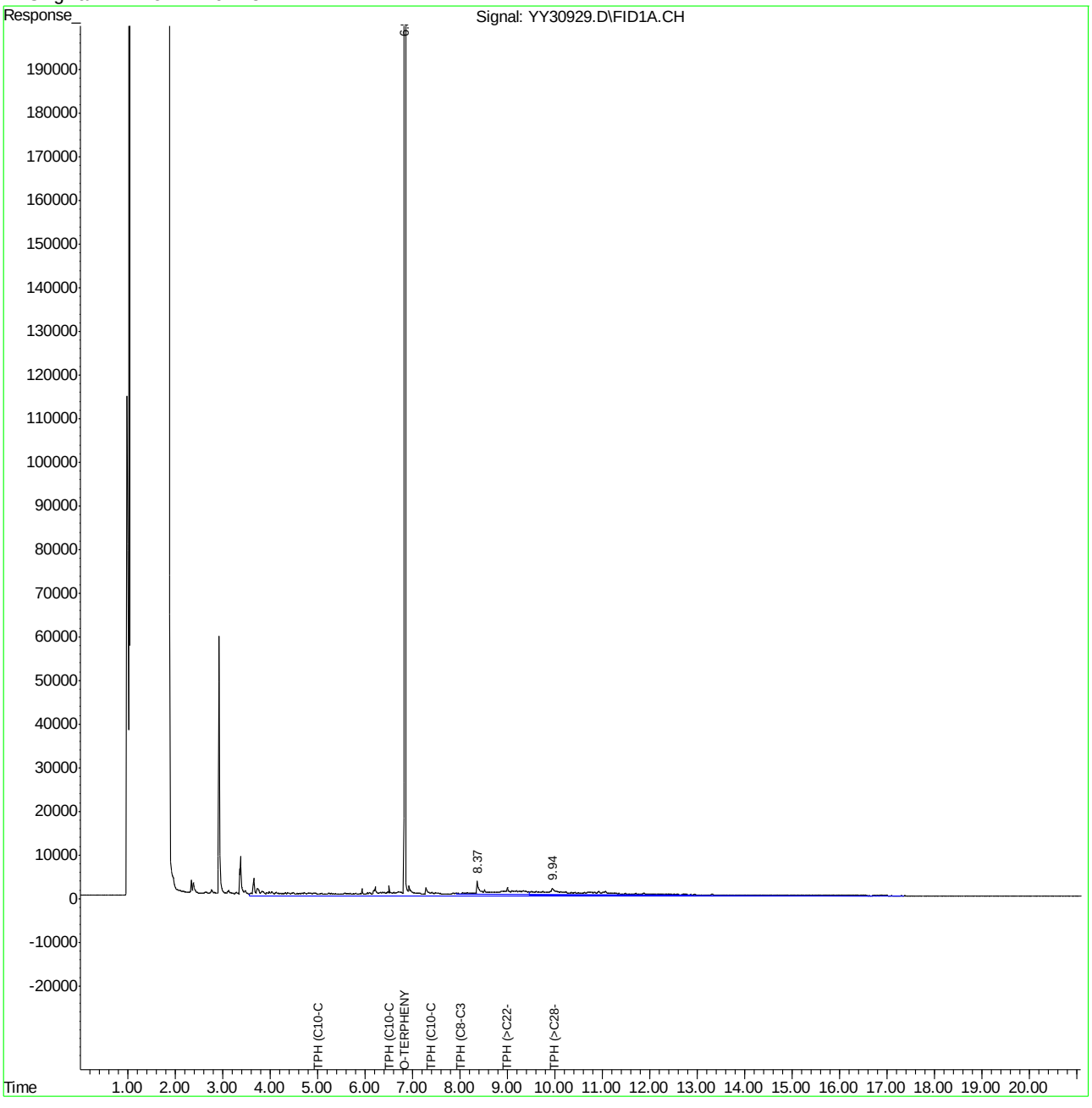
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30929.D FDRO_OIL.M Mon Aug 06 15:09:55 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30929.D Vial: 11
Acq On : 8-3-12 04:29:51 PM Operator: STEVE
Sample : OP42817-MB Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:11 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



ACCUTEST LABORATORIES F95217

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30954.D        Vial: 5
Acq On    : 06 Aug 2012  10:58 am                     Operator: STEVE
Sample    : op42817-mb                                Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 11:45:32 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5796562	48.873 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 97.75%			
Target Compounds			
2) H TPH (C10-C28)	6.51	2571910	18.316 PPM
3) H TPH (C10-C22)	5.00	1939675	17.149 PPM
4) H TPH (>C28-C40)	10.00	753721	10.338 PPM
5) H TPH (>C22-C36)	9.00	1255987	14.417 PPM
6) H TPH (C8-C36)	8.00	5037750	49.014 PPM
7) H TPH (C10-C40)	7.39	3350744	30.834 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

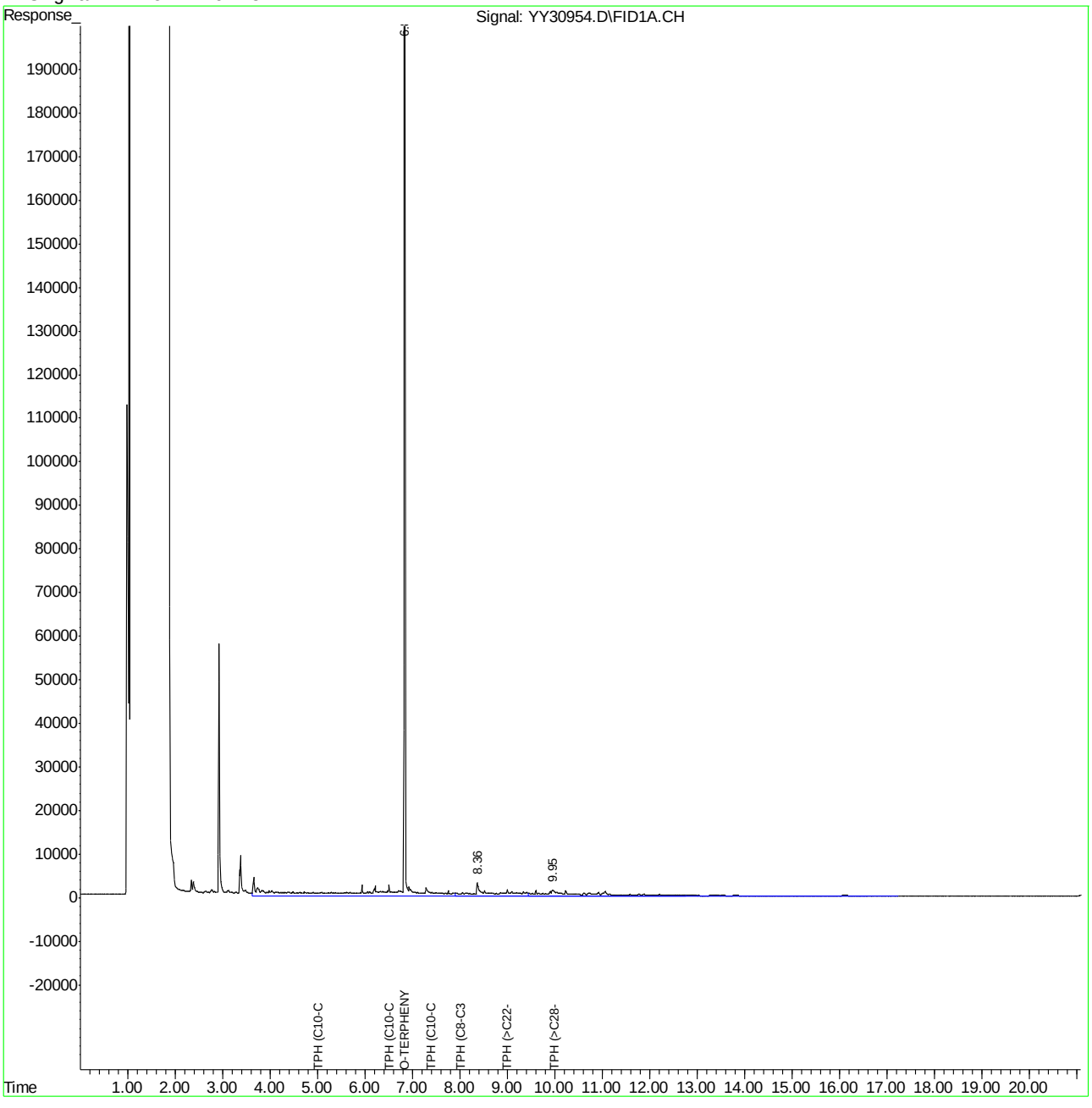
YY30954.D FDRO_OIL.M Tue Aug 07 08:29:26 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30954.D Vial: 5
Acq On : 06 Aug 2012 10:58 am Operator: STEVE
Sample : op42817-mb Inst : FID 5
Misc : op42817,gyy1144,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 11:55 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30954.D FDRO_OIL.M Tue Aug 07 08:29:27 2012 Page 2

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30928.D        Vial: 10
Acq On    : 8-3-12 04:01:40 PM                        Operator: STEVE
Sample    : OP42817-BS                                Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:16:53 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5754373	48.517 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery =	97.03%
Target Compounds			
2) H TPH (C10-C28)	6.51	130580503	929.949 PPM
3) H TPH (C10-C22)	5.00	102605568	907.163 PPM
4) H TPH (>C28-C40)	10.00	65295110	895.608 PPM
5) H TPH (>C22-C36)	9.00	83135879	954.261 PPM
6) H TPH (C8-C36)	8.00	194261824	1890.057 PPM
7) H TPH (C10-C40)	7.39	201676143	1855.858 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

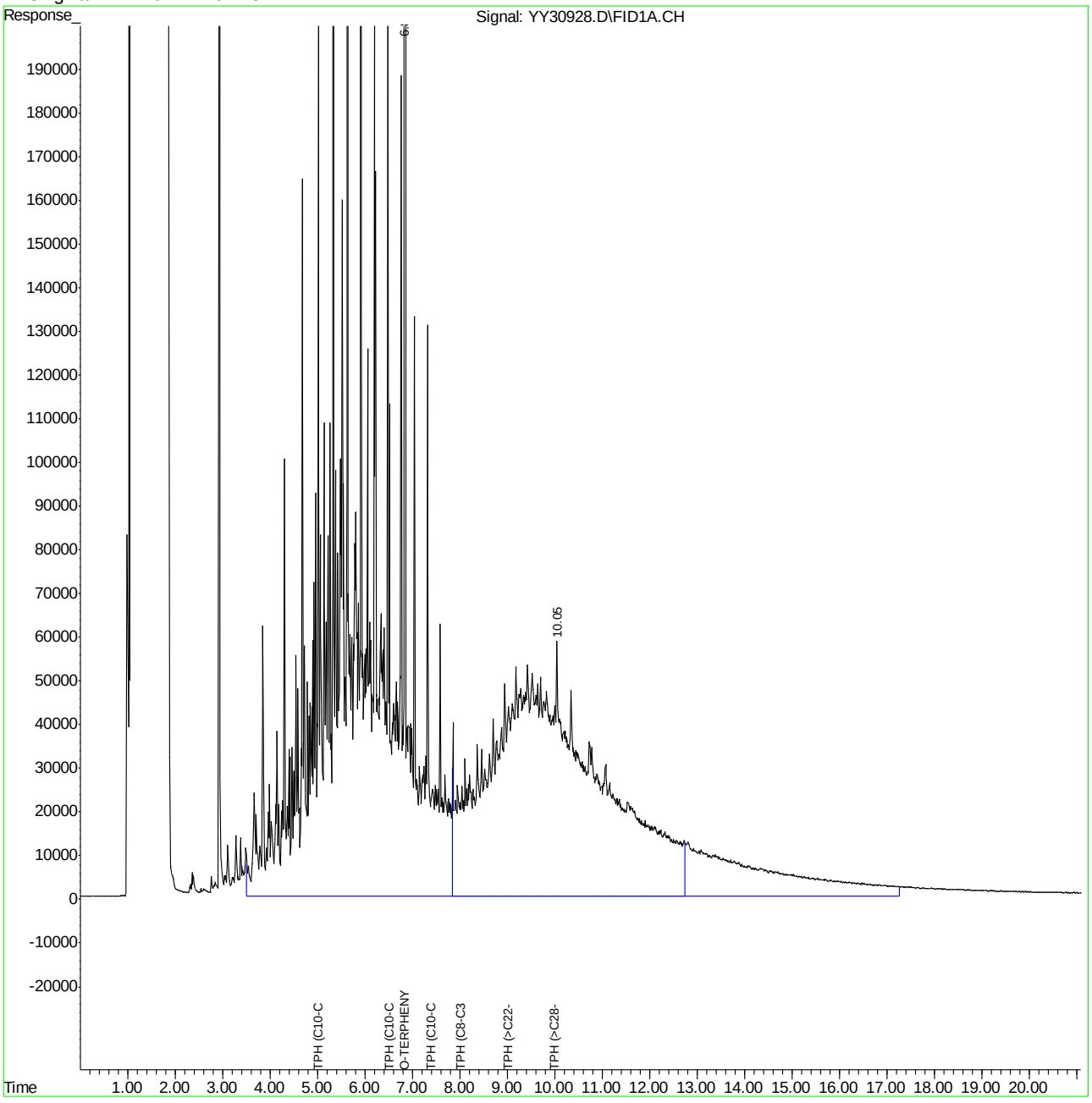
YY30928.D FDRO_OIL.M Mon Aug 06 15:09:52 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30928.D Vial: 10
Acq On : 8-3-12 04:01:40 PM Operator: STEVE
Sample : OP42817-BS Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:09 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



ACCUTEST LABORATORIES F95217

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30933.D        Vial: 15
Acq On    : 8-3-12 07:01:38 PM                        Operator: STEVE
Sample    : op42817-ms                                Inst    : FID 5
Misc      : op42817,gyY1143,30.2,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:11 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5454235	45.987 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 91.97%			
Target Compounds			
2) H TPH (C10-C28)	6.51	134334148	956.681 PPM
3) H TPH (C10-C22)	5.00	97946523	865.971 PPM
4) H TPH (>C28-C40)	10.00	73862161	1013.116 PPM
5) H TPH (>C22-C36)	9.00	96838571	1111.545 PPM
6) H TPH (C8-C36)	8.00	203849313	1983.338 PPM
7) H TPH (C10-C40)	7.39	213711055	1966.605 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

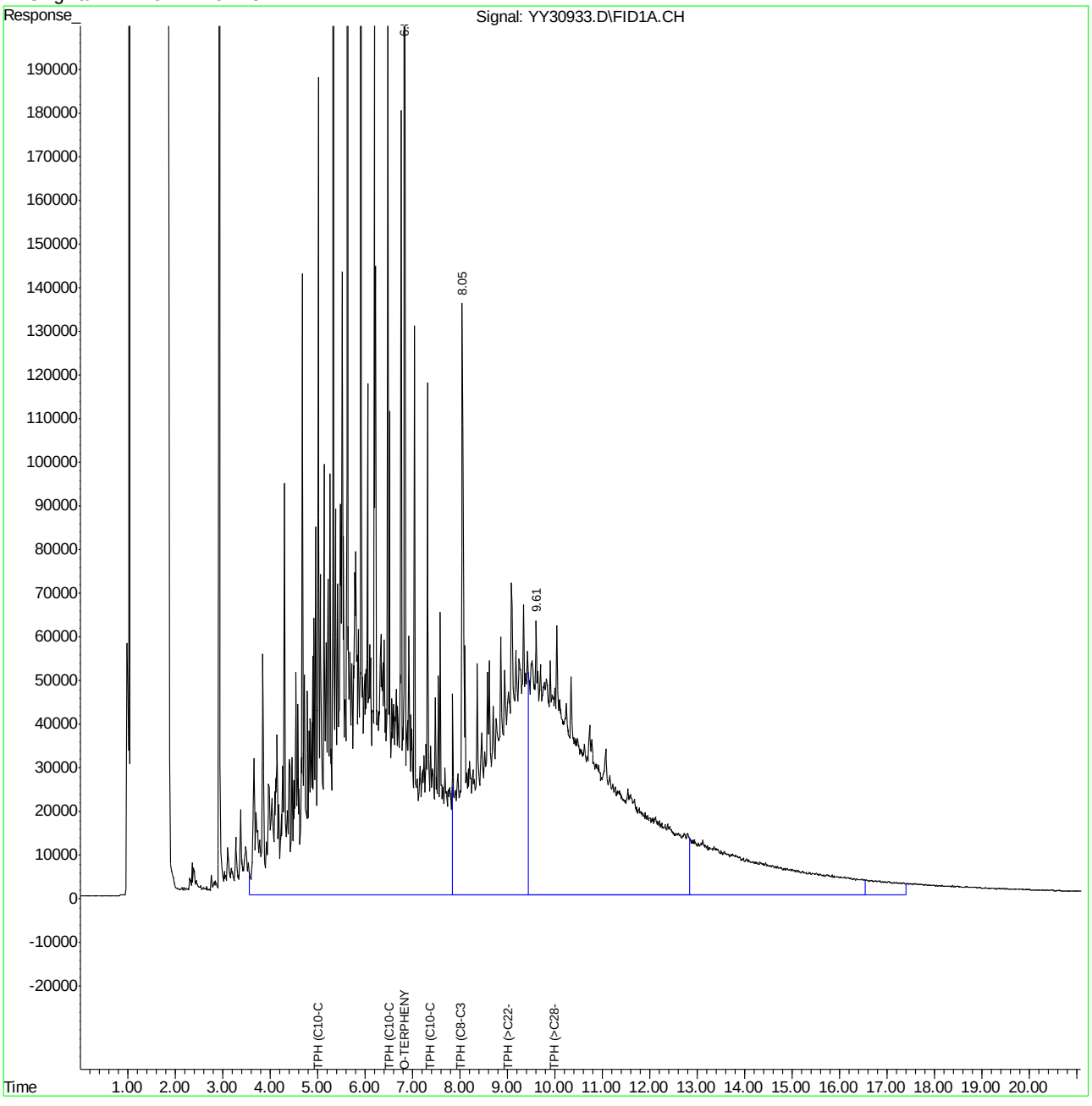
YY30933.D FDRO_OIL.M Mon Aug 06 15:10:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30933.D Vial: 15
Acq On : 8-3-12 07:01:38 PM Operator: STEVE
Sample : op42817-ms Inst : FID 5
Misc : op42817,gyY1143,30.2,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:22 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30933.D FDRO_OIL.M Mon Aug 06 15:10:11 2012 Page 2

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30934.D        Vial: 16
Acq On    : 8-3-12 07:29:42 PM                        Operator: STEVE
Sample    : op42817-msd                               Inst    : FID 5
Misc      : op42817,gyY1143,30.4,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:15 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-TERPHENYL	6.84	5693598	48.005	PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 96.01%				
Target Compounds				
2) H TPH (C10-C28)	6.51	136048851	968.893	PPM
3) H TPH (C10-C22)	5.00	98824615	873.735	PPM
4) H TPH (>C28-C40)	10.00	80456444	1103.565	PPM
5) H TPH (>C22-C36)	9.00	102306941	1174.312	PPM
6) H TPH (C8-C36)	8.00	210430524	2047.370	PPM
7) H TPH (C10-C40)	7.39	222057003	2043.406	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

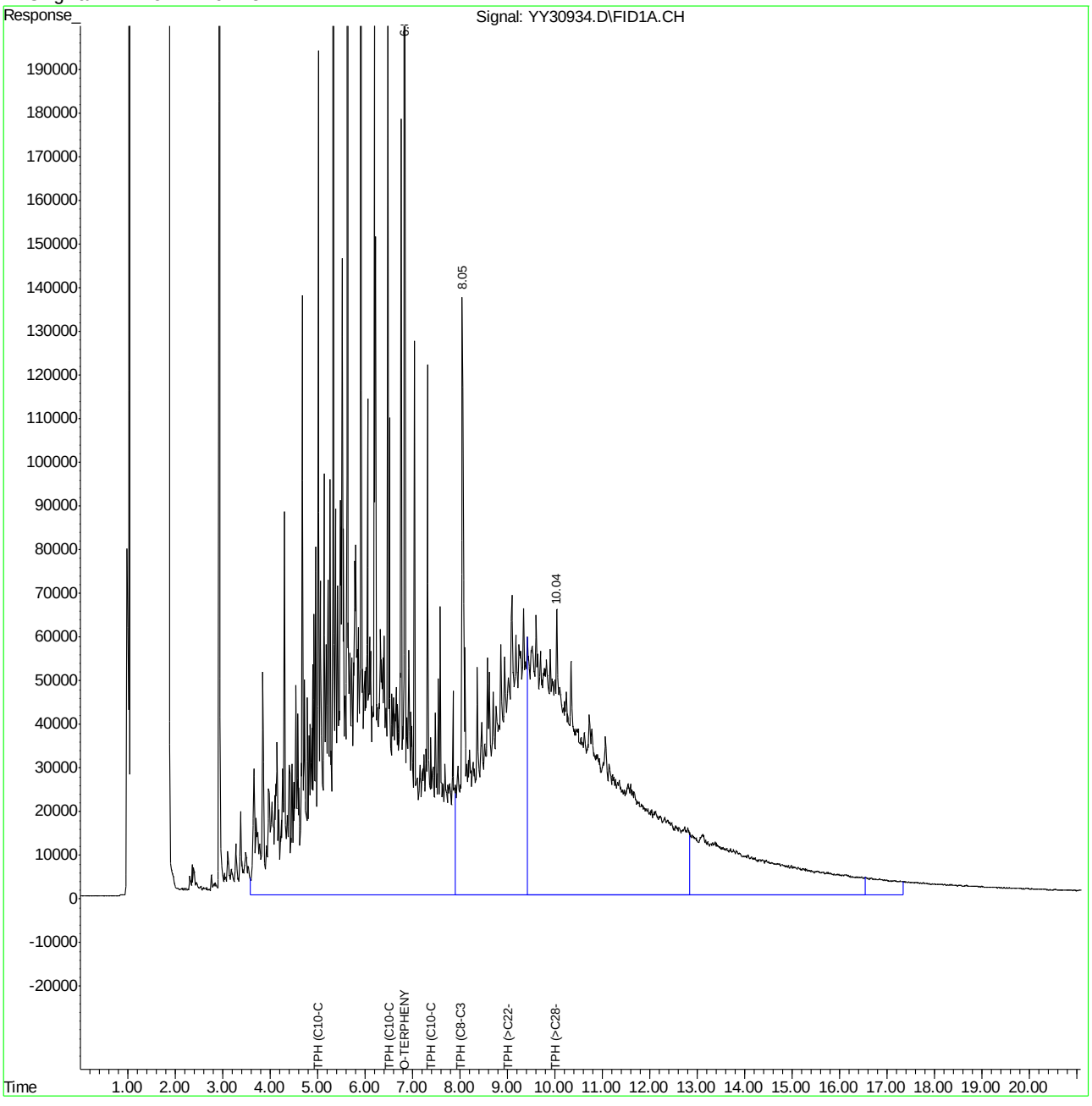
YY30934.D FDRO_OIL.M Mon Aug 06 15:10:12 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30934.D Vial: 16
Acq On : 8-3-12 07:29:42 PM Operator: STEVE
Sample : op42817-msd Inst : FID 5
Misc : op42817,gyY1143,30.4,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:26 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30338.D        Vial: 1
Acq On    : 7-3-12 03:00:43 PM                        Operator: nareshj
Sample    : rt,C10-C40                                Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:04:53 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

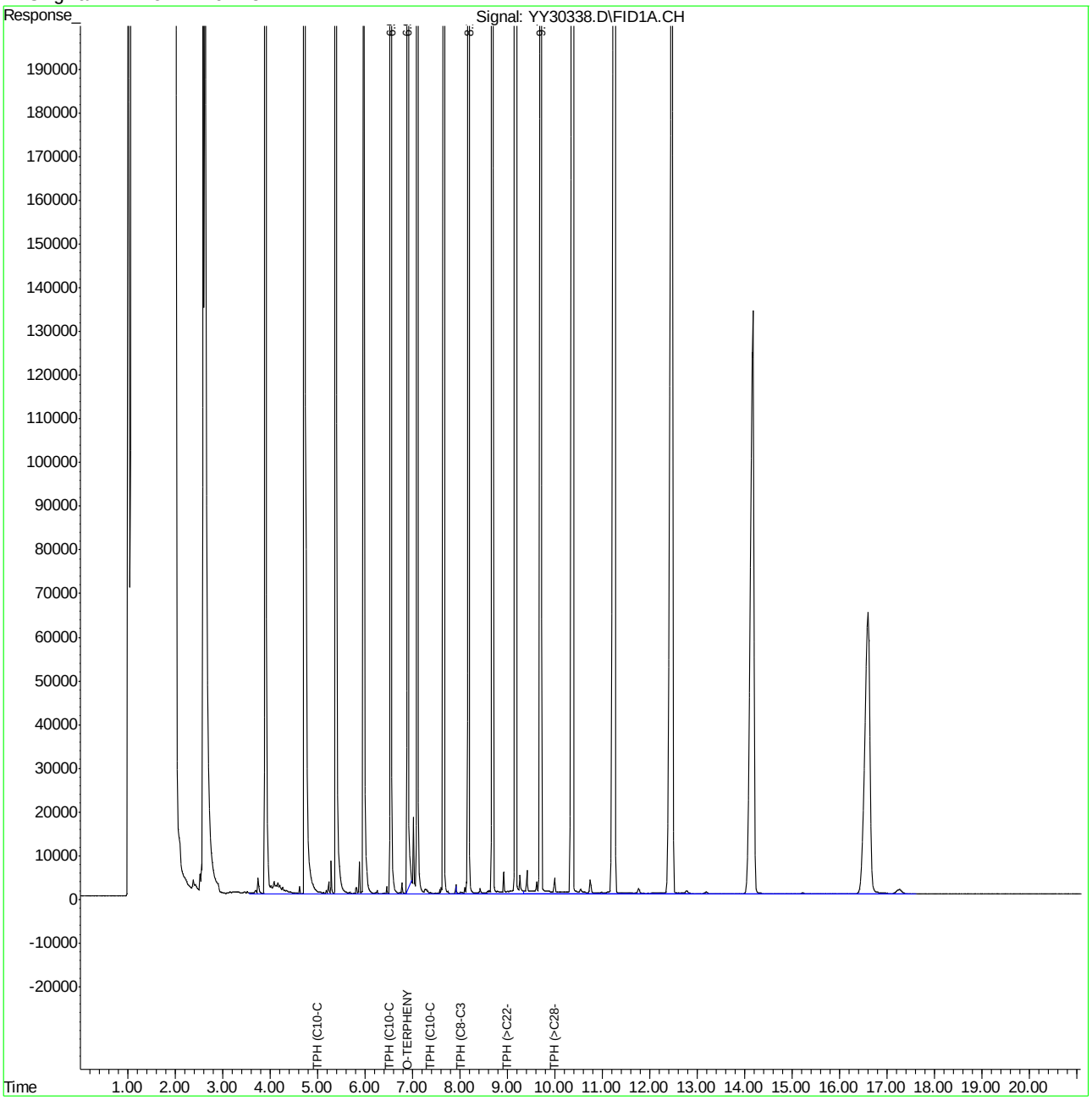
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.90	7483064	52.708 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 105.42%			
Target Compounds			
2) H TPH (C10-C28)	6.51	138736275	891.309 PPM
3) H TPH (C10-C22)	5.00	95590859	744.451 PPM
4) H TPH (>C28-C40)	10.00	62783676	789.541 PPM
5) H TPH (>C22-C36)	9.00	93649938	1021.412 PPM
6) H TPH (C8-C36)	8.00	202829218	1801.487 PPM
7) H TPH (C10-C40)	7.39	201826263	1692.612 PPM

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30338.D Vial: 1
Acq On : 7-3-12 03:00:43 PM Operator: nareshj
Sample : rt,C10-C40 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:04 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30919.D       Vial: 2
Acq On    : 03 Aug 2012  11:47 am                    Operator: STEVE
Sample    : RT,C8-C40                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER         Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:31 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

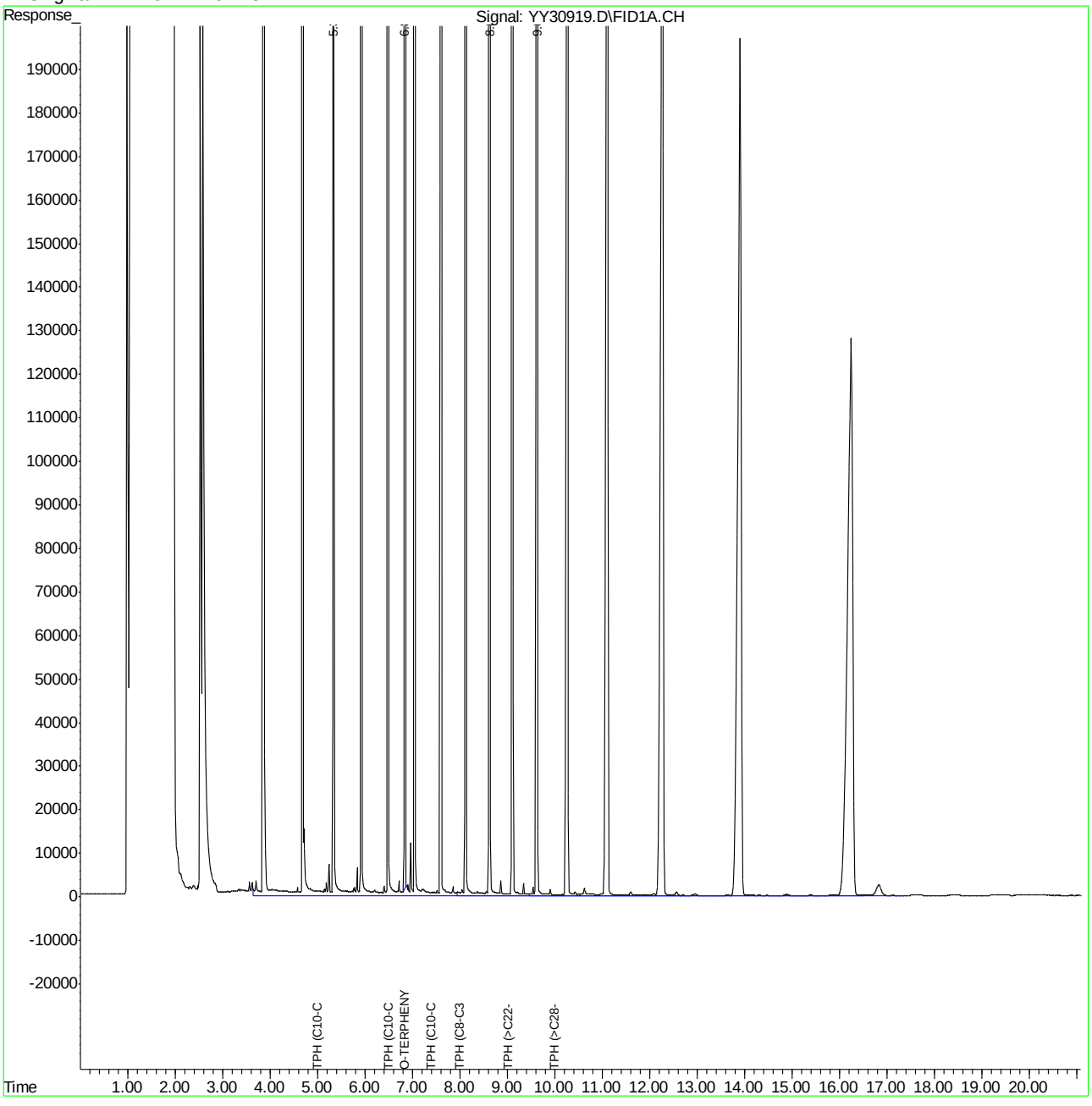
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5137306	47.544 PPM
Spiked Amount 50.000 Range 42 - 114 Recovery = 95.09%			
Target Compounds			
2) H TPH (C10-C28)	6.51	93808477	676.836 PPM
3) H TPH (C10-C22)	5.00	64959617	576.944 PPM
4) H TPH (>C28-C40)	10.00	59128946	914.958 PPM
5) H TPH (>C22-C36)	9.00	68274586	848.240 PPM
6) H TPH (C8-C36)	8.00	143470861	1450.614 PPM
7) H TPH (C10-C40)	7.39	153122408	1509.899 PPM

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30919.D Vial: 2
Acq On : 03 Aug 2012 11:47 am Operator: STEVE
Sample : RT,C8-C40 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:22 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30951.D       Vial: 2
Acq On    : 8-6-12 09:34:36 AM                        Operator: STEVE
Sample    : rt,C10-C40                                Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 11:45:20 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5853495	49.353 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery =	98.71%
Target Compounds			
2) H TPH (C10-C28)	6.51	111347689	792.980 PPM
3) H TPH (C10-C22)	5.00	77070068	681.397 PPM
4) H TPH (>C28-C40)	10.00	73374604	1006.429 PPM
5) H TPH (>C22-C36)	9.00	82384742	945.639 PPM
6) H TPH (C8-C36)	8.00	170972433	1663.465 PPM
7) H TPH (C10-C40)	7.39	184935163	1701.804 PPM

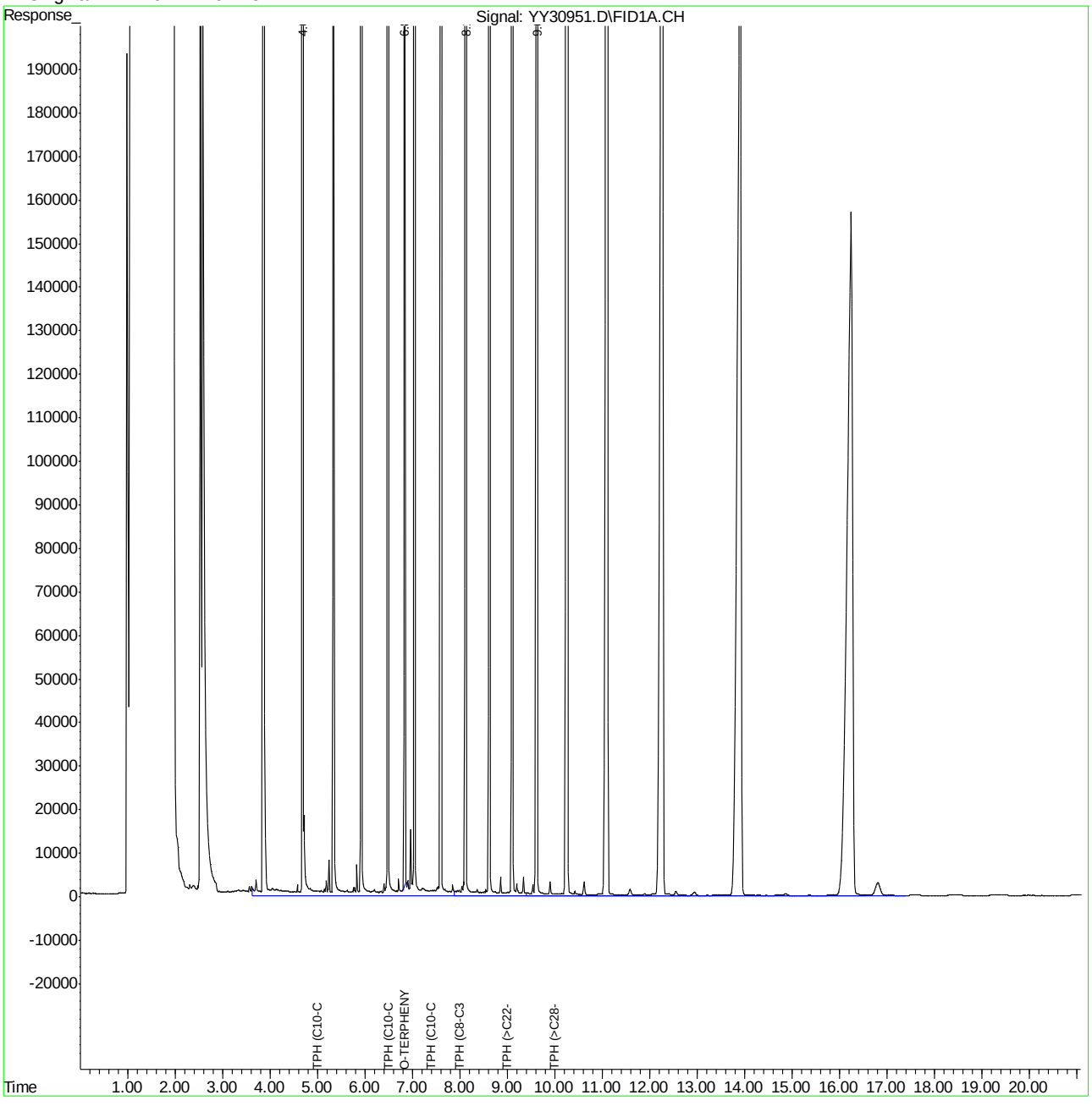
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30951.D Vial: 2
Acq On : 8-6-12 09:34:36 AM Operator: STEVE
Sample : rt,C10-C40 Inst : FID 5
Misc : op42817,gyy1144,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 11:48 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30342.D        Vial: 3
Acq On    : 7-3-12 05:06:57 PM                        Operator: nareshj
Sample    : ic1123-100                                Inst    : FID 5
Misc      : op42407,gyy1123,1000,,,1,1,water          Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:05:06 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.89	502156	3.537	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 7.07%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	14252095	91.562	PPM	
3) H TPH (C10-C22)	5.00	11481916	89.420	PPM	
4) H TPH (>C28-C40)	10.00	7088431	89.141	PPM	
5) H TPH (>C22-C36)	9.00	8713249	95.033	PPM	
6) H TPH (C8-C36)	8.00	20826070	184.973	PPM	
7) H TPH (C10-C40)	7.39	21283437	178.493	PPM	

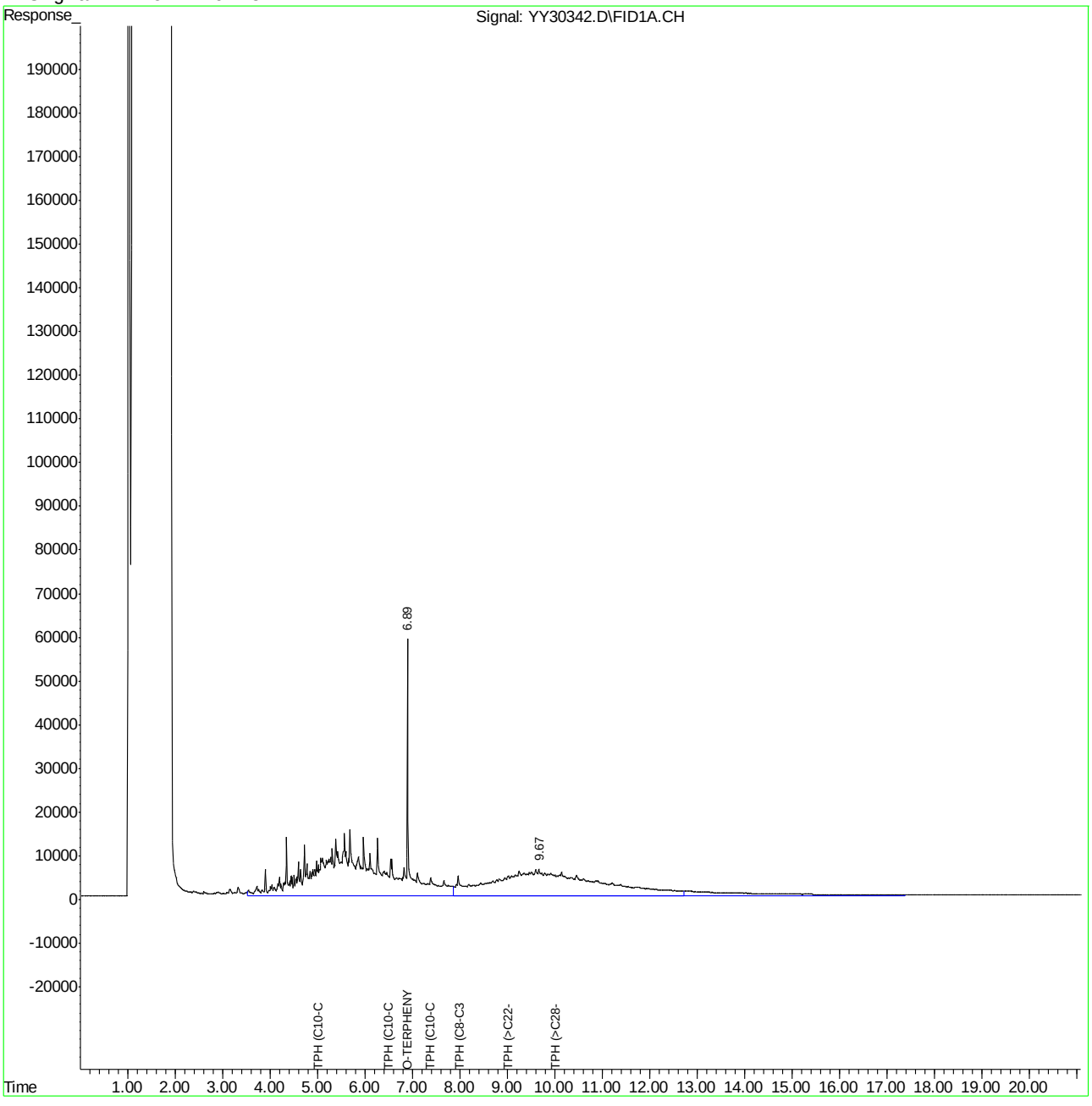
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30342.D FDRO_OIL.M Thu Jul 05 09:56:29 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30342.D Vial: 3
Acq On : 7-3-12 05:06:57 PM Operator: nareshj
Sample : ic1123-100 Inst : FID 5
Misc : op42407,gyy1123,1000,,,1,1,water Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:31 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1123-IC1123	**Method:**	SW846 8015C
Lab FileID:	YY30342.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 17:06	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.89	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30343.D        Vial: 4
Acq On    : 7-3-12 05:34:56 PM                        Operator: nareshj
Sample    : ic1123-250                                Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:05:10 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.89	1302352	9.173	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 18.35%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	34505026	221.677	PPM	
3) H TPH (C10-C22)	5.00	27953414	217.698	PPM	
4) H TPH (>C28-C40)	10.00	15355638	193.106	PPM	
5) H TPH (>C22-C36)	9.00	19597979	213.749	PPM	
6) H TPH (C8-C36)	8.00	48686427	432.423	PPM	
7) H TPH (C10-C40)	7.39	49667679	416.537	PPM	

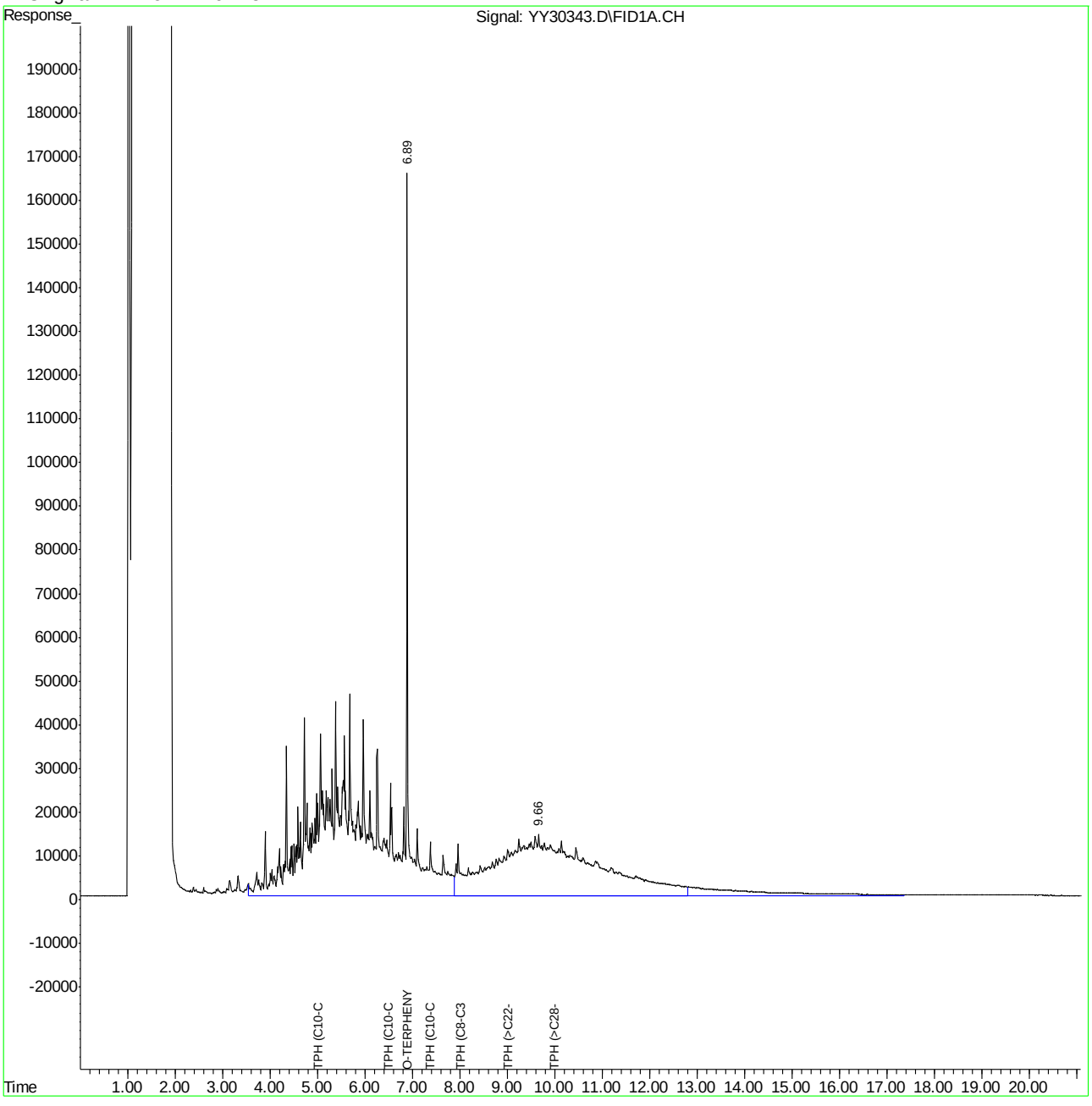
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30343.D Vial: 4
Acq On : 7-3-12 05:34:56 PM Operator: nareshj
Sample : ic1123-250 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:34 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1123-IC1123	**Method:**	SW846 8015C
Lab FileID:	YY30343.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 17:34	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.89	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30344.D        Vial: 5
Acq On    : 7-3-12 06:02:48 PM                        Operator: nareshj
Sample    : ic1123-500                                Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:05:13 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.89	2692880	18.968	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 37.94%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	68584056	440.617	PPM	
3) H TPH (C10-C22)	5.00	55674426	433.586	PPM	
4) H TPH (>C28-C40)	10.00	31504288	396.185	PPM	
5) H TPH (>C22-C36)	9.00	39431645	430.069	PPM	
6) H TPH (C8-C36)	8.00	97243667	863.698	PPM	
7) H TPH (C10-C40)	7.39	99760990	836.644	PPM	

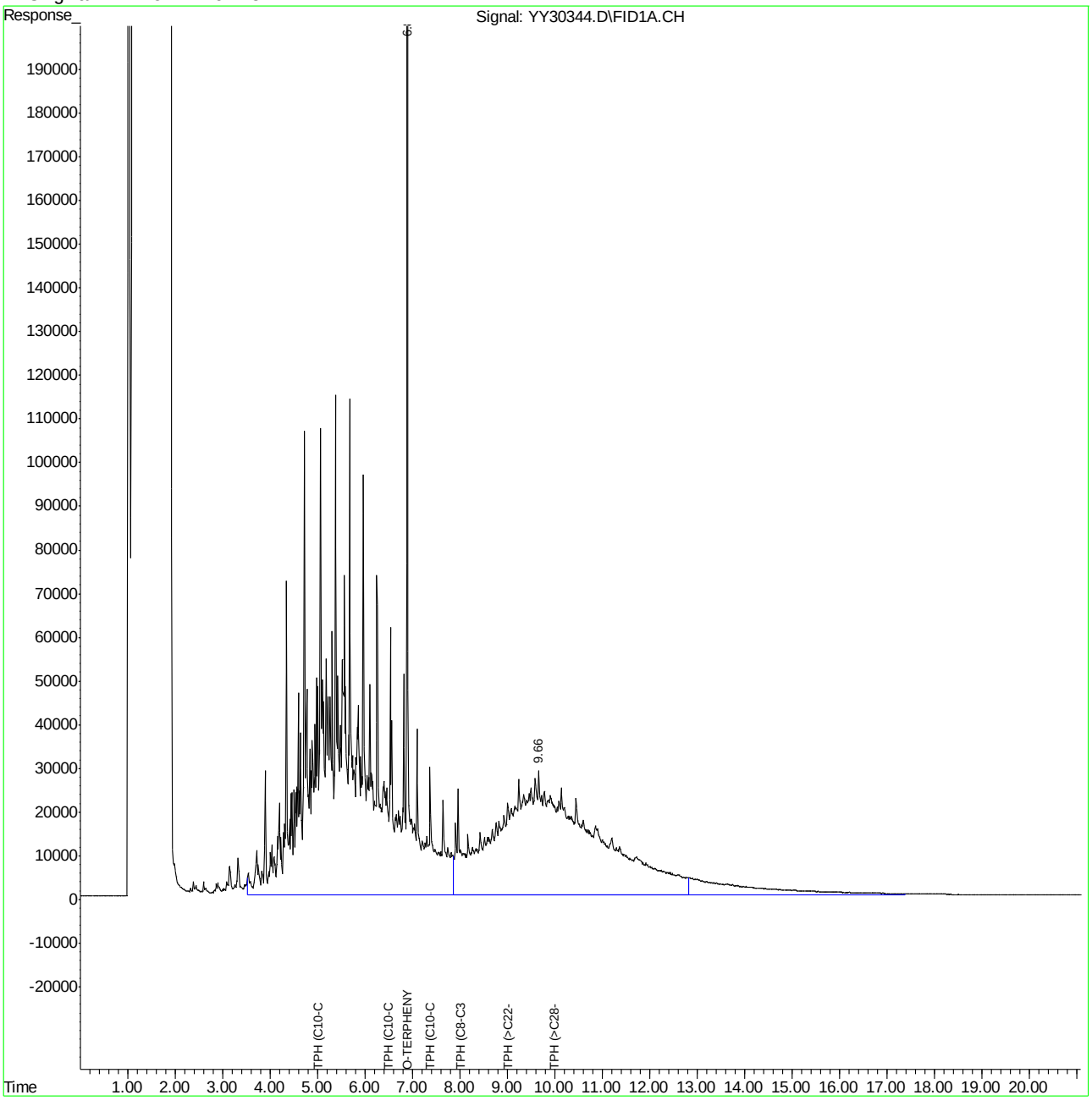
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30344.D FDRO_OIL.M Thu Jul 05 09:56:35 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30344.D Vial: 5
Acq On : 7-3-12 06:02:48 PM Operator: nareshj
Sample : ic1123-500 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:37 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



ACCUTEST LABORATORIES F95217

Manual Integration Approval Summary

Sample Number:	GYY1123-IC1123	**Method:**	SW846 8015C
Lab FileID:	YY30344.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 18:02	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.89	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30345.D Vial: 6
Acq On : 7-3-12 06:30:38 PM Operator: nareshj
Sample : icc1123-1000 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 05 09:05:17 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.90	5523727	38.907	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 77.81%					
Target Compounds					
2) H TPH (C10-C28)	6.51	137060828	880.545	PPM	
3) H TPH (C10-C22)	5.00	111611636	869.219	PPM	
4) H TPH (>C28-C40)	10.00	63396231	797.244	PPM	
5) H TPH (>C22-C36)	9.00	78827051	859.743	PPM	
6) H TPH (C8-C36)	8.00	194777174	1729.971	PPM	
7) H TPH (C10-C40)	7.39	200027863	1677.530	PPM	

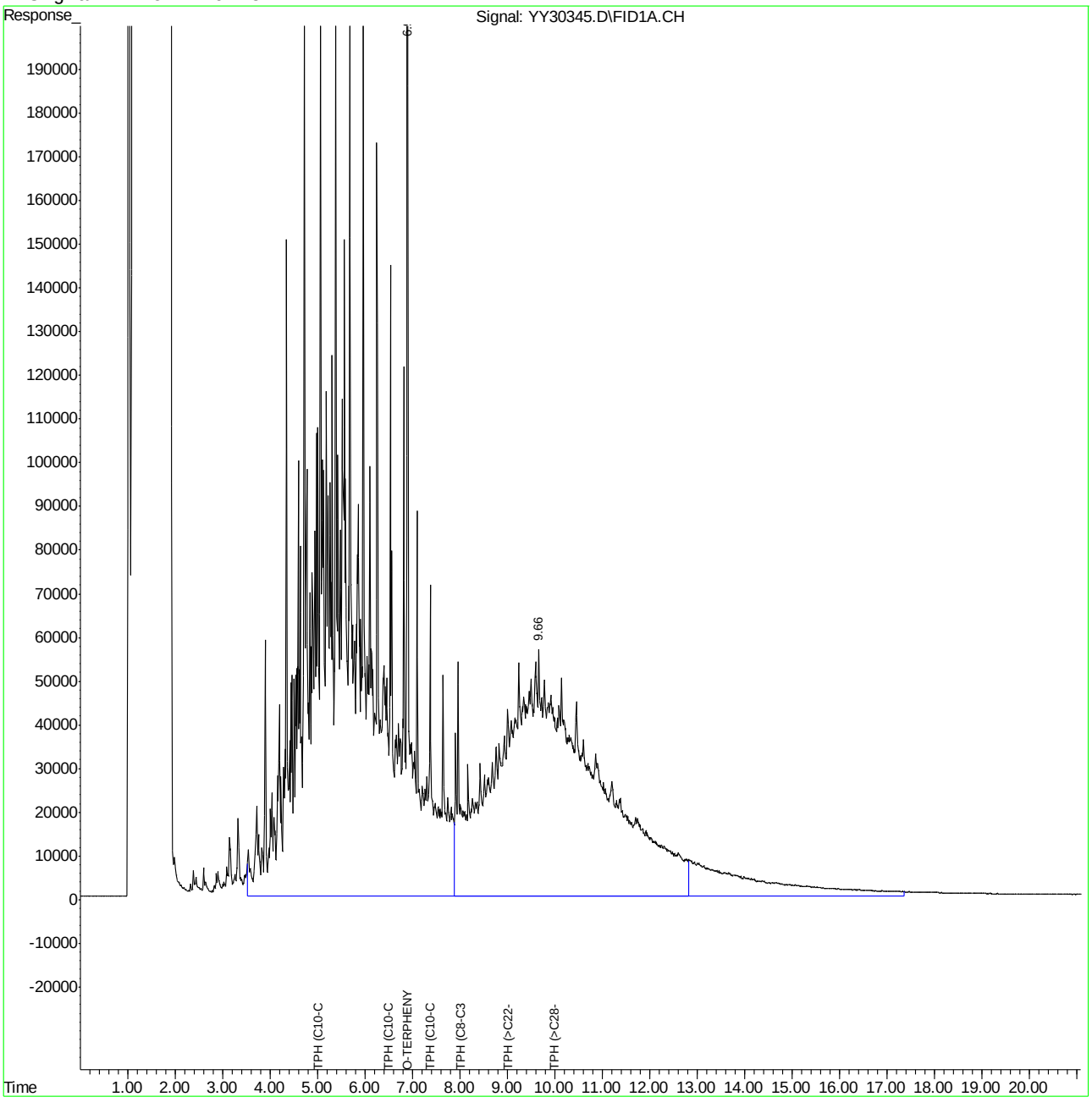
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30345.D FDRO_OIL.M Thu Jul 05 09:56:38 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30345.D Vial: 6
Acq On : 7-3-12 06:30:38 PM Operator: nareshj
Sample : icc1123-1000 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:41 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1123-ICC1123	**Method:**	SW846 8015C
Lab FileID:	YY30345.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 18:30	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.90	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30346.D        Vial: 7
Acq On    : 7-3-12 06:58:30 PM                        Operator: nareshj
Sample    : ic1123-1500                               Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:05:20 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.90	8445929	59.490	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 118.98%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	205058181	1317.393	PPM	
3) H TPH (C10-C22)	5.00	167923228	1307.768	PPM	
4) H TPH (>C28-C40)	10.00	95920523	1206.256	PPM	
5) H TPH (>C22-C36)	9.00	119288363	1301.043	PPM	
6) H TPH (C8-C36)	8.00	293622786	2607.897	PPM	
7) H TPH (C10-C40)	7.39	302257173	2534.874	PPM	

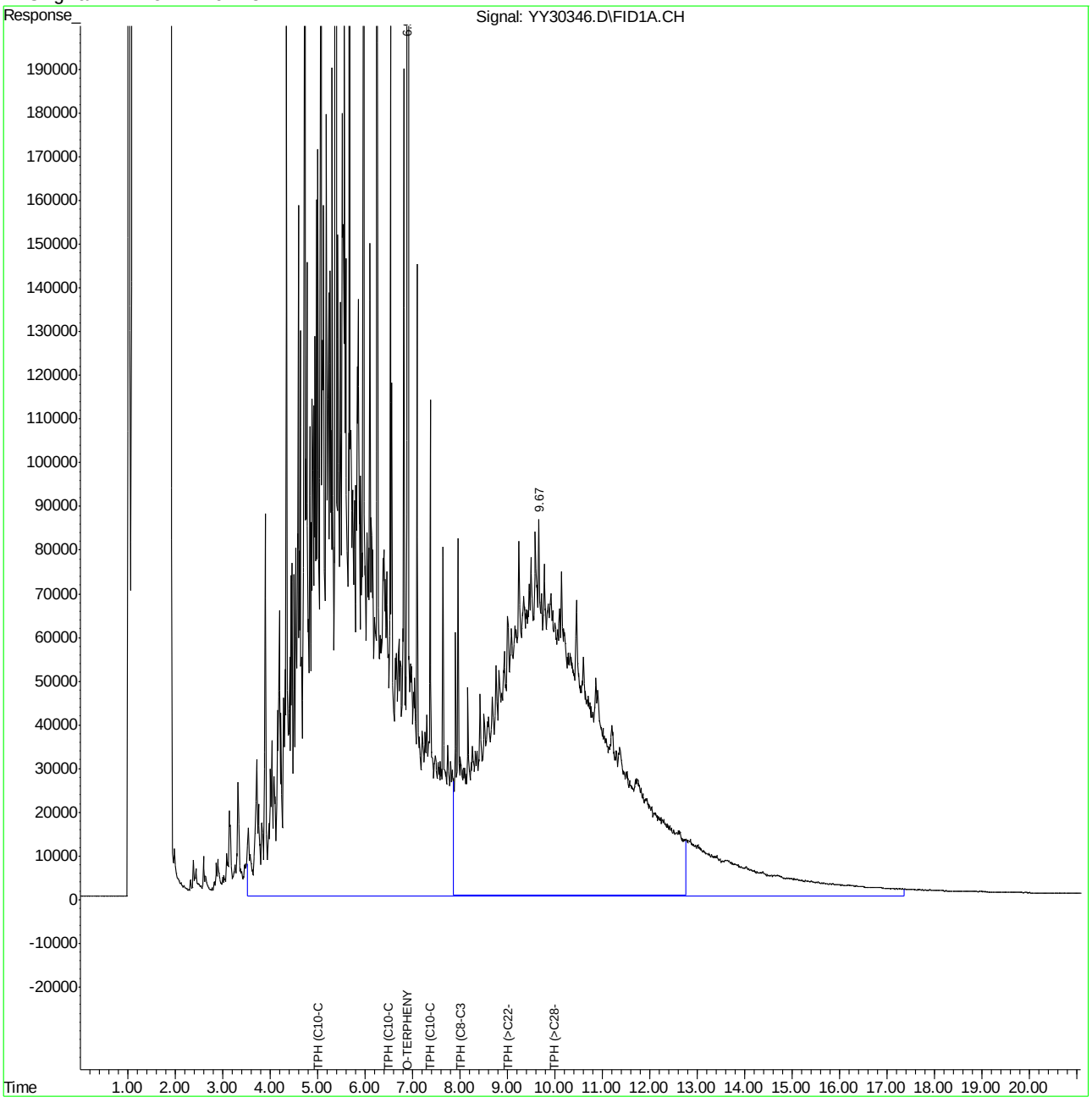
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30346.D Vial: 7
Acq On : 7-3-12 06:58:30 PM Operator: nareshj
Sample : ic1123-1500 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:44 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1123-IC1123	**Method:**	SW846 8015C
Lab FileID:	YY30346.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 18:58	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.90	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
07/06/12 13:47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30347.D Vial: 8
Acq On : 7-3-12 07:26:13 PM Operator: nareshj
Sample : ic1123-2000 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 05 09:05:24 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.90	11289907	79.522	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 159.04%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	280231226	1800.341	PPM	
3) H TPH (C10-C22)	5.00	228027765	1775.855	PPM	
4) H TPH (>C28-C40)	10.00	130179763	1637.086	PPM	
5) H TPH (>C22-C36)	9.00	160395614	1749.387	PPM	
6) H TPH (C8-C36)	8.00	397646847	3531.817	PPM	
7) H TPH (C10-C40)	7.39	408776798	3428.199	PPM	

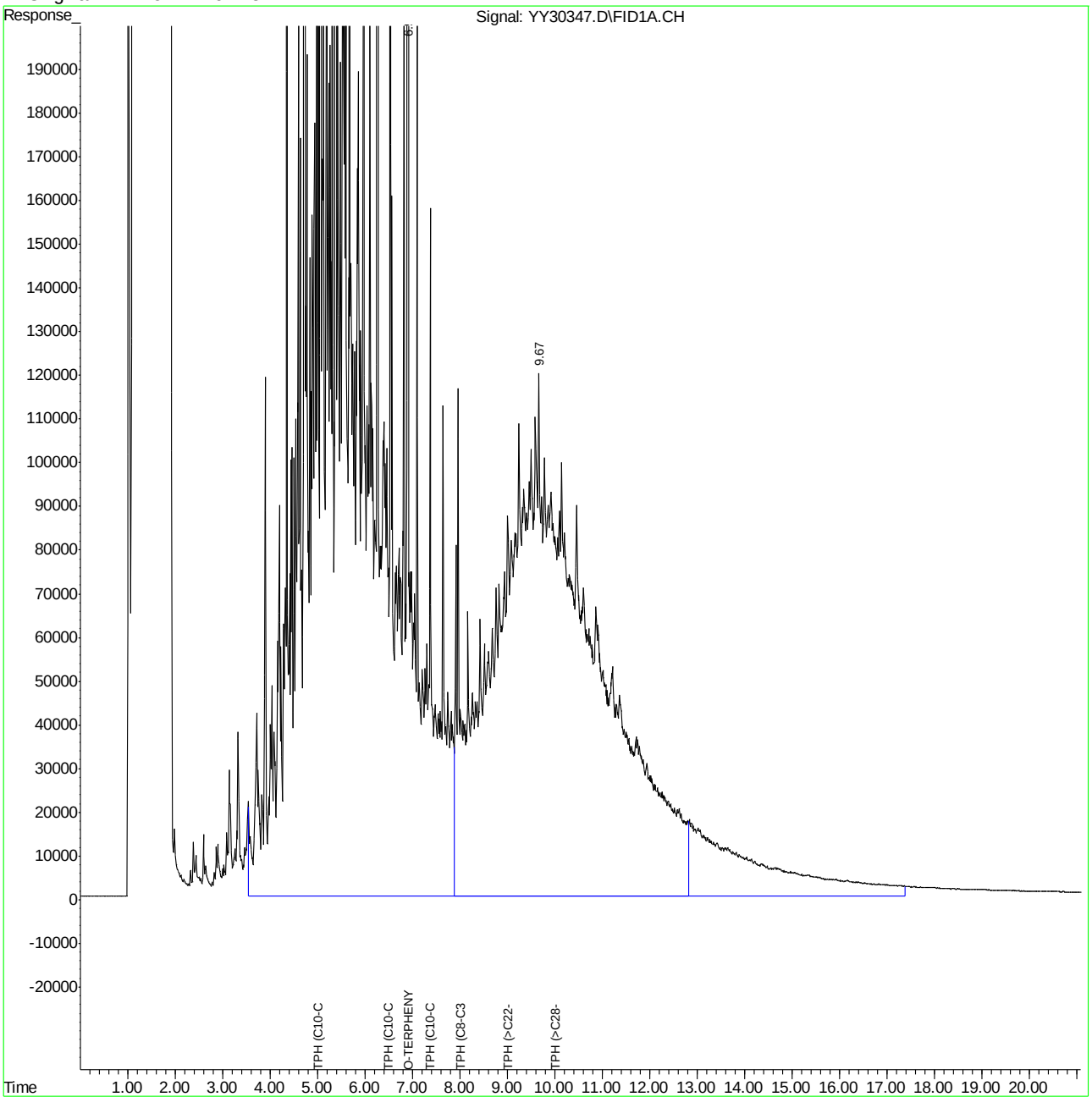
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30347.D FDRO_OIL.M Thu Jul 05 09:56:44 2012 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30347.D Vial: 8
Acq On : 7-3-12 07:26:13 PM Operator: nareshj
Sample : ic1123-2000 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:48 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:03:09 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30347.D FDRO_OIL.M Thu Jul 05 09:56:45 2012 Page 2

13.6.6 13

Manual Integration Approval Summary

Sample Number:	GYY1123-IC1123	**Method:**	SW846 8015C
Lab FileID:	YY30347.D	**Analyst approved:**	07/05/12 11:19 Stephen Lee
Injection Time:	07/03/12 19:26	**Supervisor approved:**	07/06/12 13:47 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.90	Poorly defined baseline

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30348.D        Vial: 9
Acq On    : 7-3-12 07:53:50 PM                        Operator: nareshj
Sample    : icv1123-1000                              Inst    : FID 5
Misc      : op42407,gyy1123,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Jul 05 09:51:32 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Thu Jul 05 09:50:40 2012
Response via : Initial Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-TERPHENYL	0.00	0	N.D.	PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 0.00%#				
Target Compounds				
2) H TPH (C10-C28)	6.51	151315324	1091.753	PPM
3) H TPH (C10-C22)	5.00	122358554	1086.736	PPM
4) H TPH (>C28-C40)	10.00	68898523	1066.132	PPM
5) H TPH (>C22-C36)	9.00	88742296	1102.530	PPM
6) H TPH (C8-C36)	8.00	217863696	2202.789	PPM
7) H TPH (C10-C40)	7.39	221413005	2183.294	PPM

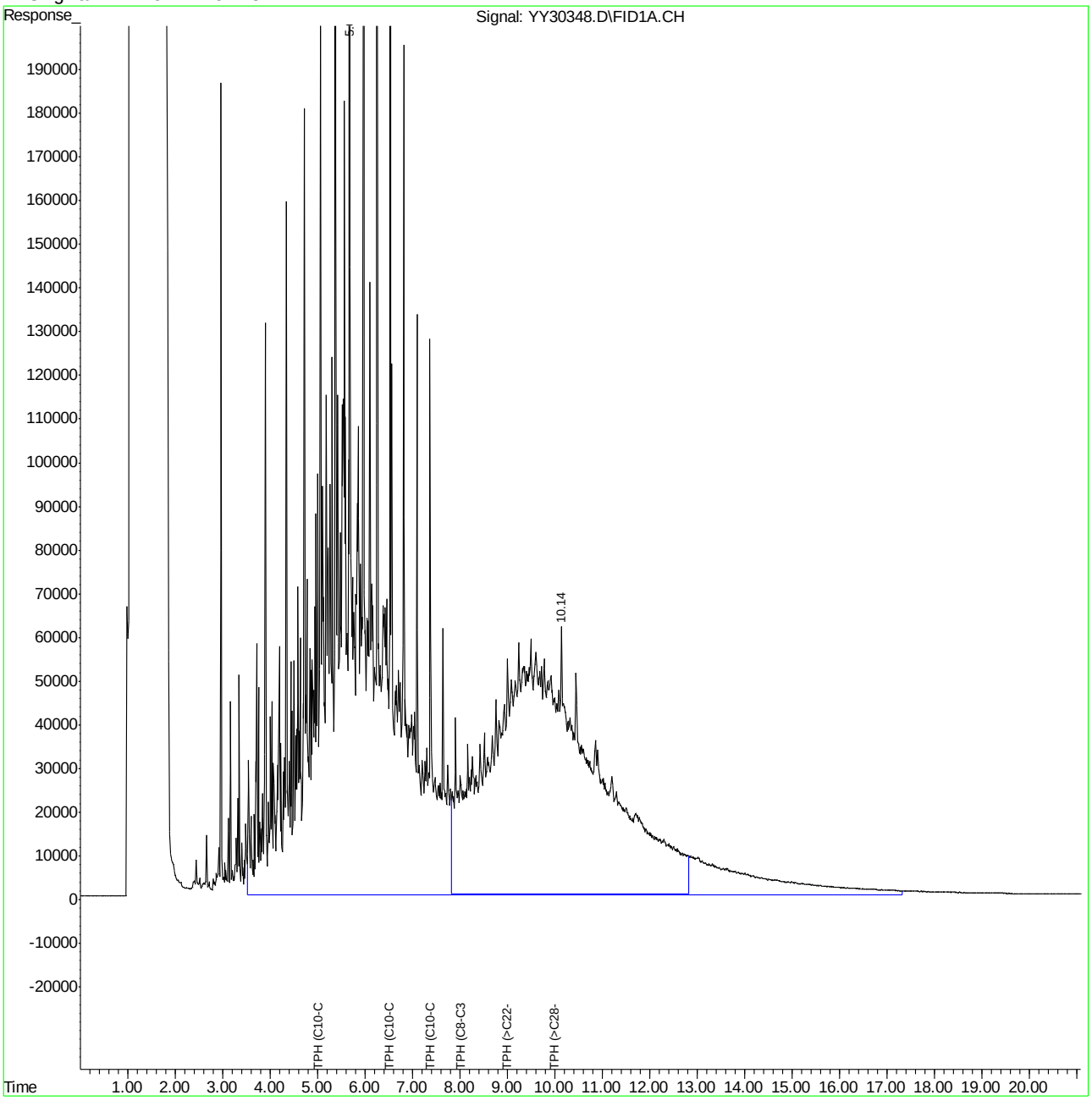
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0703TPH.S\YY30348.D Vial: 9
Acq On : 7-3-12 07:53:50 PM Operator: nareshj
Sample : icv1123-1000 Inst : FID 5
Misc : op42407,gyy1123,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Jul 5 9:54 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Thu Jul 05 09:50:40 2012
Response via : Multiple Level Calibration
DataAcq Meth : FAQR_TPX.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30920.D        Vial: 3
Acq On    : 03 Aug 2012  12:15 pm                     Operator: STEVE
Sample    : IC1143-100                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:34 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.83	560316	5.186 PPM m
Spiked Amount 50.000 Range 42 - 114 Recovery = 10.37%#			
Target Compounds			
2) H TPH (C10-C28)	6.51	14034582	101.261 PPM
3) H TPH (C10-C22)	5.00	11391991	101.179 PPM
4) H TPH (>C28-C40)	10.00	6082517	94.121 PPM
5) H TPH (>C22-C36)	9.00	7771128	96.548 PPM
6) H TPH (C8-C36)	8.00	19874351	200.947 PPM
7) H TPH (C10-C40)	7.39	20265103	199.829 PPM

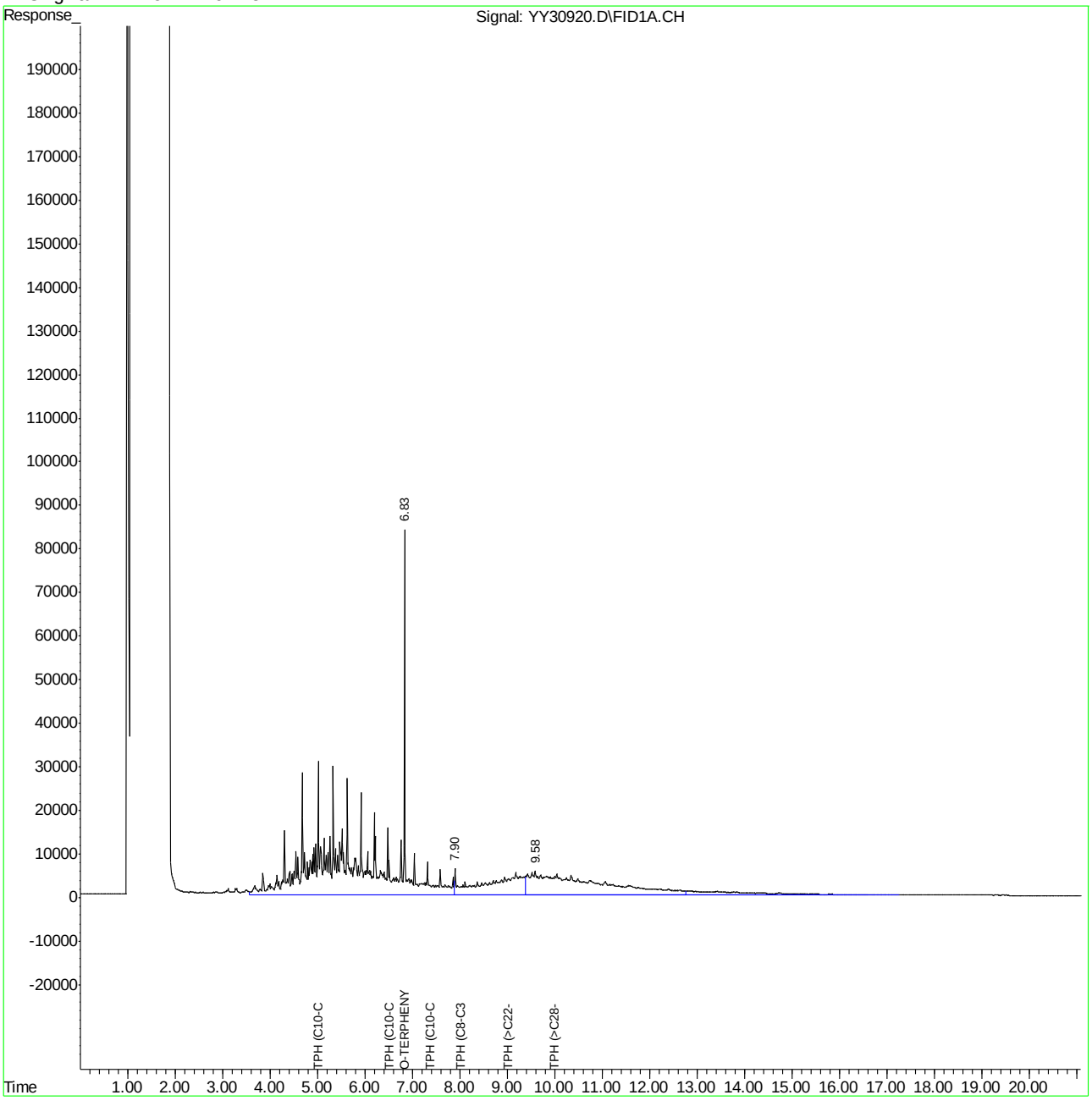
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30920.D FDRO_OIL.M Mon Aug 06 15:09:28 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30920.D Vial: 3
Acq On : 03 Aug 2012 12:15 pm Operator: STEVE
Sample : IC1143-100 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:26 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30920.D FDRO_OIL.M Mon Aug 06 15:09:29 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30920.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 12:15	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.83	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30921.D        Vial: 4
Acq On    : 03 Aug 2012  12:43 pm                     Operator: STEVE
Sample    : IC1143-250                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:38 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.83	1440327	13.330	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 26.66%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	34309756	247.548	PPM	
3) H TPH (C10-C22)	5.00	27672441	245.775	PPM	
4) H TPH (>C28-C40)	10.00	16365964	253.246	PPM	
5) H TPH (>C22-C36)	9.00	20488495	254.548	PPM	
6) H TPH (C8-C36)	8.00	49534002	500.831	PPM	
7) H TPH (C10-C40)	7.39	51684075	509.643	PPM	

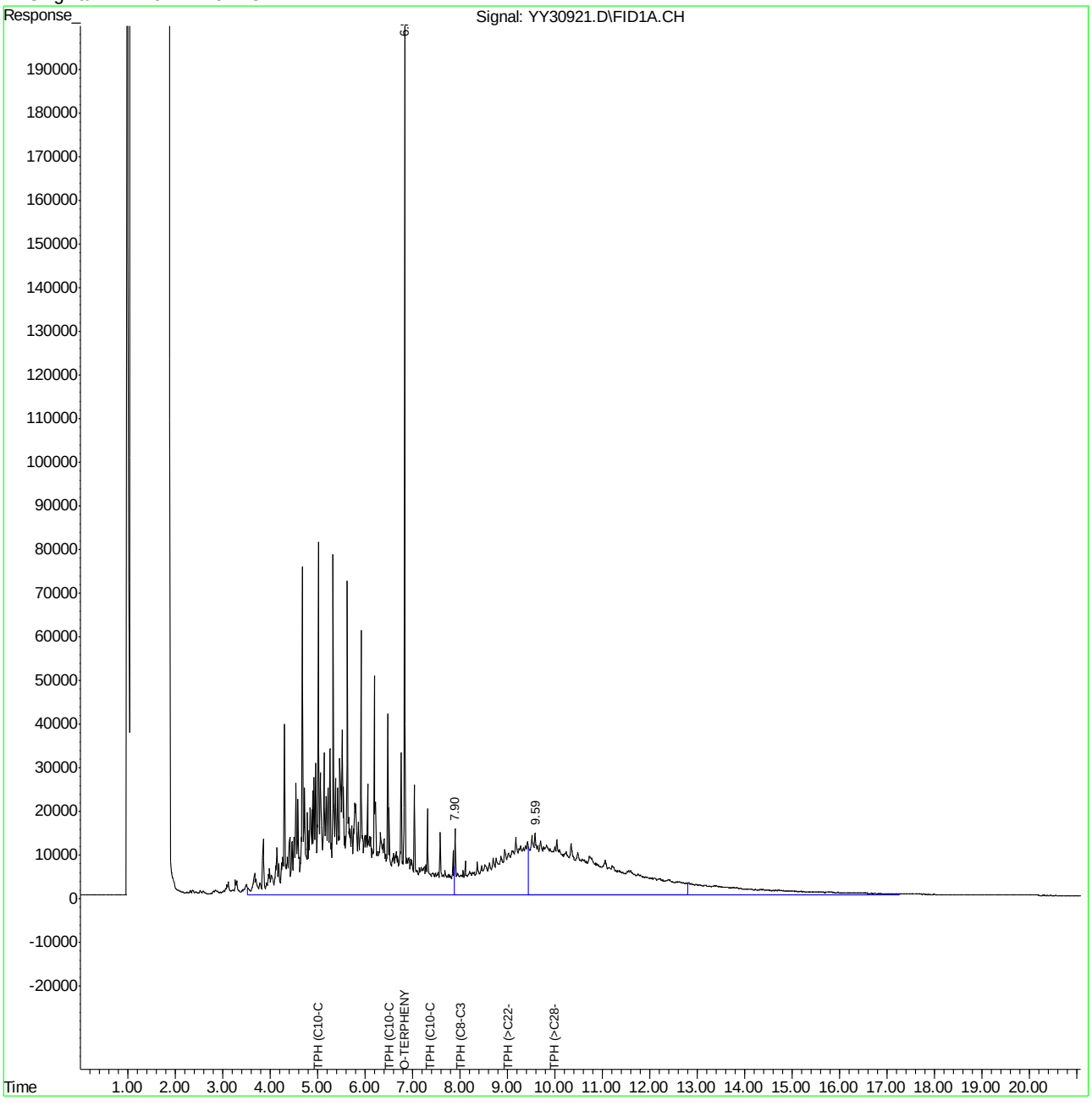
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30921.D FDRO_OIL.M Mon Aug 06 15:09:31 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30921.D Vial: 4
Acq On : 03 Aug 2012 12:43 pm Operator: STEVE
Sample : IC1143-250 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:35 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30921.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 12:43	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.83	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30922.D        Vial: 5
Acq On    : 8-3-12 01:12:03 PM                         Operator: STEVE
Sample    : IC1143-500                                 Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:35:29 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	2933835	27.152	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 54.30%					
Target Compounds					
2) H TPH (C10-C28)	6.51	69151682	498.935	PPM	
3) H TPH (C10-C22)	5.00	55432065	492.324	PPM	
4) H TPH (>C28-C40)	10.00	36424788	563.635	PPM	
5) H TPH (>C22-C36)	9.00	42709874	530.625	PPM	
6) H TPH (C8-C36)	8.00	101107951	1022.288	PPM	
7) H TPH (C10-C40)	7.39	107333866	1058.391	PPM	

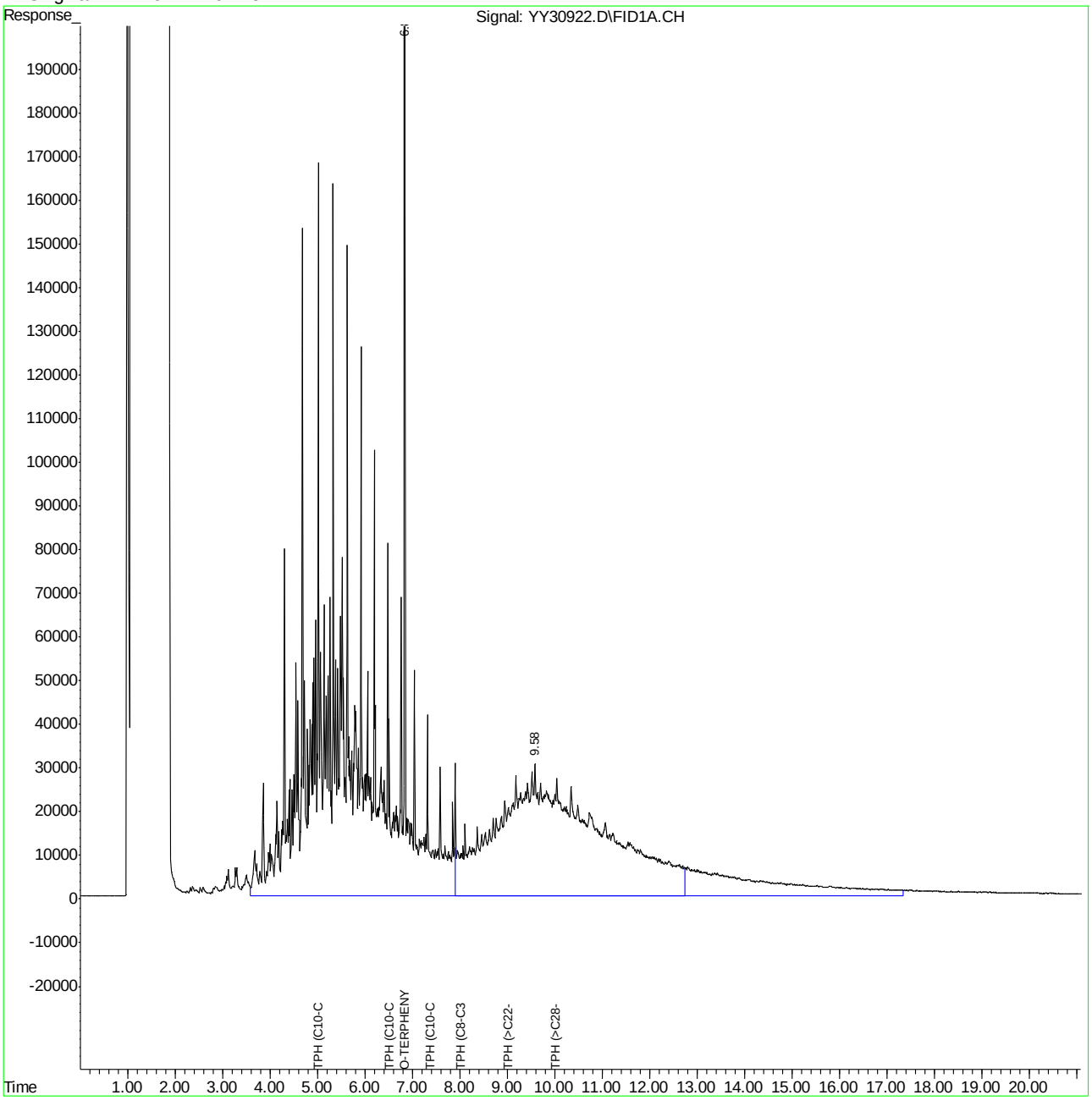
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30922.D Vial: 5
Acq On : 8-3-12 01:12:03 PM Operator: STEVE
Sample : IC1143-500 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:43 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30922.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 13:12	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30923.D        Vial: 6
Acq On    : 8-3-12 01:40:13 PM                         Operator: STEVE
Sample    : ICC1143-1000                               Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 14:28:05 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6067889	56.156	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 112.31%					
Target Compounds					
2) H TPH (C10-C28)	6.51	140955809	1017.008	PPM	
3) H TPH (C10-C22)	5.00	113345986	1006.691	PPM	
4) H TPH (>C28-C40)	10.00	78145522	1209.220	PPM	
5) H TPH (>C22-C36)	9.00	90177297	1120.358	PPM	
6) H TPH (C8-C36)	8.00	208515820	2108.274	PPM	
7) H TPH (C10-C40)	7.39	223248022	2201.389	PPM	

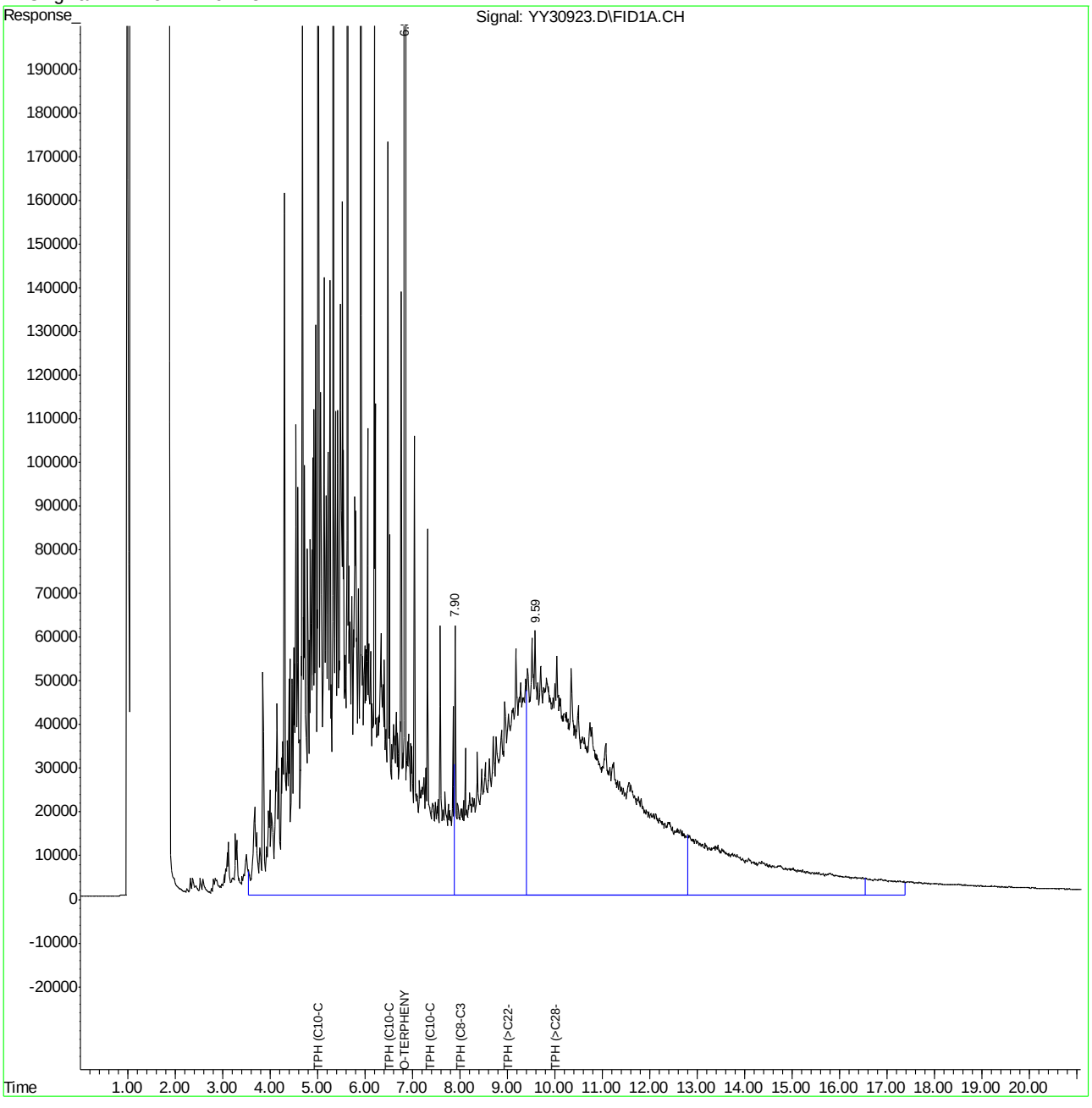
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30923.D FDRO_OIL.M Mon Aug 06 15:09:36 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30923.D Vial: 6
Acq On : 8-3-12 01:40:13 PM Operator: STEVE
Sample : ICC1143-1000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 14:31 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-ICC1143	**Method:**	SW846 8015C
Lab FileID:	YY30923.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 13:40	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30924.D        Vial: 7
Acq On    : 8-3-12 02:08:36 PM                         Operator: STEVE
Sample    : IC1143-1500                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:23:09 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	9001339	83.305	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 166.61%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	209211677	1509.480	PPM	
3) H TPH (C10-C22)	5.00	167898948	1491.207	PPM	
4) H TPH (>C28-C40)	10.00	117139404	1812.609	PPM	
5) H TPH (>C22-C36)	9.00	136832778	1700.004	PPM	
6) H TPH (C8-C36)	8.00	311750001	3152.060	PPM	
7) H TPH (C10-C40)	7.39	335039481	3303.735	PPM	

13.6.12 13

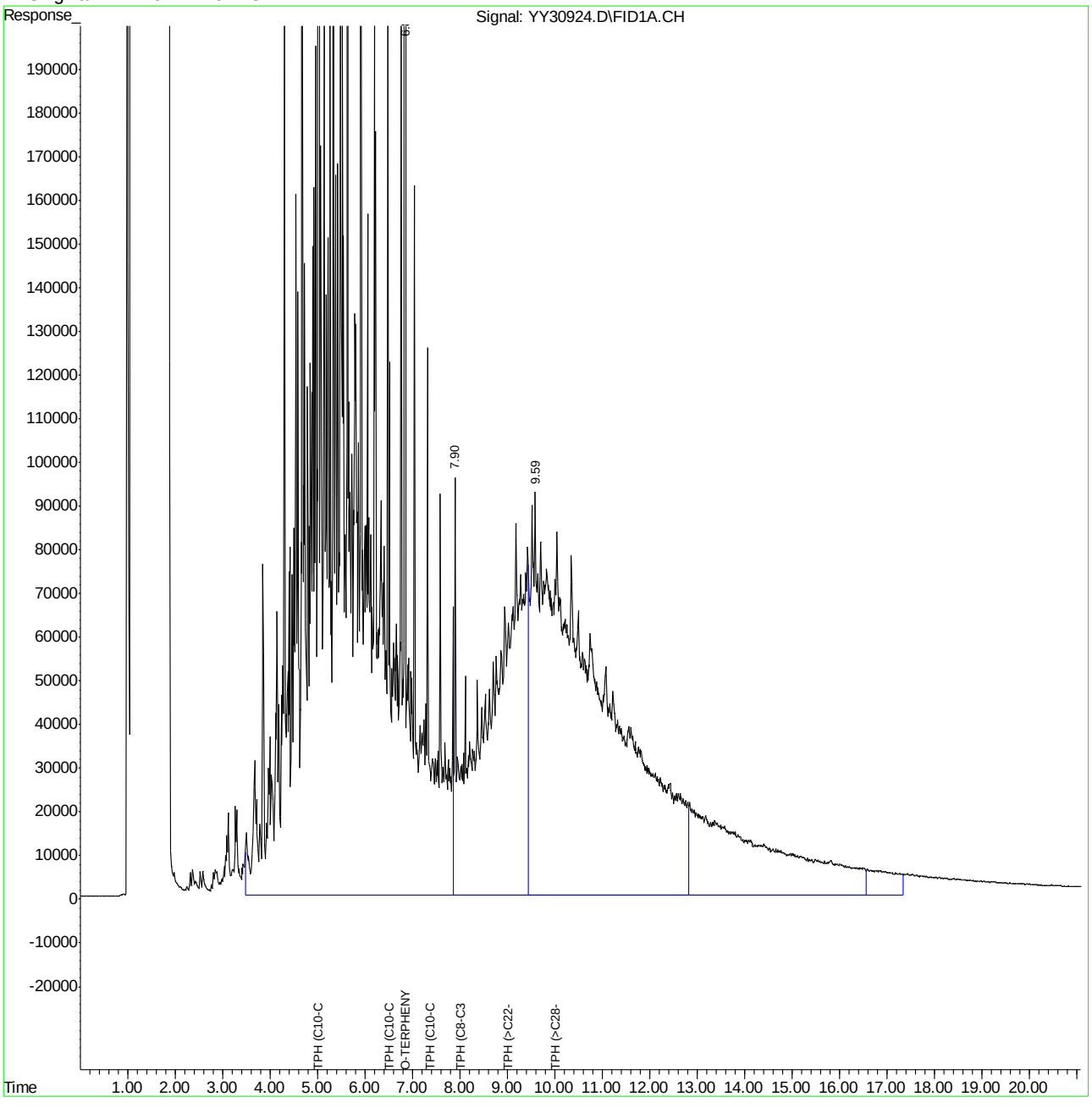
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30924.D FDRO_OIL.M Mon Aug 06 15:09:40 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30924.D Vial: 7
Acq On : 8-3-12 02:08:36 PM Operator: STEVE
Sample : IC1143-1500 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:25 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30924.D FDRO_OIL.M Mon Aug 06 15:09:41 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30924.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 14:08	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30925.D        Vial: 8
Acq On    : 8-3-12 02:36:48 PM                         Operator: STEVE
Sample    : IC1143-2000                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:26:14 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.85	12561020	116.248	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 232.50%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	292364638	2109.436	PPM	
3) H TPH (C10-C22)	5.00	235766997	2093.982	PPM	
4) H TPH (>C28-C40)	10.00	164116807	2539.534	PPM	
5) H TPH (>C22-C36)	9.00	192480417	2391.367	PPM	
6) H TPH (C8-C36)	8.00	435852614	4406.844	PPM	
7) H TPH (C10-C40)	7.39	466755900	4602.555	PPM	

13.6.13 13

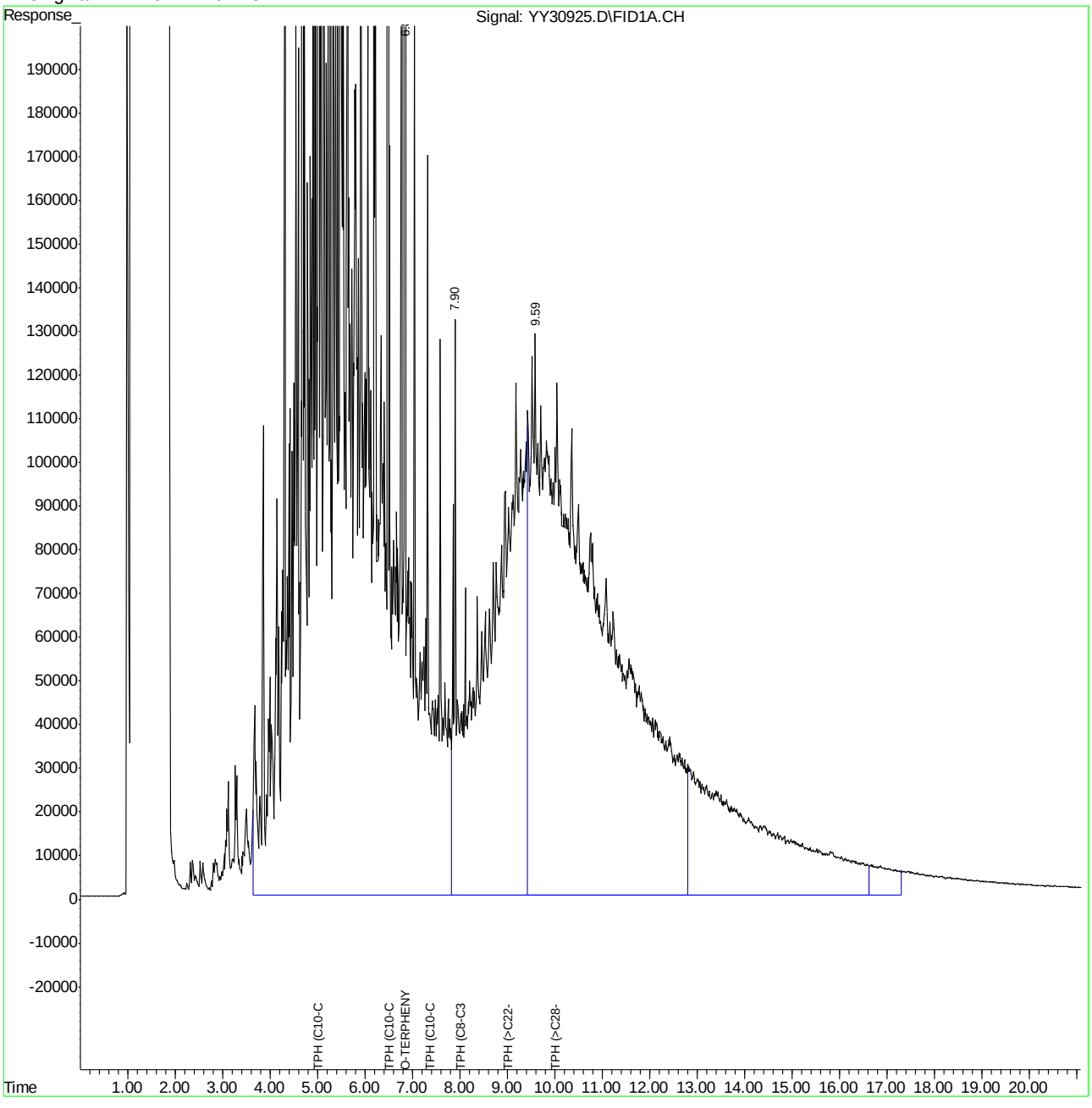
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30925.D FDRO_OIL.M Mon Aug 06 15:09:43 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30925.D Vial: 8
Acq On : 8-3-12 02:36:48 PM Operator: STEVE
Sample : IC1143-2000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:29 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30925.D FDRO_OIL.M Mon Aug 06 15:09:43 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30925.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 14:36	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.85	Poorly defined baseline

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D       Vial: 9
Acq On    : 8-3-12 03:05:00 PM                        Operator: STEVE
Sample    : ICV1143-1000                              Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:34:16 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-TERPHENYL	0.00	0	N.D.	PPM d
Spiked Amount 50.000 Range 42 - 114 Recovery = 0.00%#				
Target Compounds				
2) H TPH (C10-C28)	6.51	148570589	1058.068	PPM
3) H TPH (C10-C22)	5.00	117257690	1036.706	PPM
4) H TPH (>C28-C40)	10.00	75696126	1038.271	PPM
5) H TPH (>C22-C36)	9.00	92625630	1063.187	PPM
6) H TPH (C8-C36)	8.00	219157729	2132.281	PPM
7) H TPH (C10-C40)	7.39	228628283	2103.876	PPM

13.6.14

13

(f)=RT Delta > 1/2 Window (m)=manual int.

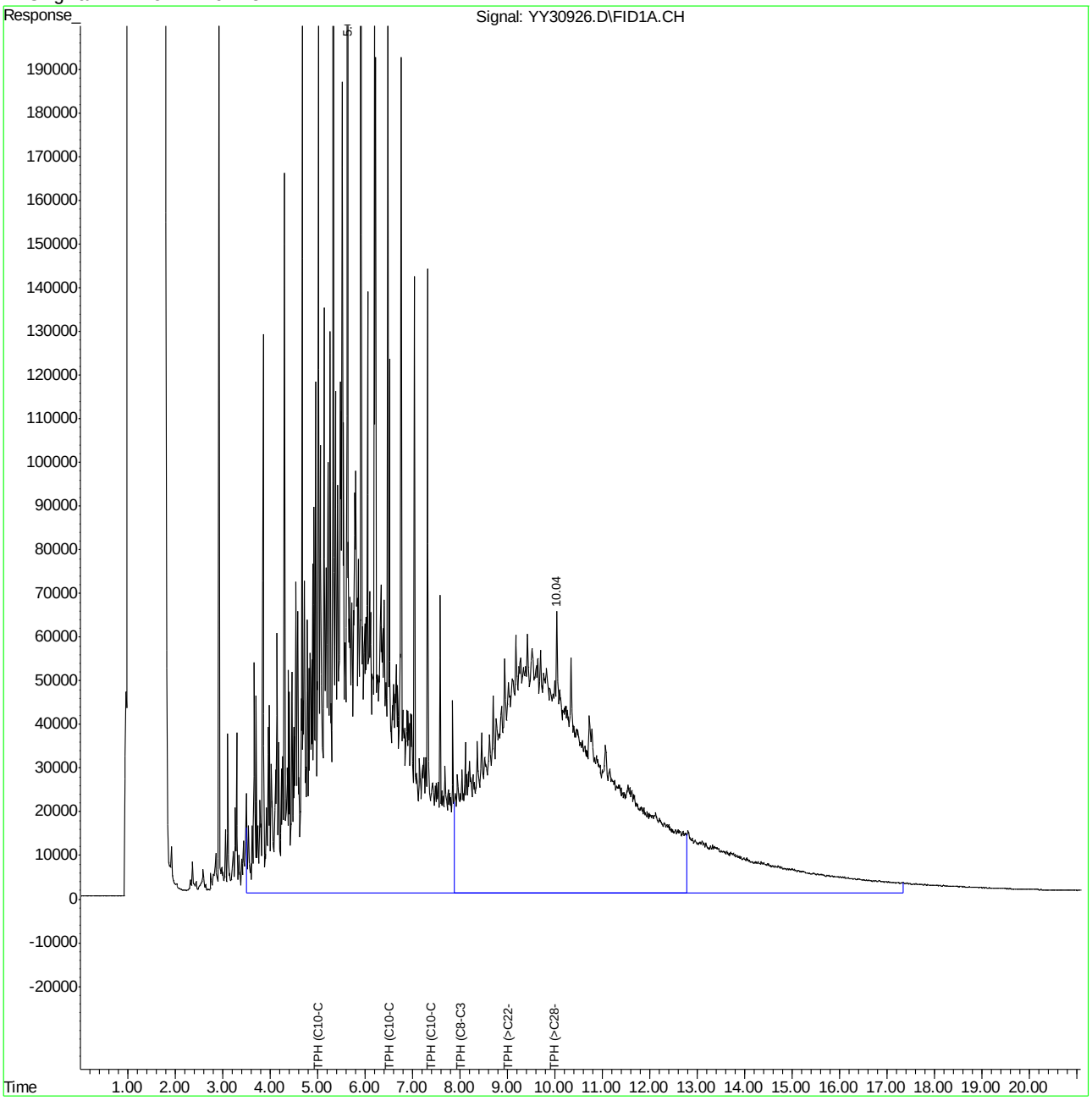
YY30926.D FDRO_OIL.M Mon Aug 06 15:09:45 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D Vial: 9
Acq On : 8-3-12 03:05:00 PM Operator: STEVE
Sample : ICV1143-1000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:37 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30940.D       Vial: 6
Acq On    : 03 Aug 2012  10:17 pm                    Operator: STEVE
Sample    : cc1143-1000                              Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:17:38 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6295805	53.082 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery = 106.16%	
Target Compounds			
2) H TPH (C10-C28)	6.51	146043629	1040.072 PPM
3) H TPH (C10-C22)	5.00	117086331	1035.191 PPM
4) H TPH (>C28-C40)	10.00	78863090	1081.711 PPM
5) H TPH (>C22-C36)	9.00	92180766	1058.081 PPM
6) H TPH (C8-C36)	8.00	216764713	2108.998 PPM
7) H TPH (C10-C40)	7.39	230117290	2117.578 PPM

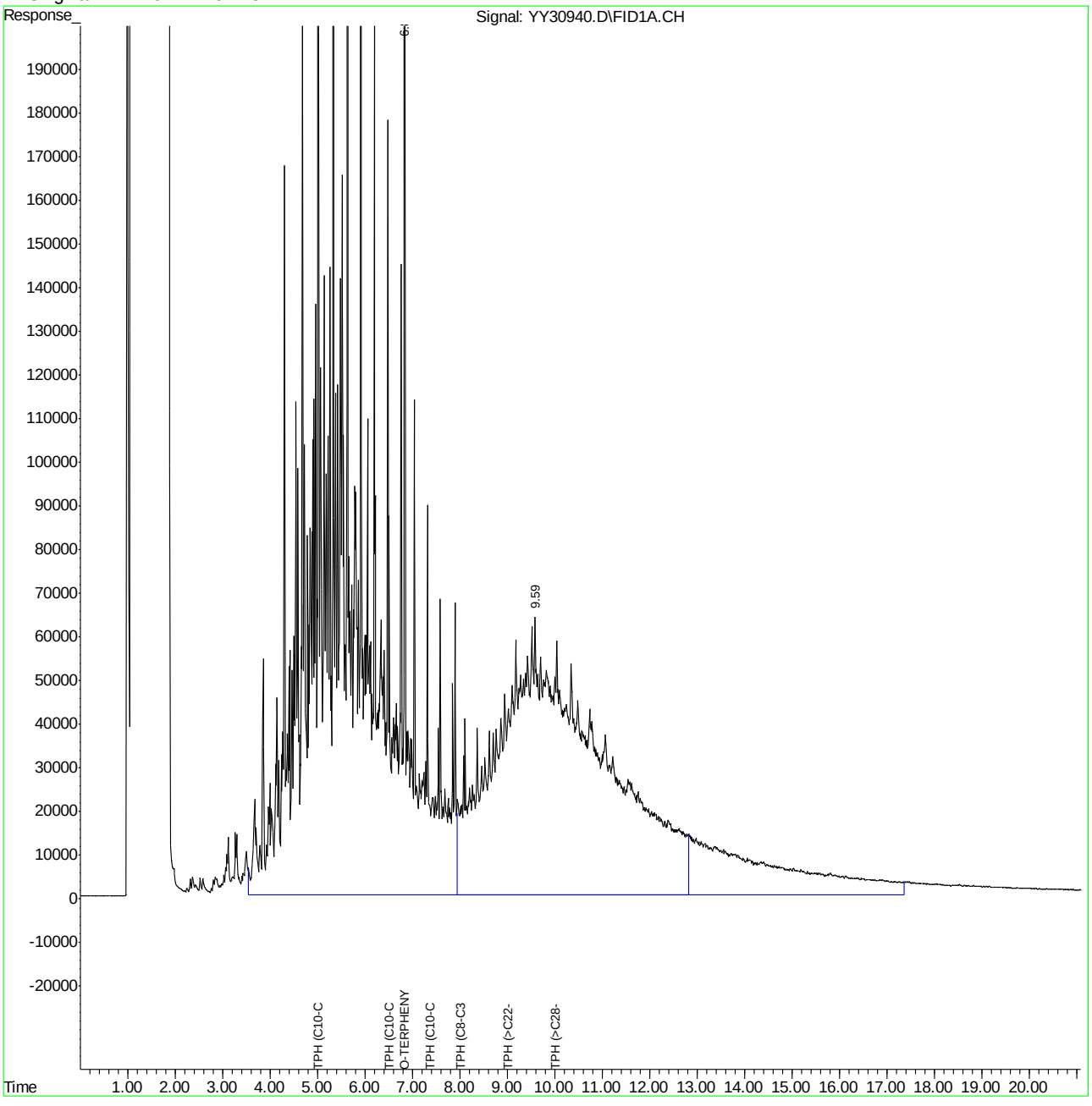
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30940.D Vial: 6
Acq On : 03 Aug 2012 10:17 pm Operator: STEVE
Sample : cc1143-1000 Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 14:49 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30947.D        Vial: 5
Acq On    : 8-4-12 01:33:11 AM                        Operator: STEVE
Sample    : ecc1143-500                               Inst    : FID 5
Misc      : op42817,gyY1143,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 07:18:06 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	3137271	26.451 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 52.90%			
Target Compounds			
2) H TPH (C10-C28)	6.51	73416514	522.847 PPM
3) H TPH (C10-C22)	5.00	58712999	519.097 PPM
4) H TPH (>C28-C40)	10.00	37500963	514.375 PPM
5) H TPH (>C22-C36)	9.00	44844573	514.741 PPM
6) H TPH (C8-C36)	8.00	106751432	1038.631 PPM
7) H TPH (C10-C40)	7.39	113127272	1041.016 PPM

13.6.16

13

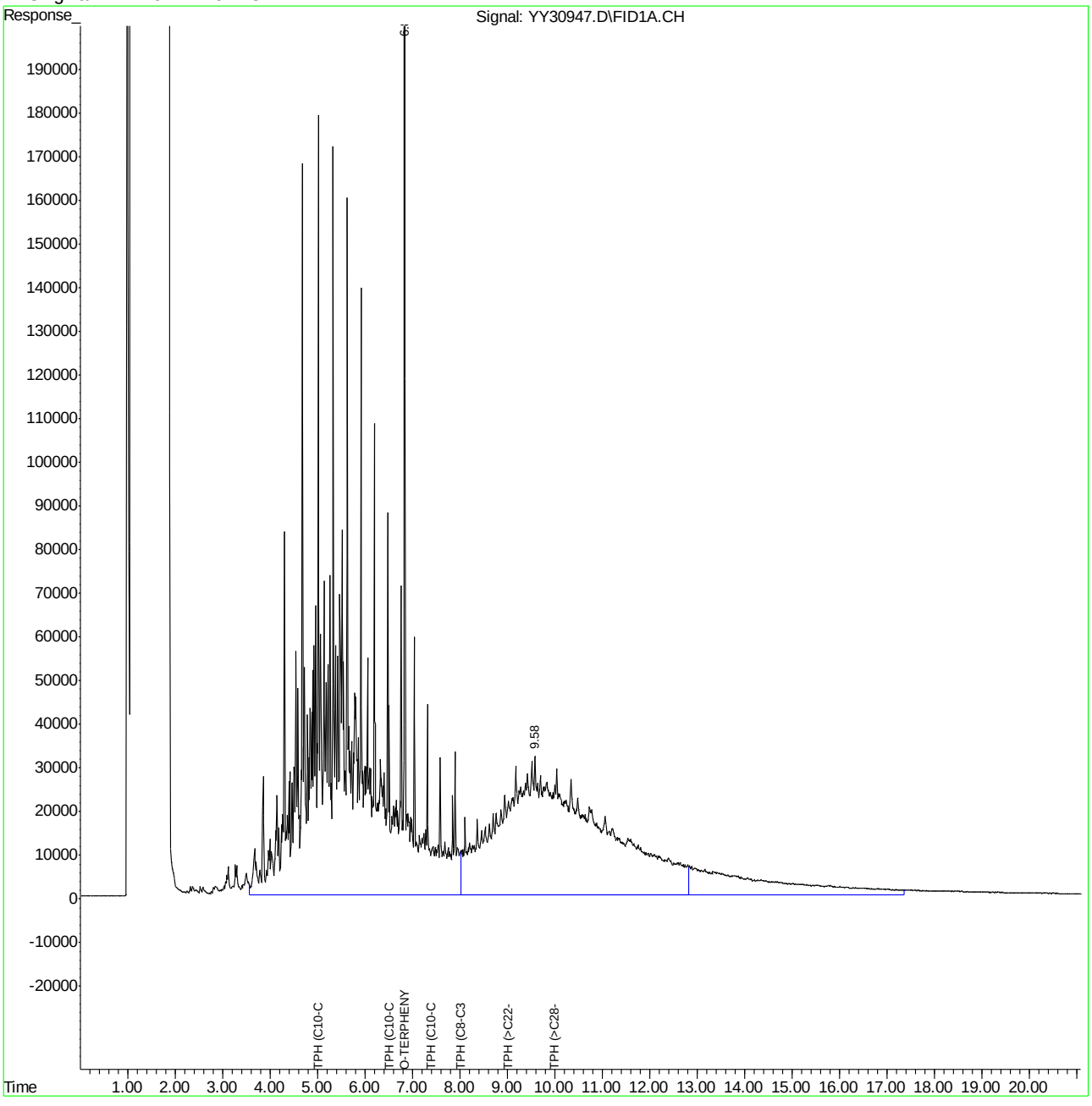
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30947.D Vial: 5
Acq On : 8-4-12 01:33:11 AM Operator: STEVE
Sample : ecc1143-500 Inst : FID 5
Misc : op42817,gyY1143,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 15:07 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30952.D       Vial: 3
Acq On    : 06 Aug 2012  10:02 am                    Operator: STEVE
Sample    : cc1123-1000                              Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 11:45:23 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6075015	51.221 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 102.44%			
Target Compounds			
2) H TPH (C10-C28)	6.51	138494898	986.313 PPM
3) H TPH (C10-C22)	5.00	112949899	998.620 PPM
4) H TPH (>C28-C40)	10.00	75591842	1036.841 PPM
5) H TPH (>C22-C36)	9.00	90172331	1035.027 PPM
6) H TPH (C8-C36)	8.00	208353117	2027.158 PPM
7) H TPH (C10-C40)	7.39	222647161	2048.836 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

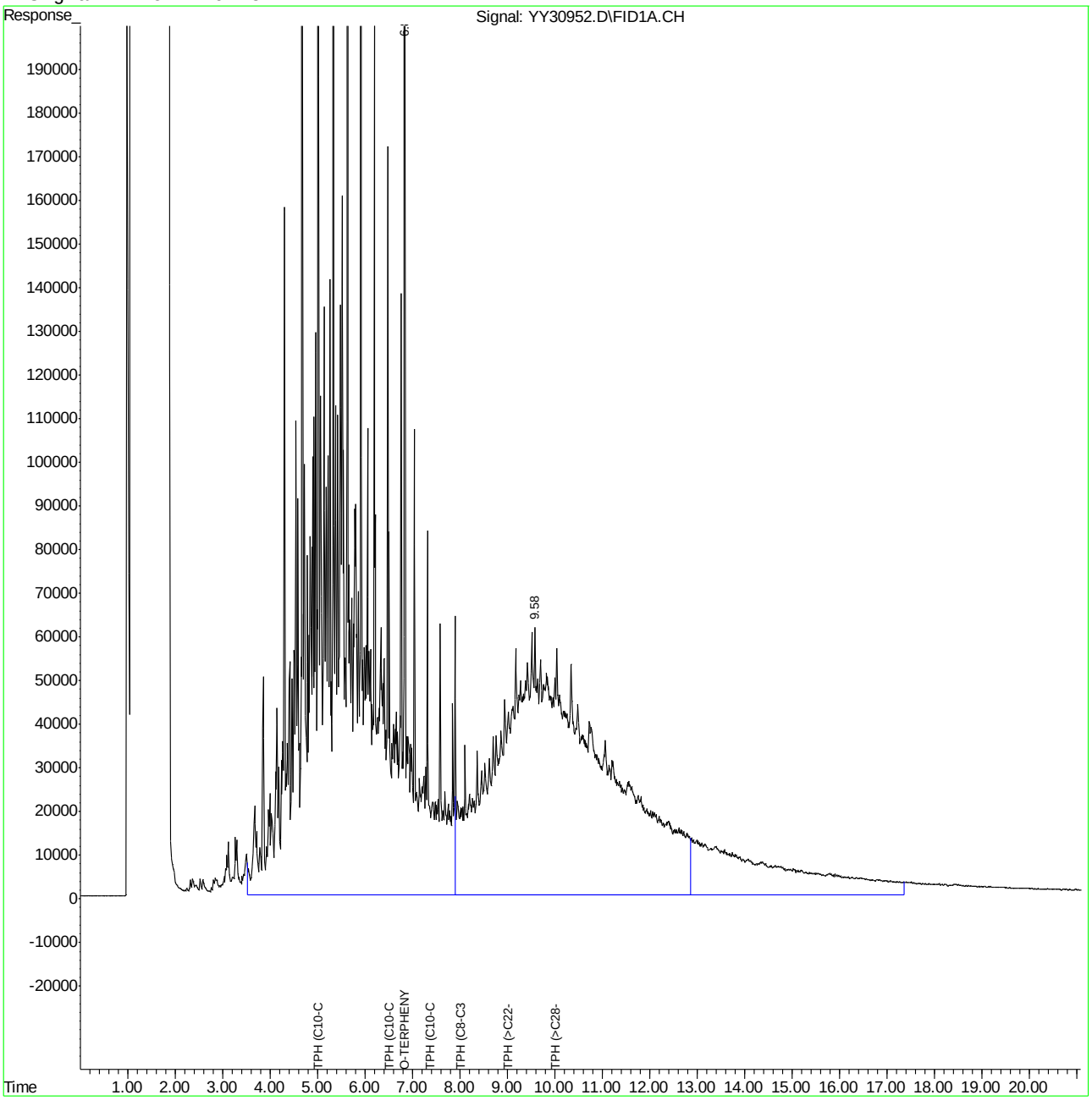
YY30952.D FDRO_OIL.M Tue Aug 07 08:29:18 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30952.D Vial: 3
Acq On : 06 Aug 2012 10:02 am Operator: STEVE
Sample : cc1123-1000 Inst : FID 5
Misc : op42817,gyy1144,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 11:52 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30956.D       Vial: 7
Acq On    : 06 Aug 2012  11:54 am                    Operator: STEVE
Sample    : ecc1123-500                              Inst    : FID 5
Misc      : op42817,gyy1144,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 06 16:17:33 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	2986626	25.181 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 50.36%			
Target Compounds			
2) H TPH (C10-C28)	6.51	68316888	486.529 PPM
3) H TPH (C10-C22)	5.00	55345598	489.325 PPM
4) H TPH (>C28-C40)	10.00	35953422	493.148 PPM
5) H TPH (>C22-C36)	9.00	44452027	510.235 PPM
6) H TPH (C8-C36)	8.00	101665028	989.143 PPM
7) H TPH (C10-C40)	7.39	107870016	992.638 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

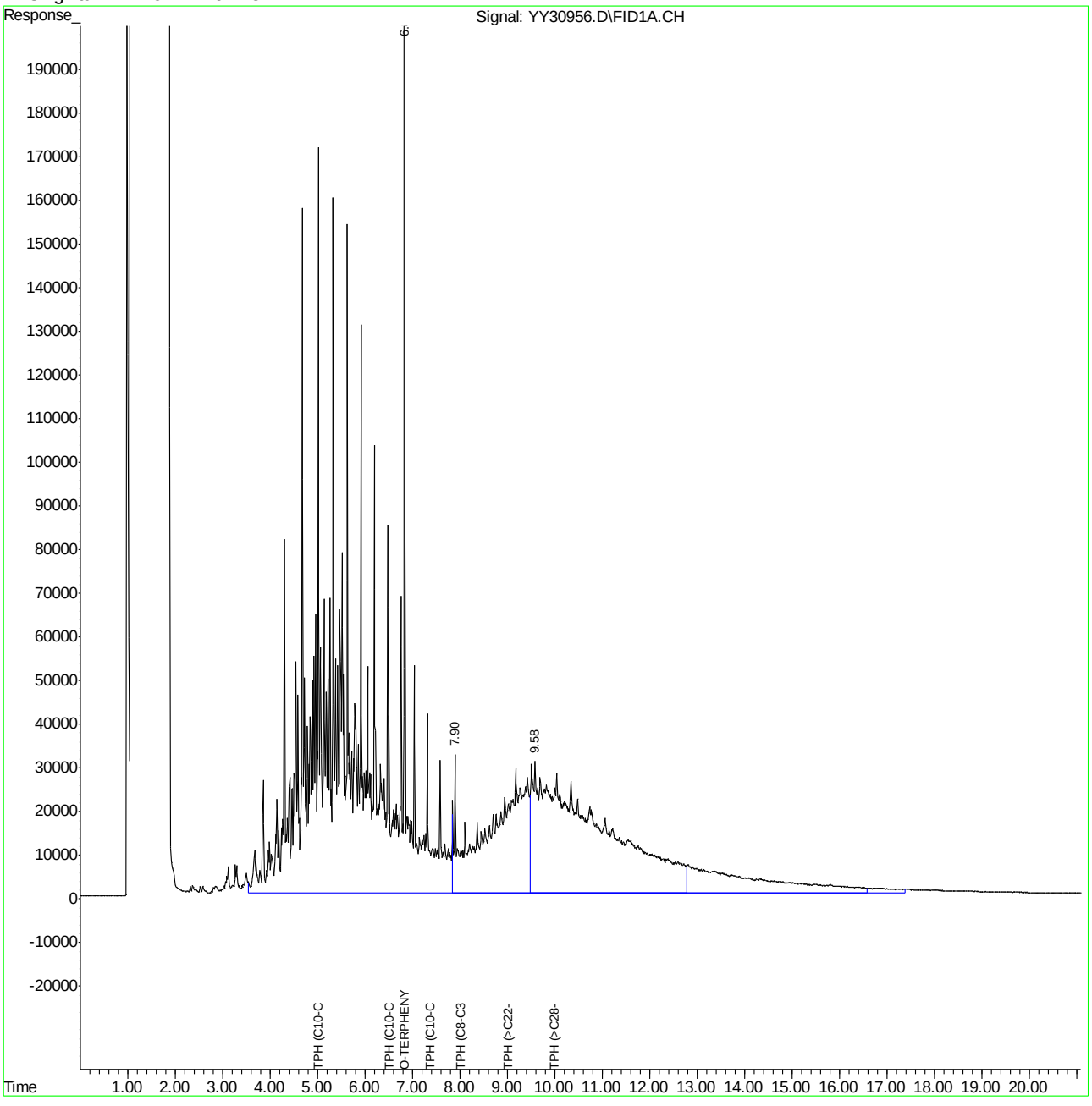
YY30956.D FDRO_OIL.M Tue Aug 07 08:57:40 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0806TPH2.S\YY30956.D Vial: 7
Acq On : 06 Aug 2012 11:54 am Operator: STEVE
Sample : ecc1123-500 Inst : FID 5
Misc : op42817,gyy1144,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 6 16:20 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30956.D FDRO_OIL.M Tue Aug 07 08:57:40 2012 Page 2

ACCUTEST LABORATORIES SE

DATE:	070312
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	FORR.TPX
PROC. METHOD:	FDRO01.M
CALIB. DATE:	070312
RUN BATCH: GYY	1123

ANALYST:	SJL / NJ
MECL2 LOT #:	K51583
SIGNAL 1 SURR. AREA/CONC:	5449153 / 500
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 90338	1	rt,C10-C40	ORO	4265	2.5		✓ pass
YY 39	2	cc1101.2000		4277	2X		DNR. cc fails low
YY 40	3	ccb		•	1X		recalibrate
YY 41	2	cc1101.2000		4277	2X		↓
YY 42	3	ic1123.100			20X	PII	✓calib. passed
YY 43	4	250			8X		
YY 44	5	✓ 500			4X		
YY 45	6	ic1123.1000			2X		
YY 46	7	ic1123.1500			3.4		
YY 47	8	✓ .2000		✓	1X	✓	✓
YY 48	9	icv1123.1000		E4011 ori E4091 DRO	200ml 200ml		✓ passed
YY ✓ 49	2	ccb	✓	•	1X		ND
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							

SJL 070512

① SJL 070512

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	080312
COLUMN TYPE:	DB5
AMOUNT INJECTED:	2 ul
INSTRUMENT: FID5-YY	

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	TPH1001
PROC. METHOD:	FDRO01.M
CALIB. DATE:	~~080312~~ 080312
RUN BATCH: GYY	1143

ANALYST:	SJL
MECL2 LOT #:	K51503
SIGNAL 1 SURR. AREA/CONC:	6067859/50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 30918	1	solvent	ORO	•	1X		DNR
YY 19	2	ch,C8-C40'		S42293	2.5		✓ pass
YY 20	3	IC1143. 100		S42289	20X	PII	✓ curve passes
YY 21	4	↓ • 250		↓	8X	↓	↓
YY 22	5	↓ • 500			4X		
YY 23	6	ICC1143 • 1000			2X		
YY 24	7	IC1143 • 1500			3.4		
YY 25	8	↓ • 2000		↓	1X	↓	↓
YY 26	9	ICV1143 • 1000		E4571 ol E4158 DRO	200 µl 200 µl		✓ pass
YY 27	1	ccb		•	1X		ND
YY 28	10	op42817.bs		42817	↓		✓
YY 29	11	↓ .mb		↓			ND
YY 30	12	f95178.1			↓		✓
YY 31	13	↓ • 2			5X		reran 1X
YY 32	14	↓ • 3			1X		✓
YY 33	15	op98817.ms			↓		✓
YY 34	16	↓ • msd					✓
YY 35	17	f95178.4					✓
YY 36	18	↓ • 5					✓
YY 37	19	↓ • 6	↓	↓	↓		✓

① SJL 080312

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	080312
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	TPH DUAL
PROC. METHOD:	FDRQal.m
CALIB. DATE:	① SJL 080312
RUN BATCH: GYY	1143

ANALYST:	SJL
MECL2 LOT #:	K515053
SIGNAL 1 SURR. AREA/CONC:	6067889 / 50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 00038	20	F95217.01	ORO	42517	1X		ND
YY 39	21	↓ .02	↓	↓	↓		ND
YY 40	6	CCI143.1000		84289	2X		✓ PASS
YY 41	1	CCD		•	1X		ND
YY 42	22	F95217.03		42517	↓		ND
YY 43	23	↓ .04	↓	↓	↓		✓
YY 44	24	.05					ND
YY 45	25	↓ .06					ND
YY 46	26	F95179.01		↓	↓		✓ PASS ①
YY 47	5	CCI143.500		84289	4X		✓ PASS
YY 48	1	blank		•	1X		DNR
YY ✓ 49	1	↓	✓	•	↓		↓
YY							
YY							
YY				SJL			
YY							
YY				080312			
YY							
YY							
YY							

① SJL 080612

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	080612
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	TDH.DUT
PROC. METHOD:	FDRO.01.m
CALIB. DATE:	080312
RUN BATCH: GYY	1144

ANALYST:	SJC
MECL2 LOT #:	K5 1588
SIGNAL 1 SURR. AREA/CONC:	601505150
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY30950	1	solventblank	ORO	•	1X		DNR
YY 51	2	rt,C10-C40		84388	2.5		✓ pass
YY 52	3	cc1123.1000		84289	2X		✓ pass
YY 53	4	ccb		•	1X		ND
YY 54	5	op42817.mb		42817			ND
YY 55	6	f95178.2		↓	✓		✓
YY 56	7	ccc1123.550	↓	84289	4X		✓ pass
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							
YY							

SJC 080712

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 07/26/12 11:05 (mm/dd/yy 24:00)

Prep Method: (3550C) 3580A or Method (circle)

Batch# OP 42817

Analytical Method: 8015DRO

Ext. By: KC, JR, AN Conc. By: AV Vialed By: AA Balance ID: NAV 3

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 42817 MB		30.0	0.5 ml		1.0 ml	
OP 42817 BS		30.0		0.5 ml 0.5 ml		
F95178-1	5	29.7				
-2	5	29.8				
-3	5	30.1				
-4	5	30.1				
-5	5	29.9				
-6	5	30.5				
F95179-1	5	30.1				
F95217-1	8	29.7				
-2	8	29.9				
-3	8	29.9				
-4	8	30.0				
-5	8	29.7				
-6	8	30.4				
		AA	07/26/12			
F95178-3 MS	5	30.2	0.5 ml	0.5 ml	1.0 ml	
-3 MSD	5	30.4				
DUP						

Comments:

Surr. ID: E4130J Conc: 100 ppm Exp. Date: 01/06/13 Inj. By: [illegible] Ver. By: [illegible]

Spk. ID: E4135 Conc: 2000 ppm Exp. Date: 01/11/13 Inj. By: [illegible] Ver. By: JC

E4134 2000 ppm 01/09/13

Initial Bath Temp (Therm ID): JV-6

Observed Temp °C: 40 Corr. Temp °C: 40

Exchange Bath/N-Evap Temp (Therm ID): —

Observed Temp °C: Corr. Temp °C: —

CH2CL2 Lot #: K35501 Hexane Lot #: — Na2SO4 Lot#: SS1590

Acetonitrile Lot #: — Methanol Lot #: — Acetone Lot#: —

Syringe Filter Lot#: — Reagent #: — Reagent #: Silica Gel 030552

Copper Lot #: — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: AA Date: 07/26/2012

Accepted By: [signature] Date: 07/26/12

NF rev. 08/11 extsolid 081911.xls

13.8.1 13

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
Analyst: JL
Parameters: Hg

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:21	MA10000-STD1	1		STD1
12:22	MA10000-STD2	1		STD2
12:24	MA10000-STD3	1		STD3
12:25	MA10000-STD4	1		STD4
12:27	MA10000-STD5	1		STD5
12:29	MA10000-STD6	1		STD6
12:31	MA10000-HSTD1	1		
12:33	MA10000-ICV1	1		
12:36	MA10000-ICB1	1		
12:38	MA10000-CRI1	1		
12:39	MA10000-CCV1	1		
12:40	MA10000-CCB1	1		
12:43	MP23332-MB1	1		
12:44	MP23332-B1	1		
12:45	F95217-1	1		
12:47	MP23332-D1	1		
12:48	MP23332-SD1	5		
12:50	MP23332-S1	1		
12:51	MP23332-S2	1		
12:53	F95217-2	1		
12:55	F95217-3	1		
12:56	F95217-4	1		
12:58	MA10000-CCV2	1		
12:59	MA10000-CCB2	1		
13:01	F95217-5	1		
13:02	F95217-6	1		
----------> Last reportable sample/prep for job F95217				
13:04	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
Analyst: JL
Parameters: Hg

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:13	ZZZZZZ	1		
13:14	MA10000-CCV3	1		
13:15	MA10000-CCB3	1		
13:17	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:25	MA10000-CRI2	1		
13:26	MA10000-CCV4	1		
13:28	MA10000-CCB4	1		

----------> Last reportable CCB for job F95217
Refer to raw data for calibration curve and standards.

14.1
14

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: result < RL

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:			12:36		12:40		12:59		13:15	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.04	-0.023	<1.0	-0.021	<1.0	-0.024	<1.0	-0.026	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA10000 Units: ug/l

Time:			13:28	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Mercury	1.0	.04	-0.024	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA10000 Units: ug/l

Time:		12:33			12:39			12:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA10000 Units: ug/l

Time:		13:14			13:26	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: 95 to 105 % Recovery

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:		12:31	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6.0	6.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: 80 to 120 % Recovery

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:			12:38		13:25	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.20	100.0	0.19	95.0

(*) Outside of QC limits
(anr) Analyte not requested

14.1.4

14

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:13	MA9995-STD1	1		STDA
05:17	MA9995-STD2	1		STDB
05:20	MA9995-STD3	1		STDC
05:23	MA9995-STD4	1		STDD
05:27	MA9995-HSTD1	1		
05:31	MA9995-ICV1	1		
05:36	MA9995-ICB1	1		
05:40	MA9995-CRIA1	1		
05:48	MA9995-ICSA1	1		
05:53	MA9995-ICSAB1	1		
05:57	MA9995-CCV1	1		
06:02	MA9995-CCB1	1		
06:06	MP23311-MB1	1		
06:11	MP23311-B1	1		
06:15	F95217-1	10		
06:19	MP23311-D1	10		
06:24	MP23311-SD1	50		
06:28	MP23311-PS1	10		
06:32	MP23311-S1	10		
06:37	MP23311-S2	10		
06:41	F95217-2	10		
06:46	F95217-3	10		
06:50	MA9995-CCV2	1		
06:54	MA9995-CCB2	1		
07:14	MA9995-CCV3	1		
07:18	MA9995-CCB3	1		
07:21	F95217-4	10		
07:26	F95217-5	10		
07:30	F95217-6	10		
---------->	Last reportable sample/prep for job F95217			
07:35	ZZZZZZ	10		
07:40	ZZZZZZ	10		
07:44	ZZZZZZ	10		
07:49	ZZZZZZ	10		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:53	ZZZZZZ	10		
07:58	ZZZZZZ	10		
08:02	MP23310-MB1	1		
08:07	MA9995-CCV4	1		
08:11	MA9995-CCB4	1		
08:15	MP23310-B1	1		
08:19	F95220-1	1		(sample used for QC only; not part of login F95217)
08:24	MP23310-D1	1		
08:29	MP23310-SD1	5		
08:33	MP23310-PS1	1		
08:38	MP23310-S1	1		
08:43	MP23310-S2	1		
08:48	ZZZZZZ	1		
08:57	ZZZZZZ	1		
09:02	MA9995-CCV5	1		
09:06	MA9995-CCB5	1		
09:15	ZZZZZZ	1		
09:19	ZZZZZZ	1		
09:24	ZZZZZZ	1		
09:29	ZZZZZZ	1		
09:33	ZZZZZZ	1		
09:38	ZZZZZZ	1		
09:42	ZZZZZZ	1		
09:47	ZZZZZZ	1		
09:51	MP23300-MB1	1		
09:56	MA9995-CCV6	1		
10:00	MA9995-CCB6	1		
10:04	MP23300-B1	1		
10:08	F95207-1	100		(sample used for QC only; not part of login F95217)
10:13	MP23300-D1	100		
10:17	MP23300-S1	100		
10:22	MP23300-S2	100		
10:27	MP23300-PS1	100		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:31	MP23300-SD1	500		
10:36	ZZZZZZ	100		
10:40	ZZZZZZ	100		
10:45	ZZZZZZ	2		
10:49	MA9995-CCV7	1		
10:54	MA9995-CCB7	1		
10:58	ZZZZZZ	2		
11:03	ZZZZZZ	100		
11:07	ZZZZZZ	100		
11:12	F95192-1	2		(sample used for QC only; not part of login F95217)
11:16	MP23299-D1	2		
11:21	MP23299-S1	2		
11:25	MP23299-S2	2		
11:30	MP23299-PS1	2		
11:34	MP23299-SD1	10		
11:39	ZZZZZZ	5		
11:43	MA9995-CCV8	1		
11:47	MA9995-CCB8	1		
11:52	MP23312-MB1	1		
11:56	MP23312-B1	1		
12:00	F95294-1	1		(sample used for QC only; not part of login F95217)
12:05	MP23312-D1	1		
12:09	MP23312-SD1	5		
12:13	MP23312-PS1	1		
12:18	MP23312-S1	1		
12:22	MP23312-S2	1		
12:26	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:35	MA9995-CCV9	1		
12:39	MA9995-CCB9	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:31	MA9995-CCV10	1		
13:35	MA9995-CCB10	1		
13:40	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:13	MP23312-MB2A	1		
14:27	MA9995-CCV11	1		
14:33	MA9995-CCB11	1		
14:37	MA9995-CRIA2	1		
14:44	MA9995-ICSA2	1		
14:51	MA9995-ICSAB2	1		
14:59	MA9995-CCV12	1		
15:10	MA9995-CCB12	1		

----------> Last reportable CCB for job F95217
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:13	MA9995-STD1	2707	22083	9140	1495
05:17	MA9995-STD2	2668	21610	9080	1371
05:20	MA9995-STD3	2521	20544	8840	1204
05:23	MA9995-STD4	2456	20179	8811	1112
05:27	MA9995-HSTD1	2456	20307	8907	1114
05:31	MA9995-ICV1	2561	20751	8988	1218
05:36	MA9995-ICB1	2668 R	21305 R	8964 R	1455 R
05:40	MA9995-CRIA1	2603	20790	8838	1368
05:48	MA9995-ICSA1	2318	18337	8345	978
05:53	MA9995-ICSAB1	2324	18302	8486	967
05:57	MA9995-CCV1	2534	20215	8816	1190
06:02	MA9995-CCB1	2664	21077	8833	1444
06:06	MP23311-MB1	2594	20627	8679	1406
06:11	MP23311-B1	2507	19869	8513	1232
06:15	F95217-1	2578	20314	8846	1160
06:19	MP23311-D1	2624	20764	9127	1188
06:24	MP23311-SD1	2594	20473	8661	1305
06:28	MP23311-PS1	2574	20227	8728	1158
06:32	MP23311-S1	2573	20274	8796	1158
06:37	MP23311-S2	2577	20447	8917	1156
06:41	F95217-2	2573	20273	8805	1165
06:46	F95217-3	2576	20241	8813	1162
06:50	MA9995-CCV2	2451	19367	8343	1157
06:54	MA9995-CCB2	2641	20820	8661	1436
07:14	MA9995-CCV3	2498	19649	8421	1173
07:18	MA9995-CCB3	2682	21085	8714	1450
07:21	F95217-4	2422	19264	8407	1134
07:26	F95217-5	2388	18984	8396	1127
07:30	F95217-6	2534	19981	8710	1170
07:35	ZZZZZZ	2462	19349	8465	1153
07:40	ZZZZZZ	2423	19134	8396	1126
07:44	ZZZZZZ	2469	19540	8518	1177
07:49	ZZZZZZ	2497	19724	8620	1153

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:53	ZZZZZZ	2512	19718	8581	1178
07:58	ZZZZZZ	2429	19276	8343	1147
08:02	MP23310-MB1	2501	19880	8290	1351
08:07	MA9995-CCV4	2501	19806	8470	1171
08:11	MA9995-CCB4	2642	20702	8651	1425
08:15	MP23310-B1	2417	18933	8145	1180
08:19	F95220-1	4306 !	32923 !	14112 !	982
08:24	MP23310-D1	4345 !	33534 !	14391 !	993
08:29	MP23310-SD1	3063	23655	9965	1263
08:33	MP23310-PS1	4246 !	32580 !	13972 !	966
08:38	MP23310-S1	4347 !	33455 !	14238 !	972
08:43	MP23310-S2	4422 !	33955 !	14751 !	940
08:48	ZZZZZZ	5093 !	39286 !	16845 !	1010
08:57	ZZZZZZ	3907 !	29458 !	12615 !	991
09:02	MA9995-CCV5	2533	19863	8463	1185
09:06	MA9995-CCB5	2657	20792	8603	1433
09:15	ZZZZZZ	2658	19741	8760	880
09:19	ZZZZZZ	7215 !	54826 !	23913 !	996
09:24	ZZZZZZ	2913	22649	9697	1080
09:29	ZZZZZZ	2840	21501	9136	1166
09:33	ZZZZZZ	4404 !	34203 !	14508 !	963
09:38	ZZZZZZ	8973 !	71004 !	30559 !	996
09:42	ZZZZZZ	3262	24998	10622	1084
09:47	ZZZZZZ	2734	21355	9055	1077
09:51	MP23300-MB1	2676	20942	8634	1440
09:56	MA9995-CCV6	2503	19620	8239	1171
10:00	MA9995-CCB6	2656	20932	8620	1433
10:04	MP23300-B1	2537	19993	8493	1236
10:08	F95207-1	2509	19330	8298	1243
10:13	MP23300-D1	2504	19251	8268	1235
10:17	MP23300-S1	2505	19293	8233	1236
10:22	MP23300-S2	2513	19436	8464	1235
10:27	MP23300-PS1	2509	19346	8368	1237

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:31	MP23300-SD1	2569	19908	8388	1327
10:36	ZZZZZZ	2500	19224	8267	1235
10:40	ZZZZZZ	2495	19152	8174	1234
10:45	ZZZZZZ	2136	16708	7784	960
10:49	MA9995-CCV7	2492	19656	8500	1161
10:54	MA9995-CCB7	2637	20485	8551	1416
10:58	ZZZZZZ	2194	17120	7891	1004
11:03	ZZZZZZ	2478	19132	8224	1225
11:07	ZZZZZZ	2477	19252	8252	1229
11:12	F95192-1	2517	19553	8547	1095
11:16	MP23299-D1	2578	20068	8735	1151
11:21	MP23299-S1	2547	19844	8569	1133
11:25	MP23299-S2	2511	19385	8363	1094
11:30	MP23299-PS1	2538	19676	8534	1102
11:34	MP23299-SD1	2597	20145	8387	1280
11:39	ZZZZZZ	2928	22828	9479	1308
11:43	MA9995-CCV8	2483	19589	8320	1160
11:47	MA9995-CCB8	2608	20613	8425	1415
11:52	MP23312-MB1	2596	20641	8524	1409
11:56	MP23312-B1	2511	19982	8524	1226
12:00	F95294-1	2405	19163	8311	1193
12:05	MP23312-D1	2397	19096	8195	1191
12:09	MP23312-SD1	2537	20240	8414	1328
12:13	MP23312-PS1	2405	19249	8394	1177
12:18	MP23312-S1	2404	19201	8296	1123
12:22	MP23312-S2	2389	19095	8180	1119
12:26	ZZZZZZ	2459	19678	8321	1246
12:31	ZZZZZZ	2460	19882	8454	1247
12:35	MA9995-CCV9	2444	19663	8330	1154
12:39	MA9995-CCB9	2591	20719	8479	1413
12:44	ZZZZZZ	2494	20025	8388	1319
12:48	ZZZZZZ	2383	19167	8245	1197
12:52	ZZZZZZ	1938	15593	7550	853 !

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:57	ZZZZZZ	2025	16260	7964	910
13:02	ZZZZZZ	1760	14036	7089	742 !
13:07	ZZZZZZ	1749	14096	7221	739 !
13:12	ZZZZZZ	1788	14516	7424	774 !
13:16	ZZZZZZ	1816	14821	7468	792 !
13:21	ZZZZZZ	1895	15642	7627	843 !
13:26	ZZZZZZ	2040	16833	7902	936
13:31	MA9995-CCV10	2389	19718	8578	1147
13:35	MA9995-CCB10	2528	20682	8738	1395
13:40	ZZZZZZ	2036	16801	7850	940
14:04	ZZZZZZ	1855	15557	7784	835 !
14:08	ZZZZZZ	1997	16749	8047	922
14:13	MP23312-MB2A	2462	20527	8679	1365
14:27	MA9995-CCV11	2332	19270	8456	1121
14:33	MA9995-CCB11	2478	20227	8603	1370
14:37	MA9995-CRIA2	2440	19939	8557	1302
14:44	MA9995-ICSA2	2121	17300	7986	910
14:51	MA9995-ICSAB2	2133	17457	8018	906
14:59	MA9995-CCV12	2325	19146	8296	1123
15:10	MA9995-CCB12	2478	20490	8737	1377

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			05:36		06:02		06:54		07:18	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	3.7	<200	8.5	<200	11.3	<200	4.8	<200
Antimony	6.0	1	0.20	<6.0	-0.70	<6.0	-0.80	<6.0	1.4	<6.0
Arsenic	10	1	0.70	<10	1.5	<10	1.0	<10	1.1	<10
Barium	200	1	-0.10	<200	0.20	<200	0.20	<200	0.20	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.20	<4.0	0.20	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	1.4	<1000	8.6	<1000	12.3	<1000	4.2	<1000
Chromium	10	1	0.0	<10	0.0	<10	0.30	<10	-0.30	<10
Cobalt	50	1	-0.10	<50	0.0	<50	0.0	<50	0.10	<50
Copper	25	1	0.30	<25	0.70	<25	0.80	<25	-0.10	<25
Iron	300	34	1.7	<300	10.7	<300	6.7	<300	17.7	<300
Lead	5.0	1	0.0	<5.0	-0.10	<5.0	-0.50	<5.0	0.70	<5.0
Magnesium	5000	50	13.1	<5000	23.2	<5000	12.6	<5000	-14	<5000
Manganese	15	1	0.10	<15	0.20	<15	0.30	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	0.20	<40	0.40	<40	0.10	<40	0.30	<40
Potassium	10000	50	16.0	<10000	-3.0	<10000	8.3	<10000	31.3	<10000
Selenium	10	2	-0.30	<10	-1.8	<10	1.3	<10	1.0	<10
Silver	10	1	-0.40	<10	-0.20	<10	-0.20	<10	-0.50	<10
Sodium	10000	750	3.1	<10000	18.1	<10000	29.2	<10000	31.1	<10000
Strontium	10	1								
Thallium	10	1	-0.60	<10	0.20	<10	0.0	<10	2.5	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.10	<50	0.40	<50	0.20	<50
Zinc	20	1	-0.10	<20	0.30	<20	0.40	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			08:11		09:06		10:00		10:54	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-1.5	<200	11.3	<200	11.6	<200	7.2	<200
Antimony	6.0	1	-0.20	<6.0	0.0	<6.0	1.2	<6.0	0.0	<6.0
Arsenic	10	1	-0.80	<10	0.30	<10	0.20	<10	0.0	<10
Barium	200	1	0.20	<200	0.40	<200	0.20	<200	0.50	<200
Beryllium	4.0	.1	0.20	<4.0	0.30	<4.0	0.40	<4.0	0.50	<4.0
Cadmium	5.0	.1	0.10	<5.0	0.30	<5.0	0.30	<5.0	0.40	<5.0
Calcium	1000	50	7.8	<1000	9.1	<1000	10.4	<1000	15.4	<1000
Chromium	10	1	0.0	<10	0.40	<10	0.10	<10	0.50	<10
Cobalt	50	1	0.10	<50	0.20	<50	0.30	<50	0.40	<50
Copper	25	1	0.40	<25	0.50	<25	0.40	<25	0.70	<25
Iron	300	34	15.3	<300	19.3	<300	21.8	<300	22.4	<300
Lead	5.0	1	0.50	<5.0	0.60	<5.0	1.0	<5.0	0.60	<5.0
Magnesium	5000	50	3.9	<5000	6.7	<5000	14.8	<5000	11.4	<5000
Manganese	15	1	0.20	<15	0.40	<15	0.40	<15	0.50	<15
Molybdenum	50	1								
Nickel	40	1	0.40	<40	0.50	<40	0.60	<40	0.60	<40
Potassium	10000	50	9.2	<10000	67.9	<10000	16.4	<10000	102	<10000
Selenium	10	2	2.7	<10	2.9	<10	4.0	<10	1.6	<10
Silver	10	1	-0.10	<10	0.10	<10	0.20	<10	-0.10	<10
Sodium	10000	750	18.7	<10000	21.5	<10000	19.6	<10000	124	<10000
Strontium	10	1								
Thallium	10	1	1.5	<10	2.6	<10	2.2	<10	1.4	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.50	<50	0.80	<50	0.60	<50	0.50	<50
Zinc	20	1	0.50	<20	0.80	<20	0.80	<20	0.70	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			11:47		12:39		13:35		14:33	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-7.6	<200	-5.5	<200	-11	<200	-0.90	<200
Antimony	6.0	1	-0.10	<6.0	0.50	<6.0	-0.20	<6.0	0.30	<6.0
Arsenic	10	1	-1.9	<10	-0.40	<10	-1.2	<10	0.30	<10
Barium	200	1	-0.30	<200	-0.10	<200	0.0	<200	0.10	<200
Beryllium	4.0	.1	-0.10	<4.0	0.0	<4.0	0.10	<4.0	0.20	<4.0
Cadmium	5.0	.1	-0.10	<5.0	-0.10	<5.0	-0.10	<5.0	0.20	<5.0
Calcium	1000	50	-1.6	<1000	-2.4	<1000	5.6	<1000	7.7	<1000
Chromium	10	1	0.10	<10	0.0	<10	0.0	<10	0.30	<10
Cobalt	50	1	-0.30	<50	-0.20	<50	-0.10	<50	0.20	<50
Copper	25	1	-0.10	<25	-0.10	<25	-0.10	<25	0.20	<25
Iron	300	34	7.5	<300	10.1	<300	14.2	<300	12.5	<300
Lead	5.0	1	-0.40	<5.0	0.70	<5.0	0.0	<5.0	0.50	<5.0
Magnesium	5000	50	-4.0	<5000	-1.9	<5000	10.5	<5000	1.6	<5000
Manganese	15	1	-0.10	<15	-0.10	<15	0.0	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	0.10	<40	0.20	<40	0.10	<40	0.30	<40
Potassium	10000	50	13.9	<10000	21.4	<10000	18.6	<10000	-4.8	<10000
Selenium	10	2	0.80	<10	1.3	<10	1.4	<10	1.8	<10
Silver	10	1	-0.10	<10	0.20	<10	0.10	<10	-0.40	<10
Sodium	10000	750	22.8	<10000	26.8	<10000	186	<10000	127	<10000
Strontium	10	1								
Thallium	10	1	1.9	<10	1.7	<10	2.2	<10	1.5	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.20	<50	0.0	<50	0.20	<50
Zinc	20	1	0.0	<20	0.10	<20	0.20	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			15:10	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	20	2.1	<200
Antimony	6.0	1	0.30	<6.0
Arsenic	10	1	-0.70	<10
Barium	200	1	0.20	<200
Beryllium	4.0	.1	0.30	<4.0
Cadmium	5.0	.1	0.20	<5.0
Calcium	1000	50	8.1	<1000
Chromium	10	1	0.20	<10
Cobalt	50	1	0.40	<50
Copper	25	1	0.20	<25
Iron	300	34	11.9	<300
Lead	5.0	1	0.70	<5.0
Magnesium	5000	50	17.8	<5000
Manganese	15	1	0.30	<15
Molybdenum	50	1		
Nickel	40	1	0.40	<40
Potassium	10000	50	-12	<10000
Selenium	10	2	0.50	<10
Silver	10	1	0.0	<10
Sodium	10000	750	62.9	<10000
Strontium	10	1		
Thallium	10	1	1.7	<10
Tin	50	1		
Titanium	10	1.1		
Vanadium	50	1	0.30	<50
Zinc	20	1	0.50	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		05:31			05:57			06:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39500	98.8	40000	41400	103.5
Antimony	2000	1950	97.5	2000	1990	99.5	2000	2070	103.5
Arsenic	2000	1940	97.0	2000	1990	99.5	2000	2070	103.5
Barium	2000	2090	104.5	2000	2070	103.5	2000	2180	109.0
Beryllium	2000	2030	101.5	2000	2040	102.0	2000	2150	107.5
Cadmium	2000	1990	99.5	2000	2020	101.0	2000	2100	105.0
Calcium	40000	40400	101.0	40000	40400	101.0	40000	42300	105.8
Chromium	2000	2000	100.0	2000	2040	102.0	2000	2140	107.0
Cobalt	2000	2000	100.0	2000	2000	100.0	2000	2070	103.5
Copper	2000	2000	100.0	2000	2050	102.5	2000	2160	108.0
Iron	40000	40600	101.5	40000	39600	99.0	40000	41700	104.3
Lead	2000	1950	97.5	2000	2010	100.5	2000	2090	104.5
Magnesium	40000	39800	99.5	40000	40200	100.5	40000	42600	106.5
Manganese	2000	2000	100.0	2000	2070	103.5	2000	2180	109.0
Molybdenum									
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2110	105.5
Potassium	40000	40400	101.0	40000	40400	101.0	40000	42200	105.5
Selenium	2000	1990	99.5	2000	1990	99.5	2000	2070	103.5
Silver	250	246	98.4	250	247	98.8	250	258	103.2
Sodium	40000	40900	102.3	40000	40300	100.8	40000	42100	105.3
Strontium									
Thallium	2000	2060	103.0	2000	2040	102.0	2000	2110	105.5
Tin									
Titanium									
Vanadium	2000	2020	101.0	2000	2130	106.5			
Zinc	2000	2010	100.5	2000	2030	101.5	2000	2110	105.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		07:14			08:07			09:02	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40500	101.3	40000	40300	100.8
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Barium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Beryllium	2000	2060	103.0	2000	2080	104.0	2000	2080	104.0
Cadmium	2000	2030	101.5	2000	2060	103.0	2000	2050	102.5
Calcium	40000	40600	101.5	40000	41300	103.3	40000	41200	103.0
Chromium	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Cobalt	2000	2030	101.5	2000	2050	102.5	2000	2040	102.0
Copper	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Iron	40000	40400	101.0	40000	40600	101.5	40000	40400	101.0
Lead	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Magnesium	40000	40500	101.3	40000	41000	102.5	40000	41100	102.8
Manganese	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Molybdenum									
Nickel	2000	2030	101.5	2000	2060	103.0	2000	2050	102.5
Potassium	40000	40300	100.8	40000	40700	101.8	40000	40800	102.0
Selenium	2000	2010	100.5	2000	2030	101.5	2000	2010	100.5
Silver	250	252	100.8	250	254	101.6	250	254	101.6
Sodium	40000	40300	100.8	40000	40700	101.8	40000	40700	101.8
Strontium									
Thallium	2000	2010	100.5	2000	2040	102.0	2000	2040	102.0
Tin									
Titanium									
Vanadium	2000	2100	105.0	2000	2130	106.5	2000	2130	106.5
Zinc	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		09:56			10:49			11:43	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40900	102.3	40000	40000	100.0	40000	40900	102.3
Antimony	2000	2040	102.0	2000	2030	101.5	2000	2050	102.5
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	2050	102.5
Barium	2000	2100	105.0	2000	2060	103.0	2000	2080	104.0
Beryllium	2000	2090	104.5	2000	2060	103.0	2000	2090	104.5
Cadmium	2000	2070	103.5	2000	2060	103.0	2000	2080	104.0
Calcium	40000	41400	103.5	40000	40800	102.0	40000	41500	103.8
Chromium	2000	2090	104.5	2000	2050	102.5	2000	2090	104.5
Cobalt	2000	2060	103.0	2000	2040	102.0	2000	2070	103.5
Copper	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Iron	40000	40800	102.0	40000	39700	99.3	40000	40500	101.3
Lead	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Magnesium	40000	41300	103.3	40000	40300	100.8	40000	41100	102.8
Manganese	2000	2100	105.0	2000	2050	102.5	2000	2100	105.0
Molybdenum									
Nickel	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Potassium	40000	41100	102.8	40000	41000	102.5	40000	41300	103.3
Selenium	2000	2030	101.5	2000	2030	101.5	2000	2050	102.5
Silver	250	256	102.4	250	252	100.8	250	255	102.0
Sodium	40000	41100	102.8	40000	40100	100.3	40000	41200	103.0
Strontium									
Thallium	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Tin									
Titanium									
Vanadium	2000	2150	107.5	2000	2140	107.0	2000	2160	108.0
Zinc	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		12:35			13:31			14:27	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41200	103.0	40000	41300	103.3	40000	42400	106.0
Antimony	2000	2080	104.0	2000	2120	106.0	2000	2160	108.0
Arsenic	2000	2090	104.5	2000	2100	105.0	2000	2140	107.0
Barium	2000	2070	103.5	2000	2080	104.0	2000	2160	108.0
Beryllium	2000	2100	105.0	2000	2060	103.0	2000	2080	104.0
Cadmium	2000	2120	106.0	2000	2110	105.5	2000	2130	106.5
Calcium	40000	41700	104.3	40000	40200	100.5	40000	40300	100.8
Chromium	2000	2090	104.5	2000	2050	102.5	2000	2070	103.5
Cobalt	2000	2120	106.0	2000	2130	106.5	2000	2160	108.0
Copper	2000	2060	103.0	2000	2060	103.0	2000	2110	105.5
Iron	40000	40700	101.8	40000	39200	98.0	40000	39300	98.3
Lead	2000	2060	103.0	2000	2020	101.0	2000	2050	102.5
Magnesium	40000	40900	102.3	40000	39000	97.5	40000	38800	97.0
Manganese	2000	2070	103.5	2000	2030	101.5	2000	2060	103.0
Molybdenum									
Nickel	2000	2120	106.0	2000	2120	106.0	2000	2150	107.5
Potassium	40000	41600	104.0	40000	42000	105.0	40000	43400	108.5
Selenium	2000	2090	104.5	2000	2130	106.5	2000	2160	108.0
Silver	250	260	104.0	250	256	102.4	250	262	104.8
Sodium	40000	41600	104.0	40000	40500	101.3	40000	43100	107.8
Strontium									
Thallium	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5
Tin									
Titanium									
Vanadium	2000	2150	107.5	2000	2130	106.5	2000	2160	108.0
Zinc	2000	2110	105.5	2000	2070	103.5	2000	2080	104.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		14:59	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	42600	106.5
Antimony	2000	2150	107.5
Arsenic	2000	2140	107.0
Barium	2000	2190	109.5
Beryllium	2000	2080	104.0
Cadmium	2000	2130	106.5
Calcium	40000	40100	100.3
Chromium	2000	2070	103.5
Cobalt	2000	2160	108.0
Copper	2000	2090	104.5
Iron	40000	39500	98.8
Lead	2000	2030	101.5
Magnesium	40000	39100	97.8
Manganese	2000	2080	104.0
Molybdenum			
Nickel	2000	2140	107.0
Potassium	40000	43100	107.8
Selenium	2000	2160	108.0
Silver	250	260	104.0
Sodium	40000	43100	107.8
Strontium			
Thallium	2000	2070	103.5
Tin			
Titanium			
Vanadium	2000	2130	106.5
Zinc	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9995 Units: ug/l

Time:		05:27	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79000	98.8
Antimony	4000	4000	100.0
Arsenic	4000	4010	100.3
Barium	4000	3920	98.0
Beryllium	4000	3950	98.8
Cadmium	4000	3950	98.8
Calcium	80000	79300	99.1
Chromium	4000	3920	98.0
Cobalt	4000	3940	98.5
Copper	4000	3990	99.8
Iron	80000	78600	98.3
Lead	4000	4020	100.5
Magnesium	80000	79400	99.3
Manganese	4000	3880	97.0
Molybdenum			
Nickel	4000	3950	98.8
Potassium	80000	80200	100.3
Selenium	4000	3990	99.8
Silver	500	499	99.8
Sodium	80000	80200	100.3
Strontium			
Thallium	4000	4000	100.0
Tin			
Titanium			
Vanadium	4000	3900	97.5
Zinc	4000	3970	99.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9995 Units: ug/l

Time:			05:40		14:37	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	220	110.0	209	104.5
Antimony	10	5.0	5.4	108.0	5.8	116.0
Arsenic	20	10	12.0	120.0	10.3	103.0
Barium	400	200	218	109.0	222	111.0
Beryllium	10	5.0	5.4	108.0	5.2	104.0
Cadmium	10	5.0	5.9	118.0	5.9	118.0
Calcium	2000	1000	1070	107.0	1040	104.0
Chromium	20	10	10.7	107.0	10.6	106.0
Cobalt	100	50	55.1	110.2	57.5	115.0
Copper	50	25	27.1	108.4	26.5	106.0
Iron	600	300	319	106.3	315	105.0
Lead	10	5.0	5.4	108.0	5.6	112.0
Magnesium	10000	5000	5300	106.0	4950	99.0
Manganese	30	15	17.0	113.3	16.6	110.7
Molybdenum	100	50				
Nickel	80	40	44.9	112.3	45.9	114.8
Potassium	20000	10000	10500	105.0	11000	110.0
Selenium	20	10	9.4	94.0	12.2	122.0
Silver	20	10	8.9	89.0	9.6	96.0
Sodium	20000	10000	10500	105.0	10900	109.0
Strontium	20	10				
Thallium	20	10	11.3	113.0	12.5	125.0
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	54.7	109.4	54.3	108.6
Zinc	40	20	23.0	115.0	22.5	112.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9995 Units: ug/l

Time:			05:48		05:53		14:44		14:51	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	494000	98.8	488000	97.6	526000	105.2	522000	104.4
Antimony		1000	0.10		998	99.8	-1.1		1080	108.0
Arsenic		1000	0.0		1000	100.0	-2.2		1060	106.0
Barium		500	1.1		542	108.4	1.6		568	113.6
Beryllium		500	0.0		509	101.8	-0.20		512	102.4
Cadmium		1000	-0.10		924	92.4	3.7		971	97.1
Calcium	500000	500000	476000	95.2	473000	94.6	470000	94.0	468000	93.6
Chromium		500	0.0		510	102.0	-0.40		510	102.0
Cobalt		500	0.0		459	91.8	-0.40		490	98.0
Copper		500	0.40		581	116.2	0.60		589	117.8
Iron	200000	200000	188000	94.0	183000	91.5	185000	92.5	184000	92.0
Lead		1000	0.0		999	99.9	1.6		1010	101.0
Magnesium	500000	500000	522000	104.4	518000	103.6	502000	100.4	498000	99.6
Manganese		500	0.50		500	100.0	0.20		496	99.2
Molybdenum		1000	0.40		940	94.0	0.30		1010	101.0
Nickel		1000	0.30		909	90.9	-0.50		952	95.2
Potassium			-25		0.30		1.3		-9.0	
Selenium		1000	0.0		987	98.7	0.50		1070	107.0
Silver		1000	0.30		1070	107.0	0.0		1100	110.0
Sodium			83.2		80.4		213		179	
Strontium		1000	2.2		1030	103.0	2.9		1070	107.0
Thallium		1000	-1.6		992	99.2	2.0		1000	100.0
Tin		1000	-0.20		858	85.8	0.0		881	88.1
Titanium		1000	-2.7		1040	104.0	-2.4		1040	104.0
Vanadium		500	0.60		515	103.0	0.60		515	103.0
Zinc		1000	2.0		923	92.3	1.3		936	93.6

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:23	MA9999-STD1	1		STDA
07:26	MA9999-STD2	1		STDB
07:31	MA9999-STD3	1		STDC
07:37	MA9999-STD4	1		STDD
07:47	MA9999-HSTD1	1		
07:54	MA9999-ICV1	1		
08:03	MA9999-ICB1	1		
08:08	MA9999-CRIA1	1		
08:26	MA9999-ICSA1	1		
08:34	MA9999-ICSAB1	1		
08:44	MA9999-CCV1	1		
08:53	MA9999-CCB1	1		
09:00	MP23311-MB1	1		
09:05	MP23311-B1	1		
09:09	F95217-1	10		
09:13	MP23311-D1	10		
09:18	MP23311-PS1	10		
09:22	MP23311-SD1	50		
09:27	MP23311-S1	10		
09:31	MP23311-S2	10		
09:35	F95217-2	10		
09:40	F95217-3	10		
---------->	Last reportable sample/prep for job F95217			
09:44	MA9999-CCV2	1		
09:48	MA9999-CCB2	1		
09:53	F95220-1	5		(sample used for QC only; not part of login F95217)
09:57	MP23310-D1	5		
10:02	MP23310-S1	5		
10:06	MP23310-S2	5		
10:10	MP23310-PS1	5		
10:14	MP23310-SD1	25		
10:19	ZZZZZZ	5		
10:23	ZZZZZZ	4		
10:27	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:32	ZZZZZZ	4		
10:36	MA9999-CCV3	1		
10:40	MA9999-CCB3	1		
10:45	ZZZZZZ	4		
10:49	ZZZZZZ	10		
10:53	ZZZZZZ	4		
11:02	F95207-1	200		(sample used for QC only; not part of login F95217)
11:06	MP23300-D1	200		
11:11	MP23300-S1	200		
11:15	MP23300-S2	200		
11:20	MP23300-PS1	200		
11:24	MP23300-SD1	1000		
11:29	MA9999-CCV4	1		
11:33	MA9999-CCB4	1		
11:37	ZZZZZZ	200		
11:42	ZZZZZZ	200		
11:46	ZZZZZZ	200		
11:51	ZZZZZZ	2		
11:55	ZZZZZZ	2		
12:00	ZZZZZZ	4		
12:05	ZZZZZZ	4		
12:10	ZZZZZZ	2		
12:15	ZZZZZZ	2		
12:20	ZZZZZZ	2		
12:24	MA9999-CCV5	1		
12:28	MA9999-CCB5	1		
12:38	ZZZZZZ	4		
12:43	ZZZZZZ	2		
12:50	ZZZZZZ	2		
12:55	ZZZZZZ	200		
12:59	MP23318-MB1	1		
13:04	MP23318-B1	1		
13:08	F95286-1	1		(sample used for QC only; not part of login F95217)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:12	MP23318-D1	1		
13:17	MP23318-SD1	5		
13:21	MA9999-CCV6	1		
13:25	MA9999-CCB6	1		
13:30	MP23318-PS1	1		
13:34	MP23318-S1	1		
13:39	MP23318-S2	1		
13:43	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:16	MA9999-CCV7	1		
14:20	MA9999-CCB7	1		
14:24	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:55	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	MP23325-MB1	1		
15:09	MA9999-CCV8	1		
15:13	MA9999-CCB8	1		
15:17	MP23325-B1	1		
15:21	F95334-1	1		(sample used for QC only; not part of login F95217)
15:26	MP23325-D1	1		
15:30	MP23325-SD1	5		
15:35	MP23325-PS1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:39	MP23325-S1	1		
15:43	MP23325-S2	1		
15:47	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:56	ZZZZZZ	1		
16:01	MA9999-CCV9	1		
16:05	MA9999-CCB9	1		
16:31	MA9999-CCV10	1		
16:42	MA9999-CCB10	1		
16:45	ZZZZZZ	1		
16:50	ZZZZZZ	1		
16:55	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:09	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:19	ZZZZZZ	1		
17:24	ZZZZZZ	1		
17:29	ZZZZZZ	1		
17:34	MA9999-CCV11	1		
17:38	MA9999-CCB11	1		
17:42	ZZZZZZ	1		
17:47	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:56	ZZZZZZ	1		
18:00	MP23325-MB2A	1		
18:09	MP23326-MB1	1		
18:14	MP23326-B1	1		
18:18	F95354-1	1		(sample used for QC only; not part of login F95217)
18:22	MP23326-D1	1		
18:27	MA9999-CCV12	1		
18:31	MA9999-CCB12	1		
18:35	MP23326-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:40	MP23326-PS1	1		
18:44	MP23326-S1	1		
18:48	MP23326-S2	1		
18:52	ZZZZZZ	1		
18:57	ZZZZZZ	1		
19:01	ZZZZZZ	1		
19:06	ZZZZZZ	1		
19:11	MA9999-CRIA2	1		
19:15	MA9999-ICSA2	1		
19:20	MA9999-CCV13	1		
19:24	MA9999-CCB13	1		
19:28	MA9999-ICSAB2	1		
19:33	MA9999-CCV14	1		
19:37	MA9999-CCB14	1		

----------> Last reportable CCB for job F95217
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:23	MA9999-STD1	3366	25087	9449	1936
07:26	MA9999-STD2	3361	24955	9515	1800
07:31	MA9999-STD3	3215	24022	9384	1610
07:37	MA9999-STD4	3078	23279	9240	1469
07:47	MA9999-HSTD1	3091	23096	9217	1471
07:54	MA9999-ICV1	3204	23839	9399	1603
08:03	MA9999-ICB1	3389 R	24830 R	9463 R	1930 R
08:08	MA9999-CRIA1	3356	24599	9398	1839
08:26	MA9999-ICSA1	2926	21299	8950	1383
08:34	MA9999-ICSAB1	2899	21266	8933	1354
08:44	MA9999-CCV1	3214	23547	9396	1593
08:53	MA9999-CCB1	3368	24704	9521	1906
09:00	MP23311-MB1	3229	23684	9168	1826
09:05	MP23311-B1	3137	23062	9132	1618
09:09	F95217-1	3319	24305	9735	1616
09:13	MP23311-D1	3327	24296	9689	1597
09:18	MP23311-PS1	3311	24307	9645	1606
09:22	MP23311-SD1	3359	24579	9543	1769
09:27	MP23311-S1	3297	24108	9787	1559
09:31	MP23311-S2	3303	24265	9734	1568
09:35	F95217-2	3303	24195	9737	1585
09:40	F95217-3	3304	24133	9731	1554
09:44	MA9999-CCV2	3183	23240	9254	1564
09:48	MA9999-CCB2	3378	24631	9462	1903
09:53	F95220-1	3840	27510	10895	1683
09:57	MP23310-D1	3856	27752	10951	1707
10:02	MP23310-S1	3875	27949	11136	1674
10:06	MP23310-S2	3825	27537	10949	1676
10:10	MP23310-PS1	3859	27829	11074	1692
10:14	MP23310-SD1	3524	25626	9900	1833
10:19	ZZZZZZ	4021	29378	11536	1707
10:23	ZZZZZZ	3883	27283	11267	1620
10:27	ZZZZZZ	3789	27120	10852	1684

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:32	ZZZZZZ	3819	26751	11093	1620
10:36	MA9999-CCV3	3217	23748	9492	1585
10:40	MA9999-CCB3	3388	24783	9565	1913
10:45	ZZZZZZ	3435	24177	9907	1645
10:49	ZZZZZZ	3983	28722	11131	1779
10:53	ZZZZZZ	3952	28790	11312	1703
11:02	F95207-1	3278	23910	9488	1735
11:06	MP23300-D1	3276	23880	9438	1741
11:11	MP23300-S1	3277	23844	9463	1738
11:15	MP23300-S2	3273	23854	9474	1732
11:20	MP23300-PS1	3260	23808	9464	1732
11:24	MP23300-SD1	3347	24541	9493	1846
11:29	MA9999-CCV4	3204	23663	9417	1580
11:33	MA9999-CCB4	3370	24716	9493	1905
11:37	ZZZZZZ	3260	23840	9388	1732
11:42	ZZZZZZ	3264	23830	9488	1727
11:46	ZZZZZZ	3253	23713	9370	1724
11:51	ZZZZZZ	2678	19790	8713	1273
11:55	ZZZZZZ	2790	20589	8775	1349
12:00	ZZZZZZ	2696	19806	8650	1282
12:05	ZZZZZZ	2711	19914	8694	1281
12:10	ZZZZZZ	2532	18417	8286	1172
12:15	ZZZZZZ	2583	18773	8440	1202
12:20	ZZZZZZ	2682	19824	8681	1272
12:24	MA9999-CCV5	3196	23367	9331	1559
12:28	MA9999-CCB5	3358	24567	9465	1884
12:38	ZZZZZZ	2684	19592	8626	1271
12:43	ZZZZZZ	2534	18654	8328	1184
12:50	ZZZZZZ	2574	18877	8377	1204
12:55	ZZZZZZ	3209	23490	9221	1704
12:59	MP23318-MB1	3197	23617	9049	1803
13:04	MP23318-B1	3085	22515	8898	1576
13:08	F95286-1	3795	27660	10938	1598

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:12	MP23318-D1	3606	26636	10566	1530
13:17	MP23318-SD1	3487	25400	9711	1768
13:21	MA9999-CCV6	3202	23629	9236	1576
13:25	MA9999-CCB6	3364	24715	9315	1895
13:30	MP23318-PS1	3747	27393	10786	1572
13:34	MP23318-S1	3703	27184	10816	1525
13:39	MP23318-S2	3761	27612	10970	1502
13:43	ZZZZZZ	4120	30399	11957 !	1543
13:48	ZZZZZZ	3488	25365	9707	1731
13:52	ZZZZZZ	5056 !	36542 !	14465 !	1573
13:57	ZZZZZZ	8729 !	64212 !	24765 !	1593
14:01	ZZZZZZ	16745 !	123820 !	49155 !	1530
14:06	ZZZZZZ	3848	28547	11141	1606
14:11	ZZZZZZ	4342 !	31570 !	12724 !	1527
14:16	MA9999-CCV7	3202	23741	9314	1579
14:20	MA9999-CCB7	3366	24859	9359	1907
14:24	ZZZZZZ	3716	27318	10602	1673
14:28	ZZZZZZ	5255 !	39441 !	15415 !	1618
14:33	ZZZZZZ	3637	29652	12086 !	1610
14:38	ZZZZZZ	3809	28133	10791	1678
14:42	ZZZZZZ	3698	27282	10516	1695
14:46	ZZZZZZ	4188	31152 !	12049 !	1662
14:51	ZZZZZZ	3776	28114	10909	1680
14:55	ZZZZZZ	6031 !	44701 !	18032 !	1510
15:00	ZZZZZZ	3975	29412	11394	1664
15:04	MP23325-MB1	3332	24983	9565	1894
15:09	MA9999-CCV8	3180	23666	9265	1575
15:13	MA9999-CCB8	3350	24814	9429	1899
15:17	MP23325-B1	3193	23713	9268	1645
15:21	F95334-1	3248	24116	9387	1727
15:26	MP23325-D1	3279	24354	9537	1739
15:30	MP23325-SD1	3319	24639	9411	1839
15:35	MP23325-PS1	3220	23878	9369	1689

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:39	MP23325-S1	3174	23426	9323	1596
15:43	MP23325-S2	3177	23563	9297	1599
15:47	ZZZZZZ	3046	23417	9372	1643
15:52	ZZZZZZ	3108	23952	9567	1718
15:56	ZZZZZZ	2547	20044	8940	1234
16:01	MA9999-CCV9	3041	23591	9711	1538
16:05	MA9999-CCB9	3253	24924	9885	1878
16:31	MA9999-CCV10	3097	23400	9464	1553
16:42	MA9999-CCB10	3250	24512	9548	1873
16:45	ZZZZZZ	2595	19955	8842	1288
16:50	ZZZZZZ	2631	20135	8910	1317
16:55	ZZZZZZ	2572	19844	8768	1292
16:59	ZZZZZZ	2611	20045	8815	1312
17:04	ZZZZZZ	2234	17602	8107	1081 !
17:09	ZZZZZZ	2283	17731	8215	1102 !
17:14	ZZZZZZ	2059	15929	7687	952 !
17:19	ZZZZZZ	2039	16098	7650	951 !
17:24	ZZZZZZ	2183	16995	7856	1040 !
17:29	ZZZZZZ	2261	17907	8132	1092 !
17:34	MA9999-CCV11	2971	23419	9178	1542
17:38	MA9999-CCB11	3169	24608	9315	1874
17:42	ZZZZZZ	3130	24670	9371	1854
17:47	ZZZZZZ	3120	24541	9343	1807
17:51	ZZZZZZ	3114	24548	9335	1836
17:56	ZZZZZZ	2926	23231	9081	1599
18:00	MP23325-MB2A	3104	24674	9162	1854
18:09	MP23326-MB1	3091	23268	8947	1827
18:14	MP23326-B1	2920	22907	8694	1592
18:18	F95354-1	2872	22605	8645	1531
18:22	MP23326-D1	2986	23634	8818	1666
18:27	MA9999-CCV12	3015	23991	8984	1582
18:31	MA9999-CCB12	3160	25132	9115	1902
18:35	MP23326-SD1	3052	24419	9083	1748

INTERNAL STANDARD SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:40	MP23326-PS1	2876	22958	8674	1522
18:44	MP23326-S1	2916	23119	8701	1552
18:48	MP23326-S2	2924	23284	8787	1565
18:52	ZZZZZZ	2859	22932	8591	1547
18:57	ZZZZZZ	3071	24397	9303	1474
19:01	ZZZZZZ	3219	25583	9947	1354
19:06	ZZZZZZ	3003	23868	9284	1349
19:11	MA9999-CRIA2	3139	25165	9099	1824
19:15	MA9999-ICSA2	2699	21420	8456	1350
19:20	MA9999-CCV13	2993	23957	8930	1580
19:24	MA9999-CCB13	3146	25201	9034	1908
19:28	MA9999-ICSAB2	2684	21298	8375	1333
19:33	MA9999-CCV14	2959	23825	8797	1571
19:37	MA9999-CCB14	3146	25054	8952	1913

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

14.3.1

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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			08:03		08:53		09:48		10:40	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	-0.10	<50	0.0	<50	0.10	<50	0.30	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			11:33		12:28		13:25		14:20	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.20	<50	0.30	<50	0.30	<50	-0.20	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

14.3.2
14

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			15:13		16:05		16:42		17:38	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.20	<50	0.10	<50	0.10	<50	0.10	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

14.3.2
14

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			18:31		19:24		19:37	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	20	anr					
Antimony	6.0	1	anr					
Arsenic	10	1	anr					
Barium	200	1	anr					
Beryllium	4.0	.1	anr					
Cadmium	5.0	.1	anr					
Calcium	1000	50	anr					
Chromium	10	1	anr					
Cobalt	50	1	anr					
Copper	25	1	anr					
Iron	300	34	anr					
Lead	5.0	1	anr					
Magnesium	5000	50	anr					
Manganese	15	1	anr					
Molybdenum	50	1	anr					
Nickel	40	1	anr					
Potassium	10000	50	anr					
Selenium	10	2	anr					
Silver	10	1	anr					
Sodium	10000	750	anr					
Strontium	10	1						
Thallium	10	1	anr					
Tin	50	1						
Titanium	10	1.1						
Vanadium	50	1	0.10	<50	-0.10	<50	0.20	<50
Zinc	20	1	anr					

(*) Outside of QC limits
(anr) Analyte not requested

14.3.2
14

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		07:54			08:44			09:44	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	2110	105.5	2000	2160	108.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		10:36			11:29			12:24	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2130	106.5	2000	2130	106.5	2000	2160	108.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		13:21			14:16			15:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2140	107.0	2000	2160	108.0	2000	2140	107.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		16:01			16:31			17:34	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2120	106.0	2000	2080	104.0	2000	2040	102.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		18:27			19:20			19:33	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

14.3.3 14

HIGH STANDARD CHECK SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9999 Units: ug/l

Time:		07:47	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	4000	3940	98.5
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9999 Units: ug/l

Time:			08:08		19:11	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	53.2	106.4	50.7	101.4
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9999 Units: ug/l

Time:			08:26		08:34		19:15		19:28	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	487000	97.4	498000	99.6	526000	105.2	533000	106.6
Antimony		1000	0.0		1020	102.0	3.7		1040	104.0
Arsenic		1000	0.0		1020	102.0	0.90		1040	104.0
Barium		500	5.7		539	107.8	5.8		542	108.4
Beryllium		500	-0.10		511	102.2	-0.20		499	99.8
Cadmium		1000	1.0		941	94.1	2.6		963	96.3
Calcium	500000	500000	475000	95.0	472000	94.4	455000	91.0	450000	90.0
Chromium		500	-0.40		516	103.2	-0.60		514	102.8
Cobalt		500	0.0		468	93.6	-0.20		494	98.8
Copper		500	1.4		581	116.2	1.7		536	107.2
Iron	200000	200000	182000	91.0	185000	92.5	177000	88.5	181000	90.5
Lead		1000	-0.40		957	95.7	8.3		917	91.7
Magnesium	500000	500000	515000	103.0	522000	104.4	479000	95.8	483000	96.6
Manganese		500	0.20		509	101.8	0.0		501	100.2
Molybdenum		1000	0.30		960	96.0	0.50		1020	102.0
Nickel		1000	0.10		924	92.4	-0.40		924	92.4
Potassium			-13		-20		-17		-9.2	
Selenium		1000	0.30		1010	101.0	-0.80		1050	105.0
Silver		1000	0.20		1070	107.0	-0.20		1080	108.0
Sodium			75.2		85.7		150		115	
Strontium		1000	5.6		1030	103.0	5.6		1020	102.0
Thallium		1000	1.1		952	95.2	1.7		900	90.0
Tin		1000	0.40		884	88.4	-0.70		788	78.8*
Titanium		1000	-4.9		1050	105.0	-4.0		1010	101.0
Vanadium		500	0.0		519	103.8	0.50		485	97.0
Zinc		1000	-0.50		939	93.9	0.10		924	92.4

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	0.50	<10
Antimony	1.0	.05	.1	0.020	<1.0
Arsenic	0.50	.05	.1	-0.045	<0.50
Barium	10	.05	.5	0.0	<10
Beryllium	0.25	.005	.05	-0.0050	<0.25
Cadmium	0.20	.005	.05	0.0	<0.20
Calcium	250	2.5	5	0.97	<250
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.05	.05	-0.010	<2.5
Copper	1.3	.05	.1	-0.010	<1.3
Iron	15	1.7	1.7	1.5	<15
Lead	1.0	.05	.05	-0.050	<1.0
Magnesium	250	2.5	5	0.32	<250
Manganese	0.75	.05	.05	0.020	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.055	<2.0
Potassium	500	2.5	25	0.89	<500
Selenium	1.0	.1	.2	0.015	<1.0
Silver	0.50	.05	.05	-0.020	<0.50
Sodium	500	38	55	0.48	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	-0.035	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	-0.0050	<2.5
Zinc	1.0	.05	.25	0.050	<1.0

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12 07/26/12

Metal	F95217-1 Original	DUP	RPD	QC Limits	F95217-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	19500	16100(a)	19.1	0-20	19500	21400(a)	1530	124.0(d)	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	7.9 (a)	28.4	27.8N(e)	80-120
Arsenic	6.4	5.9 (a)	8.1	0-20	6.4	116 (a)	114	96.5	80-120
Barium	156	191 (a)	20.2 (b)	0-20	156	307 (a)	114	133.0N(e	80-120
Beryllium	1.5	1.3 (a)	14.3	0-20	1.5	4.5 (a)	2.84	105.7	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	2.5 (a)	2.84	88.1	80-120
Calcium	124000	121000(a	2.4	0-20	124000	128000(a	1420	281.8(d)	80-120
Chromium	25.6	19.7 (a)	26.0*(c)	0-20	25.6	36.3 (a)	11.4	94.2	80-120
Cobalt	8.4	8.8 (a)	4.7	0-20	8.4	36.2 (a)	28.4	97.9	80-120
Copper	16.2	14.3 (a)	12.5	0-20	16.2	30.4 (a)	14.2	100.0	80-120
Iron	22900	19100(a)	18.1	0-20	22900	23700(a)	1480	54.2 (d)	80-120
Lead	12.9	12.3 (a)	4.8	0-20	12.9	42.2 (a)	28.4	103.2	80-120
Magnesium	20700	17900(a)	14.5	0-20	20700	22300(a)	1420	112.7	80-120
Manganese	304	327 (a)	7.3	0-20	304	355 (a)	28.4	179.7(d)	80-120
Molybdenum									
Nickel	23.8	21.2 (a)	11.6	0-20	23.8	51.2 (a)	28.4	96.5	80-120
Potassium	3570	3040 (a)	16.0	0-20	3570	5300 (a)	1420	121.9N(e	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	110 (a)	114	96.9	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.6 (a)	2.84	91.6	80-120
Sodium	3460	3190 (a)	8.1	0-20	3460	4790 (a)	1420	93.7	80-120
Strontium									
Thallium	0.0	0.0 (a)	NC	0-20	0.0	116 (a)	114	102.2	80-120
Tin									
Titanium									
Vanadium	39.6	31.5	0.3	0-20	39.6	71.4	28.4	140.2N(e	80-120
Zinc	64.0	57.7 (a)	10.4	0-20	64.0	90.9 (a)	28.4	94.8	80-120

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to sample matrix.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) High RPD due to possible sample nonhomogeneity.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	F95217-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	19500	20500(a)	1360	73.6 (b)	4.3	20
Antimony	0.0	5.5 (a)	25.2	21.9N(c)	35.8 (d)	20
Arsenic	6.4	99.8 (a)	101	92.8	15.0	20
Barium	156	291 (a)	101	134.2N(c	5.4	20
Beryllium	1.5	4.1 (a)	2.52	103.4	9.3	20
Cadmium	0.0	2.1 (a)	2.52	83.5	17.4	20
Calcium	124000	123000(a	1260	-79.5(b)	4.0	20
Chromium	25.6	32.7 (a)	10.1	70.6N(c)	10.4	20
Cobalt	8.4	33.7 (a)	25.2	100.6	7.2	20
Copper	16.2	28.9 (a)	12.6	101.0	5.1	20
Iron	22900	22100(a)	1310	-61.2(b)	7.0	20
Lead	12.9	37.6 (a)	25.2	98.2	11.5	20
Magnesium	20700	20700(a)	1260	0.0 (b)	7.4	20
Manganese	304	355 (a)	25.2	202.7(b)	0.0	20
Molybdenum						
Nickel	23.8	47.8 (a)	25.2	95.4	6.9	20
Potassium	3570	4900 (a)	1260	105.7	7.8	20
Selenium	0.0	93.6 (a)	101	93.0	16.1	20
Silver	0.0	2.3 (a)	2.52	91.4	12.2	20
Sodium	3460	4640 (a)	1260	93.8	3.2	20
Strontium						
Thallium	0.0	99.1 (a)	101	98.5	15.7	20
Tin						
Titanium						
Vanadium	39.6	56.5	25.2	99.0	23.3 (d)	20
Zinc	64.0	86.4 (a)	25.2	89.0	5.1	20

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to sample matrix.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(d) High RPD due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1370	1350	101.5	80-120
Antimony	24.7	25	98.8	80-120
Arsenic	96.7	100	96.7	80-120
Barium	109	100	109.0	80-120
Beryllium	2.7	2.5	108.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1280	1250	102.4	80-120
Chromium	10.6	10	106.0	80-120
Cobalt	25.6	25	102.4	80-120
Copper	13.3	12.5	106.4	80-120
Iron	1360	1300	104.6	80-120
Lead	23.7	25	94.8	80-120
Magnesium	1260	1250	100.8	80-120
Manganese	27.0	25	108.0	80-120
Molybdenum				
Nickel	26.2	25	104.8	80-120
Potassium	1280	1250	102.4	80-120
Selenium	96.1	100	96.1	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	1280	1250	102.4	80-120
Strontium				
Thallium	96.9	100	96.9	80-120
Tin				
Titanium				
Vanadium	27.2	25	108.8	80-120
Zinc	25.6	25	102.4	80-120

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/12

Metal	F95217-1 Original	SDL 10:50	%DIF	QC Limits
Aluminum	350000	357000	1.8	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	114	143	25.4 (a)	0-10
Barium	2790	2850	2.2	0-10
Beryllium	26.8	26.0	3.0	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2230000	2370000	6.4	0-10
Chromium	460	487	5.8	0-10
Cobalt	150	154	2.7	0-10
Copper	291	313	7.8	0-10
Iron	410000	433000	5.6	0-10
Lead	232	226	2.5	0-10
Magnesium	371000	385000	3.6	0-10
Manganese	5450	5750	5.6	0-10
Molybdenum				
Nickel	428	466	9.0	0-10
Potassium	64000	63500	0.8	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	62100	63100	1.6	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	711	755	33.1*(b)	0-10
Zinc	1150	1220	5.8	0-10

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/12

Metal	Sample ml	Final ml	F95217-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	350400	272636	348000	.2	125	2500	3014.6*a	80-120
Antimony	9.8	10	0	0	79.5	.2	5	100	79.5*(a)	80-120
Arsenic	9.8	10	114.2	78.596	209	.2	5	100	130.4*(a	80-120
Barium	9.8	10	2793	2150.12	3023	.2	12.5	250	349.2*(a	80-120
Beryllium	9.8	10	26.8	20.678	81.6	.2	2.5	50	121.8*(a	80-120
Cadmium	9.8	10	0	0	43.5	.2	2.5	50	87.0	80-120
Calcium	9.8	10	2231000	1733620	2202000	.2	250	5000	9367.6*a	80-120
Chromium	9.8	10	459.8	364.168	506.9	.2	2.5	50	285.5*(a	80-120
Cobalt	9.8	10	150.3	119.168	196.9	.2	2.5	50	155.5*(a	80-120
Copper	9.8	10	290.6	222.95	391.8	.2	5	100	168.9*(a	80-120
Iron	9.8	10	410100	318108	407800	.2	150	3000	2989.7*a	80-120
Lead	9.8	10	231.6	180.222	273	.2	2.5	50	185.6*(a	80-120
Magnesium	9.8	10	371400	286552	373100	.2	250	5000	1731.0*a	80-120
Manganese	9.8	10	5449	4219.88	5424	.2	2.5	50	2408.2*a	80-120
Molybdenum										
Nickel	9.8	10	427.6	337.61	521.3	.2	5	100	183.7*(a	80-120
Potassium	9.8	10	64010	50617	74240	.2	500	10000	236.2*(a	80-120
Selenium	9.8	10	0	0	98.7	.2	5	100	98.7	80-120
Silver	9.8	10	0	0	48.9	.2	2.5	50	97.8	80-120
Sodium	9.8	10	62060	50087.8	71910	.2	500	10000	218.2*(a	80-120
Strontium										
Thallium	9.8	10	0	0	84	.2	5	100	84.0	80-120
Tin										
Titanium										
Vanadium	9.8	10	710.7	555.66	625.2	.2	2.5	50	139.1*(a	80-120
Zinc	9.8	10	1148	910.714	1408	.2	12.5	250	198.9*(a	80-120

Associated samples MP23311: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.00036	<0.083

Associated samples MP23332: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12 07/31/12

Metal	F95217-1 Original	DUP	RPD	QC Limits	F95217-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0050	0.0	200.0(a)	0-20	0.0050	0.34	0.299	111.9	80-120

Associated samples MP23332: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	F95217-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0050	0.35	0.304	113.4	2.9	20

Associated samples MP23332: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

14.5.2

14

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.26	0.25	104.0	80-120

Associated samples MP23332: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

14.5.3

14

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95217
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 07/31/12

Metal	F95217-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0528	0.00	100.0(a)	0-10

Associated samples MP23332: F95217-1, F95217-2, F95217-3, F95217-4, F95217-5, F95217-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Instrument Detection Limits

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: LEEMANHG4 **Effective Date:** 04/09/12

Analyte	IDL ug/l
Mercury	.04

The above applies to the following instrument runs:
MA10000

Instrument Detection Limits

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE1 **Effective Date:** 10/21/10

Analyte	IDL ug/l
Aluminum	20
Antimony	1
Arsenic	1
Barium	1
Beryllium	.1
Cadmium	.1
Calcium	50
Chromium	1
Cobalt	1
Copper	1
Iron	34
Lead	1
Magnesium	50
Manganese	1
Molybdenum	1
Nickel	1
Potassium	50
Selenium	2
Silicon	5
Silver	1
Sodium	750
Strontium	1
Thallium	1
Tin	1
Titanium	1.1
Vanadium	1
Zinc	1

The above applies to the following instrument runs:
MA9995,MA9999

Instrument Linear Ranges

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE1 **Effective Date:** 04/21/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA9995,MA9999

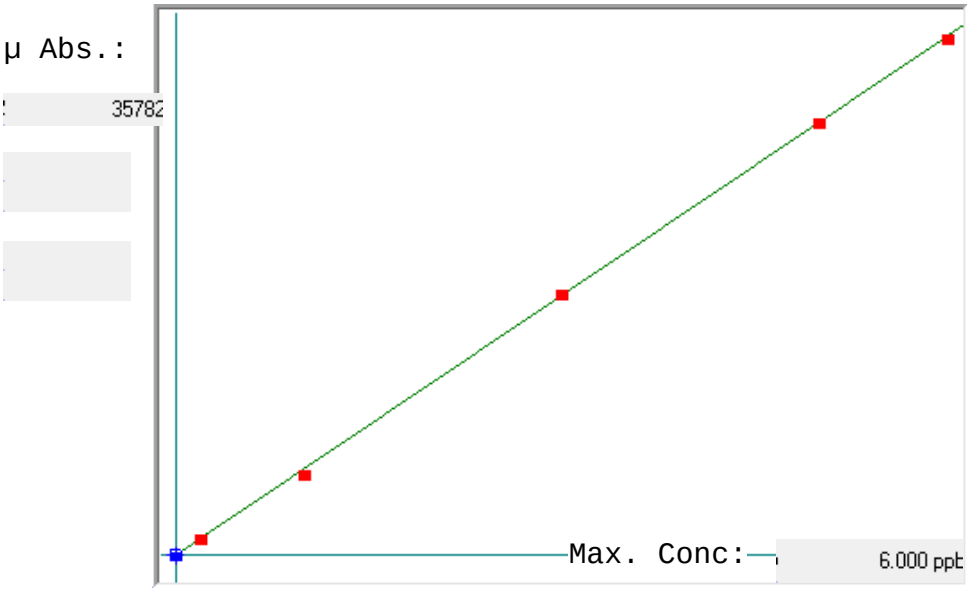
Southeast

Metals Analysis

Raw Data

HG7470a

Linear



A= 0.0000e+000

B= 1.6666e-004

C= 8.5137e-003

Rho= 0.9998997

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.023	0.023	84	0.000	84				
.2ppb	0.200	0.206	0.006	1182	0.0 %	1182				
1ppb	1.000	0.942	-0.058	5599	0.0 %	5599				
3ppb	3.000	3.036	0.036	18168	0.0 %	18168				
5ppb	5.000	5.022	0.022	30080	0.0 %	30080				
6ppb	6.000	5.972	-0.028	35782	0.0 %	35782				

Inst QC: **MA10000**

Method: HG7470a Operator: Admin Date of Analysis: 31 Jul 2012 11:06:43

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
blank - 1	31 Jul 2012 12:21:36	Std	ppb	-	84	1.000	1.000
.2ppb - 1	31 Jul 2012 12:22:52	Std	ppb	-	1182	1.000	1.000
1ppb - 1	31 Jul 2012 12:24:09	Std	ppb	-	5599	1.000	1.000
3ppb - 1	31 Jul 2012 12:25:41	Std	ppb	-	18168	1.000	1.000
5ppb - 1	31 Jul 2012 12:27:32	Std	ppb	-	30080	1.000	1.000
6ppb - 1	31 Jul 2012 12:29:36	Std	ppb	-	35782	1.000	1.000
HSTD - 1	31 Jul 2012 12:31:46	CK STND	ppb	100.0% 5.9976	35935	1.000	1.000
ICV - 1	31 Jul 2012 12:33:58	CK STND	ppb	100.5% 3.0151	18040	1.000	1.000
ICB - 1	31 Jul 2012 12:36:08	CK STND	ppb	-0.0232	-190	1.000	1.000
CRI - 1	31 Jul 2012 12:38:11	CK STND	ppb	99.8% 0.1997	1147	1.000	1.000
CCV - 1	31 Jul 2012 12:39:28	CK STND	ppb	99.2% 2.9771	17812	1.000	1.000
CCB - 1	31 Jul 2012 12:40:56	CK STND	ppb	-0.0208	-176	1.000	1.000
MP23332-MB1 - 1	31 Jul 2012 12:43:02	SMPL	ppb	0.0043	-25	1.000	1.000
MP23332-B1 - 1	31 Jul 2012 12:44:17	SMPL	ppb	3.1575	18894	1.000	1.000
F95217-1 - 1	31 Jul 2012 12:45:33	SMPL	ppb	0.0528	266	1.000	1.000
MP23332-D1 - 1	31 Jul 2012 12:47:36	SMPL	ppb	0.0312	136	1.000	1.000
MP23332-SD1 - 1	31 Jul 2012 12:48:55	SMPL	ppb	-0.1366	-215	1.000	5.000
MP23332-S1 - 1	31 Jul 2012 12:50:13	SMPL	ppb	3.4240	20493	1.000	1.000
MP23332-S2 - 1	31 Jul 2012 12:51:29	SMPL	ppb	3.4516	20659	1.000	1.000
F95217-2 - 1	31 Jul 2012 12:53:31	SMPL	ppb	0.0342	154	1.000	1.000
F95217-3 - 1	31 Jul 2012 12:55:34	SMPL	ppb	0.0315	138	1.000	1.000
F95217-4 - 1	31 Jul 2012 12:56:53	SMPL	ppb	0.0087	1	1.000	1.000
CCV - 1	31 Jul 2012 12:58:13	CK STND	ppb	99.8% 2.9928	17906	1.000	1.000
CCB - 1	31 Jul 2012 12:59:30	CK STND	ppb	-0.0237	-193	1.000	1.000
F95217-5 - 1	31 Jul 2012 13:01:34	SMPL	ppb	0.0258	104	1.000	1.000
F95217-6 - 1	31 Jul 2012 13:02:51	SMPL	ppb	0.0988	542	1.000	1.000
F95274-1 - 1	31 Jul 2012 13:04:09	SMPL	ppb	0.0217	79	1.000	1.000
F95274-2 - 1	31 Jul 2012 13:05:27	SMPL	ppb	-0.0018	-62	1.000	1.000
F95274-3 - 1	31 Jul 2012 13:06:45	SMPL	ppb	0.0253	101	1.000	1.000
F95274-4 - 1	31 Jul 2012 13:08:02	SMPL	ppb	0.0417	199	1.000	1.000
F95274-5 - 1	31 Jul 2012 13:09:19	SMPL	ppb	0.0183	59	1.000	1.000
F95274-6 - 1	31 Jul 2012 13:10:37	SMPL	ppb	0.0123	23	1.000	1.000
F95322-1 - 1	31 Jul 2012 13:11:55	SMPL	ppb	0.0178	56	1.000	1.000
F95322-2 - 1	31 Jul 2012 13:13:12	SMPL	ppb	0.0195	66	1.000	1.000
CCV - 1	31 Jul 2012 13:14:28	CK STND	ppb	98.9% 2.9685	17760	1.000	1.000
CCB - 1	31 Jul 2012 13:15:44	CK STND	ppb	-0.0257	-205	1.000	1.000
F95322-3 - 1	31 Jul 2012 13:17:48	SMPL	ppb	0.0207	73	1.000	1.000
F95322-4 - 1	31 Jul 2012 13:19:04	SMPL	ppb	0.0267	109	1.000	1.000
F95322-5 - 1	31 Jul 2012 13:20:21	SMPL	ppb	0.0110	15	1.000	1.000
F95322-6 - 1	31 Jul 2012 13:21:39	SMPL	ppb	0.0945	516	1.000	1.000
F95322-7 - 1	31 Jul 2012 13:22:57	SMPL	ppb	-0.0175	-156	1.000	1.000
F95322-8 - 1	31 Jul 2012 13:24:16	SMPL	ppb	0.0213	77	1.000	1.000
CRI - 1	31 Jul 2012 13:25:32	SMPL	ppb	0.1880	1077	1.000	1.000
CCV - 1	31 Jul 2012 13:26:49	CK STND	ppb	95.2% 2.8551	17080	1.000	1.000
CCB - 1	31 Jul 2012 13:28:13	CK STND	ppb	-0.0243	-197	1.000	1.000

Zoom In ▶
Zoom Out

Sample Name: Blank Acquired: 7/27/2012 5:13:34 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0050	-.0016	.0044	.0011	.0033	-.0012	-.0010	.0001
Stddev	.0001	.0007	.0001	.0006	.0004	.0007	.0002	.0002	.0001
%RSD	136.4	14.20	7.867	14.12	34.08	21.72	14.28	16.85	66.68
#1	-.0003	.0043	-.0016	.0045	.0007	.0025	-.0012	-.0009	.0002
#2	.0000	.0051	-.0017	.0050	.0011	.0034	-.0014	-.0009	.0000
#3	.0000	.0057	-.0015	.0037	.0014	.0040	-.0011	-.0012	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0057	.0035	-.0008	-.0002	.0003	.0016	.0042	-.0008	-.0012
Stddev	.0002	.0007	.0002	.0005	.0001	.0003	.0004	.0002	.0004
%RSD	4.138	19.95	24.65	199.8	39.29	17.48	10.71	24.21	38.03
#1	.0058	.0043	-.0008	-.0006	.0004	.0017	.0045	-.0006	-.0013
#2	.0055	.0032	-.0006	.0003	.0004	.0018	.0043	-.0009	-.0015
#3	.0059	.0030	-.0009	-.0004	.0002	.0013	.0037	-.0008	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	-.0004	.0094	.0008	-.0017	.0036	-.0020	-.0004	.0027
Stddev	.0006	.0006	.0002	.0001	.0003	.0003	.0001	.0002	.0003
%RSD	74.02	142.1	2.131	10.20	17.42	7.946	6.027	50.01	9.508
#1	.0012	-.0004	.0092	.0007	-.0015	.0039	-.0021	-.0002	.0025
#2	.0009	.0002	.0095	.0008	-.0021	.0036	-.0019	-.0004	.0030
#3	.0001	-.0009	.0094	.0009	-.0017	.0033	-.0021	-.0006	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1494.9	2706.7	22083.	9139.6
Stddev	4.7	12.6	76.	29.1
%RSD	.31473	.46417	.34394	.31787
#1	1489.5	2692.2	22101.	9172.7
#2	1497.8	2715.0	22149.	9127.3
#3	1497.5	2712.8	22000.	9118.6

Zoom In ▶
Zoom Out

Sample Name: LowStd Acquired: 7/27/2012 5:17:02 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0307	1.696	.1106	4.642	5.899	2.343	2.310	1.270	.2438	.5333
Stddev	.0002	.008	.0008	.015	.021	.007	.005	.001	.0013	.0019
%RSD	.6756	.4600	.7209	.3270	.3515	.2970	.1979	.0377	.5354	.3655
#1	.0309	1.702	.1103	4.641	5.895	2.337	2.311	1.270	.2448	.5328
#2	.0305	1.699	.1100	4.657	5.922	2.350	2.314	1.271	.2423	.5316
#3	.0307	1.687	.1115	4.627	5.881	2.341	2.305	1.270	.2442	.5354

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.081	.7015	.2528	1.555	.7088	2.946	.7710	.4136	.1668	.0798
Stddev	.008	.0030	.0006	.008	.0017	.006	.0007	.0008	.0004	.0005
%RSD	.3879	.4225	.2358	.5100	.2400	.1952	.0888	.1978	.2540	.5796
#1	2.076	.7002	.2522	1.556	.7068	2.947	.7702	.4145	.1673	.0793
#2	2.090	.7049	.2533	1.547	.7100	2.951	.7712	.4134	.1668	.0801
#3	2.076	.6994	.2528	1.563	.7095	2.940	.7715	.4129	.1664	.0801

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1928	.2277	8.034	1.105	.1992	.3452	1.008
Stddev	.0003	.0003	.024	.006	.0007	.0009	.002
%RSD	.1456	.1517	.2985	.5880	.3410	.2674	.2097
#1	.1925	.2274	8.022	1.105	.1993	.3445	1.010
#2	.1931	.2277	8.062	1.098	.1997	.3448	1.008
#3	.1928	.2280	8.018	1.111	.1984	.3462	1.006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1370.8	2668.1	21610.	9080.4
Stddev	1.0	5.4	91.	41.4
%RSD	.07497	.20240	.42197	.45556
#1	1371.4	2672.8	21652.	9074.9
#2	1369.6	2669.3	21673.	9042.0
#3	1371.3	2662.2	21506.	9124.2

Zoom In ▶
Zoom Out

Sample Name: MidStd Acquired: 7/27/2012 5:20:08 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1245	6.675	.4535	18.59	23.53	9.214	9.094	4.956	.9608	2.113
Stddev	.0005	.012	.0013	.09	.07	.026	.026	.013	.0029	.015
%RSD	.3964	.1817	.2869	.5077	.2996	.2873	.2893	.2599	.2987	.7102
#1	.1251	6.665	.4536	18.52	23.48	9.202	9.091	4.954	.9627	2.098
#2	.1244	6.671	.4522	18.56	23.50	9.197	9.070	4.944	.9575	2.128
#3	.1241	6.688	.4548	18.70	23.61	9.245	9.122	4.969	.9621	2.112

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.880	2.784	.9976	6.088	2.849	11.72	2.990	1.712	.6696	.3249
Stddev	.019	.010	.0030	.006	.006	.04	.009	.003	.0027	.0009
%RSD	.2413	.3579	.3012	.1016	.1950	.3550	.2980	.1584	.4025	.2783
#1	7.880	2.777	.9948	6.081	2.850	11.68	2.990	1.715	.6697	.3246
#2	7.861	2.780	.9974	6.093	2.843	11.73	2.981	1.709	.6669	.3243
#3	7.899	2.796	1.001	6.088	2.855	11.76	2.999	1.711	.6722	.3260

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7752	.9067	32.61	4.463	.8055	1.404	3.991
Stddev	.0023	.0033	.42	.017	.0025	.002	.016
%RSD	.3004	.3662	1.295	.3803	.3087	.1446	.3892
#1	.7750	.9065	32.13	4.451	.8082	1.406	3.991
#2	.7730	.9034	32.78	4.482	.8033	1.404	3.976
#3	.7777	.9100	32.91	4.455	.8051	1.402	4.007

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1203.9	2520.8	20544.	8839.8
Stddev	.1	5.6	102.	17.1
%RSD	.00937	.22411	.49770	.19381
#1	1203.8	2522.9	20653.	8840.8
#2	1204.0	2525.1	20451.	8856.4
#3	1203.8	2514.4	20527.	8822.2

Zoom In ▶
Zoom Out

Sample Name: HighStd Acquired: 7/27/2012 5:23:16 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2521	13.19	.9030	36.04	44.98	17.90	17.52	9.559	1.849	4.183
Stddev	.0007	.02	.0021	.16	.25	.04	.02	.013	.002	.009
%RSD	.2959	.1613	.2338	.4364	.5638	.1974	.1006	.1395	.1073	.2258
#1	.2513	13.19	.9014	36.22	45.27	17.94	17.53	9.563	1.847	4.172
#2	.2528	13.21	.9022	36.00	44.84	17.91	17.50	9.544	1.849	4.191
#3	.2522	13.17	.9054	35.91	44.82	17.87	17.52	9.570	1.851	4.185

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15.53	5.496	1.968	11.73	5.507	23.08	5.744	3.432	1.327	.6440
Stddev	.06	.004	.005	.02	.009	.04	.007	.011	.003	.0008
%RSD	.3675	.0714	.2616	.1294	.1680	.1951	.1246	.3229	.2516	.1297
#1	15.56	5.493	1.973	11.73	5.510	23.03	5.742	3.436	1.325	.6446
#2	15.56	5.500	1.968	11.75	5.497	23.12	5.737	3.440	1.325	.6430
#3	15.46	5.494	1.963	11.72	5.515	23.09	5.751	3.419	1.331	.6443

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.506	1.722	62.61	8.651	1.588	2.598	7.716
Stddev	.003	.003	.63	.015	.003	.005	.015
%RSD	.2167	.1987	1.009	.1728	.1878	.2047	.1968
#1	1.503	1.720	63.18	8.637	1.591	2.593	7.733
#2	1.506	1.719	61.93	8.667	1.589	2.596	7.703
#3	1.509	1.725	62.74	8.648	1.585	2.604	7.712

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1111.8	2456.0	20179.	8810.7
Stddev	2.5	4.2	18.	26.3
%RSD	.22876	.17243	.08699	.29838
#1	1111.5	2460.2	20183.	8791.6
#2	1109.4	2456.0	20160.	8799.8
#3	1114.5	2451.8	20195.	8840.6

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 7/27/2012 5:27:14 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4994	79.01	4.012	3.923	3.946	79.29	3.948	3.938	3.918	3.993
Stddev	.0002	.24	.005	.028	.009	.03	.003	.001	.018	.019
%RSD	.0322	.3086	.1142	.7139	.2331	.0437	.0648	.0318	.4706	.4722
#1	.4992	79.29	4.009	3.892	3.949	79.27	3.949	3.939	3.896	3.988
#2	.4995	78.92	4.017	3.945	3.954	79.28	3.945	3.937	3.929	4.014
#3	.4993	78.83	4.009	3.933	3.936	79.33	3.949	3.938	3.927	3.977
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	78.56	80.19	79.35	3.876	3.940	80.18	3.951	4.024	4.000	3.987
Stddev	.11	.20	.11	.014	.002	.21	.001	.011	.003	.009
%RSD	.1447	.2530	.1357	.3486	.0514	.2581	.0223	.2601	.0664	.2323
#1	78.66	80.36	79.47	3.864	3.938	80.36	3.950	4.013	4.000	3.986
#2	78.57	79.96	79.29	3.890	3.939	79.96	3.950	4.028	4.002	3.978
#3	78.43	80.25	79.29	3.872	3.942	80.23	3.952	4.033	3.997	3.996
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.002	3.960	3.957	3.929	3.995	3.900	3.969
Stddev	.001	.003	.049	.009	.017	.019	.004
%RSD	.0262	.0806	1.243	.2378	.4256	.4810	.1086
#1	4.001	3.962	4.011	3.922	3.976	3.884	3.972
#2	4.003	3.957	3.944	3.939	4.009	3.920	3.964
#3	4.001	3.962	3.915	3.925	3.999	3.895	3.971
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 7/27/2012 5:27:14 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.6	2455.7	20307.	8907.3
Stddev	4.0	2.0	62.	58.2
%RSD	.35969	.08198	.30672	.65346
#1	1118.2	2458.0	20362.	8843.0
#2	1111.6	2454.4	20240.	8922.7
#3	1111.1	2454.6	20321.	8956.3

Zoom In
Zoom Out

Sample Name: ICV Acquired: 7/27/2012 5:31:28 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2458	39.17	1.944	2.085	2.028	40.36	1.991	2.000	1.999	1.998
Stddev	.0018	.04	.001	.004	.005	.12	.002	.002	.009	.005
%RSD	.7387	.1081	.0256	.1843	.2422	.2908	.0737	.1132	.4655	.2365
#1	.2446	39.13	1.944	2.080	2.023	40.23	1.991	1.998	1.992	1.997
#2	.2448	39.16	1.945	2.086	2.029	40.40	1.992	2.003	1.997	1.994
#3	.2479	39.22	1.944	2.088	2.032	40.45	1.989	1.999	2.010	2.003
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.61	40.36	39.84	1.998	1.909	40.90	2.020	1.949	1.951	1.993
Stddev	.11	.07	.13	.010	.002	.05	.000	.006	.003	.003
%RSD	.2740	.1746	.3294	.4890	.0938	.1155	.0185	.2929	.1347	.1312
#1	40.50	40.29	39.70	1.990	1.910	40.88	2.020	1.953	1.949	1.992
#2	40.63	40.43	39.89	1.995	1.909	40.96	2.020	1.951	1.954	1.996
#3	40.72	40.34	39.95	2.009	1.907	40.87	2.019	1.942	1.950	1.992
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0453	1.906	2.009	1.947	2.055	2.016	2.009
Stddev	.0002	.003	.003	.008	.003	.003	.002
%RSD	.3355	.1665	.1333	.3922	.1530	.1493	.1064
#1	.0452	1.908	2.006	1.941	2.056	2.015	2.011
#2	.0455	1.909	2.010	1.945	2.058	2.014	2.009
#3	.0453	1.903	2.011	1.956	2.052	2.019	2.007
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: ICV Acquired: 7/27/2012 5:31:28 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1217.5	2560.8	20751.	8988.4
Stddev	2.6	2.7	99.	2.9
%RSD	.21465	.10374	.47742	.03200
#1	1216.4	2561.4	20789.	8985.3
#2	1215.6	2557.9	20826.	8988.7
#3	1220.5	2563.1	20639.	8991.1

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/27/2012 5:36:53 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0037	.0007	-.0001	.0001	.0014	.0000	-.0001	.0000	.0003
Stddev	.0003	.0048	.0004	.0001	.0000	.0016	.000	.0001	.000	.0000
%RSD	84.88	129.9	60.57	111.3	4.392	114.8	246.1	72.78	996.3	10.76
#1	-.0001	.0042	.0011	.0000	.0001	.0032	.0000	-.0002	-.0003	.0003
#2	-.0004	-.0014	.0008	.0000	.0001	.0003	.0000	.0000	.0002	.0002
#3	-.0007	.0081	.0002	-.0002	.0001	.0006	.0000	-.0002	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0160	.0131	.0001	.0002	.0031	.0002	.0000	.0002	-.0003
Stddev	.0033	.0263	.0105	.0001	.0002	.0038	.0001	.0006	.0012	.0009
%RSD	189.5	163.9	80.25	73.65	79.60	122.4	36.44	8093.	540.1	304.6
#1	.0054	.0172	.0080	.0001	.0002	.0020	.0001	-.0007	.0014	-.0003
#2	.0004	.0417	.0061	.0000	.0000	.0074	.0002	.0003	-.0011	-.0011
#3	-.0007	-.0108	.0252	.0001	.0004	.0000	.0002	.0004	.0004	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0000	.0000	.0008	-.0006	.0001	-.0001
Stddev	.0003	.0001	.0000	.0001	.0011	.0002	.0001
%RSD	31.76	138.9	38.65	15.39	176.5	286.1	42.45
#1	.0011	.0000	.0000	.0009	-.0008	-.0002	-.0002
#2	.0007	.0000	.0001	.0007	.0006	.0003	-.0001
#3	.0013	.0001	.0000	.0007	-.0017	.0001	-.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/27/2012 5:36:53 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1455.0	2667.9	21305.	8964.4
Stddev	.1	2.4	26.	63.4
%RSD	.00954	.09005	.12222	.70770
#1	1455.1	2665.2	21328.	9000.6
#2	1455.1	2669.8	21277.	9001.4
#3	1454.8	2668.6	21311.	8891.1

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 5:40:48 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	.2195	.0120	.2177	.0054	1.072	.0059	.0551	.0107	.0271
Stddev	.0001	.0077	.0006	.0004	.0000	.009	.0002	.0003	.0003	.0001
%RSD	1.615	3.513	5.431	.1866	.2777	.8101	2.657	.6179	3.006	.3562
#1	.0088	.2123	.0126	.2176	.0054	1.071	.0059	.0547	.0104	.0269
#2	.0090	.2184	.0120	.2182	.0054	1.064	.0058	.0552	.0110	.0271
#3	.0088	.2277	.0113	.2174	.0055	1.082	.0061	.0553	.0106	.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3193	10.54	5.300	.0170	.0512	10.51	.0449	.0054	.0054	.0094
Stddev	.0027	.04	.035	.0001	.0003	.01	.0001	.0004	.0004	.0014
%RSD	.8402	.3815	.6605	.3204	.5336	.0768	.2807	6.568	7.836	14.39
#1	.3178	10.57	5.274	.0170	.0512	10.51	.0449	.0051	.0053	.0092
#2	.3177	10.55	5.287	.0170	.0509	10.51	.0450	.0054	.0051	.0082
#3	.3224	10.50	5.340	.0169	.0514	10.50	.0447	.0058	.0059	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.0539	.0107	.0102	.0113	.0547	.0230
Stddev	.0008	.0004	.0000	.0001	.0017	.0003	.0003
%RSD	13.48	.8034	.3495	.8712	14.65	.6328	1.121
#1	.0052	.0535	.0107	.0102	.0126	.0543	.0228
#2	.0069	.0538	.0107	.0103	.0095	.0550	.0229
#3	.0061	.0543	.0108	.0101	.0119	.0547	.0233
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 5:40:48 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1367.9	2602.7	20790.	8838.0
Stddev	3.5	2.6	40.	44.3
%RSD	.25783	.10168	.19433	.50175
#1	1371.8	2605.7	20746.	8826.3
#2	1364.8	2600.8	20800.	8887.0
#3	1367.1	2601.5	20825.	8800.6

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/27/2012 5:44:33 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0089	.0009	.0001	.0000	.0035	.0002	-.0010	-.0002	-.0006
Stddev	.0001	.0017	.0001	.0001	.000	.0013	.0000	.0001	.0001	.0000
%RSD	69.72	18.49	13.52	102.6	640.5	36.08	13.30	12.00	82.45	4.213
#1	-.0001	.0099	.0011	.0002	.0000	.0025	.0002	-.0011	-.0001	-.0006
#2	-.0002	.0099	.0010	.0000	.0000	.0031	.0003	-.0009	-.0003	-.0006
#3	-.0003	.0070	.0008	.0002	.0000	.0050	.0002	-.0011	-.0001	-.0006
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0062	.0062	.0109	.0001	-.0001	.0207	-.0013	-.0010	.0004	.0001
Stddev	.0022	.0025	.0126	.0000	.0003	.0020	.0001	.0001	.0012	.0012
%RSD	35.02	40.47	116.1	34.05	338.6	9.664	10.89	13.23	304.2	850.0
#1	-.0039	.0035	.0130	.0001	-.0003	.0216	-.0015	-.0009	-.0010	.0011
#2	-.0065	.0085	.0223	.0001	.0002	.0220	-.0013	-.0012	.0012	-.0012
#3	-.0083	.0067	-.0027	.0001	-.0001	.0184	-.0012	-.0010	.0010	.0005
Check ?	None	None	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.31	-.0013	.0000	-.0001	-.0011	.0003	-.0004
Stddev	.01	.0001	.000	.0001	.0010	.0002	.0002
%RSD	.0269	8.914	111.8	99.71	96.71	83.57	54.14
#1	45.30	-.0014	.0000	.0000	-.0012	.0000	-.0006
#2	45.31	-.0013	-.0001	-.0002	.0000	.0004	-.0002
#3	45.32	-.0012	-.0001	-.0003	-.0020	.0004	-.0003
Check ?	Chk Pass	None	None	None	None	None	None
Value							
Range							

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/27/2012 5:44:33 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1436.8	2667.5	21293.	8922.6
Stddev	6.5	3.9	32.	34.8
%RSD	.44954	.14533	.15002	.38985
#1	1441.8	2669.8	21329.	8936.7
#2	1429.5	2663.1	21270.	8948.2
#3	1439.2	2669.8	21279.	8883.0

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	494.1	F.0035	F.0011	.0000	476.4	-.0001	.0000
Stddev	.0004	1.8	.0004	.0000	.000	2.7	.0001	.000
%RSD	131.3	.3653	11.64	3.614	43.99	.5750	40.87	580.0
#1	-.0001	492.8	.0033	.0011	-.0001	479.0	-.0002	-.0003
#2	.0007	493.4	.0032	.0011	.0000	473.5	-.0001	.0001
#3	.0004	496.2	.0039	.0011	.0000	476.8	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020	.0010				
Low Limit			-.0020	-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	187.6	-.0249	521.9	.0005	.0004	.0832
Stddev	.000	.0004	1.0	.0209	1.8	.0000	.0004	.0083
%RSD	1011.	121.5	.5436	83.87	.3493	4.026	102.3	9.975
#1	-.0004	.0008	187.6	-.0335	523.6	.0004	.0002	.0882
#2	.0004	.0000	186.6	-.0402	520.0	.0005	.0009	.0878
#3	-.0001	.0003	188.6	-.0011	522.2	.0005	.0001	.0736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	F-.0031	F.0027	F.0039	.0173	-.0002	F.0022	F-.0027
Stddev	.0003	.0037	.0037	.0039	.0027	.0012	.0000	.0000
%RSD	101.6	119.8	134.9	101.0	15.73	585.5	1.957	1.807
#1	.0007	.0005	.0056	.0010	.0203	-.0014	.0022	-.0026
#2	.0000	-.0069	.0041	.0084	.0166	.0000	.0023	-.0027
#3	.0003	-.0029	-.0014	.0024	.0149	.0009	.0022	-.0026
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	None	Chk Pass	Chk Fail	Chk Fail
High Limit		.0010	.0020	.0020			.0010	.0020
Low Limit		-.0010	-.0020	-.0020			-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	.0006	.0020
Stddev	.0026	.0002	.0001
%RSD	162.4	38.45	4.980
#1	-.0034	.0003	.0019
#2	.0014	.0007	.0019
#3	-.0029	.0007	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	977.96	2318.3	18337.	8344.5
Stddev	1.74	1.2	21.	43.4
%RSD	.17819	.05132	.11694	.51984
#1	979.69	2317.4	18330.	8308.1
#2	977.97	2317.8	18361.	8392.5
#3	976.21	2319.6	18320.	8332.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	494.1	.0000	F.0011	.0000	476.4	-.0001	.0000
Stddev	.0004	1.8	.000	.0000	.000	2.7	.0001	.000
%RSD	131.3	.3653	1062.	3.614	43.99	.5750	40.87	580.0
#1	-.0001	492.8	-.0002	.0011	-.0001	479.0	-.0002	-.0003
#2	.0007	493.4	-.0003	.0011	.0000	473.5	-.0001	.0001
#3	.0004	496.2	.0004	.0011	.0000	476.8	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	187.6	-.0249	521.9	.0005	.0004	.0832
Stddev	.000	.0004	1.0	.0209	1.8	.0000	.0004	.0083
%RSD	1011.	121.5	.5436	83.87	.3493	4.026	102.3	9.975
#1	-.0004	.0008	187.6	-.0335	523.6	.0004	.0002	.0882
#2	.0004	.0000	186.6	-.0402	520.0	.0005	.0009	.0878
#3	-.0001	.0003	188.6	-.0011	522.2	.0005	.0001	.0736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	.0001	.0000	.0173	-.0002	F.0022	F-.0027
Stddev	.0003	.004	.0037	.0039	.0027	.0012	.0000	.0000
%RSD	101.7	358300.	6781.	125300.	15.73	585.5	1.957	1.807
#1	.0007	.0036	.0029	-.0029	.0203	-.0014	.0022	-.0026
#2	.0000	-.0038	.0014	.0045	.0166	.0000	.0023	-.0027
#3	.0003	.0003	-.0041	-.0015	.0149	.0009	.0022	-.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit							.0010	.0020
Low Limit							-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	.0006	.0020
Stddev	.0026	.0002	.0001
%RSD	162.4	38.45	4.971
#1	-.0034	.0003	.0019
#2	.0014	.0007	.0019
#3	-.0029	.0007	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	977.96	2318.3	18337.	8344.5
Stddev	1.74	1.2	21.	43.4
%RSD	.17819	.05132	.11694	.51984
#1	979.69	2317.4	18330.	8308.1
#2	977.97	2317.8	18361.	8392.5
#3	976.21	2319.6	18320.	8332.8

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 5:53:21 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.068	487.6	.9996	.5423	.5085	472.7	.9240	.4588	.5100	.5805
Stddev	.006	4.4	.0021	.0033	.0008	4.7	.0004	.0002	.0013	.0006
%RSD	.5316	.8956	.2081	.6123	.1478	1.004	.0484	.0496	.2490	.1117
#1	1.074	485.5	.9999	.5387	.5077	467.2	.9245	.4586	.5097	.5798
#2	1.065	492.6	.9974	.5432	.5088	474.7	.9238	.4590	.5115	.5806
#3	1.065	484.7	1.001	.5452	.5091	476.1	.9237	.4589	.5090	.5811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.2	.0003	517.5	.4998	.9403	.0804	.9087	.9988	.9979	.9867
Stddev	1.2	.0049	1.9	.0007	.0012	.0023	.0022	.0019	.0037	.0054
%RSD	.6617	1941.	.3651	.1301	.1309	2.835	.2385	.1931	.3663	.5427
#1	182.9	.0031	516.5	.4995	.9400	.0808	.9064	1.000	.9939	.9850
#2	184.6	-.0054	519.7	.5006	.9392	.0780	.9089	.9995	1.001	.9824
#3	182.2	.0030	516.4	.4994	.9416	.0825	.9107	.9966	.9986	.9927
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.8575	1.033	1.036	.9919	.5148	.9231
Stddev	.0019	.0028	.004	.002	.0019	.0007	.0009
%RSD	25.19	.3248	.3423	.2112	.1903	.1410	.1025
#1	.0059	.8561	1.029	1.037	.9936	.5139	.9220
#2	.0071	.8557	1.033	1.034	.9922	.5153	.9234
#3	.0096	.8607	1.036	1.038	.9899	.5151	.9238
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 5:53:21 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	967.16	2324.0	18302.	8485.8
Stddev	3.88	2.9	36.	47.3
%RSD	.40082	.12408	.19827	.55735
#1	963.34	2320.8	18305.	8522.9
#2	967.04	2326.3	18336.	8432.5
#3	971.09	2325.0	18264.	8501.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 5:57:59 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2471	39.47	1.992	2.070	2.044	40.35	2.016	1.995	2.039	2.052
Stddev	.0018	.14	.020	.016	.006	.04	.020	.019	.007	.008
%RSD	.7362	.3592	.9767	.7500	.2845	.1019	.9746	.9704	.3551	.4018
#1	.2451	39.42	1.982	2.064	2.040	40.39	2.007	1.986	2.036	2.044
#2	.2487	39.36	1.978	2.058	2.043	40.35	2.004	1.982	2.047	2.061
#3	.2475	39.63	2.014	2.087	2.051	40.31	2.039	2.017	2.033	2.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.64	40.35	40.24	2.068	2.000	40.32	2.031	2.009	1.985	1.987
Stddev	.09	.26	.07	.006	.021	.18	.020	.015	.023	.020
%RSD	.2212	.6414	.1692	.3121	1.040	.4437	.9941	.7477	1.145	1.023
#1	39.60	40.30	40.18	2.065	1.992	40.21	2.021	2.001	1.973	1.979
#2	39.57	40.13	40.24	2.075	1.985	40.22	2.017	2.001	1.971	1.973
#3	39.74	40.63	40.31	2.063	2.024	40.52	2.054	2.027	2.011	2.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.018	2.062	2.074	2.064	2.041	2.125	2.029
Stddev	.021	.020	.011	.007	.016	.008	.019
%RSD	1.068	.9725	.5226	.3405	.7782	.3948	.9374
#1	2.011	2.052	2.069	2.062	2.027	2.121	2.018
#2	2.000	2.050	2.065	2.072	2.037	2.134	2.017
#3	2.042	2.085	2.086	2.059	2.058	2.119	2.051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 5:57:59 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1189.6	2533.7	20215.	8815.6
Stddev	8.8	23.9	47.	17.2
%RSD	.73846	.94430	.23495	.19509
#1	1196.0	2542.6	20241.	8795.8
#2	1193.2	2551.9	20160.	8827.1
#3	1179.6	2506.6	20244.	8823.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:02:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0085	.0015	.0002	.0001	.0086	.0001	.0000	.0000	.0007
Stddev	.0002	.0005	.0005	.0000	.0000	.0013	.0000	.000	.000	.0002
%RSD	92.82	6.136	33.89	19.42	21.62	15.02	42.94	5353.	337.8	37.14
#1	-.0002	.0088	.0018	.0002	.0001	.0100	.0001	-.0001	-.0001	.0006
#2	-.0005	.0089	.0019	.0002	.0001	.0082	.0000	.0001	.0001	.0009
#3	-.0001	.0079	.0009	.0002	.0001	.0075	.0001	.0000	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107	-.0030	.0232	.0002	.0000	.0181	.0004	-.0001	-.0007	-.0018
Stddev	.0057	.0153	.0058	.0001	.0001	.0061	.0002	.0006	.0009	.0023
%RSD	52.84	515.8	25.05	28.06	5191.	33.77	42.17	475.2	131.5	126.1
#1	.0170	.0088	.0176	.0003	.0001	.0130	.0004	-.0008	-.0007	-.0030
#2	.0092	-.0202	.0292	.0002	-.0001	.0164	.0003	.0000	.0002	.0008
#3	.0059	.0025	.0229	.0003	.0000	.0248	.0006	.0004	-.0015	-.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	.0006	.0001	.0003	.0002	.0001	.0003
Stddev	.0006	.0000	.0000	.0001	.0004	.0002	.0001
%RSD	22.33	5.919	23.38	30.06	219.8	158.9	31.54
#1	.0030	.0006	.0001	.0003	-.0002	.0004	.0004
#2	.0019	.0006	.0001	.0003	.0003	.0000	.0002
#3	.0026	.0006	.0001	.0002	.0004	.0000	.0004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:02:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1443.5	2663.5	21077.	8833.1
Stddev	1.6	4.6	47.	39.4
%RSD	.11028	.17455	.22462	.44652
#1	1444.6	2663.9	21037.	8856.4
#2	1441.7	2658.7	21063.	8855.4
#3	1444.2	2668.0	21129.	8787.6

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/27/2012 6:06:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0100	-.0009	.0000	-.0001	.0194	.0000	-.0002	.0002	-.0002
Stddev	.0004	.0011	.0005	.0001	.0000	.0008	.000	.0002	.0001	.0002
%RSD	94.84	11.26	55.99	3488.	41.57	3.898	25.81	97.04	31.85	98.12
#1	-.0007	.0108	-.0013	-.0001	.0000	.0202	.0000	-.0004	.0003	.0000
#2	-.0004	.0087	-.0003	.0001	-.0001	.0191	.0000	-.0001	.0002	-.0004
#3	.0000	.0105	-.0011	.0000	-.0001	.0188	.0000	.0000	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305	.0177	.0064	.0004	.0005	.0095	.0011	-.0010	.0004	.0003
Stddev	.0022	.0126	.0085	.0000	.0002	.0049	.0001	.0005	.0001	.0008
%RSD	7.060	71.14	132.7	4.524	40.01	51.91	9.582	54.54	26.66	260.9
#1	.0327	.0204	.0001	.0004	.0006	.0112	.0012	-.0015	.0004	-.0001
#2	.0304	.0039	.0030	.0004	.0005	.0133	.0010	-.0005	.0003	-.0002
#3	.0284	.0286	.0162	.0004	.0003	.0039	.0012	-.0009	.0004	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161	.0139	.0000	-.0003	-.0007	.0002	.0010
Stddev	.0003	.0003	.0001	.0001	.0011	.0001	.0001
%RSD	2.154	2.501	709.6	20.44	162.8	67.80	6.909
#1	.0163	.0144	.0001	-.0002	-.0014	.0002	.0011
#2	.0157	.0137	-.0001	-.0003	-.0012	.0000	.0011
#3	.0163	.0138	.0000	-.0004	.0006	.0002	.0010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/27/2012 6:06:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1405.9	2594.3	20627.	8679.2
Stddev	5.8	13.4	68.	51.1
%RSD	.41528	.51595	.32854	.58930
#1	1399.6	2580.4	20560.	8637.4
#2	1406.9	2595.4	20625.	8736.3
#3	1411.2	2607.1	20696.	8664.1

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/27/2012 6:11:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	27.46	1.934	2.186	.0535	25.60	.0505	.5112	.2126	.2655
Stddev	.0006	.05	.007	.003	.0002	.14	.0002	.0017	.0011	.0012
%RSD	1.333	.1882	.3874	.1316	.4109	.5326	.3374	.3371	.5277	.4473
#1	.0463	27.40	1.926	2.183	.0533	25.57	.0504	.5099	.2113	.2641
#2	.0473	27.48	1.935	2.188	.0534	25.48	.0504	.5105	.2133	.2663
#3	.0474	27.50	1.941	2.188	.0537	25.75	.0507	.5132	.2132	.2660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.22	25.57	25.22	.5402	.4904	25.56	.5248	.4741	.4939	1.922
Stddev	.06	.03	.10	.0026	.0020	.10	.0020	.0010	.0023	.007
%RSD	.2273	.1323	.3993	.4865	.4065	.3781	.3836	.2046	.4620	.3425
#1	27.18	25.55	25.20	.5372	.4890	25.45	.5248	.4739	.4914	1.920
#2	27.19	25.61	25.13	.5416	.4896	25.64	.5228	.4752	.4959	1.917
#3	27.29	25.56	25.33	.5418	.4927	25.58	.5268	.4733	.4944	1.930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163	.4969	.5010	.5039	1.938	.5308	.5124
Stddev	.0004	.0027	.0005	.0018	.010	.0019	.0029
%RSD	2.169	.5397	.1059	.3535	.5010	.3545	.5744
#1	.0159	.4941	.5005	.5018	1.938	.5287	.5108
#2	.0165	.4971	.5015	.5051	1.929	.5322	.5105
#3	.0165	.4994	.5009	.5047	1.948	.5316	.5158
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/27/2012 6:11:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1232.1	2506.8	19869.	8513.4
Stddev	2.9	5.2	61.	40.5
%RSD	.23712	.20563	.30899	.47549
#1	1229.8	2505.2	19909.	8509.4
#2	1235.4	2512.6	19798.	8555.8
#3	1231.0	2502.6	19900.	8475.1

Zoom In
Zoom Out

Sample Name: F95217-1 Acquired: 7/27/2012 6:15:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	350.4	.1142	2.793	.0268	2231.	-.0073	.1503	.4598	.2906
Stddev	.0047	.3	.0053	.010	.0002	3.	.0013	.0014	.0060	.0011
%RSD	243.3	.0966	4.606	.3737	.8438	.1468	18.17	.9358	1.308	.3796
#1	-.0048	350.0	.1193	2.801	.0271	2229.	-.0081	.1493	.4625	.2900
#2	.0035	350.7	.1088	2.798	.0268	2230.	-.0081	.1519	.4529	.2898
#3	-.0046	350.5	.1144	2.781	.0266	2235.	-.0058	.1498	.4639	.2918

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	410.1	64.01	371.4	5.449	.0121	62.06	.4276	.2316	-.0225	-.0017
Stddev	.2	.32	.7	.014	.0011	.16	.0036	.0082	.0094	.0114
%RSD	.0514	.5069	.1950	.2521	9.501	.2616	.8350	3.551	41.64	683.8
#1	409.8	63.68	372.2	5.438	.0108	61.98	.4268	.2394	-.0137	.0013
#2	410.2	64.33	370.8	5.445	.0126	62.24	.4245	.2326	-.0214	-.0143
#3	410.1	64.00	371.1	5.464	.0129	61.95	.4315	.2230	-.0323	.0080

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	44.96	.0279	4.587	3.026	.0047	.7107	1.148
Stddev	.17	.0048	.010	.011	.0056	.0011	.003
%RSD	.3792	17.06	.2182	.3586	119.6	.1583	.2239
#1	44.78	.0244	4.595	3.020	.0016	.7094	1.147
#2	45.12	.0333	4.591	3.019	.0013	.7116	1.147
#3	44.97	.0259	4.576	3.038	.0112	.7111	1.151

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1160.0	2577.5	20314.	8845.6
Stddev	1.1	6.9	38.	8.0
%RSD	.09526	.26753	.18689	.09068
#1	1159.1	2582.3	20353.	8841.4
#2	1161.2	2569.6	20311.	8840.6
#3	1159.8	2580.5	20277.	8854.8

Zoom In
Zoom Out

Sample Name: MP23311-D1 Acquired: 7/27/2012 6:19:36 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0064	290.7	.1064	3.457	.0239	2185.	-.0055	.1598	.3570	.2590
Stddev	.0026	.5	.0040	.001	.0002	11.	.0003	.0014	.0074	.0013
%RSD	41.29	.1706	3.765	.0394	.7358	.4838	5.226	.8631	2.065	.5108
#1	-.0081	290.2	.1023	3.459	.0237	2173.	-.0057	.1582	.3486	.2599
#2	-.0077	290.9	.1103	3.457	.0240	2190.	-.0052	.1606	.3600	.2575
#3	-.0034	291.1	.1067	3.456	.0239	2192.	-.0055	.1605	.3625	.2597

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	345.3	54.95	324.1	5.914	.0084	57.80	.3841	.2227	-.0258	-.0116
Stddev	1.0	.10	.4	.025	.0016	.10	.0027	.0051	.0127	.0113
%RSD	.2925	.1769	.1273	.4294	18.43	.1780	.6915	2.306	49.21	97.20
#1	344.3	54.84	323.7	5.922	.0102	57.79	.3858	.2218	-.0313	-.0246
#2	346.3	54.99	324.5	5.885	.0077	57.91	.3810	.2282	-.0348	-.0041
#3	345.4	55.02	324.1	5.933	.0073	57.70	.3854	.2180	-.0113	-.0062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	59.17	.0265	5.247	2.623	-.0161	.6180	1.044
Stddev	.10	.0071	.001	.014	.0239	.0007	.003
%RSD	.1711	26.94	.0127	.5243	148.5	.1075	.3021
#1	59.10	.0343	5.247	2.622	-.0023	.6188	1.045
#2	59.12	.0204	5.247	2.610	-.0436	.6178	1.041
#3	59.29	.0248	5.246	2.638	-.0023	.6176	1.047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1188.1	2624.0	20764.	9126.5
Stddev	3.0	2.8	58.	28.3
%RSD	.25570	.10591	.27750	.31013
#1	1185.5	2622.0	20721.	9158.3
#2	1187.3	2627.2	20830.	9103.9
#3	1191.4	2622.9	20742.	9117.4

Zoom In
Zoom Out

Sample Name: MP23311-SD1 Acquired: 7/27/2012 6:24:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0057	356.7	.1432	2.854	.0260	2373.	-.0108	.1543	.4866	.3132
Stddev	.0032	1.6	.0316	.025	.0010	13.	.0035	.0053	.0259	.0068
%RSD	56.19	.4624	22.09	.8611	3.748	.5624	32.34	3.464	5.333	2.166
#1	-.0081	356.3	.1795	2.827	.0253	2363.	-.0074	.1593	.4941	.3208
#2	-.0021	358.5	.1285	2.862	.0271	2388.	-.0105	.1487	.4577	.3109
#3	-.0071	355.2	.1217	2.874	.0257	2367.	-.0144	.1551	.5079	.3078

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	432.9	63.52	384.9	5.754	.0026	63.08	.4659	.2257	-.0825	-.0333
Stddev	2.2	.84	2.2	.015	.0051	.43	.0081	.0185	.0210	.0320
%RSD	.5074	1.318	.5673	.2556	199.8	.6749	1.744	8.201	25.49	96.23
#1	431.0	64.48	383.9	5.737	.0009	62.61	.4705	.2043	-.0649	.0037
#2	435.3	62.94	387.4	5.764	-.0015	63.42	.4707	.2364	-.1058	-.0524
#3	432.4	63.15	383.4	5.760	.0083	63.22	.4565	.2364	-.0768	-.0511

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	46.44	.0036	4.752	3.129	-.0443	.7416	1.215
Stddev	.06	.0197	.014	.023	.0344	.0122	.007
%RSD	.1298	548.0	.3036	.7429	77.62	1.641	.5795
#1	46.44	.0142	4.740	3.125	-.0552	.7511	1.210
#2	46.50	.0158	4.768	3.154	-.0719	.7459	1.223
#3	46.38	-.0192	4.748	3.108	-.0058	.7279	1.212

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1304.8	2593.8	20473.	8660.6
Stddev	2.8	5.0	51.	46.2
%RSD	.21397	.19293	.25126	.53341
#1	1303.9	2593.0	20517.	8688.1
#2	1307.9	2599.2	20416.	8607.3
#3	1302.5	2589.2	20485.	8686.5

Zoom In
Zoom Out

Sample Name: MP23311-PS1 Acquired: 7/27/2012 6:28:25 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0489	348.0	.2090	3.023	.0816	2202.	.0435	.1969	.5069	.3918
Stddev	.0042	.2	.0108	.016	.0002	5.	.0007	.0006	.0050	.0039
%RSD	8.615	.0492	5.157	.5289	.2702	.2203	1.722	.3204	.9891	1.007
#1	.0537	348.1	.2041	3.020	.0819	2203.	.0438	.1976	.5047	.3872
#2	.0460	347.8	.2014	3.009	.0815	2196.	.0441	.1965	.5034	.3939
#3	.0469	348.0	.2213	3.041	.0815	2206.	.0427	.1966	.5126	.3942

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	407.8	74.24	373.1	5.424	.1109	71.91	.5213	.2730	.0795	.0987
Stddev	.2	.20	.8	.017	.0015	.20	.0021	.0076	.0138	.0111
%RSD	.0552	.2732	.2234	.3185	1.315	.2769	.4069	2.781	17.39	11.28
#1	407.6	74.44	372.4	5.424	.1119	72.02	.5237	.2666	.0683	.1069
#2	407.8	74.04	374.0	5.407	.1093	71.68	.5197	.2814	.0950	.1030
#3	408.1	74.24	372.9	5.441	.1117	72.03	.5206	.2709	.0753	.0860

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.01	.0724	4.582	3.117	.0840	.7556	1.408
Stddev	.12	.0053	.011	.004	.0298	.0013	.003
%RSD	.2580	7.311	.2490	.1283	35.47	.1696	.2171
#1	45.14	.0676	4.580	3.116	.1114	.7568	1.411
#2	45.00	.0716	4.572	3.121	.0882	.7556	1.409
#3	44.90	.0781	4.595	3.113	.0523	.7543	1.405

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1158.2	2574.0	20227.	8727.6
Stddev	1.3	8.0	42.	24.9
%RSD	.11552	.31136	.20575	.28547
#1	1159.8	2566.4	20188.	8707.9
#2	1157.5	2573.2	20271.	8755.6
#3	1157.4	2582.3	20222.	8719.2

Zoom In Zoom Out

Sample Name: MP23311-S1 Acquired: 7/27/2012 6:32:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0456	377.7	2.049	5.405	.0795	2259.	.0436	.6372	.6392	.5353
Stddev	.0050	.8	.011	.007	.0001	8.	.0000	.0021	.0012	.0065
%RSD	10.87	.2027	.5183	.1367	.1814	.3448	.0947	.3301	.1801	1.205
#1	.0451	376.8	2.044	5.406	.0794	2255.	.0436	.6359	.6387	.5279
#2	.0508	378.3	2.061	5.397	.0796	2268.	.0435	.6360	.6383	.5390
#3	.0409	377.9	2.042	5.411	.0794	2254.	.0436	.6396	.6405	.5391

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	417.5	93.39	393.3	6.246	.4323	84.31	.9013	.7437	.1396	1.934
Stddev	1.0	.08	.6	.017	.0009	.20	.0039	.0092	.0034	.027
%RSD	.2434	.0907	.1578	.2674	.1987	.2327	.4378	1.241	2.471	1.396
#1	416.4	93.31	392.9	6.242	.4317	84.47	.9028	.7527	.1427	1.956
#2	418.3	93.37	394.0	6.264	.4320	84.09	.8969	.7441	.1359	1.941
#3	417.9	93.48	393.1	6.232	.4333	84.38	.9044	.7343	.1402	1.904

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	40.21	.4778	5.747	3.592	2.044	1.197	1.602
Stddev	.15	.0059	.007	.018	.020	.002	.004
%RSD	.3780	1.229	.1140	.5151	.9817	.1666	.2580
#1	40.22	.4757	5.753	3.572	2.041	1.196	1.604
#2	40.06	.4732	5.740	3.609	2.025	1.197	1.604
#3	40.36	.4844	5.748	3.594	2.065	1.200	1.597

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1157.6	2573.3	20274.	8796.4
Stddev	2.1	9.3	28.	6.3
%RSD	.18508	.36085	.13983	.07106
#1	1159.6	2573.8	20303.	8802.7
#2	1157.7	2582.4	20247.	8790.2
#3	1155.4	2563.8	20273.	8796.1

Zoom In Zoom Out

Sample Name: MP23311-S2 Acquired: 7/27/2012 6:37:15 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0463	406.7	1.984	5.781	.0811	2440.	.0417	.6705	.6499	.5751
Stddev	.0047	1.3	.011	.026	.0007	13.	.0010	.0007	.0029	.0019
%RSD	10.20	.3306	.5603	.4428	.9189	.5502	2.339	.1087	.4511	.3341
#1	.0447	405.1	1.996	5.762	.0819	2426.	.0423	.6711	.6486	.5768
#2	.0425	407.2	1.975	5.771	.0809	2440.	.0406	.6697	.6532	.5753
#3	.0515	407.6	1.980	5.810	.0805	2453.	.0422	.6706	.6478	.5730

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	440.0	97.30	410.5	7.059	.4101	92.16	.9511	.7471	.1090	1.861
Stddev	1.6	.21	2.2	.021	.0023	.24	.0034	.0069	.0121	.021
%RSD	.3528	.2163	.5322	.2956	.5701	.2590	.3570	.9186	11.09	1.100
#1	438.2	97.18	408.1	7.038	.4077	92.04	.9488	.7406	.1086	1.876
#2	440.6	97.18	411.4	7.059	.4101	92.01	.9550	.7543	.1213	1.870
#3	441.1	97.55	412.2	7.080	.4124	92.44	.9494	.7464	.0971	1.838

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	52.26	.4578	6.864	3.675	1.969	1.222	1.718
Stddev	.04	.0044	.023	.022	.010	.002	.002
%RSD	.0689	.9558	.3344	.6022	.4862	.1521	.1155
#1	52.24	.4565	6.840	3.649	1.958	1.220	1.717
#2	52.24	.4543	6.868	3.688	1.975	1.222	1.718
#3	52.30	.4627	6.885	3.687	1.973	1.224	1.720

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1156.2	2576.5	20447.	8916.5
Stddev	2.7	8.4	28.	10.8
%RSD	.23403	.32689	.13933	.12072
#1	1158.0	2577.2	20464.	8928.3
#2	1157.4	2584.6	20463.	8914.1
#3	1153.1	2567.8	20414.	8907.2

Zoom In Zoom Out

Sample Name: F95217-2 Acquired: 7/27/2012 6:41:39 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	312.6	.0967	3.588	.0252	2352.	-.0055	.1543	.3889	.2655
Stddev	.0021	1.5	.0066	.020	.0003	22.	.0006	.0022	.0019	.0010
%RSD	127.2	.4693	6.772	.5572	1.119	.9153	11.19	1.416	.4860	.3679
#1	-.0033	311.7	.0903	3.569	.0249	2336.	-.0048	.1518	.3891	.2647
#2	.0007	311.9	.1034	3.585	.0251	2344.	-.0060	.1553	.3907	.2666
#3	-.0025	314.3	.0966	3.609	.0255	2376.	-.0058	.1559	.3869	.2652

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	371.6	58.69	333.0	5.983	.0109	59.04	.3948	.2266	-.0113	.0051
Stddev	1.3	.30	1.6	.004	.0028	.18	.0045	.0101	.0188	.0044
%RSD	.3386	.5075	.4893	.0720	25.93	.3079	1.143	4.478	166.1	86.44
#1	370.6	59.00	331.3	5.981	.0124	58.86	.3964	.2314	-.0043	.0038
#2	371.3	58.40	333.0	5.988	.0126	59.22	.3897	.2149	.0030	.0015
#3	373.0	58.66	334.6	5.980	.0076	59.04	.3982	.2334	-.0326	.0099

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	49.93	.0263	6.583	2.877	-.0169	.6546	1.069
Stddev	.09	.0008	.008	.014	.0049	.0019	.004
%RSD	.1882	3.198	.1280	.4779	29.15	.2970	.3818
#1	49.97	.0263	6.574	2.887	-.0132	.6526	1.066
#2	49.83	.0254	6.585	2.861	-.0225	.6565	1.069
#3	50.00	.0271	6.591	2.884	-.0150	.6548	1.074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1165.4	2573.2	20273.	8804.8
Stddev	2.2	5.9	30.	40.8
%RSD	.19202	.22873	.14896	.46371
#1	1163.4	2571.1	20266.	8838.2
#2	1165.0	2579.8	20306.	8816.9
#3	1167.8	2568.6	20247.	8759.3

Zoom In Zoom Out

Sample Name: F95217-3 Acquired: 7/27/2012 6:46:07 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0032	288.1	.0889	4.277	.0226	2506.	-.0063	.1412	.3764	.2408
Stddev	.0039	.4	.0014	.001	.0003	20.	.0003	.0014	.0051	.0019
%RSD	122.2	.1418	1.581	.0259	1.430	.8080	4.519	1.023	1.362	.7737
#1	-.0076	288.3	.0873	4.278	.0227	2505.	-.0063	.1395	.3741	.2399
#2	.0000	288.3	.0899	4.277	.0228	2487.	-.0061	.1419	.3823	.2395
#3	-.0020	287.6	.0896	4.276	.0222	2527.	-.0067	.1422	.3729	.2429

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	360.4	55.83	306.5	6.422	.0099	55.72	.3591	.2291	-.0214	-.0001
Stddev	.1	.15	.6	.004	.0024	.13	.0032	.0091	.0077	.0147
%RSD	.0394	.2615	.1904	.0706	24.51	.2258	.8850	3.972	35.83	10190.
#1	360.2	55.75	306.0	6.418	.0102	55.80	.3559	.2278	-.0294	.0120
#2	360.4	55.99	306.3	6.427	.0122	55.79	.3623	.2388	-.0207	.0040
#3	360.5	55.73	307.2	6.421	.0074	55.58	.3590	.2207	-.0141	-.0165

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.91	.0175	10.20	2.911	-.0248	.6571	.9948
Stddev	.09	.0037	.02	.003	.0135	.0038	.0017
%RSD	.1881	20.98	.1696	.1137	54.18	.5768	.1723
#1	47.82	.0155	10.22	2.911	-.0233	.6554	.9944
#2	47.91	.0218	10.20	2.914	-.0390	.6544	.9933
#3	48.00	.0153	10.19	2.908	-.0122	.6614	.9967

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1162.3	2576.1	20241.	8812.7
Stddev	2.5	5.5	21.	31.6
%RSD	.21373	.21417	.10539	.35853
#1	1164.9	2582.4	20264.	8818.2
#2	1162.2	2573.6	20222.	8841.2
#3	1159.9	2572.3	20236.	8778.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 6:50:33 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2583	41.38	2.074	2.177	2.151	42.32	2.096	2.074	2.138
Stddev	.0014	.10	.006	.006	.005	.10	.002	.004	.006
%RSD	.5260	.2438	.2793	.2799	.2200	.2471	.1090	.2022	.2912
#1	.2598	41.27	2.075	2.174	2.150	42.40	2.095	2.074	2.145
#2	.2572	41.40	2.068	2.173	2.148	42.21	2.093	2.069	2.133
#3	.2580	41.47	2.079	2.184	2.157	42.36	2.098	2.078	2.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.164	41.65	42.24	42.59	2.177	2.075	42.13	2.109	2.085
Stddev	.006	.05	.16	.23	.009	.004	.16	.003	.005
%RSD	.2929	.1173	.3894	.5402	.4135	.1914	.3904	.1387	.2418
#1	2.168	41.68	42.11	42.66	2.186	2.075	41.95	2.108	2.090
#2	2.157	41.59	42.18	42.33	2.176	2.071	42.18	2.107	2.080
#3	2.167	41.67	42.42	42.77	2.169	2.079	42.27	2.113	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.073	2.069	2.106	2.148	2.166	2.169	2.111	F2.218	2.109
Stddev	.006	.001	.006	.002	.004	.005	.003	.007	.001
%RSD	.3066	.0226	.2720	.0867	.1984	.2264	.1601	.3254	.0409
#1	2.070	2.069	2.101	2.146	2.162	2.175	2.113	2.226	2.109
#2	2.068	2.068	2.104	2.147	2.165	2.166	2.108	2.212	2.110
#3	2.080	2.068	2.112	2.150	2.171	2.167	2.113	2.217	2.109
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								2.000	
Range								10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 6:50:33 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1156.7	2450.9	19367.	8343.4
Stddev	3.5	5.3	61.	27.2
%RSD	.30535	.21534	.31726	.32606
#1	1155.3	2450.3	19309.	8327.6
#2	1160.8	2456.5	19431.	8374.9
#3	1154.2	2446.0	19361.	8327.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:54:40 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0113	.0010	.0002	.0002	.0123	.0001	.0000	.0003	.0008
Stddev	.0003	.0008	.0010	.0001	.0000	.0030	.0000	.000	.0001	.0001
%RSD	161.1	7.084	96.25	34.08	24.36	24.67	27.84	224.5	45.35	15.50
#1	-.0004	.0108	.0022	.0001	.0002	.0109	.0001	-.0001	.0001	.0009
#2	-.0002	.0109	.0004	.0002	.0002	.0102	.0001	-.0001	.0004	.0007
#3	.0001	.0122	.0005	.0001	.0001	.0158	.0001	.0001	.0004	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0083	.0126	.0003	.0002	.0292	.0001	-.0005	-.0008	.0013
Stddev	.0037	.0062	.0100	.0001	.0002	.0026	.0003	.0010	.0008	.0005
%RSD	55.01	74.84	79.60	32.65	75.53	9.010	253.7	228.6	97.44	34.39
#1	.0108	.0014	.0242	.0002	.0001	.0303	.0004	-.0006	-.0015	.0008
#2	.0060	.0101	.0057	.0004	.0005	.0262	.0001	-.0014	-.0011	.0014
#3	.0035	.0135	.0080	.0002	.0002	.0311	-.0002	.0007	.0001	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	.0006	.0002	-.0002	.0000	.0004	.0004
Stddev	.0010	.0001	.0001	.0002	.0011	.0002	.0001
%RSD	16.77	13.15	25.15	64.44	2592.	63.19	37.12
#1	.0068	.0006	.0003	-.0003	-.0011	.0006	.0005
#2	.0049	.0007	.0002	-.0001	.0011	.0004	.0004
#3	.0057	.0005	.0002	-.0004	.0001	.0001	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:54:40 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1435.6	2641.4	20820.	8660.8
Stddev	1.2	1.9	43.	24.5
%RSD	.08633	.07180	.20495	.28284
#1	1435.4	2641.6	20845.	8684.3
#2	1436.9	2643.1	20844.	8662.7
#3	1434.5	2639.3	20770.	8635.4

Zoom In Zoom Out

Sample Name: Blank Acquired: 7/27/2012 6:59:49 Type: Cal
Method: 60102007_042011(v155) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0002	.0060	-.0013	.0058	.0023	.0043	-.0007	-.0009	.0002
Stddev	.0004	.0006	.0002	.0011	.0004	.0001	.0001	.0006	.0001
%RSD	204.7	10.73	13.85	19.02	16.95	1.783	13.79	68.82	73.38
#1	-.0005	.0053	-.0012	.0052	.0020	.0044	-.0008	-.0015	.0000
#2	-.0002	.0064	-.0012	.0052	.0028	.0042	-.0006	-.0009	.0003
#3	.0002	.0064	-.0015	.0071	.0022	.0042	-.0008	-.0003	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0066	.0016	-.0004	.0001	.0009	.0013	.0062	-.0005	-.0016
Stddev	.0001	.0002	.0008	.0002	.0001	.0002	.0002	.0002	.0005
%RSD	1.017	15.09	212.9	429.5	10.72	11.94	2.765	41.98	29.60
#1	.0066	.0015	-.0005	-.0002	.0010	.0011	.0060	-.0005	-.0012
#2	.0066	.0014	-.0012	.0003	.0009	.0013	.0061	-.0007	-.0021
#3	.0067	.0019	.0005	.0001	.0009	.0014	.0064	-.0003	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-.0007	.0112	.0008	.0006	.0013	-.0024	-.0003	.0026
Stddev	.0003	.0002	.0002	.0002	.0004	.0003	.0002	.0001	.0001
%RSD	51.35	31.74	1.973	21.27	72.50	25.17	9.135	31.95	5.413
#1	.0006	-.0007	.0114	.0007	.0002	.0016	-.0025	-.0002	.0026
#2	.0007	-.0005	.0110	.0010	.0006	.0010	-.0022	-.0003	.0025
#3	.0002	-.0009	.0112	.0007	.0010	.0012	-.0026	-.0004	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1419.7	2606.7	20466.	8490.6
Stddev	1.2	1.3	16.	66.9
%RSD	.08345	.05117	.07838	.78806
#1	1418.8	2605.5	20480.	8567.5
#2	1421.0	2606.4	20449.	8458.1
#3	1419.1	2608.1	20470.	8446.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 7:14:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2518	40.41	2.000	2.064	2.064	40.63	2.034	2.030	2.047	2.012
Stddev	.0023	.18	.004	.003	.004	.14	.005	.006	.009	.004
%RSD	.9048	.4533	.1848	.1596	.1885	.3524	.2421	.2776	.4188	.2052
#1	.2501	40.23	2.002	2.061	2.060	40.50	2.032	2.029	2.042	2.007
#2	.2544	40.59	2.002	2.064	2.067	40.78	2.040	2.037	2.057	2.015
#3	.2510	40.41	1.996	2.068	2.066	40.60	2.030	2.026	2.042	2.013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.40	40.32	40.54	2.058	2.037	40.27	2.034	1.995	2.011	2.011
Stddev	.11	.12	.14	.005	.008	.06	.005	.003	.002	.003
%RSD	.2609	.2873	.3494	.2409	.3814	.1382	.2406	.1310	.1124	.1372
#1	40.32	40.19	40.37	2.054	2.034	40.21	2.034	1.994	2.010	2.012
#2	40.52	40.41	40.61	2.063	2.046	40.31	2.039	1.998	2.013	2.013
#3	40.37	40.35	40.63	2.058	2.031	40.30	2.030	1.993	2.009	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.028	2.053	2.064	2.050	2.014	2.099	2.029
Stddev	.004	.006	.005	.004	.007	.006	.007
%RSD	.2230	.3137	.2362	.2185	.3479	.2669	.3697
#1	2.028	2.048	2.058	2.045	2.022	2.093	2.025
#2	2.032	2.060	2.066	2.054	2.010	2.104	2.038
#3	2.023	2.052	2.067	2.052	2.011	2.099	2.025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 7:14:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1172.7	2497.9	19649.	8421.4
Stddev	3.6	2.7	55.	45.0
%RSD	.30719	.10694	.27903	.53472
#1	1169.1	2494.8	19706.	8455.3
#2	1176.3	2499.0	19596.	8370.3
#3	1172.7	2499.8	19644.	8438.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 7:18:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0048	.0011	.0002	.0002	.0042	.0000	.0001	-.0003
Stddev	.0004	.0024	.0007	.0001	.0000	.0005	.0001	.0001	.0003
%RSD	73.62	50.77	64.99	54.61	15.92	11.30	414.5	77.78	86.46
#1	-.0005	.0070	.0009	.0001	.0002	.0044	.0000	.0000	-.0001
#2	-.0010	.0022	.0020	.0001	.0001	.0046	.0001	.0002	-.0006
#3	-.0002	.0052	.0006	.0002	.0002	.0037	.0000	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0177	.0313	-.0141	.0002	F.0010	.0311	.0003	.0007
Stddev	.0002	.0024	.0035	.0130	.0000	.0003	.0052	.0002	.0012
%RSD	340.1	13.62	11.15	92.10	5.627	25.03	16.67	64.79	179.1
#1	.0002	.0201	.0273	-.0023	.0002	.0012	.0308	.0005	.0012
#2	-.0002	.0178	.0334	-.0120	.0002	.0012	.0261	.0004	-.0007
#3	-.0002	.0153	.0332	-.0280	.0002	.0007	.0365	.0001	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0010	-.0010	.0004	.0001	.0019	F.0025	.0002	.0003
Stddev	.0008	.0015	.0005	.0003	.0000	.0002	.0018	.0002	.0000
%RSD	60.97	141.9	50.58	74.31	9.935	8.219	74.08	111.9	16.64
#1	.0021	.0013	-.0015	.0001	.0001	.0020	.0038	.0000	.0003
#2	.0015	-.0006	-.0005	.0007	.0001	.0020	.0004	.0003	.0003
#3	.0005	.0023	-.0009	.0004	.0001	.0017	.0032	.0002	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0020		
Low Limit							-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 7:18:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1450.1	2682.0	21085.	8714.0
Stddev	2.8	3.2	40.	26.2
%RSD	.19159	.11842	.18858	.30039
#1	1448.2	2683.7	21123.	8742.0
#2	1448.9	2684.1	21090.	8709.9
#3	1453.3	2678.4	21044.	8690.1

Zoom In Zoom Out

Sample Name: F95217-4 Acquired: 7/27/2012 7:21:53 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0062	183.2	.0386	1.305	.0099	4009.	-.0105	.0691	.2270	.1187
Stddev	.0042	.3	.0049	.005	.0005	10.	.0010	.0023	.0041	.0022
%RSD	67.99	.1448	12.63	.3554	5.459	.2373	9.783	3.364	1.797	1.882
#1	-.0035	182.9	.0340	1.310	.0095	4019.	-.0108	.0718	.2289	.1179
#2	-.0041	183.4	.0438	1.303	.0097	4006.	-.0094	.0676	.2299	.1213
#3	-.0111	183.1	.0381	1.302	.0105	4001.	-.0114	.0680	.2224	.1170

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	186.1	40.38	173.1	3.842	.0159	15.90	.1769	.1412	-.0110	.0019
Stddev	.4	.05	.7	.016	.0030	.01	.0016	.0110	.0043	.0257
%RSD	.2329	.1167	.4331	.4174	18.73	.0582	.8807	7.799	39.27	1357.
#1	185.7	40.35	172.5	3.860	.0189	15.91	.1771	.1515	-.0159	-.0157
#2	186.5	40.43	173.9	3.837	.0129	15.90	.1753	.1426	-.0081	.0314
#3	186.1	40.36	172.9	3.829	.0159	15.90	.1784	.1296	-.0089	-.0100

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	45.11	.0179	14.47	2.571	.0154	.3445	.5520
Stddev	.06	.0058	.03	.009	.0129	.0014	.0015
%RSD	.1243	32.28	.2358	.3365	83.87	.4132	.2688
#1	45.05	.0232	14.47	2.574	.0035	.3429	.5503
#2	45.13	.0186	14.50	2.579	.0291	.3453	.5531
#3	45.16	.0118	14.43	2.562	.0135	.3454	.5526

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1133.7	2422.1	19264.	8406.5
Stddev	2.8	2.1	73.	25.1
%RSD	.24461	.08752	.38122	.29875
#1	1135.1	2421.6	19195.	8408.8
#2	1135.5	2424.4	19256.	8430.4
#3	1130.5	2420.3	19341.	8380.3

Zoom In Zoom Out

Sample Name: F95217-5 Acquired: 7/27/2012 7:26:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	56.17	.0019	.4768	.0009	4864.	-.0127	.0168	.0923	.0299
Stddev	.0065	.11	.0107	.0016	.0004	11.	.0004	.0011	.0045	.0019
%RSD	539.5	.2015	562.9	.3383	44.69	.2179	3.162	6.317	4.870	6.197
#1	.0052	56.29	.0142	.4749	.0006	4852.	-.0126	.0165	.0937	.0294
#2	-.0077	56.17	-.0050	.4774	.0014	4866.	-.0123	.0159	.0873	.0319
#3	-.0012	56.06	-.0035	.4780	.0007	4873.	-.0131	.0180	.0960	.0283

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	61.05	13.98	26.54	.8255	.0066	2.573	.0441	.0287	-.0017	.0218
Stddev	.14	.14	.13	.0003	.0021	.024	.0005	.0081	.0119	.0132
%RSD	.2358	.9781	.5010	.0420	32.42	.9214	1.154	28.12	717.5	60.63
#1	60.89	14.03	26.40	.8258	.0044	2.553	.0435	.0226	.0045	.0070
#2	61.17	13.82	26.54	.8252	.0087	2.567	.0445	.0378	.0058	.0324
#3	61.10	14.08	26.67	.8255	.0066	2.599	.0441	.0256	-.0154	.0260

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	39.27	.0053	21.19	1.566	.0163	.1152	.1353
Stddev	.08	.0025	.06	.014	.0168	.0027	.0016
%RSD	.2013	46.83	.2753	.8646	103.3	2.368	1.192
#1	39.36	.0030	21.20	1.576	.0272	.1166	.1370
#2	39.24	.0079	21.24	1.572	-.0031	.1170	.1338
#3	39.22	.0050	21.13	1.551	.0247	.1121	.1350

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1127.0	2388.2	18984.	8396.3
Stddev	3.4	6.6	12.	27.9
%RSD	.29755	.27768	.06408	.33247
#1	1124.7	2380.6	18971.	8412.5
#2	1125.4	2391.2	18996.	8364.1
#3	1130.9	2392.8	18985.	8412.3

Zoom In Zoom Out

Sample Name: F95217-6 Acquired: 7/27/2012 7:30:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0014	276.3	.0464	1.543	.0141	2594.	-.0018	.0790	.3232	.1407
Stddev	.0051	.9	.0193	.010	.0002	6.	.0011	.0012	.0034	.0041
%RSD	375.0	.3087	41.60	.6636	1.692	.2249	62.41	1.462	1.064	2.900
#1	-.0007	276.0	.0260	1.543	.0138	2601.	-.0029	.0781	.3230	.1363
#2	-.0068	277.2	.0645	1.554	.0143	2593.	-.0008	.0803	.3267	.1414
#3	.0034	275.5	.0488	1.533	.0142	2590.	-.0015	.0788	.3198	.1444

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	242.8	46.76	117.9	4.093	.0097	3.034	.2267	.1483	-.0054	.0047
Stddev	.5	.38	.2	.003	.0024	.023	.0040	.0155	.0118	.0046
%RSD	.2084	.8092	.1905	.0843	24.48	.7519	1.767	10.44	220.9	97.67
#1	243.3	46.34	118.1	4.089	.0074	3.014	.2259	.1304	-.0015	-.0003
#2	242.7	47.06	117.6	4.093	.0121	3.059	.2232	.1568	-.0187	.0058
#3	242.3	46.88	117.9	4.096	.0096	3.029	.2311	.1576	.0041	.0087

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	51.27	.0185	13.12	3.228	.0193	.4221	.7486
Stddev	.13	.0016	.03	.026	.0132	.0022	.0013
%RSD	.2600	8.535	.2577	.8197	68.60	.5104	.1748
#1	51.43	.0176	13.11	3.215	.0339	.4205	.7471
#2	51.21	.0203	13.16	3.210	.0081	.4245	.7491
#3	51.18	.0176	13.10	3.258	.0159	.4212	.7496

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1170.0	2533.5	19981.	8709.5
Stddev	3.2	3.3	40.	53.7
%RSD	.27188	.13113	.20169	.61690
#1	1173.3	2530.9	19975.	8650.1
#2	1166.9	2532.3	20023.	8754.6
#3	1169.8	2537.2	19943.	8724.0

Zoom In
Zoom Out

Sample Name: F95274-1 Acquired: 7/27/2012 7:35:23 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	161.2	.0281	1.407	.0072	3494.	-.0062	.0464	.1815	.0868
Stddev	.0070	.2	.0069	.008	.0005	9.	.0003	.0004	.0018	.0025
%RSD	545.3	.1486	24.52	.5437	7.682	.2607	5.198	.9264	.9901	2.874
#1	-.0031	160.9	.0361	1.405	.0067	3497.	-.0066	.0467	.1797	.0851
#2	-.0071	161.4	.0241	1.400	.0078	3484.	-.0061	.0459	.1833	.0896
#3	.0064	161.2	.0242	1.415	.0070	3502.	-.0060	.0466	.1817	.0855

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	147.5	29.15	70.93	2.778	.0078	2.820	.1298	.0874	-.0102	-.0050
Stddev	.1	.04	.19	.007	.0028	.033	.0019	.0057	.0058	.0199
%RSD	.0737	.1377	.2724	.2375	35.12	1.173	1.429	6.493	56.41	402.2
#1	147.4	29.14	70.72	2.771	.0048	2.858	.1297	.0824	-.0062	.0175
#2	147.4	29.20	70.97	2.781	.0101	2.798	.1280	.0863	-.0168	-.0117
#3	147.6	29.12	71.10	2.783	.0086	2.804	.1317	.0936	-.0076	-.0207

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	43.34	.0170	22.57	2.529	.0185	.2848	.4566
Stddev	.07	.0023	.01	.009	.0280	.0022	.0013
%RSD	.1567	13.56	.0450	.3638	151.8	.7715	.2809
#1	43.38	.0156	22.57	2.522	.0038	.2867	.4578
#2	43.38	.0196	22.56	2.527	.0008	.2853	.4553
#3	43.26	.0157	22.58	2.539	.0508	.2824	.4568

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1153.2	2461.9	19349.	8465.4
Stddev	.8	2.0	24.	21.3
%RSD	.06903	.08098	.12488	.25115
#1	1154.1	2459.6	19375.	8467.6
#2	1152.6	2463.1	19345.	8485.5
#3	1152.9	2463.0	19327.	8443.2

Zoom In
Zoom Out

Sample Name: F95274-2 Acquired: 7/27/2012 7:40:00 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0031	193.6	.0467	1.252	.0093	4527.	-.0105	.0599	.1993	.0899
Stddev	.0021	.8	.0059	.005	.0002	34.	.0002	.0006	.0026	.0023
%RSD	67.09	.4071	12.64	.4419	1.665	.7603	1.541	.9616	1.326	2.552
#1	-.0008	192.7	.0441	1.251	.0091	4509.	-.0104	.0592	.2018	.0873
#2	-.0048	194.1	.0534	1.258	.0094	4566.	-.0107	.0601	.1995	.0917
#3	-.0039	194.0	.0425	1.247	.0094	4505.	-.0105	.0603	.1965	.0907

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	168.9	35.59	73.34	3.550	.0123	3.422	.1600	.0868	-.0109	-.0064
Stddev	.8	.11	.42	.004	.0005	.060	.0026	.0051	.0157	.0213
%RSD	.4626	.3169	.5787	.1268	3.978	1.746	1.614	5.835	143.5	335.5
#1	168.0	35.65	72.91	3.545	.0127	3.424	.1601	.0903	.0021	.0008
#2	169.4	35.66	73.76	3.554	.0125	3.362	.1574	.0810	-.0065	.0105
#3	169.2	35.46	73.33	3.552	.0118	3.481	.1625	.0892	-.0283	-.0303

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.81	.0113	23.81	2.679	.0129	.3350	.4779
Stddev	.15	.0045	.21	.016	.0140	.0043	.0018
%RSD	.3331	39.44	.8625	.6035	108.5	1.286	.3824
#1	45.66	.0136	23.60	2.662	.0115	.3303	.4758
#2	45.97	.0062	24.01	2.694	.0275	.3360	.4787
#3	45.80	.0143	23.82	2.680	-.0003	.3387	.4792

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1126.0	2422.5	19134.	8395.8
Stddev	.2	3.4	100.	40.3
%RSD	.01395	.14040	.52029	.47984
#1	1126.1	2426.1	19224.	8431.1
#2	1125.8	2419.4	19027.	8351.9
#3	1126.1	2422.1	19152.	8404.3

Zoom In
Zoom Out

Sample Name: F95274-3 Acquired: 7/27/2012 7:44:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	100.9	.0169	.7715	.0041	3342.	-.0086	.0287	.1072	.0472
Stddev	.0036	.3	.0128	.0045	.0001	18.	.0003	.0013	.0033	.0012
%RSD	184.8	.3352	76.04	.5812	3.185	.5493	3.143	4.696	3.102	2.632
#1	-.0016	100.8	.0303	.7684	.0042	3324.	-.0085	.0302	.1050	.0460
#2	.0014	101.3	.0047	.7766	.0040	3361.	-.0084	.0279	.1055	.0472
#3	-.0057	100.7	.0156	.7694	.0040	3340.	-.0089	.0279	.1110	.0485

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.20	19.12	41.03	1.671	.0045	2.640	.0847	.0442	-.0030	.0151
Stddev	.60	.12	.31	.005	.0011	.047	.0019	.0065	.0138	.0554
%RSD	.6756	.6336	.7566	.2932	25.10	1.785	2.263	14.77	459.9	368.2
#1	87.61	19.05	40.80	1.668	.0033	2.693	.0831	.0375	-.0110	-.0477
#2	88.80	19.26	40.91	1.677	.0056	2.625	.0841	.0505	.0130	.0573
#3	88.18	19.06	41.39	1.669	.0046	2.602	.0868	.0446	-.0110	.0356

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	37.35	.0110	20.74	1.711	.0009	.1807	.2395
Stddev	.03	.0053	.05	.005	.0383	.0009	.0006
%RSD	.0757	48.05	.2495	.2878	4403.	.4959	.2467
#1	37.33	.0059	20.69	1.707	.0450	.1817	.2390
#2	37.38	.0106	20.80	1.717	-.0228	.1800	.2402
#3	37.34	.0165	20.74	1.710	-.0196	.1805	.2394

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1176.9	2468.9	19540.	8518.2
Stddev	3.4	4.2	49.	28.2
%RSD	.28661	.17142	.25077	.33161
#1	1173.7	2469.0	19568.	8516.2
#2	1176.6	2464.6	19483.	8490.9
#3	1180.5	2473.0	19568.	8547.3

Zoom In
Zoom Out

Sample Name: F95274-4 Acquired: 7/27/2012 7:49:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0067	282.0	.0833	1.490	.0137	3311.	-.0075	.0778	.3350	.1458
Stddev	.0032	.5	.0104	.009	.0003	10.	.0002	.0009	.0019	.0021
%RSD	48.19	.1597	12.48	.5880	1.827	.2989	2.736	1.111	.5538	1.447
#1	-.0030	281.6	.0947	1.481	.0140	3321.	-.0073	.0788	.3345	.1473
#2	-.0081	282.1	.0743	1.491	.0135	3311.	-.0077	.0771	.3370	.1434
#3	-.0091	282.4	.0809	1.498	.0138	3302.	-.0074	.0776	.3333	.1466

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	247.2	48.28	109.7	3.236	.0236	3.105	.2335	.1412	-.0124	.0322
Stddev	.5	.08	.2	.001	.0019	.034	.0021	.0106	.0096	.0207
%RSD	.2218	.1633	.1602	.0408	8.119	1.101	.9015	7.493	76.89	64.31
#1	246.9	48.29	109.5	3.235	.0256	3.090	.2337	.1471	-.0233	.0555
#2	246.8	48.36	109.9	3.237	.0218	3.081	.2313	.1290	-.0053	.0158
#3	247.8	48.20	109.7	3.235	.0234	3.144	.2355	.1474	-.0087	.0253

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.93	.0170	17.68	3.467	.0051	.5166	.7511
Stddev	.27	.0032	.05	.008	.0048	.0019	.0026
%RSD	.5362	18.75	.2990	.2249	94.06	.3611	.3465
#1	51.11	.0137	17.62	3.462	.0052	.5186	.7541
#2	50.61	.0171	17.71	3.476	.0099	.5149	.7499
#3	51.06	.0201	17.71	3.464	.0003	.5163	.7493

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1152.5	2497.0	19724.	8619.5
Stddev	2.7	13.0	17.	24.4
%RSD	.23292	.52179	.08457	.28267
#1	1150.9	2486.1	19706.	8611.5
#2	1151.0	2511.4	19725.	8646.9
#3	1155.6	2493.5	19739.	8600.2

Zoom In Zoom Out

Sample Name: F95274-5 Acquired: 7/27/2012 7:53:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0014	179.1	.0559	2.171	.0118	2349.	-.0065	.0988	.2243	.1457
Stddev	.0047	1.2	.0043	.005	.0002	15.	.0005	.0008	.0040	.0028
%RSD	322.5	.6531	7.663	.2267	1.715	.6267	7.394	.8274	1.804	1.904
#1	.0037	177.8	.0513	2.167	.0116	2360.	-.0060	.0979	.2237	.1436
#2	-.0054	180.2	.0567	2.170	.0118	2355.	-.0069	.0991	.2206	.1448
#3	-.0026	179.2	.0598	2.176	.0120	2332.	-.0066	.0994	.2286	.1488

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	222.2	37.56	165.5	5.058	.0094	5.557	.2294	.1385	-.0122	.0151
Stddev	.6	.16	.7	.037	.0011	.038	.0022	.0061	.0218	.0295
%RSD	.2770	.4386	.3956	.7257	11.51	.6892	.9413	4.388	178.9	194.6
#1	221.8	37.54	165.1	5.021	.0086	5.600	.2269	.1350	-.0373	-.0180
#2	222.9	37.73	166.3	5.059	.0106	5.527	.2307	.1455	.0016	.0249
#3	222.0	37.41	165.3	5.094	.0090	5.543	.2306	.1349	-.0008	.0384

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	39.70	.0163	12.81	2.419	.0121	.4254	.6368
Stddev	.19	.0023	.02	.013	.0274	.0020	.0024
%RSD	.4850	13.85	.1474	.5506	225.9	.4605	.3716
#1	39.56	.0168	12.80	2.404	.0170	.4232	.6351
#2	39.92	.0183	12.83	2.429	.0368	.4269	.6395
#3	39.62	.0138	12.79	2.424	-.0174	.4260	.6359

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1177.7	2512.1	19718.	8580.9
Stddev	5.4	4.7	90.	24.4
%RSD	.45563	.18814	.45768	.28472
#1	1181.5	2515.1	19818.	8588.2
#2	1171.6	2506.7	19695.	8553.7
#3	1180.1	2514.6	19641.	8600.9

Zoom In Zoom Out

Sample Name: F95274-6 Acquired: 7/27/2012 7:58:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0037	146.0	.0118	.9710	.0063	3459.	-.0101	.0466	.1356	.0820
Stddev	.0035	.6	.0074	.0047	.0004	23.	.0012	.0019	.0054	.0025
%RSD	93.84	.4232	62.66	.4864	6.912	.6641	12.13	4.027	4.011	3.073
#1	-.0030	145.8	.0066	.9656	.0067	3433.	-.0115	.0468	.1411	.0846
#2	-.0076	145.4	.0202	.9742	.0064	3472.	-.0095	.0446	.1302	.0796
#3	-.0007	146.6	.0085	.9733	.0058	3473.	-.0092	.0484	.1356	.0819

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	143.6	31.15	167.4	3.874	.0094	40.14	.1241	.0652	-.0137	.0132
Stddev	.2	.25	.2	.014	.0018	.07	.0009	.0021	.0140	.0229
%RSD	.1261	.8036	.1478	.3650	19.39	.1855	.7005	3.229	101.5	174.3
#1	143.5	30.95	167.2	3.861	.0073	40.19	.1243	.0632	-.0005	.0308
#2	143.6	31.43	167.3	3.889	.0107	40.18	.1231	.0649	-.0125	-.0128
#3	143.8	31.06	167.7	3.872	.0101	40.06	.1248	.0674	-.0283	.0214

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.43	.0181	13.10	2.616	.0007	.2334	.3559
Stddev	.05	.0063	.02	.017	.0041	.0017	.0044
%RSD	.1003	35.09	.1620	.6422	605.9	.7112	1.235
#1	50.44	.0189	13.08	2.600	-.0024	.2349	.3540
#2	50.37	.0239	13.12	2.633	-.0009	.2336	.3529
#3	50.47	.0113	13.09	2.616	.0053	.2316	.3610

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1146.8	2428.5	19276.	8342.7
Stddev	1.8	1.2	41.	52.1
%RSD	.15367	.04931	.21501	.62407
#1	1148.2	2429.7	19293.	8390.2
#2	1147.4	2427.3	19229.	8351.0
#3	1144.8	2428.5	19306.	8287.0

Zoom In Zoom Out

Sample Name: MP23310-MB1 Acquired: 7/27/2012 8:02:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0020	-.0029	-.0001	-.0002	.0274	-.0003	-.0002	.0002	-.0005
Stddev	.0005	.0010	.0009	.0001	.0000	.0047	.0000	.0001	.0003	.0001
%RSD	612.8	48.65	29.88	83.79	24.25	17.27	17.63	51.36	170.5	20.05
#1	-.0006	-.0009	-.0019	-.0001	-.0001	.0324	-.0003	-.0004	.0005	-.0006
#2	.0004	-.0024	-.0032	.0000	-.0002	.0268	-.0003	-.0001	.0000	-.0004
#3	-.0001	-.0027	-.0035	-.0002	-.0002	.0230	-.0002	-.0002	.0000	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397	.0080	.0021	.0002	.0004	.0097	.0005	-.0008	-.0001	.0006
Stddev	.0020	.0122	.0156	.0001	.0001	.0030	.0002	.0003	.0005	.0008
%RSD	5.072	154.0	725.9	46.86	33.15	30.56	42.05	36.48	445.1	136.1
#1	.0420	.0011	.0131	.0002	.0004	.0123	.0006	-.0005	.0000	-.0003
#2	.0381	.0006	-.0157	.0001	.0003	.0065	.0006	-.0012	-.0007	.0009
#3	.0391	.0221	.0090	.0001	.0005	.0105	.0003	-.0008	.0003	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197	.0136	-.0001	.0001	-.0011	-.0002	.0008
Stddev	.0011	.0009	.0001	.0000	.0020	.0003	.0001
%RSD	5.789	6.891	45.31	41.21	181.9	137.6	12.76
#1	.0204	.0127	-.0001	.0001	-.0033	.0000	.0009
#2	.0203	.0146	-.0002	.0001	.0005	-.0005	.0007
#3	.0184	.0135	-.0002	.0002	-.0005	-.0001	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23310-MB1 Acquired: 7/27/2012 8:02:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1350.6	2501.0	19880.	8290.3
Stddev	8.0	15.2	63.	29.0
%RSD	.59343	.60896	.31940	.34983
#1	1341.9	2487.1	19807.	8257.1
#2	1352.4	2498.7	19919.	8303.0
#3	1357.6	2517.3	19916.	8310.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 8:07:01 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2535	40.50	2.020	2.055	2.082	41.30	2.056	2.049	2.060	2.032
Stddev	.0007	.06	.004	.003	.001	.06	.002	.002	.005	.007
%RSD	.2927	.1570	.2242	.1492	.0380	.1504	.0878	.0974	.2574	.3437
#1	.2527	40.55	2.022	2.052	2.083	41.32	2.057	2.051	2.056	2.037
#2	.2537	40.43	2.023	2.057	2.081	41.35	2.057	2.049	2.058	2.024
#3	.2541	40.52	2.015	2.057	2.081	41.23	2.054	2.047	2.066	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.62	40.66	41.01	2.056	2.047	40.68	2.058	2.022	2.017	2.033
Stddev	.02	.15	.07	.005	.002	.10	.004	.004	.004	.003
%RSD	.0384	.3716	.1710	.2534	.1192	.2579	.1774	.2249	.2096	.1214
#1	40.60	40.82	41.09	2.055	2.047	40.78	2.059	2.027	2.020	2.032
#2	40.63	40.51	40.96	2.051	2.050	40.57	2.060	2.019	2.019	2.031
#3	40.63	40.65	40.97	2.061	2.045	40.68	2.053	2.019	2.012	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054	2.081	2.072	2.056	2.041	2.127	2.057
Stddev	.003	.002	.000	.006	.010	.003	.002
%RSD	.1398	.0923	.0170	.2897	.5100	.1281	.1179
#1	2.056	2.083	2.072	2.055	2.052	2.128	2.060
#2	2.055	2.080	2.072	2.051	2.038	2.125	2.056
#3	2.051	2.079	2.072	2.062	2.032	2.130	2.055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 8:07:01 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1171.4	2500.6	19806.	8470.1
Stddev	1.9	3.2	50.	4.8
%RSD	.16516	.12900	.25280	.05668
#1	1169.9	2502.5	19766.	8473.2
#2	1170.8	2496.9	19863.	8472.6
#3	1173.6	2502.4	19790.	8464.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 8:11:07 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0015	-.0008	.0002	.0002	.0078	.0001	.0001	.0000
Stddev	.0006	.0062	.0007	.0001	.0001	.0013	.0000	.0001	.000
%RSD	857.4	420.3	87.37	31.86	25.51	17.02	37.83	48.26	947.5
#1	-.0006	-.0076	-.0014	.0001	.0002	.0092	.0001	.0001	.0000
#2	.0006	-.0018	.0000	.0002	.0003	.0078	.0001	.0002	.0002
#3	-.0003	.0049	-.0010	.0002	.0001	.0065	.0001	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0153	.0092	.0039	.0002	.0007	.0187	.0004	.0005
Stddev	.0002	.0024	.0206	.0092	.0001	.0003	.0062	.0001	.0007
%RSD	42.94	15.78	223.9	235.1	33.73	39.97	32.85	33.83	149.4
#1	.0003	.0170	.0016	.0103	.0002	.0010	.0252	.0002	-.0001
#2	.0003	.0163	.0325	-.0066	.0002	.0005	.0129	.0005	.0003
#3	.0006	.0125	-.0065	.0080	.0001	.0005	.0182	.0004	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	F.0027	.0001	.0005	.0002	.0010	.0015	.0005	.0005
Stddev	.0006	.0006	.0006	.0004	.0000	.0000	.0007	.0001	.0002
%RSD	349.2	20.38	394.3	77.21	11.87	4.717	46.16	11.50	41.26
#1	.0001	.0032	-.0005	.0009	.0001	.0010	.0009	.0004	.0007
#2	.0002	.0021	.0006	.0001	.0002	.0009	.0022	.0005	.0003
#3	-.0008	.0029	.0003	.0005	.0002	.0010	.0014	.0005	.0005
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0020							
Low Limit		-.0020							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 8:11:07 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1424.5	2642.2	20702.	8651.2
Stddev	1.1	8.4	19.	21.6
%RSD	.07845	.31625	.09105	.24940
#1	1424.9	2651.0	20708.	8674.8
#2	1423.2	2634.3	20718.	8632.5
#3	1425.3	2641.3	20681.	8646.4

Zoom In Zoom Out

Sample Name: MP23310-B1 Acquired: 7/27/2012 8:15:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490	28.61	2.041	2.259	.0564	26.13	.0531	.5441	.2226	.2748
Stddev	.0003	.07	.005	.009	.0002	.16	.0002	.0007	.0013	.0007
%RSD	.6247	.2448	.2570	.3888	.3770	.5964	.3201	.1202	.5848	.2616
#1	.0492	28.53	2.047	2.257	.0563	26.02	.0529	.5448	.2240	.2754
#2	.0492	28.62	2.037	2.269	.0561	26.05	.0532	.5441	.2215	.2740
#3	.0486	28.67	2.041	2.252	.0566	26.30	.0531	.5435	.2223	.2750
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.15	26.15	25.64	.5598	.5261	26.38	.5515	.4963	.5228	2.049
Stddev	.11	.10	.18	.0030	.0014	.08	.0008	.0020	.0016	.009
%RSD	.3910	.3905	.6965	.5320	.2625	.3177	.1442	.4095	.2992	.4421
#1	28.05	26.13	25.46	.5624	.5276	26.39	.5524	.4942	.5245	2.057
#2	28.15	26.26	25.64	.5565	.5260	26.46	.5512	.4967	.5224	2.052
#3	28.27	26.07	25.82	.5604	.5248	26.29	.5508	.4982	.5215	2.039
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.5225	.5247	.5277	2.025	.5517	.5376
Stddev	.0008	.0010	.0013	.0011	.010	.0014	.0015
%RSD	3.662	.1899	.2426	.2040	.4769	.2478	.2805
#1	.0212	.5228	.5237	.5288	2.032	.5532	.5359
#2	.0213	.5233	.5261	.5267	2.014	.5510	.5387
#3	.0199	.5214	.5243	.5275	2.028	.5507	.5382
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23310-B1 Acquired: 7/27/2012 8:15:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1179.6	2417.2	18933.	8145.2
Stddev	5.7	18.8	93.	14.8
%RSD	.48622	.77627	.48893	.18114
#1	1173.0	2396.9	18826.	8141.6
#2	1182.3	2420.8	18987.	8161.4
#3	1183.4	2433.9	18986.	8132.6

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/27/2012 8:19:45 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0023	273.0	.0336	1.224	.0101	1.281	-.0022	.0436
Stddev	.0003	1.8	.0003	.004	.0000	.005	.0001	.0002
%RSD	12.65	.6480	.8014	.3085	.0382	.4180	3.862	.4800
#1	-.0020	273.4	.0333	1.223	.0101	1.287	-.0022	.0435
#2	-.0022	271.1	.0338	1.228	.0101	1.280	-.0023	.0436
#3	-.0026	274.6	.0337	1.221	.0101	1.277	-.0021	.0439

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0142	.1389	185.9	66.23	42.45	F7.040	.0029	.6706
Stddev	.0001	.0002	1.1	.15	.04	.048	.0003	.0046
%RSD	.5527	.1208	.5882	.2288	.0874	.6838	9.353	.6837
#1	.0141	.1390	186.5	66.39	42.49	7.025	.0028	.6758
#2	.0141	.1387	186.5	66.08	42.42	7.094	.0033	.6671
#3	.0142	.1390	184.6	66.23	42.44	7.001	.0028	.6689

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0118	.2049	F-.0074	-.0016	16.37	.0188	.1953	F15.98
Stddev	.0002	.0004	.0016	.0019	.01	.0001	.0001	.03
%RSD	1.494	.1887	21.87	117.8	.0548	.7946	.0462	.1992
#1	.0117	.2045	-.0060	-.0033	16.37	.0187	.1952	15.98
#2	.0118	.2048	-.0092	.0004	16.36	.0190	.1954	15.94
#3	.0120	.2053	-.0070	-.0018	16.37	.0187	.1953	16.01

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0234	.1958	.6155
Stddev	.0023	.0003	.0010
%RSD	9.799	.1482	.1690
#1	-.0234	.1961	.6152
#2	-.0211	.1959	.6147
#3	-.0257	.1955	.6167

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/27/2012 8:19:45 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	981.87	4306.3	32923.	14112.
Stddev	.57	12.3	68.	119.
%RSD	.05813	.28631	.20629	.84145
#1	981.22	4293.8	32859.	13982.
#2	982.29	4306.9	32916.	14141.
#3	982.10	4318.4	32994.	14214.

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/27/2012 8:24:32 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0028	251.4	.0341	1.129	.0092	1.338	-.0018	.0437
Stddev	.0002	1.3	.0016	.006	.0000	.005	.0001	.0001
%RSD	7.181	.5109	4.745	.5675	.3961	.4093	5.106	.2689
#1	-.0028	252.0	.0328	1.136	.0092	1.338	-.0017	.0438
#2	-.0026	249.9	.0359	1.129	.0092	1.333	-.0019	.0436
#3	-.0030	252.3	.0337	1.123	.0091	1.344	-.0019	.0436

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0185	.1441	182.8	66.66	42.28	F7.025	.0034	.6363
Stddev	.0002	.0004	.8	.22	.24	.009	.0000	.0044
%RSD	1.171	.2980	.4316	.3290	.5692	.1358	1.155	.6884
#1	.0187	.1443	182.2	66.89	42.30	7.021	.0033	.6410
#2	.0183	.1444	182.5	66.64	42.03	7.036	.0034	.6356
#3	.0184	.1436	183.7	66.45	42.51	7.019	.0033	.6323

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0126	.1913	F-.0078	-.0042	10.66	.0213	.1731	F17.29
Stddev	.0004	.0019	.0011	.0012	.01	.0004	.0007	.02
%RSD	3.448	.9756	14.63	29.07	.0842	1.649	.3823	.1400
#1	.0121	.1935	-.0065	-.0045	10.65	.0209	.1736	17.31
#2	.0128	.1899	-.0087	-.0053	10.67	.0213	.1733	17.31
#3	.0130	.1907	-.0083	-.0029	10.65	.0216	.1723	17.27

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0274	.2027	.6012
Stddev	.0041	.0002	.0008
%RSD	14.90	.0821	.1306
#1	-.0231	.2027	.6016
#2	-.0277	.2025	.6003
#3	-.0313	.2029	.6017

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/27/2012 8:24:32 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	992.84	4345.1	33534.	14391.
Stddev	.67	8.3	69.	18.
%RSD	.06784	.19128	.20709	.12275
#1	992.67	4339.3	33455.	14379.
#2	992.26	4341.3	33559.	14412.
#3	993.58	4354.6	33587.	14383.

Zoom In Zoom Out

Sample Name: MP23310-SD1 Acquired: 7/27/2012 8:29:18 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0045	405.8	.0500	1.784	.0149	3.274	-.0064	.0724	.0220
Stddev	.0015	.5	.0076	.003	.0003	.029	.0005	.0023	.0014
%RSD	33.41	.1331	15.28	.1923	1.998	.8809	7.214	3.146	6.151
#1	-.0057	405.5	.0524	1.785	.0148	3.241	-.0058	.0750	.0227
#2	-.0049	406.4	.0561	1.786	.0146	3.295	-.0066	.0717	.0229
#3	-.0028	405.5	.0414	1.780	.0152	3.286	-.0066	.0707	.0204

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2046	296.5	98.71	63.63	11.62	.0036	1.461	.0150	.2007
Stddev	.0002	.4	.26	.22	.09	.0010	.026	.0003	.0057
%RSD	.1109	.1390	.2623	.3420	.7353	29.05	1.812	1.960	2.862
#1	.2045	296.2	98.51	63.73	11.59	.0024	1.470	.0154	.1979
#2	.2044	297.0	98.61	63.77	11.56	.0041	1.482	.0149	.1970
#3	.2048	296.5	99.00	63.38	11.72	.0042	1.431	.0148	.2074

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0177	.0120	25.40	.0277	.2967	F26.39	-.0151	.3024	.9842
Stddev	.0032	.0021	.05	.0040	.0006	.10	.0054	.0019	.0006
%RSD	18.15	17.24	.1861	14.29	.2008	.3700	35.51	.6374	.0632
#1	-.0214	.0142	25.36	.0265	.2960	26.33	-.0089	.3001	.9836
#2	-.0157	.0102	25.46	.0322	.2971	26.33	-.0186	.3032	.9843
#3	-.0160	.0115	25.39	.0246	.2971	26.50	-.0178	.3037	.9848

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1263.0	3063.1	23655.	9964.8
Stddev	1.5	1.7	99.	30.0
%RSD	.12218	.05645	.41907	.30081
#1	1263.1	3065.0	23716.	9983.6
#2	1264.5	3062.4	23708.	9930.3
#3	1261.4	3061.7	23540.	9980.6

Zoom In Zoom Out

Sample Name: MP23310-PS1 Acquired: 7/27/2012 8:33:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0268	271.1	.0905	1.360	.0425	4.543	.0268	.0717	.0447
Stddev	.0001	1.0	.0021	.002	.0001	.013	.0004	.0002	.0005
%RSD	.4393	.3794	2.313	.1175	.1397	.2775	1.451	.2264	1.142
#1	.0268	270.9	.0894	1.360	.0426	4.528	.0272	.0715	.0445
#2	.0269	272.3	.0929	1.358	.0424	4.550	.0264	.0719	.0453
#3	.0266	270.2	.0892	1.361	.0425	4.550	.0267	.0718	.0444

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2008	185.2	71.90	45.17	F6.980	.0605	6.725	.0676	.2582
Stddev	.0006	2.5	.07	.19	.016	.0003	.013	.0006	.0026
%RSD	.2951	1.344	.0952	.4169	.2344	.4884	.1974	.8833	.9994
#1	.2002	182.4	71.86	44.95	6.999	.0602	6.740	.0681	.2554
#2	.2014	187.0	71.85	45.28	6.971	.0607	6.716	.0669	.2605
#3	.2007	186.3	71.98	45.27	6.970	.0607	6.718	.0677	.2587

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0500	.0530	16.14	.0442	.2244	F15.89	.0787	.2251	.7744
Stddev	.0002	.0026	.02	.0003	.0002	.04	.0010	.0005	.0014
%RSD	.3287	4.904	.1164	.5813	.0923	.2626	1.316	.2068	.1746
#1	.0500	.0516	16.16	.0444	.2242	15.85	.0777	.2247	.7738
#2	.0501	.0514	16.13	.0439	.2245	15.93	.0797	.2251	.7734
#3	.0498	.0560	16.13	.0443	.2246	15.91	.0787	.2256	.7759

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	966.45	4246.3	32580.	13972.
Stddev	1.74	11.9	79.	58.
%RSD	.18015	.28072	.24346	.41411
#1	965.05	4233.9	32535.	14007.
#2	965.92	4247.4	32533.	13905.
#3	968.40	4257.7	32672.	14004.

Zoom In Zoom Out

Sample Name: MP23310-S1 Acquired: 7/27/2012 8:38:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0243	269.1	1.112	2.352	.0412	16.20	.0261	.3173	.1311
Stddev	.0002	3.8	.004	.014	.0000	.09	.0003	.0004	.0006
%RSD	1.011	1.403	.4068	.5761	.1148	.5556	1.073	.1105	.4744
#1	.0241	270.1	1.117	2.339	.0412	16.09	.0264	.3175	.1314
#2	.0245	272.2	1.108	2.366	.0411	16.25	.0261	.3169	.1304
#3	.0241	264.8	1.110	2.352	.0411	16.25	.0258	.3174	.1315

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3218	161.4	70.67	50.12	F6.989	.2522	15.81	.2898	.7053
Stddev	.0011	.6	.22	.22	.024	.0006	.04	.0005	.0017
%RSD	.3500	.3672	.3160	.4328	.3458	.2408	.2694	.1654	.2342
#1	.3214	160.7	70.42	49.89	7.004	.2529	15.77	.2903	.7064
#2	.3209	161.7	70.76	50.33	6.962	.2519	15.82	.2899	.7034
#3	.3230	161.8	70.84	50.15	7.003	.2517	15.85	.2893	.7060

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1063	1.099	17.78	.2645	.4772	F12.97	2.074	.4541	.7835
Stddev	.0016	.003	.03	.0011	.0007	.05	.001	.0019	.0012
%RSD	1.496	.2391	.1652	.4189	.1427	.3574	.0239	.4237	.1583
#1	.1058	1.102	17.81	.2633	.4764	12.97	2.074	.4548	.7829
#2	.1081	1.098	17.75	.2655	.4775	12.92	2.074	.4519	.7826
#3	.1050	1.097	17.78	.2645	.4776	13.02	2.074	.4556	.7849

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	972.35	4346.8	33455.	14238.
Stddev	4.00	9.8	119.	54.
%RSD	.41150	.22601	.35527	.37986
#1	967.73	4335.6	33338.	14230.
#2	974.57	4353.9	33576.	14189.
#3	974.74	4350.9	33452.	14296.

Zoom In Zoom Out

Sample Name: MP23310-S2 Acquired: 7/27/2012 8:43:13 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0246	270.1	1.047	2.376	.0402	15.50	.0254	.3081	.1309
Stddev	.0003	2.8	.003	.021	.0001	.04	.0001	.0003	.0011
%RSD	1.142	1.039	.3055	.8754	.2349	.2740	.3538	.0944	.8059
#1	.0243	267.0	1.044	2.397	.0402	15.47	.0254	.3079	.1297
#2	.0248	272.5	1.051	2.374	.0401	15.49	.0255	.3080	.1317
#3	.0247	270.8	1.047	2.356	.0402	15.55	.0253	.3085	.1312

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3223	193.5	F82.86	57.55	F7.848	.2388	15.01	.2789	.7486
Stddev	.0006	1.0	.22	.32	.034	.0004	.04	.0005	.0027
%RSD	.1797	.5165	.2697	.5479	.4349	.1566	.2605	.1755	.3588
#1	.3230	193.3	82.71	57.22	7.836	.2393	14.99	.2783	.7457
#2	.3218	192.7	82.74	57.58	7.822	.2385	15.00	.2790	.7491
#3	.3222	194.6	83.12	57.85	7.887	.2387	15.06	.2793	.7510

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0900	1.035	11.00	.2532	.4681	F16.30	2.060	.4879	.8821
Stddev	.0014	.002	.01	.0009	.0008	.04	.005	.0008	.0006
%RSD	1.559	.1764	.1313	.3499	.1746	.2211	.2456	.1652	.0700
#1	.0903	1.037	10.99	.2532	.4678	16.26	2.056	.4878	.8817
#2	.0885	1.035	10.99	.2541	.4674	16.33	2.058	.4871	.8817
#3	.0912	1.033	11.01	.2523	.4690	16.31	2.066	.4887	.8828

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	940.33	4422.1	33955.	14751.
Stddev	.56	1.9	36.	16.
%RSD	.05948	.04360	.10720	.10590
#1	940.78	4421.2	33964.	14737.
#2	940.50	4424.3	33915.	14768.
#3	939.70	4420.7	33986.	14749.

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/27/2012 8:48:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0013	144.6	.0253	.8953	.0068	3.970	-.0015	.0306
Stddev	.0001	.3	.0008	.0031	.0000	.019	.0002	.0002
%RSD	11.58	.2396	3.248	.3460	.6874	.4803	11.85	.7625
#1	-.0014	144.5	.0245	.8949	.0068	3.962	-.0013	.0304
#2	-.0011	144.2	.0262	.8986	.0067	3.955	-.0017	.0306
#3	-.0013	144.9	.0252	.8925	.0068	3.991	-.0015	.0308

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0177	.0539	142.4	57.28	36.58	F4.414	.0017	.4649
Stddev	.0001	.0003	.8	.11	.12	.022	.0001	.0048
%RSD	.8077	.6069	.5688	.1900	.3416	.4900	5.297	1.041
#1	.0178	.0543	142.0	57.16	36.48	4.409	.0018	.4594
#2	.0176	.0538	143.3	57.38	36.53	4.437	.0016	.4684
#3	.0175	.0537	141.9	57.29	36.72	4.395	.0016	.4668

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0112	.0615	F-.0059	-.0007	8.099	.0128	.1823	F13.43
Stddev	.0003	.0022	.0009	.0007	.017	.0004	.0003	.04
%RSD	2.538	3.570	14.94	108.0	.2113	3.043	.1662	.3113
#1	.0116	.0630	-.0055	-.0003	8.099	.0132	.1823	13.46
#2	.0111	.0625	-.0069	-.0016	8.082	.0128	.1826	13.45
#3	.0110	.0590	-.0053	-.0002	8.116	.0125	.1820	13.38

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0223	.1525	.4756
Stddev	.0017	.0004	.0006
%RSD	7.743	.2714	.1346
#1	-.0234	.1524	.4749
#2	-.0203	.1521	.4757
#3	-.0232	.1529	.4762

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/27/2012 8:48:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1009.9	5093.3	39286.	16845.
Stddev	2.5	15.2	131.	34.
%RSD	.24957	.29871	.33426	.20115
#1	1007.8	5086.5	39162.	16820.
#2	1009.2	5110.8	39272.	16833.
#3	1012.7	5082.8	39423.	16884.

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/27/2012 8:52:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0045	F924.6	.0463	1.122	.0079	.9646	.0001	.0356
Stddev	.0001	9.2	.0021	.004	.0000	.0058	.0002	.0003
%RSD	2.406	.9995	4.602	.3592	.3224	.6029	307.9	.8198
#1	-.0045	914.3	.0445	1.126	.0079	.9580	.0001	.0353
#2	-.0046	927.2	.0487	1.123	.0079	.9691	.0002	.0355
#3	-.0044	932.2	.0457	1.118	.0079	.9666	-.0001	.0359

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1125	.1308	358.2	35.69	35.74	3.445	.0091	.3405
Stddev	.0002	.0003	3.0	.07	.26	.005	.0006	.0042
%RSD	.1843	.2301	.8501	.1875	.7287	.1573	6.615	1.245
#1	.1126	.1309	356.5	35.76	35.48	3.439	.0084	.3440
#2	.1123	.1311	356.4	35.68	35.73	3.446	.0095	.3419
#3	.1126	.1305	361.7	35.63	36.00	3.449	.0094	.3358

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0606	.3871	F-.0090	.0036	14.99	.0299	.0535	F10.65
Stddev	.0004	.0048	.0012	.0030	.05	.0004	.0001	.05
%RSD	.6294	1.230	13.57	83.53	.3025	1.254	.1625	.4346
#1	.0604	.3854	-.0103	.0030	14.97	.0295	.0536	10.71
#2	.0603	.3834	-.0079	.0009	14.95	.0302	.0535	10.64
#3	.0610	.3924	-.0086	.0069	15.04	.0300	.0534	10.62

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0345	.4893	.5497
Stddev	.0070	.0006	.0015
%RSD	20.25	.1240	.2776
#1	-.0388	.4894	.5482
#2	-.0384	.4898	.5497
#3	-.0265	.4886	.5512

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/27/2012 8:52:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	829.59	3834.5	28342.	12441.
Stddev	1.30	6.8	97.	12.
%RSD	.15688	.17860	.34131	.09641
#1	830.51	3838.2	28251.	12434.
#2	828.10	3838.7	28331.	12435.
#3	830.16	3826.6	28444.	12455.

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/27/2012 8:57:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0042	478.5	.0292	1.483	.0102	1.501	-.0022	.0435
Stddev	.0001	1.0	.0011	.005	.0001	.010	.0002	.0003
%RSD	3.383	.2006	3.608	.3373	.5121	.6875	9.149	.5938
#1	-.0041	479.1	.0300	1.484	.0101	1.490	-.0020	.0437
#2	-.0041	479.1	.0280	1.487	.0102	1.502	-.0022	.0432
#3	-.0043	477.4	.0297	1.477	.0101	1.511	-.0023	.0437

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0533	.0540	194.2	47.66	34.82	3.880	.0035	.6076
Stddev	.0002	.0006	.4	.24	.16	.020	.0003	.0036
%RSD	.4560	1.070	.2280	.4937	.4489	.5243	9.780	.5843
#1	.0535	.0543	193.7	47.49	34.69	3.904	.0033	.6109
#2	.0534	.0544	194.5	47.93	34.80	3.866	.0032	.6081
#3	.0530	.0533	194.3	47.57	34.99	3.870	.0038	.6039

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0315	.1693	F-.0058	.0023	15.06	.0248	.0593	F12.90
Stddev	.0003	.0027	.0021	.0014	.01	.0005	.0002	.04
%RSD	.8779	1.577	35.59	59.72	.0849	1.989	.3466	.3367
#1	.0313	.1704	-.0039	.0009	15.07	.0254	.0593	12.94
#2	.0313	.1663	-.0080	.0024	15.04	.0244	.0595	12.90
#3	.0318	.1712	-.0055	.0037	15.06	.0247	.0591	12.85

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0260	.2339	.5082
Stddev	.0047	.0005	.0011
%RSD	18.08	.2274	.2083
#1	-.0208	.2336	.5075
#2	-.0276	.2345	.5077
#3	-.0298	.2336	.5094

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/27/2012 8:57:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	990.60	3907.2	29458.	12615.
Stddev	1.62	10.5	228.	30.
%RSD	.16326	.26895	.77508	.23627
#1	989.02	3895.9	29208.	12581.
#2	992.26	3909.0	29509.	12634.
#3	990.53	3916.7	29656.	12631.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:02:11 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2538	40.27	2.016	2.066	2.075	41.23	2.048	2.040	2.069	2.035
Stddev	.0012	.02	.007	.010	.004	.11	.003	.003	.008	.002
%RSD	.4595	.0586	.3628	.5044	.2134	.2723	.1497	.1373	.3970	.0959
#1	.2551	40.26	2.018	2.073	2.072	41.10	2.050	2.042	2.068	2.036
#2	.2527	40.25	2.021	2.072	2.080	41.31	2.049	2.041	2.078	2.037
#3	.2537	40.30	2.007	2.054	2.074	41.28	2.044	2.036	2.062	2.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.42	40.79	41.05	2.070	2.038	40.70	2.054	2.018	2.011	2.014
Stddev	.11	.19	.13	.009	.003	.15	.005	.004	.004	.005
%RSD	.2704	.4539	.3094	.4223	.1448	.3733	.2296	.1943	.2019	.2326
#1	40.30	40.93	40.91	2.069	2.039	40.81	2.057	2.013	2.012	2.019
#2	40.48	40.85	41.15	2.079	2.040	40.78	2.056	2.021	2.015	2.014
#3	40.50	40.58	41.10	2.062	2.035	40.53	2.048	2.019	2.007	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.063	2.080	2.073	2.065	2.038	2.128	2.058
Stddev	.006	.003	.008	.008	.000	.006	.002
%RSD	.2861	.1499	.3852	.3877	.0119	.2939	.0942
#1	2.067	2.083	2.077	2.066	2.038	2.123	2.060
#2	2.065	2.082	2.079	2.072	2.038	2.135	2.058
#3	2.056	2.077	2.064	2.056	2.037	2.126	2.056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:02:11 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1184.6	2533.1	19863.	8463.4
Stddev	2.4	5.3	35.	18.0
%RSD	.20438	.20746	.17732	.21289
#1	1187.0	2532.2	19860.	8484.2
#2	1182.1	2528.3	19830.	8452.5
#3	1184.7	2538.7	19900.	8453.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 9:06:17 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0113	.0003	.0004	.0003	.0091	.0003	.0002	.0004
Stddev	.0001	.0069	.0005	.0001	.0000	.0023	.0001	.0000	.0003
%RSD	276.7	60.78	145.2	25.59	6.132	25.73	26.74	8.892	57.61
#1	-.0001	.0174	.0008	.0004	.0003	.0107	.0003	.0002	.0007
#2	.0001	.0128	.0004	.0004	.0003	.0101	.0003	.0002	.0005
#3	.0002	.0038	-.0002	.0003	.0003	.0064	.0002	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0193	.0679	.0067	.0004	.0008	.0215	.0005	.0006
Stddev	.0001	.0031	.0396	.0103	.0000	.0002	.0027	.0001	.0007
%RSD	25.19	15.82	58.40	153.2	10.73	27.52	12.75	18.65	103.4
#1	.0006	.0222	.1038	-.0012	.0004	.0010	.0212	.0006	.0013
#2	.0006	.0196	.0744	.0030	.0004	.0006	.0244	.0004	.0005
#3	.0004	.0161	.0254	.0183	.0005	.0007	.0189	.0004	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F.0029	.0017	.0004	.0003	F.0021	F.0026	.0008	.0008
Stddev	.002	.0003	.0004	.0003	.0000	.0001	.0009	.0002	.0001
%RSD	6548.	11.62	25.32	83.51	11.43	4.347	33.97	27.99	14.22
#1	.0015	.0028	.0022	.0001	.0004	.0021	.0019	.0008	.0007
#2	-.0020	.0027	.0013	.0002	.0003	.0021	.0024	.0006	.0007
#3	.0004	.0033	.0017	.0007	.0003	.0020	.0036	.0010	.0009
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		.0020				.0020	.0020		
Low Limit		-.0020				-.0020	-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 9:06:17 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1433.3	2656.5	20792.	8603.2
Stddev	1.0	2.1	5.	17.3
%RSD	.07111	.07848	.02425	.20107
#1	1433.9	2654.2	20788.	8600.6
#2	1432.1	2656.8	20791.	8587.3
#3	1433.9	2658.4	20798.	8621.6

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/27/2012 9:10:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0019	F977.9	.0457	1.178	.0091	1.952	.0014	.0419
Stddev	.0001	2.3	.0030	.002	.0000	.007	.0002	.0004
%RSD	4.905	.2333	6.567	.1349	.1364	.3543	15.01	1.022
#1	-.0019	980.0	.0441	1.177	.0091	1.944	.0015	.0414
#2	-.0019	975.5	.0491	1.176	.0091	1.956	.0015	.0420
#3	-.0018	978.3	.0437	1.179	.0091	1.956	.0011	.0422

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1286	.1875	373.0	41.55	43.75	F4.128	.0104	.4989
Stddev	.0004	.0013	1.9	.09	.14	.008	.0001	.0052
%RSD	.3411	.6767	.4980	.2247	.3215	.2015	.6055	1.041
#1	.1289	.1888	372.0	41.65	43.59	4.133	.0105	.5008
#2	.1287	.1863	371.9	41.53	43.78	4.118	.0104	.5029
#3	.1281	.1874	375.1	41.47	43.87	4.132	.0104	.4930

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0748	.3406	F-.0060	.0036	21.23	.0274	.0594	F11.33
Stddev	.0005	.0043	.0016	.0061	.05	.0010	.0000	.00
%RSD	.6574	1.275	26.03	168.5	.2284	3.525	.0147	.0399
#1	.0747	.3357	-.0051	.0083	21.18	.0282	.0594	11.33
#2	.0744	.3439	-.0078	-.0033	21.22	.0278	.0594	11.32
#3	.0753	.3422	-.0051	.0058	21.28	.0263	.0594	11.33

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0199	.5037	.6484
Stddev	.0048	.0003	.0043
%RSD	24.02	.0600	.6624
#1	-.0214	.5038	.6434
#2	-.0146	.5034	.6507
#3	-.0238	.5040	.6511

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/27/2012 9:10:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	839.03	3709.6	27475.	12117.
Stddev	2.23	3.4	138.	45.
%RSD	.26534	.09062	.50070	.36921
#1	838.75	3713.3	27317.	12066.
#2	841.39	3708.9	27539.	12137.
#3	836.96	3706.6	27568.	12148.

Zoom In Zoom Out

Sample Name: F95220-6 Acquired: 7/27/2012 9:15:29 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0006	F1107.	.0688	.7247	.0067	14.92	.0025	.0245
Stddev	.0001	5.	.0021	.0025	.0001	.07	.0008	.0001
%RSD	21.00	.4874	2.990	.3400	1.246	.4478	31.56	.4008
#1	-.0006	1100.	.0668	.7242	.0066	14.85	.0034	.0246
#2	-.0007	1110.	.0688	.7225	.0068	14.96	.0024	.0244
#3	-.0005	1110.	.0709	.7274	.0068	14.97	.0018	.0245

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2502	.1058	F510.3	16.30	14.12	1.199	.0146	.4275
Stddev	.0019	.0004	5.4	.06	.12	.004	.0003	.0034
%RSD	.7419	.4213	1.056	.3853	.8280	.3619	2.391	.7955
#1	.2481	.1054	504.4	16.23	14.01	1.194	.0142	.4239
#2	.2517	.1057	511.7	16.31	14.12	1.202	.0147	.4279
#3	.2506	.1063	514.9	16.35	14.24	1.201	.0149	.4306

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0887	.3145	-.0048	.0186	33.69	.0426	.0759	F4.802
Stddev	.0006	.0023	.0012	.0125	.04	.0008	.0003	.014
%RSD	.6507	.7162	24.28	67.48	.1295	1.949	.3677	.2876
#1	.0881	.3127	-.0061	.0089	33.66	.0435	.0756	4.787
#2	.0891	.3170	-.0042	.0327	33.68	.0418	.0760	4.812
#3	.0891	.3138	-.0040	.0140	33.74	.0425	.0762	4.809

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0134	.7933	.3237
Stddev	.0040	.0031	.0004
%RSD	29.81	.3955	.1290
#1	-.0091	.7897	.3237
#2	-.0140	.7952	.3242
#3	-.0170	.7950	.3234

Zoom In Zoom Out

Sample Name: F95220-6 Acquired: 7/27/2012 9:15:29 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	879.52	2657.6	19741.	8759.7
Stddev	2.40	1.0	44.	16.1
%RSD	.27253	.03614	.22194	.18360
#1	882.23	2657.4	19786.	8774.8
#2	877.68	2658.6	19698.	8761.5
#3	878.66	2656.7	19739.	8742.8

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/27/2012 9:19:58 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0014	266.3	.0172	3.114	.0111	.3704	.0000	.1180
Stddev	.0001	2.3	.0004	.010	.0000	.0021	.0000	.0003
%RSD	3.818	.8670	2.285	.3340	.1384	.5650	486.3	.2646
#1	-.0014	266.1	.0174	3.124	.0111	.3688	.0000	.1176
#2	-.0013	268.7	.0168	3.103	.0111	.3697	.0000	.1182
#3	-.0014	264.1	.0175	3.115	.0111	.3728	.0000	.1181

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1192	.0251	153.2	4.244	7.677	1.217	.0008	.6509
Stddev	.0004	.0001	.1	.008	.046	.001	.0001	.0003
%RSD	.3505	.4002	.0699	.1817	.5964	.0624	8.018	.0506
#1	.1187	.0251	153.2	4.245	7.625	1.216	.0008	.6509
#2	.1194	.0249	153.1	4.236	7.698	1.217	.0007	.6512
#3	.1194	.0251	153.3	4.251	7.709	1.217	.0008	.6505

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.7641	.1243	-.0035	.0002	11.18	.0188	.0083	2.085
Stddev	.0018	.0022	.0012	.0011	.03	.0002	.0000	.002
%RSD	.2296	1.780	33.54	470.6	.2869	1.206	.2574	.1152
#1	.7622	.1260	-.0032	-.0001	11.15	.0190	.0083	2.088
#2	.7647	.1218	-.0048	-.0007	11.19	.0185	.0083	2.084
#3	.7655	.1252	-.0025	.0015	11.21	.0189	.0083	2.084

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0180	.3263	.3132
Stddev	.0011	.0003	.0003
%RSD	6.284	.0781	.1016
#1	-.0177	.3260	.3129
#2	-.0192	.3265	.3133
#3	-.0170	.3265	.3135

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/27/2012 9:19:58 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	995.88	7215.4	54826.	23913.
Stddev	3.53	13.8	43.	64.
%RSD	.35491	.19061	.07825	.26905
#1	998.62	7231.2	54777.	23839.
#2	997.14	7206.2	54842.	23946.
#3	991.89	7208.7	54858.	23955.

Zoom In
Zoom Out

Sample Name: F95245-1 Acquired: 7/27/2012 9:24:34 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0016	85.96	.0175	.6422	.0029	289.0	-.0011	.0085	.1359	.0150
Stddev	.0004	.20	.0011	.0025	.0000	1.4	.0001	.0002	.0003	.0002
%RSD	23.70	.2372	6.324	.3830	.7954	.4859	8.778	2.361	.1900	1.027
#1	-.0013	86.05	.0162	.6442	.0028	290.4	-.0011	.0083	.1361	.0150
#2	-.0014	85.73	.0182	.6395	.0029	287.6	-.0010	.0086	.1360	.0148
#3	-.0020	86.11	.0180	.6429	.0029	289.2	-.0012	.0086	.1356	.0151

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.07	4.036	10.13	.2649	.0049	.4754	.0171	.0886	-.0022	-.0019
Stddev	.10	.013	.01	.0007	.0001	.0016	.0001	.0008	.0002	.0013
%RSD	.2007	.3091	.0898	.2557	1.626	.3366	.8437	.8517	7.653	69.31
#1	52.07	4.042	10.13	.2646	.0048	.4759	.0169	.0890	-.0020	-.0028
#2	51.97	4.021	10.13	.2657	.0049	.4737	.0171	.0890	-.0023	-.0023
#3	52.17	4.043	10.14	.2645	.0050	.4767	.0172	.0877	-.0022	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	33.03	.0116	1.493	.7208	-.0069	.1611	.0508
Stddev	.02	.0002	.004	.0005	.0011	.0005	.0003
%RSD	.0522	1.805	.2492	.0739	15.93	.2793	.5175
#1	33.05	.0119	1.495	.7214	-.0056	.1615	.0510
#2	33.01	.0115	1.489	.7203	-.0072	.1613	.0505
#3	33.04	.0115	1.496	.7207	-.0078	.1606	.0509

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1080.2	2912.9	22649.	9696.8
Stddev	3.8	8.3	82.	52.8
%RSD	.35261	.28424	.36297	.54450
#1	1075.9	2903.5	22558.	9637.0
#2	1081.4	2916.1	22672.	9716.8
#3	1083.2	2919.0	22718.	9736.7

Zoom In
Zoom Out

Sample Name: F95281-1 Acquired: 7/27/2012 9:29:03 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	236.5	.0092	.3911	.0039	1.076	-.0015	.0143	.0735	.0801
Stddev	.0002	1.5	.0005	.0019	.0000	.006	.0001	.0001	.0003	.0003
%RSD	38.45	.6307	5.715	.4776	1.005	.5898	5.873	.6693	.4199	.3787
#1	-.0007	236.3	.0097	.3914	.0039	1.083	-.0014	.0142	.0732	.0804
#2	-.0005	238.2	.0092	.3928	.0039	1.075	-.0016	.0143	.0738	.0798
#3	-.0003	235.2	.0086	.3891	.0039	1.071	-.0014	.0144	.0736	.0801

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.97	8.109	8.041	.3328	.0011	.8546	.0327	.0901	-.0026	.0055
Stddev	.05	.038	.035	.0006	.0003	.0088	.0002	.0011	.0008	.0028
%RSD	.0669	.4661	.4370	.1724	23.59	1.024	.6850	1.261	29.03	50.63
#1	80.97	8.143	8.074	.3321	.0013	.8538	.0325	.0895	-.0035	.0082
#2	81.02	8.116	8.004	.3329	.0013	.8637	.0327	.0914	-.0021	.0026
#3	80.91	8.069	8.046	.3333	.0008	.8463	.0329	.0893	-.0022	.0059

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	31.68	.0141	.0163	.8721	-.0014	.2140	.1364
Stddev	.07	.0008	.0000	.0006	.0001	.0005	.0003
%RSD	.2071	5.815	.3048	.0687	9.783	.2471	.2450
#1	31.74	.0138	.0163	.8726	-.0013	.2135	.1363
#2	31.61	.0135	.0164	.8714	-.0013	.2146	.1368
#3	31.70	.0150	.0163	.8723	-.0015	.2140	.1362

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1166.1	2839.8	21501.	9135.5
Stddev	4.0	11.8	35.	47.6
%RSD	.34542	.41456	.16438	.52070
#1	1162.4	2826.6	21474.	9083.9
#2	1170.4	2849.2	21490.	9144.9
#3	1165.5	2843.7	21541.	9177.6

Zoom In Zoom Out

Sample Name: F95281-2 Acquired: 7/27/2012 9:33:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0033	204.2	.0333	1.351	.0122	5.947	.0008	.0670
Stddev	.0002	2.8	.0005	.007	.0000	.027	.0003	.0001
%RSD	6.863	1.366	1.465	.5524	.3839	.4497	36.82	.2135
#1	-.0034	202.7	.0335	1.343	.0122	5.923	.0011	.0671
#2	-.0033	207.5	.0328	1.351	.0121	5.976	.0005	.0670
#3	-.0030	202.6	.0337	1.358	.0121	5.942	.0009	.0668

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1829	.2387	257.2	29.90	42.98	1.413	.0009	2.235
Stddev	.0005	.0001	2.0	.08	.32	.001	.0002	.002
%RSD	.3006	.0552	.7938	.2601	.7360	.0587	25.33	.0775
#1	.1829	.2388	255.8	29.84	42.63	1.414	.0007	2.233
#2	.1835	.2388	259.6	29.87	43.25	1.414	.0009	2.237
#3	.1824	.2385	256.3	29.99	43.05	1.412	.0012	2.234

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1504	.5134	F-.0065	.0008	19.19	.0134	.2176	2.295
Stddev	.0002	.0021	.0006	.0008	.02	.0004	.0005	.002
%RSD	.1139	.4000	8.916	99.04	.1154	3.340	.2429	.0741
#1	.1505	.5116	-.0067	.0014	19.22	.0131	.2171	2.293
#2	.1502	.5157	-.0058	.0012	19.19	.0139	.2175	2.296
#3	.1506	.5129	-.0069	-.0001	19.17	.0131	.2181	2.295

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0224	.3757	.6696
Stddev	.0021	.0007	.0019
%RSD	9.494	.1865	.2815
#1	-.0219	.3753	.6688
#2	-.0205	.3765	.6681
#3	-.0247	.3753	.6717

Zoom In Zoom Out

Sample Name: F95281-2 Acquired: 7/27/2012 9:33:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	962.91	4404.0	34203.	14508.
Stddev	2.51	14.9	29.	108.
%RSD	.26072	.33818	.08365	.74159
#1	960.50	4387.0	34186.	14552.
#2	962.73	4409.9	34187.	14386.
#3	965.51	4414.9	34236.	14587.

Zoom In Zoom Out

Sample Name: F95281-3 Acquired: 7/27/2012 9:38:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0029	72.74	.0328	1.626	.0266	16.83	.0004	.0519
Stddev	.0001	.24	.0004	.015	.0001	.06	.0000	.0000
%RSD	4.491	.3353	1.372	.9048	.2988	.3782	8.067	.0603
#1	-.0028	72.58	.0327	1.623	.0267	16.77	.0004	.0519
#2	-.0028	73.02	.0333	1.643	.0267	16.82	.0003	.0519
#3	-.0030	72.61	.0324	1.614	.0266	16.89	.0004	.0519

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0576	.1591	90.63	19.16	31.10	1.201	.0000	1.454
Stddev	.0001	.0005	.10	.02	.14	.005	.000	.005
%RSD	.1173	.2858	.1136	.1065	.4532	.3926	156.3	.3295
#1	.0577	.1594	90.73	19.17	30.94	1.197	.0000	1.460
#2	.0576	.1586	90.53	19.14	31.16	1.200	.0000	1.453
#3	.0577	.1593	90.62	19.18	31.20	1.206	-.0001	1.450

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1227	.2074	-.0045	-.0024	7.806	.0048	.3225	.8498
Stddev	.0005	.0021	.0004	.0003	.010	.0000	.0009	.0015
%RSD	.3694	1.004	9.778	13.03	.1309	.6349	.2848	.1720
#1	.1231	.2097	-.0040	-.0026	7.814	.0048	.3228	.8486
#2	.1222	.2070	-.0046	-.0026	7.794	.0048	.3231	.8493
#3	.1228	.2056	-.0049	-.0021	7.808	.0049	.3214	.8514

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0328	.1209	.4605
Stddev	.0030	.0005	.0007
%RSD	9.165	.4230	.1614
#1	-.0299	.1204	.4609
#2	-.0359	.1207	.4596
#3	-.0326	.1214	.4609

Zoom In Zoom Out

Sample Name: F95281-3 Acquired: 7/27/2012 9:38:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	995.84	8972.7	71004.	30559.
Stddev	3.30	17.2	167.	125.
%RSD	.33139	.19136	.23454	.40911
#1	999.64	8952.9	71011.	30463.
#2	994.18	8983.4	71167.	30515.
#3	993.70	8981.8	70834.	30701.

Zoom In Zoom Out

Sample Name: F95281-4 Acquired: 7/27/2012 9:42:39 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	178.3	.0179	1.005	.0069	5.619	-.0016	.0376	.1220	.1781
Stddev	.0001	2.0	.0004	.002	.0000	.030	.0003	.0001	.0002	.0006
%RSD	6.928	1.114	1.963	.1553	.3255	.5412	18.25	.2376	.1240	.3505
#1	-.0020	180.5	.0175	1.006	.0069	5.609	-.0013	.0377	.1221	.1788
#2	-.0023	176.7	.0179	1.006	.0068	5.594	-.0015	.0375	.1219	.1777
#3	-.0021	177.6	.0182	1.003	.0069	5.653	-.0019	.0376	.1219	.1777

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	207.7	29.92	19.35	.7151	.0007	.6906	.0519	.2625	-.0035	.0048
Stddev	1.5	.05	.12	.0023	.0001	.0039	.0001	.0006	.0006	.0009
%RSD	.7120	.1759	.6432	.3190	8.114	.5702	.2188	.2267	18.33	17.95
#1	206.9	29.90	19.26	.7153	.0007	.6946	.0518	.2631	-.0035	.0045
#2	206.7	29.98	19.30	.7173	.0007	.6867	.0520	.2620	-.0029	.0057
#3	209.4	29.88	19.49	.7127	.0006	.6904	.0520	.2623	-.0042	.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.60	.0163	.1714	1.248	-.0072	.3467	.2704
Stddev	.03	.0007	.0002	.002	.0017	.0005	.0009
%RSD	.1419	4.609	.1415	.1344	23.44	.1368	.3459
#1	20.60	.0166	.1713	1.248	-.0063	.3461	.2693
#2	20.58	.0154	.1716	1.249	-.0092	.3469	.2710
#3	20.63	.0168	.1711	1.246	-.0062	.3470	.2709

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1083.8	3262.3	24998.	10622.
Stddev	1.2	3.3	93.	45.
%RSD	.11258	.10147	.37140	.42284
#1	1082.8	3258.5	24896.	10584.
#2	1083.4	3264.8	25019.	10671.
#3	1085.1	3263.5	25078.	10609.

Zoom In Zoom Out

Sample Name: F95281-5 Acquired: 7/27/2012 9:47:11 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0002	137.5	.0248	.2228	.0051	1.428	-.0002	.0093
Stddev	.0003	.4	.0016	.0010	.0000	.009	.0005	.0003
%RSD	205.5	.3073	6.384	.4524	.6269	.6547	261.1	3.515
#1	-.0001	137.0	.0233	.2218	.0051	1.417	.0002	.0090
#2	.0001	137.5	.0265	.2227	.0052	1.434	-.0007	.0091
#3	.0005	137.9	.0248	.2238	.0051	1.432	.0000	.0096

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1723	.1213	361.6	8.054	7.746	.3401	.0024	.2902
Stddev	.0008	.0011	3.5	.026	.071	.0014	.0004	.0049
%RSD	.4839	.8837	.9721	.3176	.9229	.4194	17.86	1.680
#1	.1727	.1217	358.3	8.058	7.671	.3415	.0027	.2917
#2	.1714	.1221	365.3	8.027	7.814	.3401	.0025	.2847
#3	.1729	.1201	361.2	8.078	7.753	.3387	.0019	.2941

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0209	.2272	-.0036	.0066	15.66	.0158	.0121	1.298
Stddev	.0005	.0019	.0014	.0006	.05	.0009	.0000	.003
%RSD	2.398	.8329	38.93	9.256	.3502	5.498	.2985	.2347
#1	.0210	.2294	-.0052	.0072	15.61	.0160	.0121	1.301
#2	.0213	.2262	-.0034	.0064	15.65	.0148	.0120	1.297
#3	.0203	.2259	-.0024	.0061	15.72	.0165	.0121	1.295

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0131	.8249	.1099
Stddev	.0011	.0007	.0004
%RSD	8.017	.0893	.3817
#1	-.0120	.8243	.1095
#2	-.0131	.8257	.1099
#3	-.0141	.8247	.1103

Zoom In Zoom Out

Sample Name: F95281-5 Acquired: 7/27/2012 9:47:11 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1077.3	2734.1	21355.	9055.3
Stddev	3.1	8.8	50.	59.4
%RSD	.28770	.32295	.23259	.65567
#1	1078.9	2739.5	21332.	9095.9
#2	1079.1	2738.9	21321.	8987.1
#3	1073.7	2723.9	21412.	9082.8

Zoom In Zoom Out

Sample Name: MP23300-MB1 Acquired: 7/27/2012 9:51:34 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	-.0032	-.0005	-.0001	-.0002	.0082	-.0002	-.0003	.0002	-.0013
Stddev	.0001	.0079	.0002	.0001	.0000	.0007	.0000	.0002	.0004	.0002
%RSD	72.18	245.1	47.55	73.95	14.33	8.642	16.26	57.65	163.3	11.82
#1	-.0003	.0055	-.0003	-.0003	-.0002	.0090	-.0002	-.0005	-.0002	-.0012
#2	-.0001	-.0099	-.0008	.0000	-.0002	.0076	-.0001	-.0002	.0005	-.0015
#3	-.0001	-.0053	-.0004	-.0001	-.0002	.0081	-.0002	-.0002	.0003	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0255	.0166	-.0147	-.0002	-.0001	-.0040	.0003	.0005	-.0001	.0034
Stddev	.0048	.0048	.0041	.0000	.0002	.0024	.0002	.0007	.0002	.0019
%RSD	18.79	29.03	27.65	19.06	268.8	59.83	64.16	145.0	256.9	54.94
#1	.0308	.0155	-.0127	-.0001	.0000	-.0013	.0002	-.0003	-.0003	.0040
#2	.0241	.0218	-.0121	-.0002	.0001	-.0050	.0005	.0009	-.0001	.0013
#3	.0215	.0124	-.0194	-.0002	-.0002	-.0059	.0002	.0009	.0001	.0048

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0096	-.0022	-.0002	.0002	.0009	-.0002	.0001
Stddev	.0006	.0003	.0000	.0001	.0004	.0001	.0001
%RSD	5.852	12.42	9.702	54.59	38.28	82.58	112.5
#1	.0103	-.0021	-.0002	.0001	.0010	-.0002	.0001
#2	.0093	-.0020	-.0002	.0003	.0005	.0000	.0001
#3	.0093	-.0025	-.0002	.0001	.0012	-.0003	.0000

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1439.9	2676.3	20942.	8634.3
Stddev	3.1	3.6	32.	55.6
%RSD	.21572	.13277	.15207	.64367
#1	1437.5	2672.7	20909.	8623.6
#2	1443.4	2679.9	20943.	8584.8
#3	1438.7	2676.2	20973.	8694.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:56:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2556	40.90	2.039	2.098	2.094	41.40	2.070	2.060	2.088	2.056
Stddev	.0014	.09	.005	.010	.003	.02	.006	.003	.002	.004
%RSD	.5444	.2085	.2369	.4600	.1232	.0579	.2856	.1529	.1141	.1982
#1	.2567	40.90	2.034	2.108	2.094	41.39	2.071	2.060	2.088	2.059
#2	.2562	40.82	2.042	2.096	2.091	41.43	2.063	2.056	2.090	2.058
#3	.2541	40.99	2.042	2.089	2.096	41.40	2.074	2.063	2.085	2.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.78	41.11	41.28	2.100	2.059	41.08	2.074	2.034	2.035	2.033
Stddev	.06	.06	.04	.003	.002	.08	.007	.002	.009	.008
%RSD	.1567	.1489	.0872	.1485	.0825	.2053	.3543	.1187	.4502	.3958
#1	40.75	41.18	41.24	2.104	2.060	41.16	2.074	2.036	2.036	2.036
#2	40.74	41.10	41.28	2.099	2.058	41.08	2.067	2.035	2.025	2.024
#3	40.85	41.06	41.31	2.098	2.061	41.00	2.082	2.032	2.043	2.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.101	2.095	2.086	2.055	2.147	2.078
Stddev	.003	.007	.004	.001	.006	.004	.005
%RSD	.1274	.3428	.1803	.0600	.3051	.1860	.2388
#1	2.088	2.101	2.100	2.087	2.059	2.151	2.077
#2	2.085	2.094	2.093	2.084	2.059	2.144	2.073
#3	2.090	2.109	2.093	2.085	2.048	2.145	2.083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:56:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1170.8	2502.8	19620.	8238.7
Stddev	3.2	4.7	47.	15.4
%RSD	.27669	.18839	.24124	.18642
#1	1167.8	2500.2	19566.	8250.2
#2	1170.4	2508.2	19653.	8244.5
#3	1174.2	2500.0	19642.	8221.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:00:08 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0116	.0002	.0002	.0004	.0104	.0003	.0003	.0001
Stddev	.0004	.0087	.0004	.0002	.0000	.0014	.0001	.0001	.0006
%RSD	184.7	75.42	193.0	90.36	5.628	13.57	15.62	42.43	520.9
#1	.0002	.0215	.0005	.0004	.0004	.0114	.0003	.0003	-.0005
#2	-.0002	.0054	.0004	.0000	.0004	.0110	.0003	.0004	.0002
#3	.0006	.0078	-.0003	.0003	.0004	.0088	.0004	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0218	.0164	.0148	.0004	.0009	.0196	.0006	.0010
Stddev	.0001	.0030	.0044	.0100	.0000	.0002	.0055	.0001	.0001
%RSD	24.30	13.81	26.90	67.41	5.783	17.93	28.21	18.43	6.898
#1	.0004	.0245	.0161	.0238	.0004	.0010	.0253	.0005	.0009
#2	.0005	.0223	.0209	.0164	.0004	.0010	.0143	.0006	.0010
#3	.0003	.0185	.0121	.0041	.0004	.0007	.0191	.0007	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F.0040	.0025	.0007	.0004	.0011	F.0022	.0006	.0008
Stddev	.0002	.0007	.0003	.0001	.0000	.0001	.0007	.0001	.0001
%RSD	18.38	18.26	12.66	14.49	2.075	6.923	32.66	14.30	10.19
#1	.0014	.0039	.0024	.0006	.0004	.0011	.0016	.0006	.0007
#2	.0010	.0033	.0028	.0008	.0004	.0011	.0030	.0005	.0008
#3	.0013	.0047	.0022	.0007	.0004	.0010	.0020	.0007	.0007
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		.0020					.0020		
Low Limit		-.0020					-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:00:08 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1433.4	2655.6	20932.	8619.6
Stddev	1.1	9.1	57.	46.9
%RSD	.07384	.34318	.27434	.54428
#1	1434.5	2646.6	20866.	8623.6
#2	1433.3	2655.4	20971.	8570.8
#3	1432.4	2664.8	20959.	8664.4

Zoom In Zoom Out

Sample Name: MP23300-B1 Acquired: 7/27/2012 10:04:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0493	27.56	2.000	2.139	.0533	25.89	.0520	.5238	.2118	.2623
Stddev	.0000	.04	.001	.003	.0002	.07	.0001	.0010	.0011	.0011
%RSD	.0751	.1539	.0438	.1441	.4044	.2722	.1921	.1821	.5157	.4075
#1	.0494	27.52	2.001	2.140	.0531	25.82	.0519	.5249	.2115	.2630
#2	.0493	27.56	1.999	2.136	.0535	25.96	.0520	.5231	.2109	.2627
#3	.0493	27.61	2.001	2.142	.0535	25.89	.0521	.5236	.2130	.2611

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.12	25.80	25.23	.5323	.5137	25.82	.5365	.4922	.5102	2.020
Stddev	.04	.08	.08	.0030	.0012	.05	.0004	.0022	.0029	.004
%RSD	.1423	.3090	.3007	.5554	.2297	.1778	.0757	.4532	.5771	.1938
#1	27.08	25.74	25.32	.5302	.5141	25.77	.5369	.4910	.5086	2.024
#2	27.11	25.89	25.19	.5309	.5124	25.84	.5362	.4948	.5085	2.017
#3	27.16	25.78	25.19	.5357	.5147	25.85	.5363	.4909	.5136	2.019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0095	.5176	.5158	.5145	2.040	.5319	.5237
Stddev	.0008	.0025	.0006	.0005	.003	.0014	.0011
%RSD	7.908	.4810	.1204	.0974	.1343	.2564	.2016
#1	.0100	.5202	.5151	.5148	2.043	.5304	.5249
#2	.0087	.5173	.5161	.5139	2.038	.5320	.5235
#3	.0099	.5153	.5163	.5147	2.038	.5331	.5228

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.7	2537.2	19993.	8492.9
Stddev	2.1	1.9	58.	9.7
%RSD	.16601	.07362	.29182	.11417
#1	1237.9	2535.9	19930.	8483.3
#2	1233.9	2539.4	20046.	8502.6
#3	1235.2	2536.5	20004.	8492.7

Zoom In Zoom Out

Sample Name: F95207-1 Acquired: 7/27/2012 10:08:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0204	-.4553	-.0244	-.0007	-.0153	428.6	-.0231	-.0184
Stddev	.0676	.3045	.0424	.0162	.0027	1.4	.0067	.0056
%RSD	331.3	66.88	173.6	2241.	17.52	.3183	29.18	30.65
#1	-.0018	-.8060	-.0719	.0180	-.0131	428.2	-.0206	-.0149
#2	.0963	-.3010	.0098	-.0098	-.0144	430.2	-.0179	-.0249
#3	-.0333	-.2587	-.0112	-.0104	-.0182	427.6	-.0307	-.0153

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0260	.0068	.2032	409.4	1312.	-.0258	-.0040	F10890.
Stddev	.0244	.0336	.1813	.6	3.	.0042	.0076	130.
%RSD	94.18	492.8	89.21	.1445	.2593	16.41	190.5	1.192
#1	-.0068	.0337	.3965	408.8	1309.	-.0236	-.0120	10940.
#2	-.0535	-.0309	.1759	409.3	1316.	-.0307	-.0031	10980.
#3	-.0176	.0176	.0371	410.0	1312.	-.0231	.0031	10740.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0119	.0762	-.0684	.1357	.2429	-.0418	7.831	.0408
Stddev	.0054	.0459	.0323	.1383	.1045	.0350	.052	.0106
%RSD	45.73	60.23	47.25	101.9	43.00	83.57	.6614	26.03
#1	-.0058	.1283	-.0744	-.0186	.2134	-.0462	7.891	.0295
#2	-.0163	.0414	-.0974	.2483	.3590	-.0744	7.803	.0505
#3	-.0134	.0591	-.0335	.1775	.1564	-.0049	7.799	.0423

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.1150	-.0184	-.0033
Stddev	.1352	.0126	.0088
%RSD	117.6	68.48	270.0
#1	.2543	-.0066	.0017
#2	-.0157	-.0317	-.0135
#3	.1065	-.0171	.0019

Zoom In Zoom Out

Sample Name: F95207-1 Acquired: 7/27/2012 10:08:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1242.6	2509.0	19330.	8298.4
Stddev	2.3	2.9	24.	22.4
%RSD	.18532	.11570	.12319	.26934
#1	1243.6	2506.7	19354.	8277.7
#2	1240.0	2508.1	19330.	8295.4
#3	1244.2	2512.2	19306.	8322.1

Zoom In Zoom Out

Sample Name: MP23300-D1 Acquired: 7/27/2012 10:13:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0186	-.2372	-.0580	-.0020	-.0151	429.9	-.0135	-.0038
Stddev	.0344	.0682	.0704	.0110	.0038	1.6	.0071	.0083
%RSD	184.9	28.77	121.4	548.9	24.98	.3612	52.97	219.1
#1	-.0285	-.2347	-.0956	-.0113	-.0158	429.9	-.0053	-.0031
#2	.0197	-.3066	.0232	-.0049	-.0186	428.3	-.0171	.0041
#3	-.0471	-.1702	-.1017	.0102	-.0111	431.4	-.0181	-.0123

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0209	.0063	-.4706	412.3	1315.	-.0243	-.0085	F11030.
Stddev	.0120	.0061	.0571	2.0	4.	.0034	.0112	80.
%RSD	57.50	97.44	12.12	.4939	.2895	13.98	132.1	.7278
#1	-.0232	-.0002	-.4899	409.9	1317.	-.0233	.0032	11020.
#2	-.0079	.0120	-.4064	413.3	1310.	-.0281	-.0096	11120.
#3	-.0317	.0071	-.5156	413.6	1317.	-.0215	-.0192	10960.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0062	.0146	-.0733	.0956	.1863	-.0249	7.891	.0239
Stddev	.0078	.0276	.1239	.1436	.0461	.0216	.032	.0058
%RSD	126.3	188.6	169.1	150.2	24.76	86.73	.4053	24.07
#1	.0051	.0407	-.2145	-.0607	.2077	-.0495	7.855	.0204
#2	-.0010	.0173	-.0229	.1257	.1334	-.0162	7.901	.0306
#3	.0145	-.0142	.0175	.2218	.2178	-.0090	7.917	.0209

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0523	-.0005	.0230
Stddev	.0859	.0325	.0048
%RSD	164.3	6398.	20.66
#1	-.0450	-.0016	.0261
#2	.1178	-.0325	.0255
#3	.0841	.0325	.0176

Zoom In Zoom Out

Sample Name: MP23300-D1 Acquired: 7/27/2012 10:13:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.0	2504.0	19251.	8267.5
Stddev	2.3	3.1	92.	28.4
%RSD	.18974	.12482	.47868	.34321
#1	1237.0	2500.6	19273.	8235.1
#2	1235.5	2504.8	19150.	8279.9
#3	1232.4	2506.8	19331.	8287.6

Zoom In Zoom Out

Sample Name: MP23300-S1 Acquired: 7/27/2012 10:17:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0292	27.46	2.080	2.217	.0366	448.2	.0321	.5379
Stddev	.0565	.08	.119	.014	.0051	.2	.0031	.0174
%RSD	193.4	.2932	5.716	.6496	13.85	.0398	9.653	3.237
#1	.0933	27.38	2.206	2.232	.0326	448.4	.0340	.5522
#2	.0078	27.44	1.970	2.203	.0349	448.1	.0337	.5430
#3	-.0134	27.54	2.064	2.215	.0423	448.1	.0285	.5185

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1769	.2743	27.71	431.0	1319.	.5483	.5156	F10820.
Stddev	.0171	.0071	.24	3.4	2.	.0028	.0139	119.
%RSD	9.695	2.601	.8634	.7781	.1182	.5053	2.700	1.103
#1	.1774	.2819	27.94	433.2	1317.	.5475	.5229	10690.
#2	.1937	.2677	27.74	427.1	1318.	.5461	.4995	10920.
#3	.1595	.2732	27.46	432.5	1320.	.5514	.5243	10860.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.5654	.5641	.4794	2.322	.2154	.5160	8.255	.5603
Stddev	.0351	.0975	.0218	.101	.0694	.0096	.024	.0140
%RSD	6.205	17.28	4.551	4.341	32.21	1.866	.2906	2.501
#1	.5684	.6217	.4601	2.221	.1894	.5203	8.282	.5676
#2	.5288	.6191	.5031	2.423	.1628	.5227	8.238	.5442
#3	.5988	.4516	.4749	2.322	.2940	.5050	8.244	.5692

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	2.154	.5444	.5651
Stddev	.052	.0167	.0093
%RSD	2.423	3.073	1.652
#1	2.206	.5259	.5708
#2	2.155	.5489	.5543
#3	2.102	.5585	.5701

Zoom In Zoom Out

Sample Name: MP23300-S1 Acquired: 7/27/2012 10:17:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.9	2505.2	19293.	8233.4
Stddev	2.4	2.2	43.	7.7
%RSD	.19424	.08862	.22081	.09295
#1	1234.9	2506.4	19258.	8237.7
#2	1234.3	2506.7	19280.	8237.9
#3	1238.7	2502.7	19340.	8224.6

Zoom In Zoom Out

Sample Name: MP23300-S2 Acquired: 7/27/2012 10:22:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0680	29.25	2.122	2.262	.0375	463.2	.0294	.5465
Stddev	.0153	.27	.059	.017	.0016	.4	.0027	.0042
%RSD	22.43	.9060	2.784	.7285	4.374	.0931	9.082	.7643
#1	.0856	28.95	2.119	2.256	.0384	462.9	.0291	.5418
#2	.0595	29.34	2.065	2.281	.0385	463.7	.0269	.5500
#3	.0588	29.46	2.183	2.249	.0356	463.0	.0323	.5476

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2121	.2823	29.27	448.0	1346.	.5582	.5394	F11060.
Stddev	.0414	.0084	.04	1.4	5.	.0081	.0096	139.
%RSD	19.54	2.971	.1306	.3091	.3832	1.458	1.782	1.258
#1	.1644	.2914	29.28	446.5	1341.	.5574	.5334	11210.
#2	.2328	.2749	29.22	448.3	1347.	.5506	.5344	11030.
#3	.2391	.2805	29.29	449.2	1352.	.5668	.5505	10940.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.5757	.5044	.5204	2.455	.2262	.5067	8.517	.5776
Stddev	.0058	.0521	.0217	.038	.0769	.0514	.015	.0136
%RSD	.9993	10.33	4.172	1.542	34.00	10.15	.1728	2.355
#1	.5691	.5520	.5448	2.422	.2440	.5651	8.509	.5843
#2	.5782	.5126	.5131	2.445	.1420	.4681	8.534	.5619
#3	.5798	.4487	.5033	2.496	.2926	.4870	8.507	.5864

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	2.229	.5635	.6003
Stddev	.157	.0089	.0159
%RSD	7.059	1.584	2.646
#1	2.078	.5632	.6160
#2	2.392	.5548	.5843
#3	2.218	.5726	.6005

Zoom In Zoom Out

Sample Name: MP23300-S2 Acquired: 7/27/2012 10:22:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.3	2512.6	19436.	8463.9
Stddev	2.5	3.2	50.	35.5
%RSD	.20314	.12756	.25875	.41988
#1	1237.1	2514.9	19446.	8434.0
#2	1232.4	2514.0	19480.	8454.6
#3	1236.3	2508.9	19381.	8503.2

Zoom In Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/27/2012 10:27:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0835	4.546	.1180	.5071	.0878	451.8	.0802	.0856
Stddev	.0539	.138	.1271	.0088	.0012	1.0	.0100	.0088
%RSD	64.62	3.031	107.7	1.732	1.389	.2140	12.45	10.30
#1	.0218	4.601	-.0272	.5014	.0874	452.4	.0885	.0863
#2	.1220	4.647	.1719	.5026	.0892	452.3	.0831	.0941
#3	.1066	4.389	.2093	.5172	.0869	450.7	.0691	.0765

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0794	.2162	5.548	444.9	1349.	.0817	.1855	F11080.
Stddev	.0327	.0199	.178	1.6	7.	.0017	.0076	143.
%RSD	41.16	9.185	3.211	.3513	.5153	2.110	4.086	1.287
#1	.0629	.2241	5.629	443.7	1350.	.0806	.1839	11220.
#2	.0583	.1936	5.343	446.7	1355.	.0837	.1789	11070.
#3	.1171	.2309	5.670	444.5	1341.	.0808	.1938	10940.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1887	.1329	.1295	.3446	.2558	.0271	8.144	.2089
Stddev	.0129	.0189	.0764	.2109	.0395	.0376	.016	.0056
%RSD	6.853	14.24	58.96	61.20	15.43	138.6	.2007	2.674
#1	.2034	.1546	.0444	.1470	.2105	.0696	8.146	.2025
#2	.1834	.1240	.1921	.3201	.2742	.0140	8.127	.2115
#3	.1793	.1200	.1521	.5666	.2827	-.0022	8.159	.2128

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.2212	.0993	.6012
Stddev	.0715	.0210	.0208
%RSD	32.32	21.18	3.461
#1	.1394	.1152	.6020
#2	.2528	.1071	.5799
#3	.2715	.0754	.6215

Zoom In Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/27/2012 10:27:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1237.0	2509.4	19346.	8367.9
Stddev	2.0	5.8	75.	24.8
%RSD	.16098	.23037	.38895	.29679
#1	1236.1	2509.2	19267.	8374.7
#2	1239.3	2515.3	19354.	8340.3
#3	1235.6	2503.7	19417.	8388.6

Zoom In Zoom Out

Sample Name: MP23300-SD1 Acquired: 7/27/2012 10:31:36 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 500.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0596	3.891	-.2425	-.0326	-.0831	469.5	-.0887	-.0953	-.1507
Stddev	.1614	1.175	.3746	.0790	.0051	2.7	.0260	.0614	.0748
%RSD	270.7	30.19	154.5	242.6	6.199	.5789	29.34	64.46	49.67
#1	.0026	4.951	-.6432	-.1228	-.0836	468.8	-.0792	-.0244	-.1998
#2	.0614	4.094	.0990	.0012	-.0879	472.5	-.1181	-.1308	-.1876
#3	-.2428	2.628	-.1833	.0239	-.0777	467.2	-.0687	-.1308	-.0646

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0839	-3.060	460.4	1376.	-.0986	-.1209	11600.	.0057	.1118
Stddev	.0777	.251	15.4	9.	.0100	.0826	48.	.0460	.4018
%RSD	92.61	8.186	3.335	.6593	10.10	68.33	.4107	811.5	359.5
#1	.0650	-2.856	460.1	1366.	-.1058	-.0357	11650.	-.0399	-.2040
#2	.0174	-2.984	445.3	1383.	-.1027	-.2006	11580.	.0522	-.0248
#3	.1694	-3.339	476.0	1379.	-.0872	-.1264	11570.	.0047	.5640

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4474	.4717	1.076	-.3617	8.263	-.0620	.3398	-.0496	-.0022
Stddev	.1994	.4600	.479	.1987	.022	.0473	.6892	.1004	.0356
%RSD	44.57	97.52	44.52	54.93	.2641	76.31	202.8	202.5	1607.
#1	-.6326	.4360	1.386	-.3822	8.283	-.0074	-.2736	-.1550	.0304
#2	-.2363	.0306	1.318	-.1536	8.240	-.0915	1.086	.0449	.0032
#3	-.4734	.9486	.5243	-.5493	8.266	-.0871	.2075	-.0386	-.0402

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1326.5	2568.6	19908.	8388.0
Stddev	1.5	6.5	70.	57.7
%RSD	.11215	.25203	.35104	.68785
#1	1325.4	2569.8	19955.	8429.5
#2	1328.2	2574.4	19943.	8322.1
#3	1325.8	2561.6	19828.	8412.5

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/27/2012 10:36:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0165	-.4335	.0578	.0024	-.0203	425.6	-.0199	-.0170
Stddev	.0051	.1459	.0915	.0068	.0032	1.3	.0021	.0051
%RSD	30.80	33.66	158.3	280.6	15.93	.2959	10.76	30.22
#1	-.0126	-.6003	-.0459	-.0053	-.0196	426.4	-.0178	-.0185
#2	-.0223	-.3300	.1270	.0049	-.0175	424.2	-.0221	-.0212
#3	-.0146	-.3701	.0924	.0076	-.0238	426.3	-.0199	-.0113

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0428	-.0003	-.7971	403.5	1305.	-.0234	-.0138	F10780.
Stddev	.0181	.0085	.0454	1.6	5.	.0027	.0237	87.
%RSD	42.32	2835.	5.690	.3993	.3662	11.35	172.1	.8069
#1	-.0630	.0062	-.8383	405.3	1310.	-.0251	-.0126	10870.
#2	-.0280	-.0100	-.7485	403.0	1304.	-.0249	-.0381	10710.
#3	-.0374	.0029	-.8044	402.2	1301.	-.0204	.0093	10750.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0099	.0430	-.0825	.0175	.2049	-.0583	7.788	.0200
Stddev	.0153	.0289	.0115	.0870	.0606	.0101	.013	.0023
%RSD	154.3	67.16	14.00	496.2	29.55	17.36	.1703	11.70
#1	-.0121	.0624	-.0697	.0535	.2503	-.0582	7.775	.0173
#2	.0063	.0568	-.0922	.0808	.1361	-.0685	7.788	.0212
#3	-.0241	.0098	-.0855	-.0817	.2284	-.0483	7.801	.0214

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0081	-.0291	.0199
Stddev	.0120	.0221	.0171
%RSD	148.8	76.10	85.83
#1	-.0025	-.0103	.0017
#2	.0212	-.0235	.0355
#3	.0055	-.0535	.0226

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/27/2012 10:36:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.1	2500.2	19224.	8267.4
Stddev	4.7	3.7	50.	49.5
%RSD	.38087	.14844	.25949	.59923
#1	1236.7	2498.2	19201.	8245.9
#2	1238.8	2504.5	19190.	8324.0
#3	1229.8	2497.9	19281.	8232.2

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/27/2012 10:40:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0099	-.6412	-.0570	-.0036	-.0172	410.7	-.0232	-.0149
Stddev	.0507	.5775	.0121	.0163	.0020	1.5	.0087	.0156
%RSD	513.8	90.07	21.26	453.7	11.61	.3617	37.58	104.7
#1	-.0244	-.1908	-.0576	-.0193	-.0150	412.3	-.0154	-.0098
#2	-.0141	-.4405	-.0446	.0132	-.0177	410.3	-.0326	-.0324
#3	.0681	-1.292	-.0689	-.0046	-.0190	409.4	-.0215	-.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0361	.0140	-.8706	394.6	1256.	-.0198	-.0134	F10540.
Stddev	.0174	.0175	.0811	1.9	6.	.0031	.0130	65.
%RSD	48.30	125.0	9.313	.4832	.4530	15.85	97.10	.6160
#1	-.0226	.0082	-.9628	396.8	1262.	-.0220	-.0125	10600.
#2	-.0300	.0001	-.8104	393.7	1255.	-.0213	-.0009	10530.
#3	-.0558	.0337	-.8385	393.4	1251.	-.0162	-.0269	10480.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0007	-.0270	-.0721	.2462	.3560	-.0150	7.498	.0047
Stddev	.0122	.1289	.0802	.0618	.0115	.0210	.039	.0095
%RSD	1809.	477.3	111.3	25.12	3.219	139.4	.5244	201.2
#1	.0009	.0578	-.0319	.2272	.3622	-.0090	7.528	.0071
#2	-.0136	.0365	-.0198	.1961	.3630	-.0383	7.512	-.0057
#3	.0106	-.1754	-.1645	.3153	.3428	.0022	7.453	.0127

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.1450	.0004	.0009
Stddev	.1033	.0262	.0093
%RSD	71.26	6333.	1084.
#1	.0271	.0046	-.0081
#2	.1881	-.0277	.0104
#3	.2197	.0243	.0003

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/27/2012 10:40:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1233.7	2494.6	19152.	8174.3
Stddev	3.5	3.4	77.	37.1
%RSD	.28749	.13798	.40207	.45325
#1	1233.2	2494.0	19227.	8132.0
#2	1230.4	2491.4	19073.	8190.3
#3	1237.5	2498.3	19155.	8200.7

Zoom In Zoom Out

Sample Name: F95238-1 Acquired: 7/27/2012 10:45:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0015	.0760	.0010	.1163	-.0004	F1054.	-.0028	.0040	-.0002
Stddev	.0019	.0097	.0032	.0007	.0000	6.	.0000	.0002	.0006
%RSD	126.1	12.70	311.0	.6182	7.774	.5440	1.420	3.940	279.3
#1	.0030	.0807	-.0018	.1162	-.0004	1048.	-.0029	.0041	.0001
#2	.0022	.0824	.0045	.1171	-.0004	1059.	-.0028	.0042	.0001
#3	-.0006	.0649	.0004	.1156	-.0003	1054.	-.0028	.0039	-.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0022	2.754	31.42	412.2	F9.373	.0010	F1447.	.0026	.0011
Stddev	.0003	.011	.10	.6	.051	.0006	23.	.0004	.0016
%RSD	15.08	.4094	.3061	.1458	.5437	60.21	1.584	16.24	144.5
#1	-.0025	2.746	31.35	411.5	9.378	.0003	1471.	.0029	-.0005
#2	-.0023	2.748	31.39	412.3	9.320	.0013	1426.	.0021	.0012
#3	-.0018	2.767	31.53	412.7	9.421	.0015	1442.	.0028	.0027

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0018	.0003	13.28	-.0026	7.811	-.0104	.0018	-.0001	-.0019
Stddev	.0032	.0046	.03	.0008	.069	.0002	.0016	.0001	.0002
%RSD	178.6	1387.	.2109	30.63	.8889	1.818	91.88	171.5	7.846
#1	.0018	-.0034	13.30	-.0017	7.731	-.0104	.0001	-.0002	-.0018
#2	-.0044	.0054	13.25	-.0031	7.855	-.0102	.0018	.0000	-.0021
#3	-.0028	-.0010	13.30	-.0029	7.848	-.0106	.0034	.0000	-.0019

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	959.76	2136.3	16708.	7784.1
Stddev	1.74	5.4	34.	13.9
%RSD	.18087	.25476	.20051	.17857
#1	958.46	2134.2	16677.	7768.7
#2	961.74	2142.5	16743.	7795.7
#3	959.10	2132.3	16704.	7787.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 10:49:56 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	40.03	2.034	2.064	2.061	40.84	2.058	2.044	2.049	2.058
Stddev	.0002	.10	.009	.016	.006	.10	.002	.003	.007	.004
%RSD	.0718	.2382	.4586	.7746	.2944	.2481	.0840	.1253	.3461	.1975
#1	.2519	40.13	2.039	2.082	2.068	40.94	2.058	2.043	2.045	2.054
#2	.2517	39.94	2.023	2.055	2.057	40.74	2.057	2.043	2.057	2.062
#3	.2515	40.01	2.040	2.055	2.058	40.85	2.060	2.047	2.045	2.058
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.73	40.98	40.33	2.050	2.038	40.13	2.071	2.040	2.031	2.028
Stddev	.18	.12	.10	.008	.003	.06	.004	.004	.003	.004
%RSD	.4501	.2852	.2421	.3968	.1545	.1412	.1813	.1731	.1304	.1866
#1	39.92	41.12	40.45	2.049	2.039	40.19	2.071	2.037	2.034	2.028
#2	39.56	40.89	40.26	2.058	2.034	40.07	2.067	2.044	2.029	2.031
#3	39.71	40.94	40.30	2.042	2.040	40.12	2.075	2.039	2.031	2.024
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.074	2.104	2.086	2.060	2.067	2.141	2.067
Stddev	.006	.005	.010	.006	.004	.004	.002
%RSD	.2820	.2356	.4579	.2856	.1822	.1816	.1164
#1	2.077	2.103	2.097	2.056	2.068	2.138	2.069
#2	2.067	2.100	2.081	2.067	2.063	2.145	2.065
#3	2.078	2.109	2.081	2.057	2.071	2.141	2.068
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 10:49:56 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1160.5	2491.8	19656.	8500.3
Stddev	1.2	5.8	56.	38.2
%RSD	.10146	.23433	.28423	.44892
#1	1161.8	2490.4	19632.	8472.8
#2	1160.3	2498.1	19616.	8543.8
#3	1159.5	2486.7	19720.	8484.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:54:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0072	.0000	.0005	.0005	.0154	.0004	.0004	.0005	.0007
Stddev	.0003	.0041	.0004	.0000	.0000	.0030	.0001	.0001	.0003	.0002
%RSD	180.0	56.50	1495.	6.724	5.372	19.39	23.23	31.81	60.66	23.18
#1	-.0003	.0070	.0004	.0004	.0005	.0167	.0004	.0005	.0009	.0008
#2	-.0003	.0033	-.0005	.0005	.0005	.0175	.0005	.0004	.0004	.0007
#3	.0002	.0114	.0001	.0005	.0005	.0120	.0003	.0003	.0003	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224	.1017	.0114	.0005	.0009	.1235	.0006	.0006	.0000	.0016
Stddev	.0020	.0132	.0058	.0000	.0003	.0059	.0002	.0006	.0007	.0022
%RSD	8.951	13.00	50.95	6.438	29.81	4.771	29.74	103.5	8668.	132.2
#1	.0247	.1152	.0174	.0005	.0012	.1207	.0005	-.0001	-.0006	-.0008
#2	.0215	.0888	.0109	.0005	.0007	.1302	.0007	.0011	-.0002	.0026
#3	.0210	.1009	.0058	.0006	.0008	.1194	.0004	.0008	.0008	.0031
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0007	.0005	.0014	.0014	.0005	.0007
Stddev	.0005	.0003	.0000	.0001	.0009	.0002	.0001
%RSD	36.03	46.99	6.040	6.342	63.16	41.22	17.08
#1	.0017	.0010	.0005	.0015	.0013	.0007	.0006
#2	.0014	.0005	.0005	.0014	.0006	.0005	.0009
#3	.0008	.0005	.0005	.0013	.0023	.0003	.0007
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:54:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1415.7	2636.5	20485.	8551.0
Stddev	3.5	5.5	100.	61.2
%RSD	.24517	.20825	.48958	.71570
#1	1411.7	2633.5	20591.	8575.7
#2	1416.8	2642.8	20473.	8596.0
#3	1418.4	2633.1	20391.	8481.3

Zoom In Zoom Out

Sample Name: F95238-2 Acquired: 7/27/2012 10:58:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0622	-.0013	.2414	-.0003	688.5	-.0018	.0045	.0002
Stddev	.0008	.0169	.0022	.0008	.0000	5.6	.0001	.0005	.0005
%RSD	264.0	27.18	177.1	.3393	7.313	.8072	5.132	10.31	281.7
#1	.0002	.0756	.0012	.2420	-.0003	683.9	-.0018	.0044	-.0003
#2	-.0004	.0677	-.0031	.2417	-.0003	694.7	-.0019	.0050	.0001
#3	.0011	.0432	-.0019	.2405	-.0003	686.9	-.0017	.0041	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.9799	25.67	395.8	6.049	.0036	F922.8	.0012	.0001
Stddev	.0003	.0036	.08	1.9	.009	.0002	8.1	.0006	.0007
%RSD	35.65	.3643	.2982	.4787	.1464	5.632	.8743	47.02	609.9
#1	-.0008	.9840	25.65	394.5	6.045	.0038	924.1	.0019	.0000
#2	-.0004	.9785	25.76	398.0	6.043	.0034	930.2	.0009	.0009
#3	-.0009	.9772	25.61	395.1	6.059	.0037	914.2	.0009	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0019	.0020	12.95	-.0031	6.590	-.0045	.0006	.0005	-.0006
Stddev	.0022	.0081	.02	.0002	.058	.0003	.0006	.0009	.0003
%RSD	114.0	396.6	.1737	6.801	.8745	5.899	105.4	199.0	54.95
#1	.0006	-.0056	12.93	-.0034	6.653	-.0045	.0003	.0001	-.0006
#2	-.0031	.0105	12.97	-.0029	6.577	-.0048	.0012	-.0002	-.0002
#3	-.0034	.0012	12.95	-.0030	6.540	-.0042	.0001	.0015	-.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1003.6	2194.1	17120.	7891.0
Stddev	.6	3.2	32.	29.3
%RSD	.06337	.14772	.18411	.37158
#1	1004.3	2197.6	17143.	7885.8
#2	1003.0	2191.3	17132.	7864.7
#3	1003.4	2193.5	17084.	7922.6

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/27/2012 11:03:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0192	-.5005	-.0617	-.0059	-.0184	435.8	-.0180	-.0143
Stddev	.0405	.4752	.0688	.0053	.0028	1.4	.0022	.0170
%RSD	210.8	94.96	111.6	89.97	15.17	.3208	12.01	118.7
#1	.0246	-.0651	-.0489	.0000	-.0215	434.3	-.0191	.0032
#2	-.0271	-.4288	-.1360	-.0104	-.0161	435.9	-.0156	-.0154
#3	-.0552	-1.007	-.0001	-.0073	-.0176	437.1	-.0195	-.0308

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0523	.0045	-.3932	424.0	1329.	-.0165	-.0046	F10860.
Stddev	.0173	.0145	.0919	.6	3.	.0008	.0101	150.
%RSD	33.06	325.2	23.38	.1424	.2569	5.136	220.2	1.378
#1	-.0324	.0196	-.2873	423.7	1327.	-.0165	-.0012	10880.
#2	-.0619	-.0093	-.4529	423.6	1327.	-.0156	-.0159	11000.
#3	-.0627	.0031	-.4394	424.7	1333.	-.0173	.0034	10700.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0010	-.0165	-.0774	.0594	.3603	-.0376	7.967	.0181
Stddev	.0041	.0719	.0668	.0719	.0868	.0062	.030	.0115
%RSD	411.2	437.0	86.29	121.1	24.09	16.63	.3752	63.50
#1	.0044	-.0977	-.1367	.0806	.3763	-.0308	7.933	.0268
#2	.0022	.0089	-.0050	.1184	.2666	-.0387	7.990	.0051
#3	-.0036	.0394	-.0905	-.0207	.4380	-.0432	7.979	.0224

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0681	-.0063	.0236
Stddev	.0903	.0053	.0130
%RSD	132.7	84.57	54.97
#1	.1670	-.0083	.0247
#2	.0472	-.0102	.0102
#3	-.0100	-.0002	.0361

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/27/2012 11:03:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1225.1	2477.9	19132.	8223.7
Stddev	4.5	6.7	22.	10.8
%RSD	.36691	.27213	.11397	.13124
#1	1219.9	2471.0	19146.	8228.1
#2	1227.3	2478.1	19142.	8211.4
#3	1228.0	2484.5	19107.	8231.5

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/27/2012 11:07:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0314	-.0920	-.0518	-.0152	-.0147	434.5	-.0249	-.0145
Stddev	.0057	.8434	.0976	.0183	.0025	1.9	.0037	.0057
%RSD	18.05	916.6	188.4	120.1	17.33	.4485	14.84	39.22
#1	-.0282	-.4350	.0496	-.0275	-.0119	433.9	-.0288	-.0080
#2	-.0380	-.7099	-.1450	.0058	-.0153	432.8	-.0214	-.0186
#3	-.0280	.8689	-.0600	-.0239	-.0169	436.6	-.0246	-.0168

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0405	.0043	-.4590	421.8	1335.	-.0212	-.0224	F11030.
Stddev	.0116	.0216	.1458	1.9	9.	.0039	.0166	138.
%RSD	28.79	500.7	31.77	.4404	.6885	18.45	74.06	1.250
#1	-.0327	-.0099	-.5201	420.4	1343.	-.0203	-.0394	10880.
#2	-.0539	.0292	-.5643	421.2	1325.	-.0179	-.0063	11150.
#3	-.0348	-.0063	-.2925	423.9	1337.	-.0256	-.0213	11070.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0168	.0521	-.1201	.0976	.3314	-.0600	7.991	.0133
Stddev	.0217	.0826	.1066	.0704	.1075	.0110	.005	.0084
%RSD	129.0	158.6	88.75	72.09	32.44	18.28	.0693	63.07
#1	-.0202	-.0427	-.2412	.0225	.2462	-.0699	7.988	.0159
#2	-.0366	.0899	-.0407	.1082	.4522	-.0482	7.988	.0039
#3	.0064	.1091	-.0783	.1621	.2959	-.0620	7.998	.0201

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0172	-.0141	-.0011
Stddev	.0604	.0311	.0008
%RSD	350.9	219.8	73.35
#1	-.0694	-.0374	-.0002
#2	-.0312	.0212	-.0015
#3	.0490	-.0262	-.0016

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/27/2012 11:07:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1228.6	2476.9	19252.	8252.0
Stddev	3.0	5.8	28.	21.7
%RSD	.24104	.23314	.14544	.26291
#1	1230.0	2470.3	19282.	8248.6
#2	1225.2	2479.3	19248.	8275.2
#3	1230.6	2481.0	19226.	8232.3

Zoom In Zoom Out

Sample Name: F95192-1 Acquired: 7/27/2012 11:12:27 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	71.60	.0060	.2344	.0034	766.3	-.0018	.0064	.0984	.0247
Stddev	.0012	.08	.0009	.0007	.0000	5.0	.0001	.0002	.0004	.0003
%RSD	148.1	.1076	15.77	.2825	1.424	.6488	4.040	3.611	.4210	1.265
#1	.0002	71.69	.0070	.2344	.0035	760.8	-.0018	.0065	.0981	.0250
#2	-.0005	71.59	.0059	.2351	.0034	770.4	-.0018	.0062	.0982	.0247
#3	-.0021	71.54	.0051	.2338	.0034	767.7	-.0019	.0066	.0989	.0244

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	35.81	3.028	6.979	.0968	.0038	7.550	.0251	.0565	-.0004	.0071
Stddev	.07	.028	.034	.0002	.0002	.033	.0003	.0014	.0029	.0038
%RSD	.2089	.9112	.4811	.2407	4.117	.4414	1.154	2.451	762.8	53.30
#1	35.73	3.051	6.940	.0969	.0039	7.579	.0250	.0549	-.0021	.0038
#2	35.87	3.035	6.994	.0965	.0037	7.558	.0254	.0573	.0030	.0113
#3	35.84	2.997	7.002	.0969	.0037	7.513	.0249	.0573	-.0020	.0063

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.93	.0115	3.403	.3705	-.0024	.1882	.0220
Stddev	.10	.0009	.008	.0007	.0034	.0018	.0007
%RSD	.2034	7.597	.2373	.1951	142.3	.9457	3.140
#1	51.05	.0124	3.407	.3713	-.0024	.1903	.0213
#2	50.85	.0114	3.409	.3705	-.0057	.1872	.0227
#3	50.90	.0107	3.394	.3698	.0010	.1872	.0221

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1094.7	2517.2	19553.	8546.9
Stddev	6.2	15.9	111.	34.9
%RSD	.56726	.63244	.57011	.40879
#1	1087.6	2499.2	19438.	8539.3
#2	1098.1	2523.2	19560.	8516.4
#3	1098.5	2529.3	19661.	8585.0

Zoom In Zoom Out

Sample Name: MP23299-D1 Acquired: 7/27/2012 11:16:59 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	69.29	.0045	.2194	.0033	517.5	-.0012	.0050	.0954	.0237
Stddev	.0007	.14	.0015	.0017	.0001	2.5	.0002	.0004	.0003	.0002
%RSD	71.38	.1999	33.27	.7956	3.455	.4829	13.17	7.684	.3028	1.044
#1	-.0012	69.44	.0060	.2213	.0033	516.8	-.0010	.0046	.0957	.0240
#2	-.0002	69.18	.0043	.2178	.0034	520.3	-.0013	.0054	.0951	.0236
#3	-.0016	69.24	.0031	.2193	.0032	515.4	-.0011	.0050	.0955	.0235

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	32.92	2.968	6.796	.0792	.0041	4.705	.0245	.0561	-.0010	.0088
Stddev	.05	.043	.011	.0003	.0002	.000	.0004	.0024	.0010	.0019
%RSD	.1373	1.450	.1576	.4175	4.620	.0079	1.493	4.239	104.3	21.02
#1	32.95	2.991	6.803	.0789	.0041	4.705	.0242	.0559	.0001	.0087
#2	32.87	2.994	6.783	.0796	.0038	4.704	.0249	.0585	-.0019	.0071
#3	32.94	2.918	6.800	.0791	.0042	4.705	.0245	.0538	-.0011	.0108

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	51.66	.0123	2.330	.3402	-.0013	.2069	.0188
Stddev	.15	.0002	.006	.0017	.0006	.0008	.0001
%RSD	.2819	1.916	.2529	.4868	45.08	.3838	.5521
#1	51.83	.0121	2.337	.3398	-.0013	.2063	.0187
#2	51.59	.0126	2.328	.3388	-.0018	.2066	.0189
#3	51.57	.0123	2.326	.3421	-.0007	.2078	.0189

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1150.9	2578.1	20068.	8734.6
Stddev	3.0	11.1	15.	40.5
%RSD	.26251	.42922	.07324	.46363
#1	1147.5	2565.4	20053.	8690.8
#2	1153.3	2583.4	20083.	8742.1
#3	1152.0	2585.6	20070.	8770.8

Zoom In Zoom Out

Sample Name: MP23299-S1 Acquired: 7/27/2012 11:21:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0464	92.34	1.902	2.254	.0551	387.7	.0478	.4961	.2833	.2801
Stddev	.0001	.08	.008	.007	.0001	2.4	.0002	.0004	.0008	.0011
%RSD	.1227	.0827	.4166	.3213	.1455	.6178	.5011	.0878	.2720	.4064
#1	.0465	92.43	1.909	2.262	.0551	385.0	.0481	.4958	.2839	.2807
#2	.0464	92.33	1.904	2.252	.0552	388.8	.0476	.4966	.2835	.2787
#3	.0464	92.28	1.893	2.248	.0550	389.4	.0477	.4959	.2824	.2807

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.21	27.63	29.42	.5737	.4728	28.54	.5232	.5407	.2767	1.926
Stddev	.06	.05	.02	.0007	.0016	.07	.0009	.0024	.0021	.012
%RSD	.1057	.1672	.0691	.1291	.3279	.2353	.1656	.4518	.7689	.6063
#1	52.17	27.65	29.41	.5738	.4738	28.62	.5242	.5396	.2777	1.933
#2	52.20	27.66	29.45	.5729	.4736	28.51	.5228	.5390	.2742	1.933
#3	52.28	27.57	29.42	.5744	.4710	28.50	.5226	.5435	.2781	1.913

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	44.34	.4730	2.245	.5641	2.005	.6677	.5083
Stddev	.16	.0021	.004	.0027	.003	.0015	.0009
%RSD	.3560	.4538	.1983	.4804	.1557	.2297	.1688
#1	44.48	.4738	2.251	.5669	2.002	.6695	.5081
#2	44.37	.4705	2.243	.5615	2.007	.6670	.5075
#3	44.17	.4746	2.243	.5638	2.007	.6666	.5092

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1133.3	2547.1	19844.	8569.2
Stddev	3.6	11.0	28.	5.4
%RSD	.31787	.43240	.14201	.06347
#1	1129.2	2539.9	19824.	8564.7
#2	1134.7	2541.7	19833.	8567.6
#3	1136.0	2559.8	19877.	8575.3

Zoom In Zoom Out

Sample Name: MP23299-S2 Acquired: 7/27/2012 11:25:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0474	101.4	1.906	2.338	.0555	662.2	.0467	.4880	.2913	.2819
Stddev	.0004	.2	.016	.008	.0002	2.5	.0001	.0006	.0003	.0003
%RSD	.7944	.1973	.8178	.3408	.3697	.3825	.2075	.1253	.0958	.0921
#1	.0474	101.6	1.908	2.347	.0555	659.3	.0466	.4884	.2910	.2817
#2	.0470	101.4	1.890	2.335	.0557	663.4	.0468	.4873	.2916	.2820
#3	.0477	101.2	1.921	2.332	.0553	664.0	.0467	.4883	.2913	.2822

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	56.93	28.24	30.65	.6071	.4643	30.89	.5162	.5422	.2717	1.940
Stddev	.13	.14	.20	.0012	.0016	.10	.0009	.0025	.0018	.008
%RSD	.2358	.4987	.6610	.1910	.3513	.3198	.1668	.4595	.6483	.3943
#1	56.79	28.21	30.47	.6064	.4640	31.00	.5164	.5406	.2708	1.932
#2	56.95	28.40	30.62	.6084	.4629	30.85	.5153	.5408	.2705	1.941
#3	57.06	28.12	30.87	.6065	.4661	30.82	.5170	.5450	.2737	1.947

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.57	.4604	3.268	.5910	1.991	.6827	.5019
Stddev	.17	.0009	.008	.0020	.012	.0007	.0012
%RSD	.3603	.2038	.2411	.3309	.6131	.0980	.2433
#1	47.68	.4593	3.277	.5890	1.987	.6833	.5005
#2	47.37	.4608	3.263	.5929	1.981	.6827	.5025
#3	47.65	.4610	3.263	.5912	2.005	.6820	.5027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1094.3	2510.5	19385.	8363.0
Stddev	5.8	9.2	49.	13.5
%RSD	.52850	.36705	.25429	.16126
#1	1091.5	2501.4	19424.	8362.8
#2	1100.9	2519.8	19329.	8376.6
#3	1090.4	2510.5	19401.	8349.6

Zoom In Zoom Out

Sample Name: MP23299-PS1 Acquired: 7/27/2012 11:30:13 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0469	71.66	.1058	.4815	.0560	753.7	.0473	.0546	.1448	.1293
Stddev	.0007	.18	.0008	.0011	.0003	2.5	.0001	.0002	.0007	.0011
%RSD	1.428	.2452	.7397	.2303	.4807	.3382	.2819	.4417	.5001	.8512
#1	.0466	71.82	.1056	.4825	.0562	756.6	.0472	.0548	.1457	.1286
#2	.0476	71.69	.1051	.4803	.0560	752.5	.0473	.0544	.1444	.1305
#3	.0464	71.47	.1066	.4815	.0557	751.9	.0475	.0548	.1443	.1286

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.76	13.21	11.66	.1449	.1009	17.54	.1205	.1067	.0964	.1062
Stddev	.12	.07	.04	.0003	.0002	.01	.0006	.0016	.0026	.0066
%RSD	.3052	.5362	.3299	.1764	.1753	.0812	.5291	1.513	2.749	6.226
#1	37.87	13.29	11.70	.1446	.1008	17.55	.1212	.1056	.0991	.1132
#2	37.76	13.15	11.65	.1451	.1011	17.53	.1199	.1058	.0938	.1053
#3	37.64	13.20	11.62	.1451	.1008	17.54	.1203	.1085	.0963	.1000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	49.00	.0561	3.343	.4603	.0992	.2351	.2936
Stddev	.07	.0008	.005	.0007	.0015	.0022	.0008
%RSD	.1387	1.367	.1568	.1540	1.539	.9155	.2737
#1	49.07	.0565	3.349	.4609	.0999	.2373	.2929
#2	48.99	.0566	3.340	.4595	.1002	.2350	.2935
#3	48.94	.0552	3.340	.4604	.0974	.2331	.2945

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1102.0	2538.4	19676.	8534.4
Stddev	2.9	4.3	44.	64.6
%RSD	.26671	.17004	.22455	.75644
#1	1100.4	2533.4	19706.	8460.8
#2	1105.4	2540.7	19625.	8561.2
#3	1100.3	2541.0	19697.	8581.3

Zoom In Zoom Out

Sample Name: MP23299-SD1 Acquired: 7/27/2012 11:34:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0027	78.24	.0005	.2556	.0025	888.3	-.0035	.0056	.1115	.0234
Stddev	.0036	.42	.0047	.0021	.0001	2.8	.0007	.0010	.0010	.0004
%RSD	135.6	.5325	982.9	.8062	3.477	.3194	19.41	17.02	.9070	1.879
#1	.0060	77.80	-.0028	.2550	.0025	885.6	-.0027	.0056	.1126	.0229
#2	-.0012	78.62	-.0017	.2579	.0024	891.3	-.0038	.0047	.1111	.0238
#3	.0032	78.29	.0058	.2539	.0026	888.1	-.0039	.0066	.1107	.0234

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.89	3.136	8.046	.1086	.0035	7.853	.0275	.0668	-.0155	.0279
Stddev	.26	.092	.068	.0016	.0013	.064	.0014	.0065	.0095	.0054
%RSD	.6235	2.929	.8418	1.436	35.92	.8115	5.039	9.757	61.39	19.39
#1	40.61	3.062	7.980	.1088	.0021	7.878	.0261	.0595	-.0080	.0275
#2	41.10	3.239	8.116	.1070	.0046	7.900	.0289	.0690	-.0262	.0334
#3	40.98	3.108	8.044	.1101	.0037	7.780	.0275	.0720	-.0124	.0226

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	55.88	.0068	3.727	.4166	.0095	.2099	.0241
Stddev	.14	.0016	.007	.0016	.0072	.0035	.0007
%RSD	.2580	23.95	.1790	.3784	75.68	1.661	3.056
#1	55.72	.0059	3.722	.4148	.0140	.2062	.0250
#2	56.00	.0086	3.735	.4173	.0012	.2132	.0239
#3	55.91	.0057	3.725	.4177	.0134	.2102	.0235

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1279.9	2596.9	20145.	8386.8
Stddev	.8	4.1	33.	35.5
%RSD	.06282	.15837	.16233	.42279
#1	1280.7	2599.7	20119.	8396.0
#2	1279.9	2592.2	20182.	8347.7
#3	1279.1	2598.8	20134.	8416.8

Zoom In Zoom Out

Sample Name: F95194-1 Acquired: 7/27/2012 11:39:06 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	205.0	.0235	1.503	.0084	36.07	.0059	.0071	.3236	.8634
Stddev	.0014	.3	.0049	.006	.0002	.12	.0002	.0002	.0011	.0031
%RSD	199.6	.1589	20.90	.4173	2.675	.3197	3.031	2.689	.3412	.3575
#1	.0008	204.8	.0229	1.510	.0083	35.94	.0061	.0069	.3228	.8660
#2	-.0008	205.3	.0287	1.503	.0087	36.10	.0059	.0071	.3248	.8600
#3	-.0021	204.8	.0189	1.497	.0082	36.16	.0057	.0073	.3231	.8641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	111.5	4.154	6.770	2.278	.0040	3.364	.0926	.1722	-.0085	.0137
Stddev	.1	.044	.096	.003	.0008	.008	.0008	.0029	.0029	.0088
%RSD	.0477	1.059	1.422	.1425	19.04	.2288	.9097	1.657	33.56	63.95
#1	111.5	4.126	6.661	2.280	.0033	3.365	.0936	.1727	-.0098	.0116
#2	111.4	4.131	6.806	2.279	.0038	3.356	.0924	.1748	-.0105	.0234
#3	111.5	4.204	6.844	2.274	.0048	3.371	.0919	.1691	-.0052	.0062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	34.60	.0177	2.874	1.343	.0008	.1025	.5634
Stddev	.07	.0027	.002	.005	.0019	.0006	.0006
%RSD	.1943	15.08	.0694	.3957	251.6	.5942	.1110
#1	34.66	.0208	2.875	1.348	.0000	.1020	.5639
#2	34.62	.0160	2.872	1.344	.0029	.1032	.5627
#3	34.53	.0163	2.875	1.337	-.0007	.1023	.5636

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1307.6	2928.3	22828.	9479.2
Stddev	.5	5.4	70.	13.1
%RSD	.03719	.18496	.30784	.13848
#1	1307.4	2922.5	22770.	9469.0
#2	1308.1	2929.4	22806.	9474.6
#3	1307.2	2933.1	22906.	9494.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 11:43:27 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2553	40.88	2.052	2.081	2.090	41.50	2.082	2.074	2.089	2.061
Stddev	.0011	.05	.003	.000	.002	.04	.001	.001	.016	.009
%RSD	.4480	.1182	.1570	.0147	.0723	.1055	.0403	.0692	.7489	.4256
#1	.2566	40.87	2.056	2.081	2.092	41.53	2.082	2.075	2.098	2.057
#2	.2543	40.83	2.050	2.081	2.089	41.45	2.082	2.075	2.071	2.071
#3	.2551	40.93	2.050	2.082	2.090	41.52	2.081	2.072	2.099	2.054
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.51	41.26	41.05	2.095	2.075	41.17	2.086	2.049	2.047	2.053
Stddev	.06	.06	.09	.012	.001	.04	.001	.004	.004	.003
%RSD	.1418	.1500	.2083	.5497	.0441	.0996	.0480	.2034	.2029	.1197
#1	40.57	41.31	41.08	2.106	2.075	41.21	2.087	2.047	2.048	2.050
#2	40.51	41.19	41.12	2.083	2.076	41.17	2.086	2.054	2.051	2.055
#3	40.45	41.27	40.96	2.096	2.074	41.12	2.085	2.047	2.043	2.054
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.111	2.098	2.088	2.075	2.157	2.087
Stddev	.003	.000	.001	.005	.003	.004	.003
%RSD	.1242	.0196	.0537	.2643	.1373	.1673	.1226
#1	2.091	2.110	2.099	2.094	2.079	2.160	2.086
#2	2.086	2.111	2.097	2.083	2.075	2.153	2.089
#3	2.087	2.111	2.098	2.087	2.073	2.158	2.084
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 11:43:27 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1159.5	2483.2	19589.	8319.9
Stddev	.5	2.1	49.	24.2
%RSD	.04669	.08320	.24800	.29034
#1	1160.1	2481.8	19535.	8304.2
#2	1159.2	2485.6	19603.	8307.7
#3	1159.2	2482.3	19629.	8347.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 11:47:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0076	-.0019	-.0003	-.0001	-.0016	-.0001	-.0003	.0001	-.0001
Stddev	.0001	.0048	.0009	.0000	.0000	.0019	.0001	.0001	.0004	.0001
%RSD	190.0	63.87	47.55	6.233	16.52	116.6	53.54	25.12	250.6	44.62
#1	-.0001	-.0036	-.0013	-.0003	-.0001	-.0016	-.0001	-.0002	.0003	-.0001
#2	-.0002	-.0129	-.0015	-.0003	-.0001	-.0034	-.0001	-.0003	-.0003	-.0002
#3	.0001	-.0062	-.0030	-.0003	-.0001	.0003	-.0002	-.0003	.0004	-.0002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0139	-.0040	-.0001	.0004	.0228	.0001	-.0004	-.0001	.0008
Stddev	.0016	.0111	.0063	.0000	.0002	.0045	.0001	.0001	.0005	.0012
%RSD	22.10	80.15	158.5	20.42	41.69	19.85	61.94	26.08	716.9	144.7
#1	.0091	.0254	-.0094	-.0001	.0004	.0179	.0003	-.0003	.0004	.0009
#2	.0074	.0129	.0030	-.0001	.0006	.0267	.0001	-.0005	-.0001	-.0004
#3	.0058	.0033	-.0056	-.0002	.0002	.0237	.0001	-.0004	-.0006	.0019
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0000	-.0001	.0005	.0019	.0001	.0000
Stddev	.0005	.001	.0000	.0002	.0010	.0001	.0001
%RSD	21.28	21780.	17.46	31.20	53.50	185.2	794.0
#1	.0024	.0007	-.0001	.0007	.0009	-.0001	-.0001
#2	.0030	-.0004	-.0001	.0005	.0030	.0001	.0001
#3	.0019	-.0003	-.0001	.0004	.0019	.0002	.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 11:47:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1415.1	2608.3	20613.	8425.3
Stddev	3.4	5.8	4.	11.5
%RSD	.23993	.22138	.01897	.13640
#1	1415.0	2612.2	20610.	8412.7
#2	1411.7	2601.7	20618.	8435.1
#3	1418.5	2611.1	20612.	8428.2

Zoom In Zoom Out

Sample Name: MP23312-MB1 Acquired: 7/27/2012 11:52:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0066	-.0017	-.0003	-.0002	-.0022	-.0002	-.0002	-.0001	-.0011
Stddev	.0002	.0022	.0014	.0000	.0000	.0034	.0000	.0001	.0002	.0002
%RSD	40.81	33.37	85.11	6.775	18.46	149.4	17.36	50.58	179.5	18.58
#1	-.0005	-.0080	-.0034	-.0003	-.0002	-.0058	-.0002	-.0001	-.0001	-.0011
#2	-.0002	-.0041	-.0008	-.0003	-.0002	-.0017	-.0002	-.0003	.0001	-.0009
#3	-.0005	-.0079	-.0010	-.0003	-.0001	.0008	-.0002	-.0002	-.0004	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.0056	-.0039	-.0001	.0000	.0198	.0002	.0000	-.0009	.0008
Stddev	.0007	.0158	.0033	.0001	.0002	.0071	.0000	.001	.0007	.0023
%RSD	26.67	280.8	84.25	42.09	9115.	35.54	18.68	3634.	75.21	269.3
#1	-.0029	.0162	-.0075	-.0002	-.0003	.0160	.0003	-.0010	-.0014	-.0018
#2	-.0032	.0133	-.0009	-.0001	.0002	.0280	.0002	-.0004	-.0001	.0019
#3	-.0018	-.0126	-.0034	-.0001	.0001	.0155	.0002	.0013	-.0011	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	-.0014	-.0002	.0000	.0006	-.0001	.0001
Stddev	.0008	.0003	.0000	.000	.0008	.0003	.0001
%RSD	11.19	21.50	10.38	1032.	130.7	289.8	83.39
#1	.0077	-.0015	-.0002	.0000	-.0002	.0001	.0001
#2	.0064	-.0016	-.0002	.0000	.0006	.0000	.0003
#3	.0065	-.0010	-.0002	.0000	.0013	-.0004	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23312-MB1 Acquired: 7/27/2012 11:52:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1408.6	2596.4	20641.	8523.6
Stddev	2.5	10.0	81.	44.8
%RSD	.17867	.38342	.39024	.52601
#1	1406.3	2585.3	20673.	8547.1
#2	1411.3	2599.5	20550.	8471.9
#3	1408.2	2604.4	20702.	8551.9

Zoom In Zoom Out

Sample Name: MP23312-B1 Acquired: 7/27/2012 11:56:32 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499	28.46	2.017	2.141	.0535	26.65	.0525	.5298	.2115	.2640
Stddev	.0004	.07	.002	.003	.0001	.05	.0002	.0009	.0013	.0002
%RSD	.8271	.2504	.0866	.1440	.1844	.1845	.2913	.1714	.6365	.0786
#1	.0503	28.41	2.017	2.141	.0534	26.60	.0527	.5306	.2130	.2637
#2	.0495	28.54	2.015	2.144	.0535	26.70	.0524	.5299	.2108	.2640
#3	.0499	28.43	2.019	2.138	.0536	26.65	.0525	.5288	.2105	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.84	26.71	25.76	.5276	.5429	26.68	.5421	.4937	.5148	2.043
Stddev	.06	.11	.13	.0010	.0010	.08	.0015	.0024	.0035	.005
%RSD	.2327	.4169	.4854	.1937	.1863	.3141	.2735	.4769	.6719	.2279
#1	27.77	26.68	25.62	.5276	.5438	26.69	.5438	.4921	.5174	2.048
#2	27.87	26.83	25.79	.5266	.5431	26.76	.5410	.4964	.5162	2.038
#3	27.88	26.61	25.87	.5287	.5418	26.60	.5416	.4926	.5109	2.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.5473	.5430	.5379	2.051	.5335	.5288
Stddev	.0008	.0020	.0017	.0008	.003	.0007	.0015
%RSD	8.004	.3710	.3120	.1447	.1602	.1242	.2901
#1	.0111	.5495	.5422	.5382	2.051	.5330	.5289
#2	.0103	.5469	.5449	.5370	2.048	.5333	.5302
#3	.0095	.5454	.5419	.5384	2.055	.5343	.5272
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23312-B1 Acquired: 7/27/2012 11:56:32 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1225.8	2511.2	19982.	8523.5
Stddev	1.0	8.5	55.	3.2
%RSD	.08518	.33904	.27348	.03779
#1	1225.3	2501.4	19920.	8522.3
#2	1227.0	2516.4	20024.	8527.2
#3	1225.1	2515.8	20002.	8521.1

Zoom In
Zoom Out

Sample Name: F95294-1 Acquired: 7/27/2012 12:00:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0553	.0082	.0377	-.0001	110.8	-.0004	.0016	.0010	-.0005
Stddev	.0007	.0118	.0002	.0001	.0000	.4	.0001	.0001	.0002	.0002
%RSD	150.7	21.26	2.582	.2208	32.62	.3419	15.99	9.407	18.34	44.55
#1	-.0009	.0417	.0081	.0377	-.0002	111.1	-.0004	.0014	.0012	-.0007
#2	-.0009	.0617	.0085	.0376	-.0001	110.9	-.0003	.0016	.0008	-.0003
#3	.0003	.0624	.0081	.0377	-.0001	110.4	-.0003	.0017	.0011	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.076	28.64	22.51	.1197	.0628	43.91	.0151	.0000	.0010	.0055
Stddev	.006	.03	.12	.0002	.0001	.10	.0001	.0009	.0006	.0027
%RSD	.2954	.1142	.5237	.1883	.1778	.2388	.5983	8202.	64.87	49.58
#1	2.081	28.60	22.56	.1198	.0629	43.82	.0150	.0005	.0003	.0083
#2	2.069	28.67	22.60	.1194	.0626	43.89	.0152	.0005	.0010	.0054
#3	2.076	28.64	22.38	.1198	.0628	44.03	.0151	-.0010	.0016	.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.074	-.0017	.6648	.0028	.0005	.0038	.0052
Stddev	.010	.0005	.0011	.0002	.0009	.0004	.0000
%RSD	.2537	32.02	.1584	7.968	206.9	9.975	.9384
#1	4.085	-.0016	.6639	.0030	-.0002	.0043	.0052
#2	4.065	-.0023	.6646	.0026	.0001	.0037	.0051
#3	4.072	-.0012	.6660	.0027	.0015	.0036	.0052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1193.2	2405.1	19163.	8310.8
Stddev	4.4	5.5	15.	30.2
%RSD	.36744	.22972	.08017	.36304
#1	1197.1	2401.2	19180.	8276.3
#2	1194.0	2411.4	19160.	8324.1
#3	1188.4	2402.6	19150.	8332.1

Zoom In
Zoom Out

Sample Name: MP23312-D1 Acquired: 7/27/2012 12:05:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0624	.0098	.0386	-.0002	112.9	-.0004	.0018	.0011	-.0002
Stddev	.0002	.0044	.0002	.0002	.0000	.1	.0000	.0000	.0006	.0002
%RSD	125.9	6.980	2.413	.5472	30.39	.1166	9.498	2.552	52.67	129.3
#1	-.0003	.0577	.0100	.0386	-.0002	113.0	-.0004	.0018	.0004	-.0002
#2	.0001	.0663	.0095	.0384	-.0001	112.7	-.0004	.0018	.0013	.0001
#3	-.0004	.0632	.0098	.0388	-.0002	113.0	-.0004	.0018	.0015	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.116	29.22	23.00	.1232	.0646	44.69	.0152	.0003	.0005	.0066
Stddev	.011	.05	.05	.0006	.0003	.05	.0002	.0006	.0013	.0001
%RSD	.5240	.1779	.1988	.5140	.4367	.1010	1.121	255.7	264.5	1.948
#1	2.113	29.28	22.98	.1240	.0647	44.65	.0153	.0004	.0007	.0066
#2	2.106	29.18	22.96	.1230	.0643	44.73	.0152	-.0005	.0017	.0064
#3	2.128	29.19	23.05	.1228	.0648	44.68	.0150	.0008	-.0009	.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.150	-.0014	.6766	.0025	.0004	.0037	.0053
Stddev	.003	.0002	.0018	.0002	.0018	.0001	.0002
%RSD	.0643	10.50	.2637	6.220	416.5	2.164	2.896
#1	4.152	-.0015	.6769	.0024	.0024	.0038	.0052
#2	4.147	-.0013	.6747	.0024	-.0012	.0036	.0053
#3	4.150	-.0016	.6783	.0026	.0001	.0037	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1190.7	2397.3	19096.	8194.8
Stddev	1.7	7.9	84.	38.5
%RSD	.14653	.33107	.43996	.46983
#1	1188.9	2388.2	19016.	8160.6
#2	1191.0	2402.4	19089.	8236.5
#3	1192.4	2401.3	19183.	8187.2

Zoom In
Zoom Out

Sample Name: MP23312-SD1 Acquired: 7/27/2012 12:09:27 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	.0367	.0039	.0376	-.0007	112.8	-.0014	.0006	-.0003	-.0017
Stddev	.0014	.0254	.0058	.0003	.0001	.4	.0001	.0001	.0012	.0010
%RSD	145.5	69.03	148.8	.7984	13.64	.3465	6.384	22.61	389.8	62.23
#1	.0006	.0467	.0086	.0374	-.0006	112.9	-.0015	.0006	-.0015	-.0011
#2	-.0021	.0556	.0056	.0379	-.0008	112.4	-.0014	.0006	-.0001	-.0011
#3	-.0015	.0079	-.0026	.0374	-.0008	113.1	-.0013	.0008	.0008	-.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.126	29.02	23.11	.1227	.0640	43.70	.0160	.0035	-.0089	.0046
Stddev	.016	.06	.13	.0013	.0015	.10	.0014	.0053	.0064	.0097
%RSD	.7644	.2154	.5444	1.046	2.370	.2315	8.618	150.4	71.56	212.0
#1	2.107	29.03	23.09	.1221	.0649	43.58	.0163	-.0022	-.0103	.0080
#2	2.135	28.96	22.99	.1218	.0648	43.76	.0145	.0082	-.0019	-.0064
#3	2.136	29.08	23.24	.1242	.0622	43.76	.0173	.0045	-.0144	.0120

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.150	-.0040	.6764	.0053	-.0005	.0038	.0051
Stddev	.020	.0020	.0017	.0005	.0077	.0010	.0002
%RSD	.4688	50.26	.2494	8.919	1426.	26.77	4.412
#1	4.128	-.0048	.6754	.0054	.0023	.0046	.0050
#2	4.154	-.0017	.6755	.0056	-.0092	.0040	.0050
#3	4.166	-.0055	.6784	.0047	.0053	.0027	.0054

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1328.1	2537.3	20240.	8414.2
Stddev	1.8	7.5	43.	17.0
%RSD	.13382	.29458	.21131	.20226
#1	1330.1	2544.1	20231.	8410.3
#2	1326.6	2538.5	20287.	8432.9
#3	1327.7	2529.3	20203.	8399.6

Zoom In
Zoom Out

Sample Name: MP23312-PS1 Acquired: 7/27/2012 12:13:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0500	2.638	.1143	.2991	.0542	113.8	.0539	.0553	.0540	.1085
Stddev	.0003	.015	.0013	.0015	.0004	1.0	.0002	.0002	.0004	.0005
%RSD	.6272	.5796	1.134	.5087	.7253	.9222	.4491	.3153	.6852	.4179
#1	.0500	2.631	.1155	.3006	.0538	112.6	.0536	.0553	.0541	.1090
#2	.0497	2.655	.1129	.2992	.0546	114.7	.0540	.0552	.0543	.1081
#3	.0503	2.627	.1146	.2976	.0541	114.1	.0540	.0555	.0536	.1086

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.179	38.73	26.89	.1687	.1682	53.78	.1218	.0486	.1059	.1117
Stddev	.043	.05	.27	.0003	.0002	.13	.0003	.0001	.0006	.0024
%RSD	.8208	.1221	1.010	.1931	.1035	.2379	.2407	.1036	.5286	2.133
#1	5.133	38.78	26.60	.1691	.1682	53.93	.1222	.0486	.1054	.1128
#2	5.217	38.69	27.13	.1684	.1680	53.73	.1217	.0487	.1059	.1134
#3	5.188	38.72	26.94	.1686	.1683	53.69	.1216	.0486	.1065	.1090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.052	.0475	.7038	.1083	.1007	.0577	.3049
Stddev	.010	.0003	.0014	.0003	.0009	.0002	.0004
%RSD	.2374	.5959	.1980	.2979	.8663	.3728	.1195
#1	4.053	.0472	.7044	.1086	.1016	.0579	.3045
#2	4.043	.0477	.7048	.1080	.1007	.0576	.3051
#3	4.062	.0476	.7022	.1083	.0998	.0575	.3052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1177.0	2404.6	19249.	8393.5
Stddev	4.6	5.4	18.	75.0
%RSD	.39164	.22412	.09576	.89327
#1	1172.5	2400.3	19231.	8466.0
#2	1181.7	2410.7	19250.	8316.3
#3	1176.8	2402.9	19267.	8398.2

Zoom In
Zoom Out

Sample Name: MP23312-S1 Acquired: 7/27/2012 12:18:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0501	28.41	2.067	2.176	.0533	134.3	.0510	.5177	.2090	.2648
Stddev	.0002	.11	.007	.009	.0002	.5	.0002	.0025	.0008	.0009
%RSD	.3680	.3790	.3344	.4076	.3578	.3780	.3148	.4902	.3876	.3428
#1	.0500	28.29	2.063	2.168	.0531	133.8	.0510	.5203	.2088	.2645
#2	.0503	28.44	2.064	2.175	.0535	134.8	.0508	.5153	.2082	.2658
#3	.0500	28.50	2.075	2.186	.0534	134.4	.0511	.5176	.2098	.2641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.09	55.06	47.92	.6360	.5943	70.40	.5367	.4938	.5228	2.076
Stddev	.10	.14	.19	.0040	.0022	.12	.0018	.0024	.0012	.012
%RSD	.3557	.2473	.3917	.6240	.3657	.1768	.3267	.4826	.2270	.5897
#1	28.97	54.95	47.72	.6406	.5942	70.33	.5360	.4965	.5241	2.078
#2	29.12	55.02	47.96	.6341	.5922	70.33	.5354	.4925	.5226	2.063
#3	29.17	55.21	48.09	.6334	.5966	70.55	.5387	.4923	.5218	2.087

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.086	.5219	1.198	.5308	2.001	.5321	.5186
Stddev	.009	.0014	.003	.0010	.004	.0020	.0004
%RSD	.2273	.2777	.2051	.1795	.2003	.3678	.0803
#1	4.091	.5216	1.196	.5316	1.997	.5338	.5181
#2	4.076	.5207	1.198	.5309	2.005	.5327	.5190
#3	4.093	.5235	1.201	.5298	2.001	.5300	.5186

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1123.2	2404.1	19201.	8295.8
Stddev	4.3	7.7	60.	33.7
%RSD	.38164	.31822	.31137	.40677
#1	1120.2	2399.0	19145.	8331.2
#2	1128.1	2412.9	19194.	8292.3
#3	1121.2	2400.3	19264.	8264.0

Zoom In
Zoom Out

Sample Name: MP23312-S2 Acquired: 7/27/2012 12:22:25 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0508	28.93	2.101	2.236	.0546	134.0	.0519	.5278	.2132	.2686
Stddev	.0008	.08	.004	.002	.0003	1.2	.0001	.0008	.0002	.0009
%RSD	1.564	.2667	.1784	.0795	.5005	.9010	.1987	.1523	.0766	.3353
#1	.0510	28.92	2.102	2.235	.0544	132.7	.0520	.5275	.2133	.2694
#2	.0515	28.85	2.105	2.238	.0545	135.2	.0518	.5273	.2130	.2676
#3	.0500	29.01	2.097	2.235	.0550	134.0	.0519	.5287	.2131	.2688

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.55	55.13	48.20	.6482	.6090	70.39	.5455	.5007	.5328	2.124
Stddev	.06	.12	.16	.0019	.0011	.15	.0001	.0029	.0020	.006
%RSD	.1928	.2149	.3311	.2929	.1837	.2107	.0177	.5810	.3788	.2854
#1	29.49	55.17	48.06	.6485	.6094	70.40	.5455	.5032	.5317	2.125
#2	29.60	55.00	48.37	.6462	.6077	70.24	.5456	.4975	.5351	2.130
#3	29.55	55.23	48.16	.6500	.6098	70.54	.5455	.5014	.5315	2.118

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.073	.5301	1.209	.5441	2.034	.5392	.5234
Stddev	.005	.0002	.001	.0018	.011	.0014	.0006
%RSD	.1148	.0320	.0872	.3295	.5490	.2608	.1116
#1	4.068	.5302	1.208	.5439	2.039	.5405	.5240
#2	4.077	.5299	1.208	.5424	2.021	.5377	.5229
#3	4.075	.5302	1.210	.5460	2.042	.5393	.5232

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1118.7	2389.4	19095.	8179.8
Stddev	2.6	4.9	42.	35.5
%RSD	.23321	.20501	.22194	.43369
#1	1116.0	2389.7	19064.	8194.2
#2	1121.2	2384.4	19143.	8139.4
#3	1118.9	2394.2	19078.	8205.8

Zoom In
Zoom Out

Sample Name: F95252-1 Acquired: 7/27/2012 12:26:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.2898	.0078	.0202	-.0002	73.64	-.0005	.0000	.0017	-.0007
Stddev	.0003	.0106	.0017	.0001	.0000	.22	.0000	.0001	.0004	.0001
%RSD	165.3	3.651	21.75	.5019	29.21	.3002	7.955	216.1	23.50	15.11
#1	-.0001	.2776	.0084	.0201	-.0002	73.41	-.0005	.0001	.0018	-.0006
#2	.0005	.2961	.0091	.0203	-.0002	73.64	-.0004	-.0001	.0020	-.0007
#3	.0001	.2957	.0059	.0203	-.0001	73.85	-.0005	.0001	.0012	-.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.970	4.482	5.956	.0788	.0053	28.05	.0041	.0004	-.0003	.0039
Stddev	.015	.003	.036	.0002	.0002	.06	.0001	.0008	.0009	.0029
%RSD	.1719	.0620	.6083	.2247	3.530	.2137	2.656	208.2	274.2	73.82
#1	8.953	4.482	5.917	.0785	.0054	28.06	.0040	-.0002	-.0002	.0006
#2	8.971	4.485	5.960	.0788	.0051	27.98	.0041	.0013	.0005	.0057
#3	8.984	4.480	5.989	.0789	.0054	28.09	.0042	.0001	-.0012	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.289	-.0018	.2242	.0100	-.0022	.0023	.0075
Stddev	.006	.0004	.0004	.0006	.0009	.0001	.0001
%RSD	.1467	22.65	.1862	5.742	43.17	3.357	.7608
#1	4.288	-.0019	.2246	.0107	-.0016	.0022	.0075
#2	4.283	-.0013	.2239	.0096	-.0033	.0023	.0074
#3	4.295	-.0020	.2239	.0099	-.0016	.0023	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1246.1	2459.1	19678.	8320.9
Stddev	1.3	.3	45.	4.2
%RSD	.10741	.01349	.23067	.05107
#1	1245.0	2459.2	19687.	8323.5
#2	1245.8	2459.5	19629.	8323.1
#3	1247.6	2458.8	19718.	8316.0

Zoom In Zoom Out

Sample Name: F95252-1F Acquired: 7/27/2012 12:31:06 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0275	.0086	.0189	-.0002	74.22	-.0004	-.0001	.0007	-.0011
Stddev	.0006	.0035	.0004	.0001	.0000	.51	.0000	.0001	.0001	.0001
%RSD	126.0	12.71	4.459	.3596	9.232	.6850	4.351	131.1	15.87	10.07
#1	-.0004	.0255	.0084	.0189	-.0002	73.75	-.0004	.0000	.0008	-.0010
#2	.0001	.0254	.0090	.0188	-.0002	74.15	-.0004	-.0002	.0008	-.0012
#3	-.0012	.0315	.0083	.0189	-.0002	74.76	-.0004	-.0001	.0006	-.0011

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.855	4.555	5.991	.0770	.0048	28.85	.0041	.0001	-.0013	.0017
Stddev	.030	.015	.027	.0002	.0002	.13	.0002	.0002	.0007	.0017
%RSD	.3359	.3277	.4568	.2518	4.822	.4340	4.169	350.9	55.26	100.5
#1	8.822	4.548	5.960	.0772	.0046	28.70	.0041	.0003	-.0021	.0033
#2	8.861	4.573	6.003	.0769	.0048	28.94	.0040	.0000	-.0011	.0018
#3	8.880	4.546	6.010	.0768	.0051	28.89	.0043	-.0001	-.0007	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.957	-.0015	.2215	.0009	-.0001	.0022	.0082
Stddev	.011	.0007	.0003	.0001	.0019	.0001	.0000
%RSD	.2870	49.89	.1464	14.07	3126.	6.580	.3725
#1	3.947	-.0015	.2212	.0010	.0000	.0021	.0082
#2	3.955	-.0007	.2215	.0010	.0018	.0024	.0082
#3	3.970	-.0022	.2218	.0008	-.0020	.0021	.0081

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1246.7	2460.4	19882.	8454.4
Stddev	.9	2.5	68.	30.5
%RSD	.06832	.10218	.34382	.36122
#1	1246.2	2457.5	19871.	8474.4
#2	1246.3	2461.7	19819.	8469.5
#3	1247.7	2462.1	19954.	8419.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 12:35:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595	41.19	2.089	2.072	2.098	41.68	2.115	2.116	2.087	2.058
Stddev	.0007	.14	.003	.009	.010	.18	.002	.002	.011	.005
%RSD	.2644	.3463	.1364	.4573	.4552	.4338	.0921	.1056	.5412	.2677
#1	.2600	41.09	2.088	2.069	2.092	41.55	2.114	2.115	2.092	2.062
#2	.2587	41.35	2.092	2.082	2.109	41.88	2.117	2.118	2.074	2.052
#3	.2598	41.12	2.086	2.064	2.094	41.60	2.114	2.114	2.095	2.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.67	41.55	40.89	2.069	2.112	41.55	2.117	2.056	2.084	2.094
Stddev	.17	.15	.18	.015	.004	.16	.003	.003	.003	.008
%RSD	.4093	.3673	.4468	.7254	.1839	.3908	.1372	.1586	.1480	.3860
#1	40.55	41.42	40.79	2.079	2.110	41.41	2.118	2.057	2.087	2.100
#2	40.86	41.72	41.10	2.052	2.117	41.73	2.120	2.059	2.082	2.085
#3	40.60	41.51	40.78	2.078	2.110	41.52	2.114	2.053	2.082	2.098
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.121	2.135	2.105	2.077	2.083	2.152	2.108
Stddev	.001	.004	.009	.010	.002	.004	.004
%RSD	.0251	.1778	.4224	.4998	.0963	.1900	.2110
#1	2.121	2.134	2.102	2.082	2.081	2.156	2.110
#2	2.120	2.139	2.115	2.065	2.085	2.148	2.111
#3	2.121	2.132	2.098	2.084	2.084	2.154	2.103
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 12:35:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1153.8	2444.4	19663.	8329.5
Stddev	.8	1.9	70.	37.8
%RSD	.07086	.07911	.35738	.45378
#1	1153.5	2442.1	19633.	8361.4
#2	1153.2	2445.3	19744.	8287.7
#3	1154.7	2445.6	19613.	8339.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 12:39:36 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0055	-.0004	-.0001	.0000	-.0024	-.0001	-.0002	.0000	-.0001
Stddev	.0005	.0028	.0009	.0001	.0001	.0037	.0000	.0001	.000	.0001
%RSD	255.3	50.30	219.8	126.8	350.1	149.7	28.06	31.24	164.2	103.8
#1	.0003	-.0033	-.0009	.0000	.0000	.0008	-.0001	-.0001	-.0001	-.0001
#2	.0006	-.0046	.0007	-.0001	.0000	-.0064	-.0002	-.0001	.0000	.0000
#3	-.0003	-.0087	-.0010	-.0001	.0000	-.0018	-.0001	-.0002	-.0001	-.0003
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	.0214	-.0019	-.0001	.0008	.0268	.0002	.0007	.0005	.0013
Stddev	.0037	.0088	.0038	.0000	.0002	.0076	.0002	.0008	.0011	.0012
%RSD	37.27	40.97	193.4	26.30	24.76	28.29	100.1	110.4	216.7	90.70
#1	.0142	.0313	-.0034	-.0001	.0011	.0304	.0000	.0015	.0013	.0027
#2	.0089	.0149	-.0048	-.0001	.0007	.0181	.0004	.0004	-.0008	.0008
#3	.0070	.0179	.0023	-.0001	.0007	.0319	.0004	.0001	.0010	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0003	-.0001	.0009	.0017	.0002	.0001
Stddev	.0010	.0004	.0000	.0001	.0007	.0003	.0000
%RSD	43.96	135.6	7.975	14.43	38.97	142.1	20.33
#1	.0030	.0002	-.0001	.0010	.0021	.0003	.0001
#2	.0011	-.0001	-.0001	.0010	.0020	-.0001	.0001
#3	.0027	.0006	-.0001	.0008	.0009	.0005	.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 12:39:36 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1412.7	2590.6	20719.	8479.2
Stddev	1.0	4.6	24.	21.3
%RSD	.07166	.17662	.11539	.25145
#1	1413.8	2589.8	20744.	8464.6
#2	1411.9	2586.5	20716.	8469.3
#3	1412.2	2595.6	20697.	8503.7

Zoom In Zoom Out

Sample Name: F95253-1 Acquired: 7/27/2012 12:44:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	2.361	.0001	.0394	-.0001	8.508	.0012	.0003	.0047	.0022
Stddev	.0002	.007	.0013	.0003	.0000	.018	.0000	.0001	.0003	.0001
%RSD	124.5	.3105	1329.	.6521	16.19	.2093	.9783	33.16	5.508	4.300
#1	.0000	2.355	-.0013	.0395	-.0001	8.498	.0012	.0004	.0050	.0021
#2	-.0003	2.369	.0014	.0395	-.0001	8.497	.0012	.0004	.0046	.0022
#3	-.0002	2.359	.0001	.0391	-.0001	8.529	.0012	.0002	.0045	.0023

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1484	4.399	1.008	.1105	.0007	6.845	.0025	.0054	.0002	.0021
Stddev	.0013	.020	.024	.0006	.0002	.012	.0001	.0005	.0007	.0023
%RSD	.8704	.4482	2.404	.5423	31.14	.1816	3.287	9.471	447.6	106.2
#1	.1469	4.420	1.031	.1106	.0009	6.852	.0026	.0054	.0010	-.0003
#2	.1494	4.395	.9828	.1111	.0005	6.853	.0025	.0049	-.0002	.0043
#3	.1489	4.382	1.010	.1099	.0008	6.831	.0025	.0059	-.0003	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.437	-.0015	.0248	.0297	-.0001	.0030	.0620
Stddev	.004	.0006	.0001	.0002	.0005	.0003	.0003
%RSD	.1585	40.06	.2237	.7753	501.3	8.708	.4648
#1	2.441	-.0018	.0248	.0300	-.0005	.0031	.0623
#2	2.438	-.0008	.0249	.0295	-.0003	.0032	.0619
#3	2.433	-.0019	.0249	.0297	.0005	.0027	.0618

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1318.8	2493.8	20025.	8387.5
Stddev	3.1	5.5	65.	3.7
%RSD	.23365	.21962	.32441	.04436
#1	1317.3	2489.9	19968.	8391.6
#2	1316.7	2491.4	20010.	8386.5
#3	1322.3	2500.0	20096.	8384.4

Zoom In Zoom Out

Sample Name: F95271-1 Acquired: 7/27/2012 12:48:28 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.0084	-.0004	.0601	-.0002	94.21	-.0004	.0000	-.0001	.0056
Stddev	.0003	.0063	.0006	.0005	.0000	.29	.0001	.000	.0001	.0002
%RSD	77.53	75.13	132.9	.8629	5.988	.3100	36.74	634.5	94.01	3.928
#1	-.0007	.0012	-.0005	.0599	-.0002	94.22	-.0003	.0000	-.0002	.0055
#2	-.0001	.0128	.0002	.0597	-.0002	94.50	-.0003	.0000	.0000	.0059
#3	-.0005	.0114	-.0010	.0607	-.0002	93.91	-.0005	-.0001	-.0002	.0055

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9891	.7407	25.60	.3435	.0006	64.99	.0006	.0027	-.0002	.0001
Stddev	.0016	.0122	.04	.0010	.0001	.08	.0001	.0006	.0011	.0041
%RSD	.1625	1.643	.1501	.2806	9.808	.1221	24.72	20.35	680.7	4197.
#1	.9875	.7401	25.61	.3441	.0005	65.04	.0005	.0023	-.0011	.0048
#2	.9907	.7289	25.63	.3440	.0006	64.90	.0005	.0025	-.0005	-.0014
#3	.9892	.7532	25.56	.3424	.0006	65.04	.0008	.0033	.0011	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.436	-.0005	.9521	.0006	-.0012	.0002	.0088
Stddev	.028	.0006	.0011	.0002	.0025	.0005	.0001
%RSD	.3001	131.6	.1149	26.05	213.1	183.9	1.588
#1	9.413	-.0005	.9522	.0004	.0005	.0000	.0088
#2	9.429	.0002	.9510	.0007	.0000	.0000	.0087
#3	9.468	-.0011	.9531	.0007	-.0040	.0008	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1196.5	2382.8	19167.	8244.5
Stddev	3.5	5.2	60.	16.3
%RSD	.29385	.21960	.31061	.19741
#1	1192.5	2378.5	19105.	8226.9
#2	1198.8	2388.7	19170.	8247.6
#3	1198.3	2381.3	19224.	8259.0

Zoom In Zoom Out

Sample Name: F95238-1F Acquired: 7/27/2012 12:52:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0584	.0063	.1161	-.0002	F1016.	-.0024	.0041	-.0001
Stddev	.0003	.0103	.0020	.0003	.0000	10.	.0001	.0001	.0003
%RSD	28.11	17.56	31.34	.2807	15.56	.9601	2.375	3.383	323.9
#1	.0007	.0662	.0071	.1158	-.0002	1013.	-.0023	.0043	.0002
#2	.0013	.0468	.0040	.1165	-.0002	1008.	-.0024	.0040	-.0002
#3	.0011	.0623	.0077	.1161	-.0001	1027.	-.0024	.0041	-.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0016	2.649	32.83	414.5	F8.832	.0021	F1301.	.0044	-.0014
Stddev	.0004	.004	.03	2.7	.031	.0000	25.	.0003	.0010
%RSD	22.37	.1450	.0929	.6435	.3505	1.888	1.949	6.763	68.24
#1	-.0012	2.644	32.82	412.4	8.813	.0020	1328.	.0041	-.0020
#2	-.0019	2.651	32.80	413.6	8.816	.0020	1296.	.0043	-.0003
#3	-.0017	2.651	32.86	417.5	8.868	.0021	1278.	.0047	-.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0018	-.0025	13.92	-.0025	F7.798	-.0136	.0013	.0000	.0070
Stddev	.0011	.0013	.01	.0007	.032	.0001	.0010	.0005	.0002
%RSD	62.66	51.25	.0719	29.41	.4098	.8599	74.55	1215.	3.430
#1	.0029	-.0033	13.92	-.0034	7.777	-.0137	.0024	.0001	.0070
#2	.0006	-.0010	13.91	-.0022	7.835	-.0137	.0007	-.0005	.0072
#3	.0019	-.0032	13.93	-.0020	7.784	-.0135	.0008	.0005	.0067

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	852.93	1938.4	15593.	7549.5
Stddev	1.13	1.5	21.	46.6
%RSD	.13293	.07773	.13183	.61663
#1	852.52	1937.8	15581.	7589.0
#2	854.22	1940.1	15617.	7561.3
#3	852.06	1937.3	15582.	7498.2

Zoom In Zoom Out

Sample Name: F95238-2F Acquired: 7/27/2012 12:57:49 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0418	-.0012	.2245	-.0002	F607.5	-.0016	.0044	-.0001
Stddev	.0003	.0177	.0028	.0200	.0000	39.9	.0001	.0002	.0005
%RSD	41.48	42.43	235.4	8.887	7.303	6.565	5.995	4.327	796.9
#1	.0003	.0592	-.0029	.2355	-.0002	624.9	-.0016	.0042	-.0005
#2	.0007	.0425	-.0027	.2015	-.0002	561.8	-.0015	.0044	-.0001
#3	.0009	.0237	.0020	.2366	-.0002	635.6	-.0017	.0045	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0019	1.001	23.96	360.6	F5.659	.0035	F764.2	.0022	.0003
Stddev	.0001	.084	2.11	29.4	.018	.0002	56.7	.0002	.0003
%RSD	6.350	8.379	8.814	8.162	.3250	4.545	7.419	8.555	86.79
#1	-.0018	1.046	25.13	377.7	5.657	.0034	809.0	.0022	.0004
#2	-.0020	.9042	21.52	326.6	5.642	.0037	700.5	.0024	.0005
#3	-.0020	1.053	25.23	377.5	5.679	.0035	783.0	.0021	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0016	12.84	-.0019	F5.916	-.0067	.0007	.0003	.0015
Stddev	.0004	.0022	.02	.0011	.416	.0001	.0023	.0003	.0001
%RSD	104.8	141.4	.1941	57.66	7.028	1.708	337.9	96.59	4.673
#1	-.0008	-.0004	12.81	-.0030	6.166	-.0066	-.0017	.0005	.0015
#2	-.0002	-.0041	12.86	-.0021	5.436	-.0067	.0030	.0000	.0016
#3	-.0001	-.0002	12.83	-.0007	6.145	-.0069	.0008	.0004	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	909.75	2024.6	16260.	7964.0
Stddev	1.90	4.9	34.	532.2
%RSD	.20849	.24130	.20978	6.6827
#1	907.72	2028.9	16280.	7631.2
#2	911.47	2019.3	16280.	8577.8
#3	910.06	2025.7	16221.	7682.9

Zoom In Zoom Out

Sample Name: F95268-1 Acquired: 7/27/2012 13:02:38 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	1.832	.0162	.0338	-.0001	F768.6	-.0019	.0036	.1000
Stddev	.0002	.019	.0019	.0001	.0000	.6	.0002	.0001	.0008
%RSD	2174.	1.030	11.56	.3565	2.252	.0776	9.127	3.991	.7874
#1	-.0001	1.824	.0145	.0337	-.0001	768.1	-.0019	.0034	.0992
#2	.0003	1.853	.0158	.0339	-.0001	769.3	-.0020	.0036	.1008
#3	-.0002	1.818	.0182	.0337	-.0001	768.5	-.0017	.0037	.1001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	1.956	11.43	F1195.	.7125	.0746	*****	.0653	.0033
Stddev	.0003	.010	.08	3.	.0041	.0004	-----	.0004	.0007
%RSD	16.43	.5134	.7371	.2805	.5700	.5356	-----	.6552	21.89
#1	.0021	1.967	11.46	1193.	.7079	.0741	-----	.0657	.0026
#2	.0020	1.951	11.49	1199.	.7158	.0748	2013.	.0653	.0033
#3	.0015	1.949	11.33	1194.	.7138	.0749	1920.	.0649	.0041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0027	41.51	-.0015	F17.14	.0294	.0047	.0732	.0044
Stddev	.0006	.0024	.07	.0005	.05	.0009	.0020	.0008	.0001
%RSD	439.5	87.74	.1624	34.33	.3186	3.124	41.58	1.055	3.175
#1	.0004	.0048	41.44	-.0011	17.09	.0284	.0026	.0724	.0046
#2	-.0001	.0001	41.51	-.0021	17.13	.0296	.0064	.0733	.0043
#3	-.0008	.0033	41.57	-.0013	17.20	.0302	.0053	.0740	.0045

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	742.26	1759.8	14036.	7088.9
Stddev	2.35	.4	54.	10.7
%RSD	.31646	.02318	.38653	.15105
#1	744.76	1760.2	14087.	7089.8
#2	741.94	1759.9	13979.	7077.8
#3	740.09	1759.4	14042.	7099.2

Zoom In Zoom Out

Sample Name: F95268-3 Acquired: 7/27/2012 13:07:23 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	2.140	.0156	.0390	.0000	F757.7	-.0017	.0041	.1016
Stddev	.0002	.022	.0026	.0003	.000	3.6	.0001	.0002	.0005
%RSD	30.04	1.022	16.80	.6983	32.28	.4816	5.201	4.328	.5013
#1	.0006	2.132	.0180	.0393	-.0001	761.9	-.0017	.0039	.1018
#2	.0003	2.164	.0159	.0391	-.0001	756.3	-.0018	.0042	.1020
#3	.0006	2.122	.0128	.0387	.0000	755.1	-.0016	.0043	.1010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0023	2.240	10.56	F1159.	.7909	.0745	F1865.	.0684	.0034
Stddev	.0004	.014	.02	5.	.0032	.0002	91.	.0002	.0017
%RSD	16.89	.6276	.1780	.4451	.4059	.3044	4.902	.2658	49.45
#1	.0022	2.250	10.54	1164.	.7944	.0742	1954.	.0682	.0049
#2	.0020	2.246	10.56	1159.	.7901	.0745	1870.	.0686	.0016
#3	.0027	2.224	10.57	1154.	.7882	.0746	1771.	.0685	.0038

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0005	.0007	42.78	-.0034	F16.86	.0406	.0024	.0742	.0051
Stddev	.0021	.0067	.08	.0006	.06	.0003	.0010	.0004	.0001
%RSD	412.5	933.8	.1977	17.32	.3568	.8073	43.81	.4954	2.412
#1	.0007	-.0060	42.70	-.0027	16.89	.0402	.0017	.0742	.0052
#2	-.0017	.0074	42.77	-.0038	16.89	.0409	.0019	.0745	.0049
#3	.0025	.0008	42.86	-.0036	16.79	.0407	.0036	.0738	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	739.47	1749.2	14096.	7221.3
Stddev	.91	2.6	46.	44.2
%RSD	.12323	.14607	.32797	.61252
#1	738.59	1750.9	14049.	7174.1
#2	739.41	1750.5	14096.	7228.1
#3	740.41	1746.3	14142.	7261.8

Zoom In Zoom Out

Sample Name: F95268-5 Acquired: 7/27/2012 13:12:09 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.7452	.0090	.0220	-.0001	F670.0	-.0016	.0044	.0044
Stddev	.0004	.0126	.0021	.0003	.0000	6.4	.0001	.0004	.0004
%RSD	116.6	1.695	23.55	1.211	14.79	.9498	4.077	9.250	8.249
#1	.0006	.7359	.0069	.0217	-.0002	663.2	-.0016	.0048	.0046
#2	.0004	.7402	.0111	.0220	-.0001	675.8	-.0017	.0042	.0040
#3	-.0001	.7596	.0089	.0223	-.0001	671.0	-.0016	.0041	.0045

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.6565	27.61	F971.2	2.417	.0664	F1702.	.0171	.0006
Stddev	.0004	.0061	.10	6.8	.003	.0003	35.	.0004	.0007
%RSD	48.35	.9277	.3649	.7010	.1071	.3968	2.027	2.211	114.6
#1	-.0003	.6510	27.49	963.3	2.417	.0663	1739.	.0167	.0005
#2	-.0010	.6631	27.68	975.1	2.419	.0667	1696.	.0174	.0014
#3	-.0009	.6555	27.65	975.0	2.414	.0662	1671.	.0172	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	-.0009	43.61	-.0032	F13.70	.0074	-.0007	.0378	.0048
Stddev	.0019	.0025	.02	.0005	.05	.0001	.0008	.0004	.0000
%RSD	844.4	282.8	.0536	15.49	.3435	1.112	117.2	.9427	.9710
#1	-.0007	-.0021	43.61	-.0027	13.65	.0073	-.0006	.0378	.0049
#2	.0018	-.0025	43.58	-.0037	13.69	.0074	.0001	.0381	.0048
#3	-.0018	.0020	43.62	-.0032	13.74	.0075	-.0016	.0374	.0048

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	773.82	1787.5	14516.	7423.8
Stddev	3.82	2.0	45.	46.5
%RSD	.49369	.11007	.30752	.62645
#1	769.94	1786.1	14473.	7475.0
#2	773.93	1786.6	14513.	7384.1
#3	777.58	1789.7	14562.	7412.4

Zoom In Zoom Out

Sample Name: F95268-7 Acquired: 7/27/2012 13:16:59 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0855	.0047	.0214	-.0002	F567.6	-.0014	.0054	.0011
Stddev	.0011	.0024	.0008	.0001	.0000	6.0	.0001	.0002	.0002
%RSD	817.9	2.834	17.39	.5071	17.54	1.052	8.801	4.387	15.65
#1	-.0001	.0876	.0046	.0213	-.0002	560.8	-.0014	.0053	.0011
#2	-.0008	.0861	.0039	.0215	-.0002	570.2	-.0012	.0052	.0009
#3	.0013	.0828	.0055	.0215	-.0002	571.9	-.0015	.0057	.0013

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0006	.0534	10.26	F840.5	1.462	.0822	F1621.	.0165	.0063
Stddev	.0002	.0010	.04	3.0	.001	.0004	59.	.0006	.0010
%RSD	41.02	1.789	.3798	.3604	.0945	.5114	3.633	3.385	16.01
#1	-.0005	.0539	10.22	837.0	1.463	.0818	1687.	.0167	.0055
#2	-.0008	.0523	10.29	842.4	1.463	.0821	1599.	.0159	.0059
#3	-.0004	.0539	10.28	842.0	1.461	.0826	1576.	.0169	.0074

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	.0021	43.73	-.0035	F12.66	-.0058	-.0011	.0086	.0033
Stddev	.0009	.0035	.04	.0001	.03	.0003	.0023	.0003	.0002
%RSD	59.20	166.0	.1008	2.004	.2355	5.566	211.4	3.817	7.041
#1	.0009	.0062	43.76	-.0035	12.63	-.0057	.0015	.0088	.0030
#2	.0026	.0000	43.68	-.0036	12.67	-.0055	-.0028	.0082	.0033
#3	.0012	.0002	43.76	-.0035	12.69	-.0061	-.0019	.0087	.0035

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	791.99	1816.0	14821.	7468.3
Stddev	.68	2.9	36.	22.0
%RSD	.08619	.15891	.24270	.29398
#1	792.58	1813.2	14822.	7492.4
#2	792.14	1819.0	14784.	7449.4
#3	791.24	1815.8	14856.	7463.0

Zoom In Zoom Out

Sample Name: F95268-9 Acquired: 7/27/2012 13:21:49 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.1096	.0082	.0158	-.0002	F532.3	-.0013	.0022	.0007
Stddev	.0006	.0040	.0008	.0001	.0000	.6	.0000	.0002	.0003
%RSD	123.3	3.620	9.255	.8636	15.14	.1035	3.387	8.877	43.46
#1	-.0008	.1142	.0077	.0159	-.0002	532.1	-.0013	.0024	.0011
#2	-.0009	.1068	.0079	.0156	-.0001	531.8	-.0013	.0020	.0006
#3	.0002	.1080	.0091	.0158	-.0002	532.9	-.0013	.0022	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.0749	4.154	F572.1	.8344	.0342	F1270.	.0030	.0197
Stddev	.0000	.0021	.034	1.5	.0034	.0003	21.	.0002	.0013
%RSD	5.599	2.859	.8251	.2655	.4078	.8062	1.638	6.732	6.343
#1	-.0007	.0758	4.176	572.7	.8306	.0345	1280.	.0029	.0209
#2	-.0008	.0724	4.114	573.2	.8358	.0342	1284.	.0033	.0184
#3	-.0007	.0764	4.170	570.4	.8370	.0340	1246.	.0030	.0198

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	.0014	45.22	-.0027	F10.60	-.0030	.0007	.0127	.0021
Stddev	.0006	.0033	.02	.0002	.01	.0004	.0034	.0006	.0000
%RSD	89.87	241.8	.0485	7.645	.1033	11.90	517.0	5.074	1.584
#1	.0005	-.0021	45.19	-.0024	10.59	-.0034	-.0019	.0134	.0021
#2	.0001	.0018	45.24	-.0028	10.61	-.0027	-.0006	.0122	.0021
#3	.0013	.0044	45.21	-.0027	10.59	-.0031	.0045	.0125	.0021

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	843.14	1894.6	15642.	7626.8
Stddev	1.23	3.3	13.	16.8
%RSD	.14605	.17376	.08119	.22006
#1	843.66	1898.2	15629.	7607.8
#2	841.73	1891.7	15655.	7632.8
#3	844.02	1893.9	15641.	7639.7

Zoom In Zoom Out

Sample Name: F95268-11 Acquired: 7/27/2012 13:26:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0881	.0026	.0204	-.0001	F517.7	-.0011	.0016	.0002
Stddev	.0006	.0136	.0002	.0001	.0000	3.7	.0001	.0002	.0002
%RSD	703.1	15.43	9.088	.4930	20.85	.7184	9.859	11.19	80.16
#1	.0003	.1002	.0024	.0204	-.0002	514.2	-.0010	.0014	.0002
#2	-.0008	.0906	.0029	.0203	-.0001	517.4	-.0010	.0016	.0004
#3	.0003	.0734	.0026	.0205	-.0001	521.6	-.0012	.0018	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0017	2.535	2.143	287.7	1.823	.0158	F587.9	.0020	.0017
Stddev	.0003	.013	.007	1.7	.001	.0004	6.8	.0004	.0003
%RSD	16.16	.5250	.3160	.5944	.0327	2.766	1.149	18.76	16.01
#1	-.0020	2.521	2.149	285.9	1.823	.0163	584.3	.0016	.0016
#2	-.0014	2.538	2.136	287.8	1.824	.0156	583.6	.0022	.0020
#3	-.0017	2.547	2.144	289.4	1.823	.0156	595.6	.0023	.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0005	53.42	-.0025	F10.21	-.0033	.0011	.0019	.0006
Stddev	.0007	.0008	.07	.0002	.08	.0002	.0029	.0001	.0002
%RSD	58.90	157.8	.1325	9.037	.8128	6.744	250.0	7.622	31.55
#1	-.0007	.0003	53.44	-.0027	10.12	-.0031	.0044	.0019	.0004
#2	-.0008	.0015	53.47	-.0025	10.23	-.0032	-.0009	.0018	.0008
#3	-.0020	-.0002	53.34	-.0022	10.28	-.0035	.0000	.0021	.0006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	935.80	2039.9	16833.	7902.3
Stddev	1.48	6.2	45.	28.5
%RSD	.15793	.30370	.26637	.36017
#1	934.97	2035.6	16846.	7930.9
#2	934.93	2037.2	16783.	7902.2
#3	937.51	2047.0	16870.	7874.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 13:31:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2557	41.32	2.103	2.084	2.055	40.15	2.111	2.128	2.048	2.062
Stddev	.0022	.06	.005	.007	.005	.14	.003	.004	.003	.005
%RSD	.8628	.1451	.2448	.3177	.2410	.3438	.1260	.1704	.1571	.2214
#1	.2582	41.25	2.109	2.079	2.049	39.99	2.111	2.132	2.044	2.067
#2	.2540	41.34	2.099	2.081	2.057	40.21	2.109	2.125	2.049	2.059
#3	.2549	41.37	2.101	2.091	2.058	40.25	2.114	2.126	2.050	2.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.22	42.04	38.99	2.030	2.134	40.51	2.121	2.024	2.119	2.127
Stddev	.10	.09	.14	.005	.003	.11	.005	.007	.007	.011
%RSD	.2559	.2123	.3632	.2607	.1282	.2654	.2590	.3447	.3359	.5066
#1	39.10	42.03	38.83	2.024	2.136	40.40	2.123	2.018	2.126	2.138
#2	39.25	41.96	39.04	2.031	2.131	40.51	2.115	2.022	2.113	2.117
#3	39.29	42.14	39.11	2.034	2.136	40.61	2.125	2.031	2.117	2.126
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.167	2.127	2.114	2.058	2.068	2.126	2.067
Stddev	.014	.005	.004	.003	.005	.003	.004
%RSD	.6381	.2251	.1949	.1652	.2478	.1270	.1825
#1	2.183	2.131	2.110	2.055	2.064	2.126	2.065
#2	2.161	2.122	2.113	2.058	2.067	2.124	2.065
#3	2.157	2.129	2.118	2.062	2.074	2.129	2.071
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 13:31:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1146.5	2388.9	19718.	8578.2
Stddev	1.7	8.2	24.	28.8
%RSD	.14582	.34461	.12107	.33560
#1	1146.3	2379.5	19690.	8611.4
#2	1148.3	2392.4	19734.	8561.3
#3	1145.0	2394.8	19729.	8561.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 13:35:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0108	-.0012	.0000	.0001	.0056	-.0001	-.0001	.0000
Stddev	.0002	.0055	.0003	.0001	.0000	.0011	.0001	.0001	.0004
%RSD	276.7	50.47	21.62	3439.	48.05	19.75	114.3	170.0	1906.
#1	.0003	-.0046	-.0013	.0001	.0000	.0062	.0000	.0000	-.0003
#2	-.0001	-.0131	-.0009	-.0001	.0001	.0062	-.0001	-.0001	-.0001
#3	.0000	-.0148	-.0014	.0000	.0001	.0043	.0000	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0142	.0186	.0105	.0000	.0007	.1858	.0001	.0000
Stddev	.0002	.0033	.0188	.0152	.0000	.0003	.0025	.0001	.0007
%RSD	177.3	23.14	100.7	144.5	119.2	50.26	1.323	64.17	5729.
#1	-.0003	.0179	.0302	.0280	.0000	.0011	.1856	.0000	-.0007
#2	.0001	.0122	.0286	.0006	.0001	.0004	.1835	.0001	.0001
#3	-.0001	.0124	-.0030	.0030	.0000	.0005	.1884	.0001	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0014	.0022	.0003	.0001	.0011	F.0022	.0000	.0002
Stddev	.0006	.0018	.0002	.0005	.0000	.0001	.0015	.000	.0000
%RSD	293.2	131.4	8.899	202.1	40.60	12.88	71.32	5817.	23.24
#1	-.0004	.0035	.0024	.0009	.0001	.0012	.0029	-.0001	.0002
#2	-.0006	.0004	.0020	.0000	.0001	.0011	.0032	.0000	.0001
#3	.0005	.0003	.0022	-.0001	.0001	.0009	.0004	.0001	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0020		
Low Limit							-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 13:35:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1394.7	2527.8	20682.	8738.3
Stddev	1.2	10.3	51.	44.7
%RSD	.08797	.40604	.24470	.51174
#1	1396.0	2533.2	20677.	8687.9
#2	1394.5	2516.0	20633.	8753.8
#3	1393.5	2534.3	20734.	8773.2

Zoom In Zoom Out

Sample Name: F95268-13 Acquired: 7/27/2012 13:40:03 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0435	.0031	.0160	-.0001	489.9	-.0012	.0003	.0003
Stddev	.0001	.0096	.0010	.0000	.0001	1.7	.0001	.0001	.0003
%RSD	27.35	22.01	34.18	.2487	44.25	.3529	4.280	33.81	95.32
#1	-.0002	.0325	.0025	.0161	-.0001	490.6	-.0012	.0002	.0005
#2	-.0004	.0481	.0024	.0161	-.0001	488.0	-.0011	.0004	.0003
#3	-.0002	.0500	.0043	.0160	-.0002	491.2	-.0012	.0004	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0020	.7282	4.363	273.6	.6848	.0171	F627.4	.0004	.0059
Stddev	.0004	.0008	.021	.9	.0047	.0003	11.9	.0004	.0001
%RSD	20.06	.1119	.4871	.3162	.6841	1.602	1.893	97.17	1.299
#1	-.0024	.7291	4.345	272.6	.6893	.0173	641.0	.0004	.0060
#2	-.0016	.7277	4.386	274.0	.6799	.0172	619.2	.0000	.0059
#3	-.0020	.7277	4.358	274.2	.6851	.0168	621.9	.0008	.0058

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0011	.0004	47.13	-.0023	F8.825	-.0040	-.0010	.0084	.0011
Stddev	.0022	.0059	.15	.0005	.059	.0002	.0007	.0003	.0001
%RSD	199.1	1568.	.3176	20.43	.6719	3.911	70.85	3.890	9.406
#1	.0018	.0072	46.96	-.0022	8.809	-.0038	-.0017	.0086	.0011
#2	.0029	-.0037	47.19	-.0019	8.891	-.0041	-.0005	.0080	.0012
#3	-.0014	-.0024	47.25	-.0029	8.776	-.0041	-.0007	.0086	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	939.74	2036.3	16801.	7849.6
Stddev	.66	4.3	62.	4.6
%RSD	.06996	.21124	.37005	.05884
#1	938.99	2040.1	16733.	7854.1
#2	940.20	2037.1	16854.	7849.9
#3	940.03	2031.6	16817.	7844.9

Zoom In Zoom Out

Sample Name: F95268-1F Acquired: 7/27/2012 13:44:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0485	.0112	.0817	-.0002	F674.6	-.0017	.0012	.0001
Stddev	.0005	.0040	.0007	.0003	.0000	5.3	.0001	.0003	.0005
%RSD	655.1	8.322	6.224	.4017	4.740	.7823	7.883	21.77	383.9
#1	-.0005	.0481	.0120	.0821	-.0002	676.7	-.0015	.0011	.0006
#2	.0005	.0527	.0110	.0815	-.0002	668.6	-.0017	.0016	.0002
#3	-.0002	.0447	.0107	.0815	-.0002	678.5	-.0018	.0011	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.0084	8.959	F1064.	.2978	.0766	F1994.	.0168	.0048
Stddev	.0002	.0004	.052	1.	.0008	.0003	124.	.0004	.0011
%RSD	162.6	5.115	.5821	.1188	.2807	.3818	6.228	2.204	22.62
#1	-.0001	.0087	8.901	1065.	.2975	.0764	2122.	.0169	.0043
#2	.0004	.0085	8.972	1063.	.2972	.0769	1984.	.0172	.0061
#3	.0001	.0079	9.003	1063.	.2988	.0763	1875.	.0164	.0041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0053	33.77	-.0034	F16.11	-.0104	-.0002	.0573	.0000
Stddev	.0013	.0012	.17	.0011	.06	.0001	.0013	.0005	.0002
%RSD	456.3	22.33	.5070	31.63	.3987	.8442	547.9	.9304	8586.
#1	-.0017	-.0067	33.58	-.0036	16.13	-.0103	.0011	.0567	-.0001
#2	.0008	-.0046	33.81	-.0044	16.04	-.0105	-.0015	.0574	-.0002
#3	.0000	-.0047	33.91	-.0023	16.16	-.0104	-.0002	.0577	.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	740.61	1698.6	14021.	7407.3
Stddev	2.17	6.3	27.	30.0
%RSD	.29284	.36903	.19042	.40521
#1	738.72	1705.7	14046.	7374.0
#2	742.97	1696.6	14024.	7432.4
#3	740.13	1693.7	13992.	7415.4

Zoom In Zoom Out

Sample Name: F95268-3F Acquired: 7/27/2012 13:49:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0455	.0132	.0322	-.0002	F719.2	-.0019	.0011	.0000
Stddev	.0005	.0046	.0010	.0003	.0000	3.9	.0000	.0001	.001
%RSD	236.3	10.10	7.369	.7893	6.890	.5486	1.896	7.183	7178.
#1	-.0001	.0404	.0121	.0319	-.0002	714.8	-.0019	.0010	.0003
#2	-.0007	.0493	.0140	.0323	-.0002	722.5	-.0019	.0011	.0002
#3	.0002	.0466	.0136	.0324	-.0002	720.4	-.0018	.0011	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	.0155	9.544	F1134.	.2917	.0805	F1819.	.0163	.0037
Stddev	.0001	.0006	.009	4.	.0016	.0004	47.	.0003	.0010
%RSD	84.19	4.182	.0941	.3212	.5484	.4489	2.581	2.046	26.80
#1	.0002	.0161	9.534	1130.	.2927	.0802	1863.	.0161	.0048
#2	.0000	.0148	9.551	1135.	.2925	.0809	1825.	.0167	.0030
#3	.0001	.0157	9.546	1137.	.2898	.0804	1769.	.0161	.0032

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0010	.0053	36.26	-.0029	F17.34	-.0119	.0007	.0634	-.0007
Stddev	.0013	.0023	.19	.0004	.05	.0001	.0005	.0012	.0002
%RSD	126.8	43.44	.5228	15.01	.3105	.8385	65.76	1.917	25.95
#1	.0025	.0035	36.33	-.0024	17.29	-.0118	.0002	.0622	-.0007
#2	.0006	.0079	36.40	-.0033	17.34	-.0120	.0008	.0646	-.0008
#3	.0000	.0046	36.04	-.0029	17.40	-.0119	.0012	.0635	-.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	729.41	1683.4	13878.	7405.7
Stddev	3.59	10.8	33.	18.1
%RSD	.49278	.63918	.23993	.24373
#1	726.02	1677.4	13868.	7426.4
#2	729.04	1676.9	13851.	7398.0
#3	733.18	1695.8	13916.	7392.8

Zoom In Zoom Out

Sample Name: F95268-5F Acquired: 7/27/2012 13:54:28 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0490	.0070	.0189	-.0002	F622.1	-.0016	.0049	-.0003
Stddev	.0005	.0073	.0011	.0002	.0001	1.6	.0002	.0003	.0003
%RSD	158.6	14.95	16.03	.7946	26.10	.2553	9.805	6.063	106.9
#1	.0007	.0567	.0058	.0190	-.0002	623.2	-.0017	.0047	-.0004
#2	.0003	.0482	.0075	.0190	-.0001	620.3	-.0015	.0048	.0001
#3	-.0002	.0421	.0079	.0187	-.0002	622.7	-.0015	.0052	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0010	-.0003	26.65	F923.4	2.585	.0714	F1642.	.0176	.0053
Stddev	.0004	.0012	.12	1.4	.021	.0002	36.	.0001	.0012
%RSD	41.92	399.7	.4484	.1544	.8059	.3117	2.205	.4641	22.33
#1	-.0012	-.0007	26.72	924.8	2.588	.0712	1673.	.0175	.0065
#2	-.0005	-.0013	26.72	922.0	2.562	.0713	1652.	.0176	.0042
#3	-.0012	.0011	26.51	923.5	2.604	.0717	1602.	.0176	.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	.0011	40.86	-.0033	F13.56	-.0090	.0031	.0348	.0002
Stddev	.0017	.0019	.11	.0003	.10	.0000	.0010	.0008	.0003
%RSD	297.8	167.4	.2774	10.34	.7512	.0992	31.34	2.407	132.6
#1	.0020	.0004	40.78	-.0035	13.66	-.0090	.0020	.0345	-.0001
#2	-.0013	.0032	40.81	-.0029	13.46	-.0090	.0034	.0342	.0004
#3	.0009	-.0003	40.99	-.0036	13.56	-.0090	.0039	.0358	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	766.77	1745.9	14402.	7529.5
Stddev	2.34	5.5	61.	41.3
%RSD	.30459	.31663	.42304	.54914
#1	764.08	1747.9	14344.	7482.2
#2	768.29	1750.1	14466.	7547.8
#3	767.93	1739.6	14397.	7558.6

Zoom In Zoom Out

Sample Name: F95268-7F Acquired: 7/27/2012 13:59:18 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0312	.0061	.0243	-.0002	F530.1	-.0013	.0055	-.0005
Stddev	.0005	.0029	.0017	.0002	.0000	.8	.0000	.0001	.0002
%RSD	245.8	9.186	28.02	.8299	25.50	.1427	3.748	2.056	37.79
#1	-.0004	.0280	.0047	.0241	-.0001	529.2	-.0014	.0054	-.0003
#2	.0004	.0321	.0080	.0245	-.0002	530.6	-.0013	.0056	-.0007
#3	-.0006	.0335	.0055	.0244	-.0002	530.4	-.0013	.0055	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0004	.0004	10.38	F773.9	1.419	.0944	F1555.	.0164	.0091
Stddev	.0003	.0005	.01	5.7	.003	.0004	40.	.0003	.0029
%RSD	88.33	118.8	.0981	.7342	.2393	.3965	2.595	1.837	31.87
#1	.0002	.0003	10.38	772.1	1.417	.0942	1601.	.0166	.0065
#2	.0008	.0000	10.38	769.4	1.423	.0949	1539.	.0161	.0122
#3	.0002	.0009	10.39	780.3	1.417	.0942	1525.	.0164	.0085

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0010	40.36	-.0032	F12.11	-.0068	.0000	.0090	.0039
Stddev	.0006	.0020	.11	.0009	.07	.0000	.0039	.0003	.0001
%RSD	191.9	203.7	.2793	26.59	.6085	.5344	15750.	3.091	3.456
#1	.0003	-.0001	40.37	-.0039	12.06	-.0068	.0040	.0093	.0041
#2	-.0004	-.0033	40.47	-.0023	12.07	-.0067	-.0037	.0090	.0038
#3	-.0008	.0004	40.24	-.0036	12.19	-.0068	-.0003	.0088	.0039

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	787.29	1788.1	14801.	7602.7
Stddev	2.15	6.7	30.	31.4
%RSD	.27315	.37221	.20044	.41260
#1	789.29	1786.4	14768.	7603.5
#2	785.02	1782.5	14810.	7633.6
#3	787.56	1795.5	14826.	7570.9

Zoom In Zoom Out

Sample Name: F95268-9F Acquired: 7/27/2012 14:04:07 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.0198	.0069	.0166	-.0002	F505.9	-.0012	.0020	-.0006
Stddev	.0003	.0044	.0010	.0002	.0000	4.6	.0001	.0000	.0001
%RSD	60.68	22.45	14.39	1.461	10.71	.9141	8.383	1.738	7.782
#1	-.0002	.0156	.0063	.0168	-.0002	502.7	-.0013	.0020	-.0006
#2	-.0005	.0193	.0081	.0163	-.0002	503.8	-.0012	.0020	-.0006
#3	-.0008	.0245	.0064	.0165	-.0002	511.2	-.0011	.0021	-.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0014	.0049	4.028	F543.8	.8052	.0340	F1256.	.0027	.0205
Stddev	.0003	.0010	.023	2.0	.0027	.0004	17.	.0001	.0013
%RSD	19.15	20.59	.5688	.3667	.3307	1.173	1.351	3.980	6.298
#1	-.0016	.0059	4.034	542.2	.8082	.0342	1274.	.0027	.0208
#2	-.0016	.0038	4.047	543.2	.8029	.0335	1240.	.0025	.0191
#3	-.0011	.0050	4.003	546.1	.8046	.0341	1256.	.0027	.0217

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0031	45.00	-.0035	F10.55	-.0054	-.0008	.0127	.0007
Stddev	.0007	.0014	.01	.0006	.02	.0000	.0012	.0003	.0002
%RSD	89.34	44.35	.0238	16.78	.2110	.6282	138.0	2.289	35.40
#1	-.0001	.0015	45.01	-.0035	10.55	-.0054	-.0022	.0124	.0008
#2	-.0015	.0040	45.00	-.0040	10.57	-.0054	-.0003	.0130	.0004
#3	-.0008	.0037	44.99	-.0029	10.53	-.0054	.0000	.0126	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	834.59	1855.0	15557.	7784.0
Stddev	3.08	3.7	40.	13.0
%RSD	.36923	.19875	.25692	.16722
#1	831.58	1852.9	15535.	7783.3
#2	834.45	1852.9	15533.	7797.3
#3	837.74	1859.3	15603.	7771.3

Zoom In Zoom Out

Sample Name: F95268-11F Acquired: 7/27/2012 14:08:57 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0329	-.0006	.0217	-.0002	F534.9	-.0012	.0013	-.0009
Stddev	.0002	.0106	.0022	.0002	.0000	3.1	.0000	.0001	.0005
%RSD	71.60	32.39	380.2	.8367	9.559	.5704	1.277	4.787	55.09
#1	-.0001	.0430	.0000	.0216	-.0002	531.6	-.0011	.0013	-.0008
#2	-.0005	.0218	-.0030	.0218	-.0001	535.6	-.0012	.0013	-.0015
#3	-.0003	.0339	.0013	.0219	-.0002	537.6	-.0012	.0012	-.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0019	2.201	2.290	298.3	1.912	.0178	F636.7	.0021	.0029
Stddev	.0003	.005	.023	1.1	.005	.0003	4.7	.0003	.0009
%RSD	18.25	.2513	.9979	.3834	.2839	1.853	.7387	12.59	29.55
#1	-.0022	2.195	2.296	297.4	1.916	.0179	631.6	.0020	.0020
#2	-.0019	2.202	2.309	297.8	1.913	.0175	637.8	.0019	.0030
#3	-.0015	2.206	2.265	299.6	1.905	.0181	640.8	.0024	.0037

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	.0018	56.07	-.0026	F10.70	-.0052	-.0001	.0016	.0013
Stddev	.0012	.0015	.10	.0003	.05	.0001	.0012	.0004	.0002
%RSD	181.3	86.59	.1869	12.24	.4531	1.730	1720.	25.53	17.01
#1	-.0016	.0014	55.97	-.0026	10.75	-.0051	.0000	.0020	.0011
#2	.0007	.0034	56.18	-.0029	10.69	-.0052	-.0013	.0015	.0014
#3	-.0010	.0005	56.07	-.0023	10.66	-.0053	.0011	.0012	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	921.51	1997.3	16749.	8046.8
Stddev	2.00	4.2	90.	20.8
%RSD	.21655	.21121	.53872	.25858
#1	923.71	2000.9	16655.	8050.0
#2	920.99	1992.7	16755.	8065.9
#3	919.82	1998.3	16835.	8024.6

Zoom In Zoom Out

Sample Name: MP23312-MB2A Acquired: 7/27/2012 14:13:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	-.0072	-.0025	-.0004	-.0002	.0634	-.0003	-.0004	-.0003	-.0014
Stddev	.0005	.0048	.0009	.0002	.0000	.0038	.0000	.0000	.0002	.0001
%RSD	218.6	66.37	34.24	45.11	13.42	5.979	11.76	8.822	49.81	6.208
#1	.0003	-.0033	-.0027	-.0002	-.0002	.0663	-.0003	-.0004	-.0005	-.0013
#2	-.0004	-.0125	-.0016	-.0004	-.0002	.0647	-.0003	-.0004	-.0002	-.0015
#3	-.0006	-.0058	-.0032	-.0005	-.0002	.0591	-.0003	-.0004	-.0003	-.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0034	.0304	.0131	-.0001	.0001	.4205	-.0002	-.0001	.0002	.0020
Stddev	.0004	.0210	.0133	.0000	.0001	.0190	.0003	.0004	.0008	.0009
%RSD	11.41	68.97	101.7	32.64	144.6	4.530	171.3	277.7	498.7	44.88
#1	-.0032	.0541	.0283	-.0002	.0001	.4407	-.0005	-.0005	-.0004	.0023
#2	-.0031	.0141	.0041	-.0001	-.0001	.4178	.0001	-.0001	-.0002	.0026
#3	-.0038	.0231	.0067	-.0002	.0002	.4029	-.0001	.0002	.0011	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0118	-.0016	.0004	-.0003	.0005	-.0002	.0179
Stddev	.0005	.0001	.0001	.0000	.0017	.0001	.0001
%RSD	4.064	8.222	26.11	3.089	370.3	55.29	.7488
#1	.0123	-.0016	.0005	-.0004	.0017	-.0003	.0180
#2	.0114	-.0016	.0004	-.0003	-.0015	-.0001	.0179
#3	.0116	-.0018	.0003	-.0003	.0012	-.0001	.0178

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1365.2	2461.6	20527.	8678.5
Stddev	5.5	2.4	36.	129.6
%RSD	.40086	.09822	.17779	1.4938
#1	1359.4	2463.1	20555.	8528.9
#2	1370.3	2463.0	20539.	8750.5
#3	1365.7	2458.9	20486.	8756.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:27:00 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2618	42.37	2.143	2.164	2.080	40.28	2.133	2.155	2.070	2.108
Stddev	.0006	.11	.003	.003	.004	.09	.003	.005	.004	.008
%RSD	.2145	.2679	.1204	.1407	.1813	.2357	.1590	.2138	.1709	.3878
#1	.2619	42.48	2.141	2.164	2.083	40.37	2.131	2.150	2.066	2.099
#2	.2612	42.36	2.146	2.167	2.080	40.28	2.137	2.159	2.073	2.114
#3	.2623	42.26	2.143	2.161	2.076	40.18	2.132	2.156	2.072	2.111
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.27	43.44	38.84	2.062	2.165	43.05	2.149	2.046	2.160	2.164
Stddev	.11	.11	.11	.006	.003	.10	.006	.003	.001	.005
%RSD	.2761	.2638	.2712	.2746	.1168	.2297	.2634	.1622	.0297	.2256
#1	39.39	43.56	38.91	2.056	2.162	43.16	2.145	2.049	2.160	2.166
#2	39.23	43.43	38.89	2.067	2.167	43.03	2.156	2.045	2.160	2.167
#3	39.18	43.33	38.72	2.062	2.166	42.97	2.147	2.043	2.161	2.158
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.199	2.155	2.151	2.095	2.088	2.156	2.077
Stddev	.004	.002	.020	.005	.001	.005	.004
%RSD	.2005	.1023	.9046	.2445	.0582	.2165	.1690
#1	2.194	2.153	2.155	2.091	2.088	2.151	2.077
#2	2.201	2.157	2.130	2.101	2.089	2.159	2.080
#3	2.202	2.154	2.169	2.094	2.087	2.159	2.073
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:27:00 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1120.9	2331.7	19270.	8455.5
Stddev	2.0	3.1	40.	36.5
%RSD	.17837	.13489	.20735	.43184
#1	1118.8	2335.3	19316.	8417.4
#2	1122.8	2329.5	19247.	8459.0
#3	1121.0	2330.2	19247.	8490.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 14:33:20 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0009	.0003	.0001	.0002	.0077	.0002	.0002	.0003	.0002
Stddev	.0003	.0031	.0008	.0001	.0000	.0019	.0000	.0001	.0001	.0002
%RSD	64.36	349.8	227.2	89.26	11.42	24.78	9.478	53.37	25.59	116.1
#1	-.0002	.0027	-.0003	.0002	.0002	.0067	.0002	.0001	.0003	.0003
#2	-.0004	-.0026	.0001	.0000	.0002	.0099	.0002	.0002	.0002	-.0001
#3	-.0007	-.0028	.0012	.0001	.0002	.0064	.0002	.0003	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125	-.0048	.0016	.0002	.0005	.1271	.0003	.0005	.0003	.0018
Stddev	.0014	.0108	.0109	.0000	.0000	.0055	.0001	.0008	.0009	.0009
%RSD	10.88	226.3	671.5	17.34	9.039	4.362	34.19	160.8	311.4	51.08
#1	.0131	-.0131	-.0083	.0003	.0006	.1261	.0004	-.0004	-.0007	.0010
#2	.0135	-.0087	-.0001	.0002	.0005	.1221	.0002	.0010	.0009	.0028
#3	.0110	.0075	.0133	.0003	.0005	.1330	.0003	.0009	.0007	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0005	.0002	.0009	.0015	.0002	.0004
Stddev	.0004	.0001	.0000	.0001	.0006	.0003	.0001
%RSD	17.76	21.81	10.65	14.58	40.99	169.8	22.99
#1	.0020	.0006	.0003	.0010	.0008	.0001	.0003
#2	.0028	.0004	.0002	.0009	.0020	-.0001	.0003
#3	.0023	.0006	.0003	.0007	.0016	.0005	.0005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 14:33:20 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1370.4	2478.3	20227.	8603.4
Stddev	3.5	2.0	23.	19.6
%RSD	.25312	.08123	.11406	.22802
#1	1366.4	2476.1	20225.	8592.2
#2	1372.5	2479.9	20250.	8626.0
#3	1372.4	2479.1	20204.	8591.8

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 14:37:45 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.2093	.0103	.2215	.0052	1.035	.0059	.0575	.0106
Stddev	.0005	.0024	.0005	.0010	.0000	.005	.0001	.0001	.0003
%RSD	4.744	1.132	4.947	.4719	.2829	.4796	1.313	.1656	2.757
#1	.0094	.2066	.0106	.2203	.0052	1.030	.0060	.0576	.0109
#2	.0094	.2112	.0105	.2219	.0052	1.037	.0058	.0575	.0103
#3	.0102	.2100	.0097	.2223	.0052	1.039	.0058	.0574	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265	.3147	10.95	4.949	.0166	.0539	10.92	.0459	.0056
Stddev	.0001	.0024	.02	.043	.0001	.0002	.03	.0003	.0007
%RSD	.3950	.7533	.1672	.8676	.6750	.4455	.2602	.6074	12.25
#1	.0264	.3123	10.93	4.900	.0165	.0540	10.89	.0458	.0048
#2	.0266	.3170	10.96	4.977	.0166	.0540	10.94	.0462	.0059
#3	.0265	.3148	10.96	4.970	.0168	.0536	10.93	.0456	.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	F.0122	.0062	.0542	.0107	.0106	F.0125	.0543	.0225
Stddev	.0011	.0020	.0003	.0002	.0000	.0000	.0008	.0005	.0000
%RSD	19.20	16.13	4.981	.4043	.4539	.3622	6.523	.8341	.1643
#1	.0056	.0100	.0063	.0543	.0107	.0106	.0123	.0544	.0225
#2	.0049	.0126	.0058	.0544	.0107	.0106	.0134	.0538	.0225
#3	.0071	.0139	.0064	.0540	.0108	.0107	.0118	.0546	.0224
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value		.0100					.0100		
Range		20.00%					20.00%		

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 14:37:45 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1301.6	2439.6	19939.	8556.8
Stddev	2.6	7.8	82.	32.9
%RSD	.20149	.31870	.40925	.38486
#1	1298.6	2435.2	20011.	8594.8
#2	1302.4	2435.1	19956.	8536.1
#3	1303.7	2448.6	19851.	8539.6

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 14:44:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	525.6	F-.0022	F.0016	-.0002	470.3	F.0037	-.0004
Stddev	.0009	1.7	.0012	.0004	.0001	1.7	.0003	.0001
%RSD	5889.	.3298	53.60	22.80	28.81	.3510	8.821	18.24
#1	-.0010	523.7	-.0010	.0013	-.0002	469.5	.0036	-.0005
#2	.0003	526.3	-.0034	.0015	-.0002	469.1	.0041	-.0003
#3	.0007	527.0	-.0023	.0020	-.0001	472.2	.0035	-.0003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			.0020	.0010			.0010	
Low Limit			-.0020	-.0010			-.0010	

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0006	184.6	.0013	502.2	.0002	.0003	.2134
Stddev	.0004	.0003	2.2	.0148	2.7	.0001	.0003	.0015
%RSD	83.91	43.63	1.199	1134.	.5446	34.34	87.74	.7071
#1	-.0007	.0004	184.3	-.0149	502.3	.0002	.0006	.2150
#2	-.0005	.0007	182.6	.0045	499.5	.0001	.0000	.2130
#3	.0000	.0009	187.0	.0143	504.9	.0002	.0003	.2121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	F.0016	-.0011	.0005	.0018	.0000	F.0029	F-.0024
Stddev	.0001	.0017	.0013	.0009	.0008	.0007	.0002	.0002
%RSD	30.96	106.4	120.9	187.8	41.47	3645.	8.118	10.52
#1	-.0003	.0021	-.0026	.0011	.0012	.0008	.0026	-.0021
#2	-.0006	-.0003	-.0005	.0009	.0017	-.0001	.0028	-.0024
#3	-.0004	.0029	-.0002	-.0006	.0027	-.0005	.0031	-.0026
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit		.0010					.0010	.0020
Low Limit		-.0010					-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 14:44:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0020	.0006	.0013
Stddev	.0047	.0004	.0003
%RSD	241.2	63.51	18.94
#1	-.0024	.0006	.0011
#2	.0070	.0009	.0016
#3	.0014	.0002	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	909.72	2121.1	17300.	7985.6
Stddev	3.67	1.5	66.	55.8
%RSD	.40374	.06989	.38419	.69865
#1	906.33	2121.5	17228.	7979.0
#2	909.20	2119.5	17313.	8044.4
#3	913.62	2122.4	17359.	7933.4

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 14:51:26 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.104	521.7	1.063	.5679	.5116	468.1	.9709	.4901	.5104	.5888
Stddev	.004	2.6	.002	.0014	.0016	2.7	.0008	.0008	.0019	.0018
%RSD	.3965	.5076	.2115	.2428	.3188	.5783	.0838	.1655	.3806	.3123
#1	1.099	524.4	1.061	.5683	.5098	465.0	.9703	.4895	.5101	.5903
#2	1.108	519.1	1.065	.5691	.5130	469.9	.9719	.4910	.5087	.5893
#3	1.105	521.6	1.063	.5664	.5119	469.4	.9707	.4897	.5125	.5867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.7	-.0090	497.7	.4961	1.011	.1790	.9522	1.009	1.077	1.074
Stddev	.5	.0108	1.2	.0012	.001	.0021	.0005	.003	.005	.002
%RSD	.2891	120.9	.2389	.2461	.0495	1.191	.0570	.3160	.4483	.1828
#1	183.1	-.0048	496.3	.4973	1.010	.1767	.9516	1.012	1.082	1.074
#2	184.0	-.0008	498.4	.4949	1.011	.1792	.9526	1.006	1.076	1.076
#3	184.0	-.0213	498.3	.4961	1.011	.1810	.9524	1.009	1.072	1.072
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.8812	1.071	1.041	1.002	.5146	.9362
Stddev	.0030	.0024	.002	.001	.004	.0022	.0017
%RSD	109.6	.2766	.1736	.0787	.3446	.4279	.1783
#1	.0062	.8812	1.071	1.042	.9994	.5164	.9346
#2	.0007	.8788	1.073	1.041	1.002	.5121	.9360
#3	.0013	.8836	1.069	1.041	1.006	.5152	.9379
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 14:51:26 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	905.67	2133.1	17457.	8018.2
Stddev	1.59	3.3	47.	18.4
%RSD	.17609	.15347	.26701	.22895
#1	903.91	2134.4	17403.	8036.5
#2	907.03	2129.3	17483.	7999.8
#3	906.06	2135.4	17484.	8018.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:59:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2602	42.61	2.135	2.186	2.078	40.08	2.130	2.156	2.073	2.092
Stddev	.0016	.04	.005	.001	.007	.21	.006	.006	.007	.005
%RSD	.5992	.1011	.2392	.0571	.3545	.5167	.2631	.2791	.3256	.2441
#1	.2586	42.60	2.138	2.185	2.081	40.17	2.129	2.158	2.066	2.090
#2	.2603	42.57	2.138	2.187	2.070	39.85	2.135	2.161	2.077	2.098
#3	.2617	42.65	2.129	2.187	2.084	40.23	2.124	2.150	2.077	2.088
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.48	43.05	39.05	2.084	2.172	43.05	2.138	2.031	2.153	2.162
Stddev	.13	.06	.16	.007	.006	.08	.005	.002	.009	.004
%RSD	.3279	.1297	.4146	.3527	.2885	.1913	.2258	.0943	.4031	.1770
#1	39.55	43.07	39.16	2.075	2.172	43.09	2.139	2.033	2.160	2.160
#2	39.33	42.99	38.86	2.087	2.178	43.12	2.142	2.030	2.157	2.166
#3	39.57	43.09	39.12	2.089	2.165	42.96	2.133	2.029	2.143	2.160
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.176	2.133	2.152	2.100	2.066	2.134	2.063
Stddev	.008	.004	.017	.005	.002	.003	.001
%RSD	.3729	.1773	.7700	.2286	.1051	.1585	.0386
#1	2.177	2.135	2.158	2.095	2.066	2.130	2.062
#2	2.184	2.135	2.133	2.103	2.068	2.137	2.064
#3	2.168	2.128	2.164	2.103	2.064	2.134	2.063
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:59:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1123.4	2325.3	19146.	8296.1
Stddev	3.2	8.9	68.	40.5
%RSD	.28922	.38371	.35485	.48813
#1	1120.3	2319.8	19212.	8258.8
#2	1123.1	2320.6	19149.	8339.1
#3	1126.8	2335.6	19076.	8290.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 15:10:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0021	-.0007	.0002	.0003	.0081	.0002	.0004	.0002	.0002
Stddev	.000	.0002	.0012	.0001	.0000	.0022	.0001	.0001	.0001	.0002
%RSD	6807.	9.504	164.1	33.26	10.09	27.27	23.79	32.89	84.85	73.72
#1	-.0002	.0021	-.0010	.0001	.0003	.0106	.0002	.0004	.0003	.0001
#2	.0004	.0023	-.0018	.0003	.0003	.0066	.0003	.0005	.0000	.0004
#3	-.0002	.0019	.0006	.0002	.0003	.0070	.0003	.0002	.0002	.0001
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	-.0116	.0178	.0003	.0005	.0629	.0004	.0007	.0003	.0005
Stddev	.0010	.0329	.0095	.0000	.0001	.0040	.0000	.0005	.0012	.0017
%RSD	8.038	284.1	53.39	10.17	12.09	6.326	.8305	77.46	417.0	308.6
#1	.0127	-.0194	.0255	.0003	.0005	.0598	.0005	.0004	.0017	-.0008
#2	.0108	.0246	.0208	.0002	.0006	.0614	.0004	.0013	-.0004	.0024
#3	.0122	-.0399	.0072	.0002	.0004	.0674	.0004	.0004	-.0004	.0000
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0005	.0003	.0006	.0017	.0003	.0005
Stddev	.0004	.0002	.0000	.0000	.0002	.0001	.0001
%RSD	19.65	41.20	6.283	5.618	11.53	38.62	22.98
#1	.0022	.0007	.0003	.0006	.0015	.0002	.0005
#2	.0015	.0005	.0004	.0005	.0019	.0004	.0006
#3	.0021	.0003	.0004	.0006	.0016	.0004	.0004
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Inst QC: MA9995

Zoom In
Zoom Out

Sample Name: CCB Acquired: 7/27/2012 15:10:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1376.7	2477.5	20490.	8736.5
Stddev	1.7	3.6	29.	12.0
%RSD	.12179	.14353	.14370	.13771
#1	1377.2	2477.9	20518.	8724.0
#2	1374.9	2480.9	20459.	8748.0
#3	1378.2	2473.8	20493.	8737.5

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.007608	0.000000	No
			Fe	0.000007	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000065	0.000000	No
			Cr	-0.000129	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 313.042 {108}	☒	2	V	0.000042	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000144	0.000000	No
			Ca	0.000002	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	2	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000004	0.000000	No
			Fe	-0.000004	0.000000	No
			Ca	0.000002	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000097	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000268	0.000000	No
			Al	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000011	0.000000	No
			Mg	0.000003	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000010	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000036	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000002	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	-0.000078	0.000000	No
			Fe	0.000020	0.000000	No
			Mo	-0.001466	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000240	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000038	0.000000	No
			Cr	0.006369	0.000000	No
			Mo	-0.002569	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	-0.000010	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	☒	12	Fe	-0.000046	0.000000	No
			Ca	0.000005	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000029	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000002	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000003	0.000000	No
Ti 334.941 {101}	☒	None				
Tl 190.856 {477}	☒	10	Co	0.003248	0.000000	No
			Fe	0.000041	0.000000	No
			Al	-0.000016	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000002	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000004	0.000000	No
			Cr	-0.001960	0.000000	No
			Mo	-0.004535	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000003	0.000000	No
			As	0.001105	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000107	0.533577	0.000000	1.000000
Al 396.152 { 85}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.005031	0.165424	0.000000	1.000000
As 189.042 {478}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001590	0.226660	0.000000	1.000000
Ba 455.403 { 74}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.004502	9.117506	0.000000	1.000000
Be 313.042 {108}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.001317	11.450023	0.000000	1.000000
Ca 317.933 {106}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003374	0.226543	0.000000	1.000000
Cd 226.502 {449}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001147	4.436575	0.000000	1.000000
Co 228.616 {447}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000928	2.426560	0.000000	1.000000
Cr 267.716 {126}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000145	0.469791	0.000000	1.000000
Cu 324.754 {104}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.005740	1.050447	0.000000	1.000000
Fe 259.940 {130}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003614	0.195998	0.000000	1.000000
In 230.606 {446}*	4/20/2011 9:03:12	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000747	0.069107	0.000000	1.000000
Mg 279.079 {121}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000224	0.024762	0.000000	1.000000
Mn 257.610 {131}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000376	2.981206	0.000000	1.000000
Mo 202.030 {467}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.001613	1.394154	0.000000	1.000000
Na 589.592 { 57}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.004213	0.290284	0.000000	1.000000
Ni 231.604 {445}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000730	1.462294	0.000000	1.000000
Pb 220.353 {453}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001170	0.857284	0.000000	1.000000
Sb 206.833 {463}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000755	0.334312	0.000000	1.000000
Se 196.090 {472}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000390	0.161762	0.000000	1.000000
Si 212.412 {459}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.009361	0.369236	0.000000	1.000000
Sn 189.989 {477}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000804	0.438998	0.000000	1.000000
Sr 407.771 { 83}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001545	15.885260	0.000000	1.000000
Ti 334.941 {101}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003612	2.185732	0.000000	1.000000
Tl 190.856 {477}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.002000	0.398472	0.000000	1.000000
V 292.402 {115}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000378	0.673242	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.002768	1.955074	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999974	0.000037	0.000464	0.001548	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999970	0.002081	0.005318	0.017726	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999993	0.000070	0.000977	0.003256	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999888	0.011001	0.000117	0.000391	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999748	0.020704	0.000037	0.000123	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999871	0.005870	0.002068	0.006893	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999791	0.007327	0.000070	0.000232	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999773	0.004167	0.000135	0.000452	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999791	0.000773	0.000336	0.001121	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999990	0.000375	0.000222	0.000742	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999829	0.005843	0.001381	0.004604	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999971	0.000851	0.019744	0.065813	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999961	0.000354	0.013560	0.045199	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999782	0.005019	0.000048	0.000161	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999872	0.001797	0.000157	0.000524	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999968	0.003762	0.004854	0.016181	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999705	0.002863	0.000229	0.000763	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999961	0.000608	0.000674	0.002248	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999992	0.000105	0.000997	0.003324	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999988	0.000063	0.001973	0.006576	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.999918	0.000388	0.000635	0.002118	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999677	0.000899	0.000424	0.001414	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999822	0.024135	0.000045	0.000150	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999899	0.002507	0.000109	0.000364	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999974	0.000233	0.001101	0.003669	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999318	0.001991	0.000290	0.000968	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999849	0.002733	0.000116	0.000387	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 7/30/2012 7:23:13 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0003	.0042	-.0009	.0035	.0007	.0030	-.0010	-.0009	.0000
Stddev	.0002	.0008	.0002	.0003	.0001	.0001	.0002	.0004	.000
%RSD	69.94	18.00	17.79	7.957	13.41	2.788	20.30	44.40	194.5
#1	-.0003	.0049	-.0007	.0038	.0006	.0030	-.0012	-.0012	.0000
#2	-.0001	.0034	-.0010	.0035	.0007	.0031	-.0009	-.0011	.0000
#3	-.0005	.0044	-.0010	.0032	.0008	.0030	-.0009	-.0004	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0056	.0028	-.0006	-.0001	.0003	.0010	.0057	.0003	-.0012
Stddev	.0001	.0003	.0010	.0001	.0001	.0002	.0005	.0002	.0001
%RSD	2.452	9.321	161.4	134.4	32.54	20.74	9.331	84.11	6.176
#1	.0058	.0030	-.0001	.0000	.0004	.0010	.0053	.0003	-.0013
#2	.0056	.0028	-.0017	-.0002	.0003	.0012	.0055	.0000	-.0011
#3	.0056	.0025	.0000	.0000	.0002	.0008	.0063	.0005	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	-.0003	.0066	.0000	-.0018	.0023	-.0014	-.0004	.0023
Stddev	.0001	.0001	.0002	.0001	.0005	.0001	.0001	.0001	.0002
%RSD	17.91	40.64	3.015	291.5	26.10	3.559	8.069	15.93	7.364
#1	.0003	-.0004	.0069	.0002	-.0013	.0024	-.0013	-.0003	.0025
#2	.0003	-.0002	.0066	.0000	-.0022	.0023	-.0015	-.0004	.0021
#3	.0004	-.0004	.0065	.0000	-.0018	.0023	-.0015	-.0004	.0023

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1935.7	3365.8	25087.	9449.4
Stddev	7.8	4.5	36.	70.3
%RSD	.40161	.13314	.14252	.74416
#1	1935.2	3364.1	25045.	9511.2
#2	1928.2	3362.4	25104.	9464.1
#3	1943.7	3370.9	25110.	9372.9

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 7/30/2012 7:26:50 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0295	1.566	.0987	4.658	5.143	2.358	2.197	1.162	.2451	.5042
Stddev	.0001	.006	.0005	.024	.019	.015	.002	.001	.0001	.0015
%RSD	.2987	.3865	.5285	.5124	.3651	.6326	.1086	.0634	.0209	.2907
#1	.0294	1.560	.0986	4.637	5.121	2.342	2.199	1.163	.2451	.5031
#2	.0295	1.572	.0983	4.684	5.154	2.360	2.194	1.162	.2451	.5059
#3	.0296	1.564	.0993	4.653	5.154	2.371	2.198	1.161	.2452	.5038

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.970	.6699	.2345	1.560	.6550	2.690	.7272	.3787	.1495	.0699
Stddev	.015	.0017	.0027	.001	.0022	.011	.0011	.0009	.0007	.0003
%RSD	.7811	.2542	1.159	.0552	.3342	.3890	.1520	.2492	.5009	.4366
#1	1.952	.6688	.2314	1.560	.6537	2.688	.7266	.3777	.1488	.0699
#2	1.977	.6719	.2356	1.559	.6537	2.702	.7265	.3793	.1503	.0696
#3	1.981	.6691	.2365	1.560	.6575	2.681	.7285	.3793	.1495	.0702

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1686	.1076	7.713	1.084	.1800	.3457	.9943
Stddev	.0005	.0003	.029	.001	.0013	.0005	.0019
%RSD	.2972	.2939	.3830	.0887	.7458	.1577	.1886
#1	.1682	.1074	7.689	1.083	.1800	.3464	.9961
#2	.1684	.1080	7.746	1.085	.1787	.3455	.9924
#3	.1691	.1076	7.704	1.084	.1814	.3453	.9944

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1800.3	3360.5	24955.	9514.6
Stddev	3.1	3.3	47.	94.2
%RSD	.17373	.09682	.18795	.98972
#1	1803.6	3362.0	24988.	9611.9
#2	1799.9	3362.8	24901.	9508.2
#3	1797.4	3356.8	24975.	9423.9

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 7/30/2012 7:31:56 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1168	6.038	.3998	18.18	20.06	9.092	8.519	4.467	.9495	1.975
Stddev	.0005	.010	.0011	.05	.03	.039	.025	.019	.0013	.006
%RSD	.4213	.1615	.2693	.2531	.1725	.4304	.2928	.4331	.1331	.3028
#1	.1174	6.049	.3986	18.20	20.03	9.051	8.491	4.447	.9493	1.977
#2	.1166	6.036	.4007	18.13	20.04	9.096	8.539	4.485	.9484	1.980
#3	.1165	6.030	.4001	18.21	20.10	9.129	8.527	4.469	.9509	1.968

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.300	2.592	.9094	6.019	2.590	10.44	2.771	1.536	.5937	.2791
Stddev	.013	.002	.0044	.012	.014	.02	.011	.003	.0019	.0015
%RSD	.1735	.0847	.4861	.2013	.5551	.2378	.3933	.2149	.3158	.5428
#1	7.285	2.592	.9046	6.005	2.575	10.47	2.760	1.539	.5916	.2777
#2	7.307	2.590	.9103	6.027	2.603	10.42	2.782	1.536	.5948	.2807
#3	7.307	2.595	.9133	6.024	2.593	10.44	2.772	1.532	.5948	.2789

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6775	.4261	30.79	4.330	.7195	1.389	3.871
Stddev	.0027	.0010	.07	.003	.0013	.001	.014
%RSD	.3970	.2294	.2134	.0763	.1840	.1030	.3715
#1	.6754	.4256	30.83	4.327	.7210	1.390	3.854
#2	.6805	.4272	30.72	4.333	.7188	1.388	3.879
#3	.6765	.4255	30.83	4.331	.7186	1.390	3.880

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1610.4	3214.9	24022.	9384.1
Stddev	5.9	10.6	38.	68.6
%RSD	.36750	.32978	.15844	.73104
#1	1606.3	3224.5	24048.	9461.7
#2	1607.6	3203.5	23978.	9359.2
#3	1617.2	3216.6	24040.	9331.5

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 7/30/2012 7:37:52 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2401	12.18	.8138	36.09	39.23	17.96	16.74	8.811	1.869	3.987
Stddev	.0010	.02	.0009	.21	.33	.08	.01	.002	.004	.017
%RSD	.3986	.1363	.1155	.5944	.8286	.4200	.0557	.0254	.2400	.4223
#1	.2400	12.19	.8142	35.87	38.93	17.88	16.74	8.810	1.864	3.984
#2	.2411	12.19	.8127	36.29	39.58	18.02	16.73	8.809	1.873	4.006
#3	.2391	12.16	.8145	36.11	39.18	18.00	16.75	8.813	1.868	3.972

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.62	5.236	1.825	11.78	5.127	21.02	5.447	3.131	1.201	.5638
Stddev	.05	.012	.008	.06	.005	.05	.006	.005	.002	.0006
%RSD	.3532	.2303	.4526	.5139	.0973	.2354	.1144	.1590	.1852	.1015
#1	14.57	5.246	1.816	11.71	5.133	21.08	5.447	3.126	1.203	.5638
#2	14.67	5.241	1.828	11.82	5.123	21.00	5.441	3.130	1.199	.5644
#3	14.63	5.223	1.831	11.80	5.127	21.00	5.454	3.136	1.201	.5632

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.348	.8286	59.83	8.550	1.443	2.631	7.625
Stddev	.003	.0034	.51	.024	.002	.005	.016
%RSD	.2510	.4154	.8484	.2774	.1547	.2085	.2100
#1	1.351	.8275	59.29	8.527	1.441	2.626	7.614
#2	1.344	.8258	60.30	8.574	1.444	2.637	7.617
#3	1.347	.8324	59.90	8.549	1.445	2.630	7.643

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.7	3078.2	23279.	9239.8
Stddev	1.4	4.9	60.	57.4
%RSD	.09575	.15929	.25901	.62096
#1	1469.4	3073.3	23334.	9301.6
#2	1469.7	3083.1	23215.	9188.2
#3	1467.1	3078.1	23287.	9229.7

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 7:47:18 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5010	79.77	4.012	3.996	3.935	79.52	3.955	3.950	3.984	4.043
Stddev	.0004	.12	.009	.059	.044	.34	.013	.011	.005	.017
%RSD	.0851	.1443	.2172	1.481	1.115	.4235	.3379	.2759	.1335	.4132
#1	.5015	79.84	4.003	4.064	3.983	79.60	3.955	3.950	3.978	4.047
#2	.5009	79.83	4.012	3.970	3.898	79.81	3.941	3.939	3.988	4.025
#3	.5007	79.63	4.020	3.954	3.924	79.15	3.968	3.961	3.986	4.058
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.55	79.82	80.12	4.012	3.959	79.66	3.949	4.033	3.995	3.977
Stddev	.25	.01	.21	.006	.007	.04	.008	.007	.007	.015
%RSD	.3189	.0088	.2569	.1525	.1857	.0536	.1999	.1835	.1665	.3822
#1	79.66	79.82	80.26	4.010	3.962	79.66	3.952	4.041	4.002	3.985
#2	79.74	79.81	80.22	4.007	3.951	79.62	3.941	4.028	3.994	3.960
#3	79.26	79.83	79.88	4.019	3.964	79.71	3.956	4.029	3.989	3.987
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.984	3.973	3.971	4.025	4.007	3.936	3.977
Stddev	.006	.006	.042	.012	.005	.004	.013
%RSD	.1537	.1602	1.069	.2913	.1166	.0895	.3300
#1	3.979	3.974	4.020	4.026	4.010	3.932	3.977
#2	3.982	3.967	3.943	4.014	4.009	3.939	3.965
#3	3.991	3.979	3.950	4.037	4.002	3.937	3.991
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 7:47:18 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1470.9	3091.4	23096.	9217.4
Stddev	1.2	5.1	59.	54.7
%RSD	.08442	.16358	.25650	.59294
#1	1470.9	3089.0	23084.	9177.8
#2	1469.7	3097.2	23160.	9194.6
#3	1472.2	3088.0	23044.	9279.7

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 7:54:28 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2457	39.32	1.951	2.083	2.022	40.09	2.007	2.020	2.008	1.997
Stddev	.0013	.25	.006	.007	.013	.46	.002	.004	.003	.005
%RSD	.5438	.6242	.2881	.3477	.6391	1.143	.1085	.1843	.1486	.2392
#1	.2472	39.04	1.945	2.074	2.007	39.57	2.007	2.021	2.008	1.992
#2	.2446	39.44	1.951	2.088	2.032	40.43	2.008	2.023	2.005	1.995
#3	.2453	39.49	1.956	2.085	2.027	40.27	2.004	2.015	2.011	2.002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.88	40.04	39.77	2.020	1.926	40.46	2.028	1.957	1.962	2.015
Stddev	.32	.28	.44	.003	.004	.23	.003	.001	.002	.006
%RSD	.7828	.6872	1.097	.1609	.1891	.5784	.1694	.0719	.0841	.3005
#1	40.52	39.73	39.27	2.024	1.927	40.20	2.028	1.956	1.961	2.021
#2	41.12	40.24	40.05	2.017	1.929	40.62	2.031	1.959	1.964	2.009
#3	41.01	40.17	40.00	2.020	1.922	40.57	2.024	1.957	1.963	2.016
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462	1.916	2.000	1.955	2.063	2.008	2.023
Stddev	.0004	.003	.010	.003	.002	.005	.002
%RSD	.9456	.1504	.4816	.1439	.1160	.2763	.0905
#1	.0465	1.915	1.990	1.953	2.060	2.002	2.021
#2	.0457	1.919	2.009	1.955	2.063	2.011	2.025
#3	.0465	1.914	2.003	1.958	2.065	2.011	2.022
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 7:54:28 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1603.2	3203.9	23839.	9398.6
Stddev	2.1	9.0	16.	101.8
%RSD	.12836	.28036	.06635	1.0832
#1	1600.8	3197.8	23820.	9516.1
#2	1604.3	3199.7	23847.	9342.4
#3	1604.4	3214.2	23848.	9337.3

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 8:03:58 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0020	.0005	-.0001	.0000	-.0007	.0000	.0000	.0002
Stddev	.0000	.0039	.0008	.0000	.000	.0011	.000	.000	.0001
%RSD	12.53	201.7	148.1	59.35	53.25	146.4	1226.	957.3	58.86
#1	.0002	-.0064	-.0002	.0000	.0000	-.0015	.0001	.0001	.0001
#2	.0003	-.0006	.0004	.0000	.0000	-.0012	.0000	.0000	.0002
#3	.0002	.0012	.0013	-.0001	.0000	.0005	-.0001	-.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0036	.0039	-.0081	.0000	.0000	-.0046	-.0001	.0003
Stddev	.0002	.0018	.0111	.0105	.000	.0000	.0015	.0001	.0004
%RSD	457.6	49.71	282.4	129.7	619.4	65.40	32.74	78.19	137.5
#1	-.0001	-.0015	-.0020	-.0182	.0000	.0000	-.0035	.0000	.0006
#2	.0002	-.0046	.0167	-.0088	.0000	.0000	-.0040	-.0002	-.0001
#3	.0000	-.0048	-.0029	.0027	.0000	.0000	-.0063	-.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	.0010	F.0013	.0000	.0000	.0005	-.0001	-.0001
Stddev	.0009	.002	.0003	.0006	.000	.000	.0010	.0002	.0000
%RSD	1392.	6223.	28.50	43.22	131.0	445.0	193.7	212.1	51.35
#1	.0005	-.0026	.0008	.0009	-.0001	.0001	-.0005	-.0002	-.0001
#2	-.0010	.0019	.0013	.0011	.0000	.0000	.0015	.0001	.0000
#3	.0007	.0006	.0008	.0019	.0000	-.0002	.0006	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 8:03:58 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1929.5	3389.0	24830.	9463.2
Stddev	5.1	5.4	70.	11.2
%RSD	.26624	.15831	.28058	.11824
#1	1923.5	3383.2	24868.	9456.7
#2	1932.1	3393.8	24873.	9456.9
#3	1932.7	3389.9	24750.	9476.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 8:08:34 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	.2069	.0107	.2119	.0053	1.057	.0056	.0542	.0110	.0255
Stddev	.0002	.0024	.0006	.0003	.0000	.001	.0000	.0002	.0003	.0002
%RSD	1.791	1.168	5.165	.1388	.4591	.1064	.3376	.4057	2.894	.7627
#1	.0093	.2068	.0111	.2121	.0053	1.056	.0056	.0541	.0107	.0258
#2	.0091	.2093	.0109	.2121	.0053	1.058	.0056	.0544	.0113	.0255
#3	.0094	.2045	.0101	.2116	.0053	1.057	.0057	.0540	.0112	.0254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3160	10.35	5.223	.0165	.0503	10.32	.0438	.0047	.0046	.0097
Stddev	.0008	.03	.005	.0001	.0002	.03	.0002	.0003	.0000	.0012
%RSD	.2604	.3078	.1052	.7946	.3708	.2845	.3879	6.463	.9188	12.25
#1	.3160	10.31	5.229	.0165	.0501	10.29	.0439	.0045	.0046	.0109
#2	.3168	10.37	5.221	.0163	.0505	10.35	.0439	.0046	.0045	.0086
#3	.3152	10.36	5.218	.0166	.0504	10.30	.0436	.0051	.0045	.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0537	.0105	.0100	.0108	.0532	.0223
Stddev	.0003	.0009	.0000	.0000	.0002	.0004	.0001
%RSD	5.169	1.613	.3890	.4204	1.689	.6668	.5108
#1	.0069	.0531	.0105	.0101	.0106	.0528	.0222
#2	.0063	.0533	.0105	.0101	.0110	.0535	.0224
#3	.0069	.0547	.0105	.0100	.0108	.0532	.0223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 8:08:34 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.9	3356.2	24599.	9398.3
Stddev	3.2	3.4	26.	19.9
%RSD	.17607	.09983	.10644	.21223
#1	1836.3	3352.4	24569.	9400.9
#2	1842.6	3357.9	24615.	9416.8
#3	1838.0	3358.4	24613.	9377.2

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 8:20:46 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0031	-.0009	-.0001	.0000	.0026	.0000	-.0009	.0004	-.0009
Stddev	.0005	.0033	.0005	.0001	.000	.0002	.000	.0002	.0001	.0002
%RSD	103.1	104.9	55.75	68.53	53.52	7.371	287.9	24.97	19.68	17.87
#1	-.0001	.0038	-.0009	-.0002	.0000	.0028	.0000	-.0006	.0003	-.0010
#2	.0008	.0060	-.0004	-.0001	.0000	.0024	-.0001	-.0011	.0004	-.0008
#3	.0007	-.0005	-.0014	-.0001	.0000	.0025	.0000	-.0009	.0004	-.0007
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0093	-.0144	.0020	-.0001	-.0001	-.0014	-.0017	-.0015	.0004	-.0001
Stddev	.0014	.0186	.0120	.0000	.0001	.0043	.0002	.0005	.0006	.0023
%RSD	14.68	128.8	611.8	46.94	44.37	306.7	10.40	32.72	143.0	3054.
#1	-.0092	-.0357	.0011	.0000	-.0001	-.0027	-.0018	-.0018	.0005	.0006
#2	-.0080	-.0066	.0144	-.0001	-.0001	.0034	-.0015	-.0009	.0009	-.0026
#3	-.0107	-.0011	-.0096	-.0001	-.0002	-.0050	-.0016	-.0018	-.0002	.0018
Check ?	None	None	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.65	-.0006	.0000	-.0001	-.0004	-.0001	-.0006
Stddev	.05	.0002	.000	.0000	.0008	.0003	.0001
%RSD	.1183	30.83	48.69	26.39	196.9	199.8	15.73
#1	44.70	-.0004	.0000	-.0002	-.0008	.0000	-.0005
#2	44.60	-.0007	.0000	-.0001	.0005	.0000	-.0006
#3	44.65	-.0007	.0000	-.0001	-.0009	-.0004	-.0007
Check ?	Chk Pass	None	None	None	None	None	None
Value							
Range							

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 8:20:46 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1922.5	3431.0	25134.	9596.5
Stddev	2.9	6.3	52.	57.8
%RSD	.15222	.18252	.20844	.60225
#1	1919.2	3423.9	25073.	9616.8
#2	1923.5	3435.9	25169.	9531.3
#3	1924.7	3433.1	25159.	9641.4

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 8:26:30 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	487.2	.0000	F.0057	-.0001	474.7	.0010	.0000
Stddev	.0004	5.2	.0019	.0003	.0000	5.4	.0002	.0002
%RSD	181.3	1.060	4134.	5.091	82.22	1.130	16.34	380.7
#1	.0000	486.7	-.0014	.0060	-.0001	474.2	.0009	-.0001
#2	.0000	492.6	-.0006	.0056	.0000	480.3	.0009	.0000
#3	.0007	482.3	.0022	.0055	-.0001	469.6	.0012	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0014	181.8	-.0126	515.1	.0002	.0003	.0752
Stddev	.0002	.0003	2.3	.0126	3.5	.0001	.0003	.0069
%RSD	51.95	23.63	1.268	99.62	.6759	22.28	103.7	9.222
#1	-.0006	.0013	181.8	.0001	516.6	.0002	.0006	.0699
#2	-.0003	.0017	184.1	-.0250	517.5	.0003	.0003	.0726
#3	-.0003	.0011	179.5	-.0129	511.1	.0002	.0000	.0830
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0004	.0000	.0003	.0213	.0004	F.0056	F-.0049
Stddev	.0001	.0020	.003	.0037	.0030	.0015	.0001	.0001
%RSD	106.6	541.2	32080.	1157.	13.88	408.5	1.089	1.622
#1	.0000	-.0022	-.0027	.0045	.0248	.0005	.0056	-.0048
#2	.0002	-.0008	.0000	-.0024	.0198	.0018	.0055	-.0050
#3	.0000	.0018	.0027	-.0012	.0195	-.0012	.0057	-.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit							.0010	.0020
Low Limit							-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 8:26:30 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0011	.0000	-.0005
Stddev	.0012	.000	.0003
%RSD	101.4	930.8	65.49
#1	.0020	-.0002	-.0006
#2	.0016	.0000	-.0008
#3	-.0002	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1383.2	2925.7	21299.	8950.1
Stddev	4.1	3.4	5.	80.4
%RSD	.29779	.11637	.02523	.89820
#1	1387.6	2929.5	21304.	8940.8
#2	1379.4	2924.9	21293.	8874.7
#3	1382.5	2922.8	21301.	9034.7

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 8:34:19 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.072	497.5	1.018	.5385	.5108	472.2	.9409	.4681	.5161	.5812
Stddev	.003	6.6	.006	.0012	.0005	2.1	.0019	.0009	.0026	.0005
%RSD	.2928	1.322	.5829	.2249	.0882	.4511	.2047	.1893	.5120	.0874
#1	1.068	493.0	1.024	.5372	.5108	469.8	.9430	.4690	.5131	.5816
#2	1.073	505.1	1.012	.5396	.5112	473.3	.9405	.4681	.5176	.5806
#3	1.074	494.5	1.017	.5387	.5103	473.7	.9392	.4672	.5177	.5814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.2	-.0203	521.8	.5085	.9602	.0857	.9238	.9568	1.016	1.013
Stddev	.9	.0171	.6	.0019	.0013	.0009	.0015	.0009	.007	.008
%RSD	.4860	84.07	.1074	.3774	.1330	1.072	.1605	.0987	.6739	.8155
#1	185.5	-.0018	522.1	.5065	.9616	.0862	.9254	.9557	1.023	1.021
#2	184.2	-.0354	522.2	.5104	.9599	.0846	.9237	.9574	1.015	1.012
#3	186.0	-.0237	521.2	.5085	.9591	.0861	.9225	.9573	1.009	1.004
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.8842	1.028	1.049	.9515	.5185	.9387
Stddev	.0010	.0009	.003	.001	.0073	.0013	.0024
%RSD	10.13	.0982	.2971	.1298	.7640	.2484	.2584
#1	.0086	.8837	1.026	1.049	.9596	.5170	.9415
#2	.0105	.8852	1.032	1.050	.9456	.5195	.9379
#3	.0098	.8837	1.026	1.047	.9493	.5190	.9368
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 8:34:19 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1353.6	2899.0	21266.	8933.3
Stddev	1.5	1.7	78.	12.6
%RSD	.11239	.05850	.36447	.14090
#1	1353.9	2897.2	21326.	8946.6
#2	1355.0	2899.0	21179.	8921.5
#3	1352.0	2900.6	21294.	8931.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 8:44:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2455	39.31	1.990	2.061	2.036	40.16	2.006	1.985	2.029	2.058
Stddev	.0011	.08	.007	.002	.006	.17	.002	.002	.005	.010
%RSD	.4485	.1912	.3306	.0800	.3133	.4154	.0926	.1161	.2496	.4762
#1	.2451	39.32	1.996	2.060	2.029	39.99	2.008	1.987	2.026	2.049
#2	.2447	39.23	1.990	2.060	2.039	40.17	2.005	1.984	2.027	2.056
#3	.2467	39.38	1.983	2.063	2.041	40.32	2.005	1.983	2.035	2.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.52	40.06	40.04	2.067	1.990	39.98	2.018	1.993	1.990	1.981
Stddev	.08	.07	.06	.009	.001	.05	.001	.007	.003	.006
%RSD	.1975	.1757	.1523	.4136	.0721	.1152	.0662	.3750	.1584	.3192
#1	39.45	39.99	39.99	2.060	1.991	39.94	2.018	1.989	1.992	1.988
#2	39.51	40.05	40.02	2.064	1.990	40.03	2.017	2.001	1.986	1.981
#3	39.60	40.13	40.11	2.076	1.988	39.99	2.019	1.988	1.991	1.975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.012	2.103	2.066	2.067	2.024	2.114	2.016
Stddev	.004	.001	.003	.007	.004	.003	.003
%RSD	.2018	.0466	.1586	.3549	.1724	.1526	.1431
#1	2.017	2.104	2.062	2.060	2.025	2.113	2.013
#2	2.009	2.102	2.066	2.066	2.027	2.111	2.016
#3	2.011	2.104	2.069	2.074	2.021	2.117	2.018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 8:44:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.6	3213.5	23547.	9396.0
Stddev	2.3	6.9	89.	36.7
%RSD	.14713	.21508	.37776	.39072
#1	1591.4	3205.8	23621.	9379.5
#2	1591.1	3215.5	23572.	9438.1
#3	1595.3	3219.2	23448.	9370.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 8:53:32 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0016	-.0002	-.0001	.0000	.0004	.0000	.0000	.0002	.0002
Stddev	.0001	.0034	.0006	.0001	.000	.0001	.000	.0001	.0003	.0001
%RSD	59.69	212.6	286.7	130.0	32.99	34.45	268.1	606.8	154.3	54.34
#1	.0000	.0050	.0001	.0000	.0000	.0006	.0000	-.0001	.0000	.0003
#2	.0002	-.0018	-.0009	-.0001	.0000	.0003	.0000	.0001	.0005	.0003
#3	.0002	.0015	.0002	-.0002	.0000	.0004	.0000	.0000	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0020	.0082	.0000	-.0001	.0027	-.0002	.0005	-.0009	-.0006
Stddev	.0018	.0150	.0128	.000	.0001	.0057	.0002	.0006	.0004	.0019
%RSD	130.3	751.7	155.5	85.33	99.95	207.3	133.1	112.7	46.18	323.1
#1	.0024	-.0134	-.0018	.0000	-.0001	.0084	-.0004	.0006	-.0011	-.0016
#2	.0026	.0150	.0226	.0000	.0000	-.0029	-.0003	-.0001	-.0012	-.0017
#3	-.0007	-.0076	.0039	.0000	-.0002	.0027	.0001	.0010	-.0004	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	-.0001	.0000	-.0002	.0005	.0000	-.0002
Stddev	.0005	.0005	.000	.0001	.0005	.0004	.0000
%RSD	11.06	523.7	33.03	41.38	102.5	1053.	4.597
#1	.0048	-.0003	.0000	-.0001	.0009	-.0004	-.0002
#2	.0038	-.0004	.0000	-.0003	-.0001	.0003	-.0002
#3	.0043	.0005	.0000	-.0002	.0007	.0001	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 8:53:32 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.8	3367.7	24704.	9521.1
Stddev	1.4	16.6	75.	49.0
%RSD	.07270	.49343	.30352	.51432
#1	1904.7	3357.0	24716.	9573.3
#2	1907.4	3359.3	24773.	9513.9
#3	1905.5	3386.8	24624.	9476.2

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/30/2012 9:00:46 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0010	-.0019	-.0001	.0000	.0182	.0000	-.0001	.0008	-.0004
Stddev	.0006	.0015	.0004	.0000	.000	.0005	.000	.0001	.0001	.0002
%RSD	872.3	150.9	23.10	49.67	108.1	3.012	69.95	75.01	14.55	61.53
#1	.0007	-.0028	-.0017	-.0001	.0000	.0186	-.0001	.0000	.0007	-.0004
#2	-.0002	.0001	-.0016	.0000	.0000	.0184	-.0001	-.0001	.0009	-.0006
#3	-.0003	-.0003	-.0024	-.0001	-.0001	.0176	.0000	-.0002	.0008	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309	-.0028	.0032	.0004	.0005	.0189	.0005	.0001	.0004	-.0009
Stddev	.0018	.0082	.0188	.0000	.0001	.0028	.0001	.0011	.0004	.0008
%RSD	5.881	298.9	588.3	6.552	15.17	14.87	21.87	871.3	85.07	92.60
#1	.0328	-.0108	.0144	.0004	.0005	.0211	.0005	.0006	.0005	-.0007
#2	.0293	-.0032	-.0185	.0004	.0004	.0198	.0004	.0009	.0008	-.0001
#3	.0305	.0057	.0137	.0004	.0006	.0157	.0007	-.0011	.0000	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.0150	.0000	-.0001	-.0014	-.0001	.0009
Stddev	.0004	.0004	.0000	.0001	.0004	.0002	.0001
%RSD	1.879	2.874	494.1	106.0	24.92	172.2	13.57
#1	.0225	.0154	.0000	-.0001	-.0011	-.0003	.0008
#2	.0217	.0148	.0000	-.0001	-.0015	-.0002	.0008
#3	.0223	.0146	.0000	.0000	-.0018	.0001	.0010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/30/2012 9:00:46 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1825.5	3228.5	23684.	9168.3
Stddev	11.5	14.0	152.	90.8
%RSD	.63211	.43268	.64059	.99074
#1	1813.6	3212.8	23509.	9090.1
#2	1826.4	3233.4	23756.	9267.9
#3	1836.6	3239.4	23786.	9146.8

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/30/2012 9:05:14 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	27.77	1.981	2.206	.0544	26.36	.0515	.5201	.2153	.2716
Stddev	.0003	.06	.004	.007	.0003	.14	.0001	.0014	.0011	.0012
%RSD	.5424	.2056	.1873	.3283	.4882	.5259	.2413	.2646	.5291	.4539
#1	.0481	27.78	1.979	2.214	.0542	26.31	.0516	.5197	.2147	.2703
#2	.0478	27.72	1.985	2.201	.0543	26.25	.0514	.5190	.2167	.2727
#3	.0483	27.83	1.978	2.203	.0547	26.51	.0516	.5216	.2147	.2719
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.70	26.08	25.62	.5421	.4998	26.14	.5360	.4850	.5063	1.981
Stddev	.09	.10	.17	.0011	.0009	.07	.0007	.0019	.0032	.006
%RSD	.3144	.3975	.6495	.2090	.1900	.2676	.1326	.3832	.6291	.3175
#1	27.68	26.20	25.49	.5414	.4988	26.22	.5357	.4852	.5077	1.979
#2	27.63	26.01	25.55	.5434	.5002	26.10	.5355	.4831	.5086	1.975
#3	27.80	26.04	25.81	.5415	.5005	26.09	.5368	.4868	.5027	1.988
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213	.5244	.5143	.5101	2.007	.5431	.5234
Stddev	.0009	.0009	.0014	.0006	.002	.0017	.0004
%RSD	4.315	.1807	.2680	.1163	.0799	.3121	.0812
#1	.0224	.5236	.5153	.5100	2.007	.5432	.5231
#2	.0207	.5255	.5127	.5108	2.009	.5448	.5232
#3	.0208	.5241	.5149	.5096	2.005	.5414	.5239
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/30/2012 9:05:14 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1617.7	3136.9	23062.	9131.9
Stddev	5.6	10.8	26.	35.2
%RSD	.34593	.34586	.11434	.38549
#1	1612.1	3125.3	23052.	9144.4
#2	1617.7	3138.5	23042.	9159.1
#3	1623.3	3146.8	23092.	9092.1

Zoom In Zoom Out

Sample Name: F95217-1 Acquired: 7/30/2012 9:09:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0020	278.2	.0802	2.194	.0211	1769.	-.0064	.1216	.3716	.2275
Stddev	.0044	.7	.0072	.013	.0005	8.	.0005	.0007	.0026	.0018
%RSD	219.8	.2670	8.951	.5917	2.189	.4304	7.504	.5897	.6870	.7978
#1	.0025	277.6	.0734	2.182	.0211	1762.	-.0069	.1223	.3700	.2296
#2	-.0023	278.0	.0795	2.193	.0206	1768.	-.0060	.1209	.3746	.2265
#3	-.0063	279.0	.0877	2.208	.0216	1777.	-.0063	.1216	.3703	.2265

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	324.6	51.65	292.4	4.306	.0100	51.11	.3445	.1839	-.0125	-.0064
Stddev	1.4	.35	1.7	.005	.0018	.29	.0047	.0052	.0046	.0115
%RSD	.4368	.6800	.5830	.1223	18.35	.5605	1.356	2.853	36.93	179.2
#1	323.1	51.27	290.6	4.301	.0088	50.89	.3470	.1896	-.0126	.0052
#2	324.7	51.72	292.6	4.306	.0121	51.00	.3473	.1792	-.0170	-.0178
#3	325.9	51.96	294.0	4.311	.0091	51.43	.3391	.1828	-.0078	-.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	24.68	.0350	3.663	2.549	.0067	.5670	.9293
Stddev	.01	.0059	.014	.014	.0058	.0019	.0025
%RSD	.0446	16.77	.3877	.5440	87.50	.3279	.2674
#1	24.68	.0284	3.652	2.544	.0090	.5674	.9312
#2	24.69	.0394	3.658	2.538	.0110	.5686	.9301
#3	24.67	.0373	3.679	2.564	.0000	.5650	.9265

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1615.5	3318.5	24305.	9734.9
Stddev	2.3	6.6	45.	28.2
%RSD	.14349	.19896	.18314	.28999
#1	1616.6	3311.7	24356.	9767.5
#2	1617.1	3318.9	24282.	9718.0
#3	1612.9	3324.9	24277.	9719.2

Zoom In Zoom Out

Sample Name: MP23311-D1 Acquired: 7/30/2012 9:13:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	271.9	.0803	3.198	.0224	2017.	-.0060	.1493	.3397	.2354
Stddev	.0027	1.0	.0046	.010	.0004	14.	.0009	.0006	.0025	.0007
%RSD	321.2	.3511	5.690	.3019	2.004	.6730	15.54	.3900	.7344	.3153
#1	.0006	271.0	.0790	3.189	.0225	2011.	-.0053	.1486	.3376	.2352
#2	.0008	272.9	.0853	3.208	.0228	2007.	-.0056	.1494	.3425	.2362
#3	-.0039	271.9	.0764	3.197	.0219	2033.	-.0071	.1498	.3390	.2347

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	321.8	51.17	300.6	5.498	.0092	54.69	.3500	.2037	-.0116	.0065
Stddev	1.5	.44	1.5	.011	.0007	.10	.0042	.0038	.0101	.0044
%RSD	.4771	.8547	.5152	.2030	7.861	.1837	1.202	1.881	87.20	67.55
#1	320.2	51.63	298.8	5.490	.0084	54.61	.3457	.2066	-.0003	.0029
#2	323.2	51.11	301.6	5.494	.0094	54.80	.3502	.1993	-.0199	.0114
#3	322.1	50.76	301.4	5.511	.0098	54.67	.3541	.2051	-.0146	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	34.29	.0328	4.869	2.591	-.0047	.5709	.9757
Stddev	.14	.0079	.018	.006	.0079	.0032	.0030
%RSD	.4212	24.18	.3602	.2147	167.2	.5586	.3116
#1	34.31	.0346	4.856	2.585	-.0085	.5676	.9753
#2	34.13	.0241	4.889	2.594	-.0100	.5740	.9729
#3	34.42	.0397	4.861	2.595	.0044	.5711	.9789

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1596.9	3327.4	24296.	9689.3
Stddev	1.2	7.8	41.	33.6
%RSD	.07320	.23298	.17063	.34719
#1	1598.2	3321.5	24324.	9719.2
#2	1596.6	3336.2	24249.	9652.9
#3	1595.9	3324.5	24316.	9695.8

Zoom In
Zoom Out

Sample Name: MP23311-PS1 Acquired: 7/30/2012 9:18:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0539	283.0	.1854	2.485	.0781	1788.	.0479	.1763	.4229	.3425
Stddev	.0033	.7	.0048	.012	.0001	15.	.0006	.0017	.0014	.0018
%RSD	6.182	.2580	2.599	.4849	.1418	.8502	1.270	.9525	.3360	.5367
#1	.0502	282.3	.1904	2.471	.0781	1771.	.0475	.1762	.4221	.3447
#2	.0567	283.7	.1851	2.494	.0781	1792.	.0476	.1747	.4245	.3415
#3	.0548	283.1	.1808	2.489	.0783	1801.	.0486	.1780	.4220	.3415

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	331.0	62.96	300.2	4.361	.1142	61.11	.4523	.2342	.0974	.1014
Stddev	.7	.38	.9	.011	.0025	.12	.0039	.0025	.0006	.0098
%RSD	.2074	.6087	.3021	.2469	2.185	.1899	.8560	1.051	.6556	9.665
#1	330.3	62.53	301.1	4.365	.1159	61.18	.4496	.2323	.0981	.0903
#2	331.7	63.28	300.2	4.369	.1114	60.98	.4506	.2370	.0970	.1048
#3	330.9	63.07	299.3	4.349	.1155	61.17	.4567	.2334	.0971	.1090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.00	.0795	3.737	2.646	.1096	.6252	1.231
Stddev	.09	.0096	.003	.004	.0022	.0024	.005
%RSD	.3536	12.05	.0696	.1682	2.009	.3811	.3916
#1	25.06	.0690	3.734	2.651	.1070	.6246	1.229
#2	24.90	.0879	3.737	2.645	.1107	.6232	1.229
#3	25.04	.0815	3.739	2.642	.1110	.6278	1.237

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1606.1	3310.6	24307.	9645.1
Stddev	6.2	9.1	69.	40.7
%RSD	.38397	.27627	.28544	.42197
#1	1601.6	3301.0	24281.	9688.1
#2	1613.1	3319.2	24254.	9607.3
#3	1603.5	3311.7	24386.	9639.7

Zoom In
Zoom Out

Sample Name: MP23311-SD1 Acquired: 7/30/2012 9:22:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0065	370.6	.1538	2.940	.0271	2431.	-.0117	.1671	.5173	.3092
Stddev	.0098	.7	.0290	.014	.0022	6.	.0023	.0015	.0146	.0105
%RSD	150.6	.1817	18.86	.4624	8.039	.2590	19.30	.8892	2.816	3.405
#1	.0003	370.7	.1859	2.950	.0277	2424.	-.0092	.1670	.5022	.3198
#2	-.0177	371.3	.1460	2.925	.0246	2434.	-.0126	.1657	.5313	.3092
#3	-.0021	369.9	.1295	2.946	.0289	2435.	-.0134	.1687	.5185	.2987

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	446.5	67.95	392.8	5.887	-.0006	66.27	.4697	.2786	-.0508	.0339
Stddev	.7	.63	1.5	.025	.0050	.31	.0074	.0214	.0268	.1481
%RSD	.1513	.9259	.3717	.4322	818.1	.4673	1.577	7.686	52.82	436.9
#1	445.7	68.61	391.5	5.886	-.0059	65.91	.4693	.2905	-.0796	.0511
#2	446.6	67.86	392.6	5.913	.0000	66.41	.4626	.2539	-.0460	-.1221
#3	447.0	67.36	394.4	5.862	.0040	66.48	.4774	.2914	-.0267	.1727

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	38.05	.0801	4.906	3.500	-.0025	.7549	1.268
Stddev	.08	.0410	.015	.009	.0237	.0127	.002
%RSD	.2219	51.22	.3093	.2610	959.9	1.680	.1538
#1	37.99	.0818	4.903	3.498	-.0100	.7503	1.269
#2	38.01	.1203	4.892	3.510	-.0215	.7451	1.266
#3	38.15	.0383	4.922	3.492	.0241	.7692	1.269

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1768.6	3358.8	24579.	9542.6
Stddev	1.8	5.8	48.	4.9
%RSD	.10343	.17392	.19392	.05136
#1	1768.8	3352.5	24584.	9548.1
#2	1766.7	3364.0	24529.	9540.9
#3	1770.3	3360.0	24623.	9538.8

Zoom In
Zoom Out

Sample Name: MP23311-S1 Acquired: 7/30/2012 9:27:05 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0512	390.6	2.105	5.521	.0821	2324.	.0444	.6647	.6586	.5576
Stddev	.0007	1.2	.008	.022	.0006	21.	.0016	.0041	.0011	.0041
%RSD	1.391	.3062	.3714	.4044	.7077	.8957	3.653	.6093	.1644	.7414
#1	.0520	389.6	2.113	5.498	.0820	2311.	.0443	.6693	.6574	.5538
#2	.0509	390.3	2.097	5.521	.0816	2313.	.0461	.6633	.6594	.5569
#3	.0507	391.9	2.104	5.543	.0827	2348.	.0429	.6616	.6589	.5620

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	426.4	98.03	400.9	6.355	.4300	89.36	.9355	.7727	.1172	2.003
Stddev	2.1	.29	2.2	.026	.0021	.04	.0023	.0062	.0098	.009
%RSD	.4938	.2926	.5515	.4039	.4956	.0431	.2489	.7981	8.318	.4370
#1	424.9	97.93	399.4	6.326	.4279	89.32	.9329	.7790	.1217	1.997
#2	425.6	98.35	399.9	6.363	.4322	89.39	.9362	.7666	.1239	1.999
#3	428.8	97.80	403.5	6.375	.4299	89.38	.9374	.7725	.1060	2.013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.25	.5137	5.981	3.909	2.026	1.257	1.693
Stddev	.02	.0079	.018	.005	.018	.004	.004
%RSD	.0587	1.530	.3091	.1306	.8784	.3580	.2183
#1	29.26	.5225	5.961	3.904	2.037	1.254	1.693
#2	29.23	.5114	5.986	3.910	2.035	1.255	1.696
#3	29.25	.5073	5.997	3.914	2.005	1.262	1.689

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1558.5	3297.3	24108.	9787.4
Stddev	1.7	4.0	80.	45.5
%RSD	.10970	.12045	.33041	.46463
#1	1560.2	3292.9	24196.	9809.2
#2	1556.7	3298.0	24088.	9817.8
#3	1558.6	3300.8	24040.	9735.1

Zoom In
Zoom Out

Sample Name: MP23311-S2 Acquired: 7/30/2012 9:31:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0451	370.9	1.787	5.171	.0735	2227.	.0360	.6160	.5981	.5167
Stddev	.0040	.6	.003	.012	.0003	13.	.0003	.0008	.0060	.0032
%RSD	8.830	.1654	.1433	.2232	.4105	.5669	.8268	.1351	1.011	.6129
#1	.0406	370.7	1.790	5.184	.0737	2224.	.0363	.6170	.5938	.5179
#2	.0481	371.6	1.785	5.167	.0732	2240.	.0359	.6153	.6051	.5192
#3	.0467	370.4	1.786	5.162	.0736	2215.	.0357	.6158	.5956	.5132

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	398.2	89.47	370.3	6.417	.3615	85.95	.8716	.6829	.0801	1.660
Stddev	.5	.38	.5	.018	.0026	.20	.0025	.0069	.0086	.014
%RSD	.1184	.4259	.1272	.2879	.7075	.2335	.2875	1.016	10.68	.8566
#1	397.9	89.55	369.9	6.437	.3591	86.17	.8739	.6889	.0712	1.675
#2	398.7	89.81	370.8	6.414	.3614	85.78	.8689	.6753	.0808	1.646
#3	397.9	89.06	370.1	6.401	.3642	85.89	.8719	.6846	.0882	1.660

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	28.44	.4448	6.235	3.437	1.696	1.123	1.588
Stddev	.02	.0070	.011	.009	.021	.003	.003
%RSD	.0681	1.565	.1783	.2674	1.220	.2489	.1813
#1	28.45	.4421	6.248	3.443	1.693	1.126	1.589
#2	28.42	.4396	6.228	3.440	1.717	1.120	1.591
#3	28.45	.4527	6.230	3.426	1.676	1.123	1.585

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1568.1	3303.3	24265.	9733.8
Stddev	1.1	3.8	49.	34.2
%RSD	.07248	.11541	.20379	.35168
#1	1569.4	3300.5	24224.	9742.6
#2	1567.2	3307.7	24253.	9696.1
#3	1567.7	3301.8	24320.	9762.9

Zoom In Zoom Out

Sample Name: F95217-2 Acquired: 7/30/2012 9:35:53 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	284.6	.0811	3.226	.0226	2124.	-.0061	.1421	.3570	.2392
Stddev	.0009	.6	.0055	.004	.0000	19.	.0004	.0011	.0032	.0014
%RSD	1020.	.2208	6.743	.1093	.1506	.8862	6.318	.7781	.8926	.6052
#1	-.0008	284.5	.0854	3.223	.0226	2103.	-.0059	.1421	.3543	.2401
#2	.0010	285.2	.0749	3.230	.0226	2139.	-.0066	.1409	.3563	.2376
#3	.0000	284.0	.0830	3.224	.0226	2130.	-.0059	.1432	.3605	.2400

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	335.2	54.29	297.8	5.396	.0104	55.36	.3628	.2197	-.0185	.0004
Stddev	2.2	.12	3.4	.007	.0007	.04	.0016	.0062	.0139	.0118
%RSD	.6415	.2155	1.152	.1372	6.763	.0659	.4299	2.803	75.34	2708.
#1	333.4	54.33	294.9	5.388	.0105	55.40	.3634	.2266	-.0165	.0067
#2	337.6	54.15	301.6	5.399	.0097	55.34	.3639	.2147	-.0056	-.0132
#3	334.8	54.37	297.0	5.402	.0111	55.34	.3610	.2178	-.0332	.0078

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.84	.0241	6.015	2.791	-.0054	.6011	.9973
Stddev	.06	.0029	.011	.002	.0080	.0021	.0024
%RSD	.1899	12.08	.1767	.0723	148.3	.3428	.2437
#1	29.78	.0214	6.020	2.791	-.0138	.6016	.9981
#2	29.89	.0272	6.022	2.792	-.0045	.5989	.9946
#3	29.86	.0237	6.002	2.788	.0021	.6029	.9992

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1584.8	3302.8	24195.	9736.6
Stddev	1.4	2.6	46.	78.2
%RSD	.08969	.07774	.19063	.80268
#1	1586.3	3305.6	24159.	9812.2
#2	1583.4	3300.7	24179.	9656.2
#3	1584.8	3302.1	24247.	9741.5

Zoom In Zoom Out

Sample Name: F95217-3 Acquired: 7/30/2012 9:40:20 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	314.5	.0911	4.613	.0250	2715.	-.0077	.1555	.4073	.2574
Stddev	.0046	.3	.0096	.013	.0003	19.	.0006	.0023	.0022	.0010
%RSD	820.7	.1013	10.58	.2900	1.285	.6904	7.273	1.498	.5512	.3765
#1	-.0027	314.1	.0969	4.605	.0248	2732.	-.0071	.1581	.4060	.2564
#2	.0047	314.7	.0965	4.628	.0253	2695.	-.0082	.1543	.4099	.2576
#3	-.0037	314.5	.0800	4.605	.0248	2718.	-.0078	.1539	.4060	.2583

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	387.6	61.71	328.7	6.863	.0115	62.71	.3892	.2558	-.0048	.0024
Stddev	.4	.28	.8	.029	.0008	.16	.0020	.0126	.0169	.0185
%RSD	.1068	.4485	.2582	.4198	7.216	.2597	.5113	4.917	349.4	757.9
#1	387.1	61.88	329.6	6.859	.0125	62.82	.3910	.2682	-.0222	.0228
#2	388.0	61.85	327.9	6.837	.0109	62.79	.3894	.2430	.0115	-.0132
#3	387.6	61.39	328.5	6.894	.0113	62.52	.3871	.2563	-.0038	-.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	35.22	.0332	11.16	3.509	-.0023	.7142	1.102
Stddev	.07	.0049	.02	.003	.0131	.0014	.003
%RSD	.2020	14.67	.1900	.0861	577.4	.1936	.2810
#1	35.29	.0280	11.15	3.505	.0100	.7128	1.102
#2	35.24	.0339	11.18	3.511	-.0008	.7145	1.105
#3	35.15	.0377	11.15	3.510	-.0160	.7155	1.099

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1554.0	3303.9	24133.	9731.2
Stddev	4.8	6.5	53.	26.6
%RSD	.30900	.19683	.21879	.27302
#1	1554.0	3296.8	24078.	9701.2
#2	1549.3	3305.5	24184.	9740.3
#3	1558.9	3309.5	24137.	9751.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 9:44:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	40.05	2.017	2.112	2.078	40.90	2.033	2.008	2.065	2.103
Stddev	.0006	.11	.006	.004	.006	.30	.002	.003	.004	.003
%RSD	.2415	.2651	.3023	.2100	.3047	.7331	.1149	.1680	.1724	.1367
#1	.2501	40.02	2.015	2.113	2.071	40.56	2.032	2.008	2.061	2.103
#2	.2512	40.17	2.024	2.116	2.084	41.02	2.036	2.012	2.066	2.106
#3	.2502	39.97	2.012	2.107	2.079	41.13	2.032	2.005	2.068	2.101
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.14	41.02	40.88	2.101	2.008	40.91	2.048	2.035	2.011	2.008
Stddev	.16	.02	.35	.006	.004	.07	.003	.004	.003	.009
%RSD	.3945	.0537	.8586	.2831	.1995	.1772	.1300	.1904	.1457	.4656
#1	39.96	41.03	40.51	2.094	2.008	40.97	2.045	2.031	2.008	2.017
#2	40.21	41.03	40.91	2.102	2.012	40.93	2.049	2.039	2.014	2.009
#3	40.25	40.99	41.21	2.106	2.005	40.83	2.050	2.034	2.010	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.041	2.159	2.114	2.105	2.071	2.158	2.052
Stddev	.005	.002	.004	.006	.004	.005	.007
%RSD	.2420	.0728	.1707	.2873	.1873	.2384	.3273
#1	2.038	2.158	2.114	2.098	2.076	2.153	2.046
#2	2.047	2.161	2.117	2.107	2.069	2.163	2.050
#3	2.039	2.158	2.110	2.110	2.069	2.157	2.059
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 9:44:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1564.2	3183.2	23240.	9254.2
Stddev	3.8	9.0	65.	66.5
%RSD	.24308	.28227	.27986	.71865
#1	1563.0	3184.3	23298.	9330.4
#2	1561.1	3173.7	23169.	9223.7
#3	1568.4	3191.6	23252.	9208.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 9:48:51 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0061	.0002	.0000	.0001	.0031	.0001	.0001	.0003	.0004
Stddev	.0001	.0081	.0005	.0001	.0000	.0004	.0000	.0001	.0002	.0001
%RSD	23.03	133.1	318.7	201.1	8.880	13.87	34.90	52.04	78.01	24.89
#1	.0005	.0150	-.0004	.0001	.0002	.0036	.0001	.0002	.0001	.0003
#2	.0004	-.0007	.0006	.0001	.0002	.0027	.0001	.0001	.0005	.0004
#3	.0003	.0039	.0003	.0000	.0001	.0030	.0000	.0001	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0007	.0000	.0001	.0003	.0263	.0000	.0001	-.0007	.0015
Stddev	.0040	.0101	.0015	.0000	.0001	.0026	.0001	.0005	.0002	.0015
%RSD	75.32	1521.	15580.	41.69	30.57	9.854	216.6	769.2	36.14	101.8
#1	.0094	.0065	-.0017	.0001	.0004	.0292	.0000	.0005	-.0007	.0019
#2	.0048	.0064	.0011	.0001	.0004	.0252	.0000	-.0005	-.0009	-.0002
#3	.0015	-.0110	.0006	.0002	.0002	.0244	.0001	.0002	-.0004	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.0001	.0001	.0002	.0000	.0001	-.0001
Stddev	.0004	.0003	.0000	.0001	.000	.0002	.0001
%RSD	9.085	226.4	25.35	25.32	24.94	239.7	100.5
#1	.0043	.0000	.0002	.0003	.0000	.0001	-.0001
#2	.0044	-.0001	.0001	.0002	.0000	-.0001	.0000
#3	.0051	.0005	.0001	.0002	-.0001	.0002	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 9:48:51 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.5	3377.9	24631.	9462.4
Stddev	3.5	3.3	93.	42.9
%RSD	.18348	.09894	.37938	.45383
#1	1904.3	3381.6	24669.	9433.6
#2	1898.5	3377.0	24700.	9511.8
#3	1904.8	3375.1	24525.	9441.9

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/30/2012 9:53:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0041	416.2	.0621	1.868	.0158	3.430	-.0071	.0739	.0250
Stddev	.0009	.9	.0021	.011	.0001	.007	.0000	.0015	.0003
%RSD	21.72	.2131	3.311	.5632	.4072	.2110	.5162	1.985	1.145
#1	-.0045	416.9	.0644	1.879	.0159	3.438	-.0071	.0739	.0249
#2	-.0048	415.2	.0605	1.858	.0158	3.425	-.0071	.0725	.0253
#3	-.0031	416.5	.0614	1.868	.0158	3.426	-.0071	.0754	.0247

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2228	301.7	103.1	65.71	12.16	.0033	1.835	.0156	.2074
Stddev	.0017	.5	.2	.33	.06	.0005	.007	.0003	.0018
%RSD	.7739	.1686	.2387	.4970	.4783	15.86	.4083	1.835	.8693
#1	.2209	302.1	103.4	65.38	12.16	.0039	1.842	.0154	.2076
#2	.2241	301.2	102.9	65.70	12.22	.0030	1.828	.0159	.2056
#3	.2236	301.9	103.0	66.03	12.10	.0030	1.836	.0155	.2091

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0075	-.0153	22.14	.0377	.3133	F28.50	-.0173	.3220	1.024
Stddev	.0022	.0059	.01	.0024	.0008	.11	.0026	.0020	.002
%RSD	29.14	38.22	.0532	6.249	.2466	.3870	15.15	.6109	.2229
#1	-.0062	-.0132	22.13	.0385	.3135	28.48	-.0198	.3209	1.024
#2	-.0100	-.0219	22.12	.0351	.3125	28.62	-.0174	.3243	1.026
#3	-.0063	-.0108	22.15	.0396	.3140	28.40	-.0146	.3209	1.022

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1683.0	3840.3	27510.	10895.
Stddev	3.7	6.2	119.	9.
%RSD	.22089	.16191	.43211	.08017
#1	1679.4	3833.7	27484.	10886.
#2	1686.9	3841.1	27406.	10896.
#3	1682.7	3846.0	27640.	10904.

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/30/2012 9:57:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0047	370.4	.0617	1.690	.0140	3.411	-.0068	.0709	.0300
Stddev	.0016	.7	.0029	.003	.0001	.018	.0004	.0005	.0014
%RSD	35.32	.1883	4.773	.1843	.3636	.5165	6.640	.7222	4.625
#1	-.0028	369.6	.0630	1.688	.0141	3.404	-.0068	.0714	.0284
#2	-.0059	370.7	.0637	1.688	.0140	3.431	-.0063	.0708	.0304
#3	-.0053	370.8	.0583	1.693	.0140	3.398	-.0072	.0704	.0311

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2221	288.5	99.51	62.72	11.77	.0039	1.407	.0162	.1856
Stddev	.0014	.7	.32	.36	.07	.0007	.008	.0002	.0009
%RSD	.6155	.2543	.3188	.5740	.5942	19.02	.5692	1.101	.5089
#1	.2228	287.6	99.80	62.41	11.71	.0032	1.413	.0163	.1849
#2	.2230	288.6	99.17	62.63	11.74	.0046	1.398	.0163	.1853
#3	.2206	289.1	99.57	63.11	11.85	.0038	1.412	.0160	.1867

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0100	-.0071	18.89	.0394	.2688	F29.81	-.0182	.3161	.9640
Stddev	.0070	.0113	.02	.0057	.0001	.18	.0072	.0015	.0009
%RSD	69.81	158.3	.1180	14.52	.0315	.5943	39.72	.4795	.0895
#1	-.0179	-.0097	18.87	.0406	.2688	29.69	-.0110	.3157	.9632
#2	-.0076	-.0169	18.91	.0445	.2687	29.73	-.0255	.3178	.9637
#3	-.0046	.0052	18.88	.0332	.2689	30.02	-.0181	.3149	.9649

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1707.0	3856.0	27752.	10951.
Stddev	2.0	.8	102.	21.
%RSD	.11524	.02039	.36874	.18844
#1	1705.4	3856.1	27795.	10975.
#2	1709.2	3856.8	27826.	10941.
#3	1706.5	3855.2	27635.	10937.

Zoom In Zoom Out

Sample Name: MP23310-S1 Acquired: 7/30/2012 10:02:05 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0362	424.1	1.815	3.762	.0648	27.40	.0426	.5476	.2193
Stddev	.0010	.8	.010	.012	.0002	.09	.0005	.0008	.0029
%RSD	2.820	.1808	.5655	.3263	.3651	.3193	1.198	.1479	1.330
#1	.0369	424.8	1.804	3.771	.0648	27.31	.0425	.5485	.2226
#2	.0351	424.2	1.817	3.767	.0646	27.42	.0432	.5475	.2183
#3	.0368	423.3	1.825	3.748	.0650	27.48	.0422	.5469	.2170

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5276	271.2	113.6	79.65	12.78	.3958	25.44	.5049	.7151
Stddev	.0033	.1	.1	.58	.03	.0017	.02	.0020	.0023
%RSD	.6301	.0321	.0632	.7279	.2427	.4269	.0936	.3884	.3242
#1	.5307	271.3	113.6	79.78	12.81	.3945	25.45	.5065	.7145
#2	.5279	271.1	113.7	79.02	12.76	.3951	25.47	.5056	.7177
#3	.5241	271.2	113.5	80.15	12.76	.3977	25.42	.5027	.7132

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1397	1.809	23.72	.4956	.7714	F23.74	2.133	.7702	1.366
Stddev	.0049	.014	.00	.0033	.0009	.05	.008	.0035	.001
%RSD	3.512	.7974	.0170	.6632	.1159	.2168	.3677	.4499	.0401
#1	.1348	1.823	23.71	.4919	.7720	23.79	2.131	.7721	1.365
#2	.1446	1.810	23.72	.4982	.7717	23.75	2.126	.7722	1.366
#3	.1397	1.794	23.72	.4968	.7703	23.69	2.142	.7662	1.366

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1673.5	3875.1	27949.	11136.
Stddev	3.3	6.3	109.	12.
%RSD	.19591	.16307	.38884	.11192
#1	1670.8	3870.9	27834.	11122.
#2	1677.1	3872.2	27964.	11145.
#3	1672.5	3882.4	28050.	11141.

Zoom In Zoom Out

Sample Name: MP23310-S2 Acquired: 7/30/2012 10:06:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0336	397.3	1.526	3.556	.0583	24.19	.0344	.4881	.1993
Stddev	.0013	.5	.002	.016	.0005	.03	.0003	.0008	.0015
%RSD	3.962	.1143	.1024	.4400	.9194	.1304	.9745	.1698	.7701
#1	.0323	397.3	1.525	3.553	.0586	24.23	.0340	.4876	.2007
#2	.0350	397.7	1.527	3.572	.0587	24.19	.0346	.4890	.1994
#3	.0334	396.8	1.528	3.541	.0577	24.16	.0346	.4876	.1977

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4798	305.3	120.7	83.34	13.29	.3251	22.41	.4432	.6533
Stddev	.0034	.6	.1	.30	.01	.0012	.02	.0033	.0034
%RSD	.7102	.2011	.0731	.3619	.0863	.3748	.0999	.7410	.5227
#1	.4833	305.0	120.8	83.00	13.30	.3261	22.43	.4398	.6530
#2	.4794	306.0	120.7	83.58	13.28	.3255	22.43	.4464	.6569
#3	.4765	304.9	120.6	83.45	13.29	.3238	22.39	.4432	.6501

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1088	1.532	17.22	.4246	.6956	F27.84	1.828	.7469	1.399
Stddev	.0009	.012	.01	.0067	.0018	.02	.001	.0037	.003
%RSD	.8326	.7873	.0846	1.589	.2549	.0586	.0587	.4947	.2246
#1	.1088	1.543	17.21	.4206	.6951	27.85	1.829	.7481	1.395
#2	.1079	1.534	17.23	.4324	.6976	27.82	1.827	.7428	1.400
#3	.1097	1.519	17.21	.4207	.6942	27.84	1.828	.7499	1.402

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1676.0	3825.0	27537.	10949.
Stddev	4.0	8.0	74.	22.
%RSD	.24046	.20889	.26984	.20364
#1	1671.4	3816.9	27464.	10923.
#2	1678.1	3825.2	27613.	10959.
#3	1678.6	3832.9	27533.	10964.

Zoom In Zoom Out

Sample Name: MP23310-PS1 Acquired: 7/30/2012 10:10:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0402	421.8	.1478	2.108	.0641	8.666	.0393	.1196	.0715
Stddev	.0016	.9	.0071	.006	.0003	.066	.0003	.0003	.0011
%RSD	4.023	.2153	4.834	.2873	.5329	.7577	.6670	.2893	1.521
#1	.0405	421.0	.1507	2.102	.0638	8.622	.0395	.1193	.0718
#2	.0384	421.5	.1396	2.107	.0640	8.634	.0390	.1200	.0723
#3	.0416	422.8	.1530	2.114	.0645	8.742	.0394	.1196	.0702

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3170	305.5	112.9	70.06	12.20	.0915	10.86	.1069	.2579
Stddev	.0010	1.0	.4	.56	.03	.0011	.04	.0003	.0040
%RSD	.3273	.3377	.3612	.7975	.2306	1.222	.3647	.2536	1.545
#1	.3179	304.6	112.5	69.63	12.17	.0903	10.81	.1068	.2559
#2	.3173	305.2	112.9	69.86	12.22	.0919	10.87	.1067	.2554
#3	.3159	306.6	113.3	70.69	12.20	.0924	10.88	.1072	.2625

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0756	.0839	22.42	.0792	.3639	F28.68	.0918	.3690	1.295
Stddev	.0105	.0016	.04	.0042	.0014	.02	.0022	.0014	.005
%RSD	13.85	1.892	.1805	5.250	.3808	.0682	2.355	.3873	.3765
#1	.0861	.0821	22.44	.0766	.3624	28.68	.0899	.3675	1.291
#2	.0652	.0845	22.38	.0771	.3640	28.70	.0914	.3703	1.293
#3	.0754	.0851	22.46	.0840	.3652	28.66	.0942	.3692	1.300

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1691.8	3859.3	27829.	11074.
Stddev	2.3	5.8	79.	41.
%RSD	.13558	.15079	.28317	.37382
#1	1693.8	3859.6	27810.	11115.
#2	1689.3	3865.0	27761.	11075.
#3	1692.4	3853.4	27916.	11032.

Zoom In Zoom Out

Sample Name: MP23310-SD1 Acquired: 7/30/2012 10:14:47 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0102	464.8	.0810	2.095	.0170	3.174	-.0082	.0885	.0390	.2485
Stddev	.0025	.2	.0109	.018	.0007	.061	.0018	.0042	.0025	.0027
%RSD	24.39	.0449	13.41	.8408	3.994	1.923	22.16	4.697	6.513	1.077
#1	.0117	464.7	.0817	2.102	.0170	3.105	-.0082	.0839	.0384	.2509
#2	.0117	465.1	.0915	2.109	.0177	3.198	-.0064	.0920	.0419	.2490
#3	.0074	464.7	.0698	2.075	.0163	3.220	-.0100	.0896	.0369	.2456

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	344.0	114.5	72.97	13.66	-.0023	1.253	.0114	.2077	-.0331	-.0037
Stddev	.9	.8	.37	.09	.0025	.136	.0060	.0113	.0024	.0171
%RSD	.2559	.7089	.5056	.6421	105.1	10.83	52.70	5.455	7.387	458.6
#1	343.8	114.2	72.92	13.56	-.0023	1.203	.0159	.1971	-.0352	-.0084
#2	343.2	115.4	72.63	13.69	-.0049	1.149	.0046	.2064	-.0304	.0152
#3	345.0	113.8	73.36	13.73	.0001	1.407	.0137	.2197	-.0336	-.0180

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	38.66	.0456	.3467	32.28	-.0151	.3529	1.140
Stddev	.29	.0118	.0004	.07	.0288	.0031	.002
%RSD	.7594	26.00	.1281	.2058	191.1	.8914	.1807
#1	38.53	.0524	.3462	32.21	.0120	.3512	1.140
#2	39.00	.0524	.3470	32.30	-.0453	.3566	1.142
#3	38.46	.0319	.3469	32.34	-.0119	.3511	1.138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1832.9	3524.1	25626.	9899.7
Stddev	6.3	18.8	63.	32.0
%RSD	.34143	.53304	.24694	.32350
#1	1829.4	3511.4	25698.	9875.1
#2	1829.1	3515.3	25601.	9935.9
#3	1840.1	3545.7	25580.	9888.1

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/30/2012 10:19:08 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0024	251.8	.0535	1.550	.0120	8.592	-.0061	.0595	.0328
Stddev	.0006	.5	.0045	.002	.0001	.030	.0003	.0005	.0011
%RSD	24.33	.2116	8.332	.1206	1.049	.3520	5.279	.8203	3.337
#1	-.0026	252.1	.0497	1.553	.0119	8.558	-.0058	.0594	.0332
#2	-.0030	251.2	.0524	1.549	.0121	8.617	-.0063	.0600	.0337
#3	-.0018	252.1	.0585	1.550	.0121	8.602	-.0063	.0591	.0316

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0974	260.6	99.83	62.92	8.313	.0018	1.562	.0172	.0647
Stddev	.0015	.2	.32	.43	.039	.0002	.020	.0008	.0030
%RSD	1.505	.0939	.3235	.6887	.4629	11.29	1.298	4.642	4.671
#1	.0962	260.3	99.82	62.43	8.289	.0016	1.582	.0180	.0640
#2	.0990	260.8	99.52	63.07	8.292	.0019	1.541	.0172	.0620
#3	.0969	260.7	100.2	63.26	8.357	.0020	1.562	.0164	.0680

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0125	-.0027	17.03	.0285	.3301	F26.32	-.0113	.2756	.8837
Stddev	.0030	.0092	.02	.0017	.0005	.08	.0035	.0006	.0010
%RSD	24.32	347.7	.0912	5.873	.1572	.2854	30.69	.2226	.1185
#1	-.0090	-.0029	17.02	.0303	.3307	26.26	-.0092	.2759	.8826
#2	-.0144	-.0118	17.05	.0270	.3297	26.31	-.0094	.2749	.8847
#3	-.0142	.0067	17.04	.0283	.3298	26.41	-.0153	.2760	.8838

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1706.7	4020.7	29378.	11536.
Stddev	2.4	5.8	61.	29.
%RSD	.14149	.14519	.20841	.25249
#1	1705.0	4016.0	29434.	11502.
#2	1709.4	4018.9	29389.	11553.
#3	1705.6	4027.3	29312.	11552.

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/30/2012 10:23:27 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0073	1266.	.0722	1.540	.0110	2.260	-.0103	.0564	.1659
Stddev	.0018	7.	.0031	.005	.0001	.007	.0003	.0003	.0011
%RSD	24.53	.5621	4.329	.3516	1.283	.3189	3.242	.6039	.6923
#1	-.0093	1259.	.0757	1.534	.0111	2.252	-.0101	.0563	.1647
#2	-.0063	1266.	.0707	1.544	.0110	2.263	-.0107	.0561	.1669
#3	-.0062	1274.	.0700	1.542	.0109	2.266	-.0101	.0568	.1661

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1844	532.2	48.95	48.67	5.095	.0082	1.006	.0881	.3785
Stddev	.0015	2.4	.17	.32	.020	.0003	.014	.0017	.0042
%RSD	.8227	.4505	.3413	.6535	.3975	4.161	1.399	1.955	1.104
#1	.1830	529.4	48.77	48.30	5.105	.0086	.9946	.0861	.3815
#2	.1860	533.8	49.00	48.83	5.071	.0080	1.001	.0890	.3737
#3	.1843	533.4	49.09	48.87	5.107	.0080	1.022	.0892	.3803

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0109	.0031	22.68	.0500	.0814	F16.67	-.0205	.7221	.8365
Stddev	.0080	.0121	.01	.0054	.0003	.05	.0051	.0038	.0022
%RSD	73.00	384.1	.0270	10.85	.3714	.2817	24.77	.5277	.2602
#1	-.0096	.0087	22.67	.0475	.0810	16.69	-.0148	.7221	.8355
#2	-.0037	.0114	22.68	.0562	.0815	16.61	-.0225	.7183	.8350
#3	-.0195	-.0107	22.68	.0462	.0816	16.70	-.0243	.7259	.8390

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1620.4	3883.1	27283.	11267.
Stddev	2.4	7.9	95.	20.
%RSD	.14653	.20453	.35001	.17867
#1	1617.7	3875.4	27179.	11288.
#2	1621.9	3882.6	27366.	11265.
#3	1621.8	3891.3	27303.	11248.

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/30/2012 10:27:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0055	703.2	.0515	2.167	.0148	3.490	-.0068	.0729	.0840
Stddev	.0005	.6	.0041	.004	.0000	.016	.0004	.0006	.0005
%RSD	8.595	.0795	8.038	.1692	.0882	.4485	5.559	.8039	.5508
#1	-.0060	702.9	.0529	2.168	.0148	3.476	-.0071	.0723	.0841
#2	-.0051	703.8	.0547	2.170	.0148	3.487	-.0063	.0735	.0835
#3	-.0055	702.8	.0468	2.163	.0148	3.507	-.0068	.0728	.0844

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0811	298.5	70.64	51.03	6.256	.0029	1.386	.0477	.1914
Stddev	.0007	.3	.06	.08	.006	.0003	.015	.0006	.0033
%RSD	.9065	.0916	.0848	.1627	.0920	9.311	1.070	1.193	1.722
#1	.0815	298.7	70.67	50.94	6.252	.0033	1.376	.0480	.1876
#2	.0816	298.7	70.68	51.10	6.262	.0028	1.403	.0470	.1937
#3	.0803	298.2	70.57	51.04	6.253	.0028	1.379	.0480	.1928

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0143	-.0047	22.49	.0432	.0942	F21.87	-.0243	.3645	.8128
Stddev	.0052	.0247	.06	.0001	.0003	.01	.0023	.0013	.0043
%RSD	36.44	526.4	.2480	.3133	.2951	.0285	9.652	.3571	.5332
#1	-.0160	.0199	22.47	.0431	.0943	21.86	-.0219	.3648	.8177
#2	-.0185	-.0046	22.56	.0431	.0939	21.87	-.0266	.3657	.8115
#3	-.0085	-.0294	22.46	.0433	.0944	21.87	-.0244	.3631	.8093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1684.4	3789.4	27120.	10852.
Stddev	1.0	5.7	48.	29.
%RSD	.06032	.15076	.17577	.26547
#1	1685.3	3788.3	27067.	10825.
#2	1684.6	3784.3	27159.	10850.
#3	1683.3	3795.5	27133.	10882.

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/30/2012 10:32:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0034	1304.	.0706	1.559	.0122	3.740	-.0095	.0626	.1803
Stddev	.0014	23.	.0043	.008	.0002	.026	.0009	.0004	.0008
%RSD	41.27	1.740	6.113	.5367	1.296	.7016	9.964	.6631	.4339
#1	-.0030	1279.	.0752	1.552	.0121	3.714	-.0085	.0625	.1806
#2	-.0023	1309.	.0698	1.568	.0123	3.740	-.0104	.0622	.1808
#3	-.0050	1324.	.0667	1.555	.0121	3.766	-.0097	.0630	.1794

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2540	538.8	54.87	57.41	6.019	.0109	1.058	.1079	.3354
Stddev	.0011	3.6	.23	.38	.010	.0013	.010	.0003	.0110
%RSD	.4274	.6760	.4127	.6693	.1686	12.05	.9650	.2921	3.278
#1	.2540	534.7	54.63	57.07	6.009	.0094	1.046	.1076	.3227
#2	.2551	541.4	55.08	57.35	6.029	.0120	1.066	.1079	.3415
#3	.2529	540.5	54.90	57.83	6.018	.0113	1.060	.1082	.3419

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0085	.0084	24.09	.0426	.0875	F17.02	-.0090	.7146	.9461
Stddev	.0047	.0083	.03	.0051	.0003	.00	.0062	.0010	.0019
%RSD	55.14	98.67	.1172	12.02	.3373	.0261	68.70	.1354	.1979
#1	-.0133	-.0010	24.09	.0464	.0872	17.02	-.0130	.7153	.9454
#2	-.0083	.0149	24.07	.0368	.0877	17.02	-.0019	.7135	.9448
#3	-.0039	.0113	24.12	.0446	.0877	17.02	-.0122	.7149	.9483

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1620.2	3818.5	26751.	11093.
Stddev	5.5	5.3	21.	73.
%RSD	.33958	.13755	.07926	.66011
#1	1620.4	3818.2	26727.	11175.
#2	1614.5	3813.4	26765.	11071.
#3	1625.5	3823.9	26761.	11033.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:36:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2472	39.40	2.004	2.058	2.043	40.45	2.018	1.997	2.029	2.067
Stddev	.0010	.08	.011	.009	.003	.07	.003	.004	.008	.007
%RSD	.3973	.1981	.5228	.4506	.1476	.1647	.1557	.1868	.3767	.3403
#1	.2466	39.47	2.016	2.069	2.046	40.42	2.021	2.001	2.028	2.060
#2	.2466	39.32	2.000	2.053	2.040	40.41	2.015	1.996	2.038	2.066
#3	.2483	39.42	1.995	2.053	2.044	40.53	2.018	1.993	2.023	2.074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.34	40.56	40.02	2.049	1.995	40.50	2.032	2.015	2.000	1.996
Stddev	.05	.00	.12	.008	.004	.03	.003	.007	.002	.005
%RSD	.1319	.0081	.2892	.3953	.1791	.0690	.1545	.3616	.1096	.2692
#1	39.39	40.57	40.01	2.050	1.999	40.48	2.032	2.010	2.003	2.000
#2	39.29	40.56	39.91	2.057	1.993	40.48	2.029	2.012	1.998	1.998
#3	39.34	40.57	40.14	2.041	1.993	40.53	2.035	2.024	2.000	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031	2.126	2.082	2.064	2.051	2.130	2.032
Stddev	.006	.006	.001	.006	.008	.002	.003
%RSD	.3136	.3078	.0494	.3105	.3787	.1113	.1231
#1	2.039	2.119	2.083	2.061	2.049	2.130	2.031
#2	2.028	2.127	2.081	2.072	2.044	2.133	2.031
#3	2.027	2.132	2.082	2.060	2.059	2.128	2.035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:36:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1584.5	3216.5	23748.	9491.6
Stddev	3.0	4.1	71.	17.3
%RSD	.18794	.12655	.29843	.18198
#1	1586.0	3211.9	23755.	9471.8
#2	1586.5	3218.7	23673.	9502.8
#3	1581.1	3219.1	23815.	9500.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:40:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0024	.0004	.0001	.0002	.0043	.0001	.0002	.0006	.0005
Stddev	.0001	.0030	.0008	.0000	.0000	.0020	.0000	.0001	.0001	.0001
%RSD	84.43	124.4	215.8	2.984	15.48	47.01	18.65	26.27	16.12	21.18
#1	.0003	.0056	.0012	.0001	.0002	.0049	.0001	.0003	.0005	.0004
#2	.0001	.0016	-.0003	.0001	.0002	.0059	.0002	.0002	.0006	.0005
#3	.0001	-.0001	.0001	.0001	.0002	.0020	.0001	.0002	.0007	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0036	.0038	.0002	.0005	.0034	.0001	.0002	-.0014	-.0004
Stddev	.0043	.0068	.0073	.0000	.0001	.0078	.0002	.0007	.0011	.0018
%RSD	97.30	189.9	193.9	2.826	29.73	231.0	313.7	361.7	83.18	503.1
#1	.0091	.0113	.0086	.0002	.0005	.0100	-.0002	-.0002	-.0001	.0004
#2	.0033	-.0013	-.0046	.0002	.0006	-.0052	.0001	.0010	-.0016	.0009
#3	.0007	.0007	.0073	.0002	.0003	.0052	.0003	-.0002	-.0024	-.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056	.0001	.0002	.0005	.0011	.0003	.0001
Stddev	.0003	.0003	.0000	.0000	.0008	.0002	.0000
%RSD	5.211	200.6	14.07	9.873	79.02	78.79	57.01
#1	.0054	-.0001	.0002	.0005	.0019	.0006	.0000
#2	.0055	.0004	.0003	.0004	.0002	.0002	.0001
#3	.0060	.0001	.0002	.0005	.0011	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:40:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1913.2	3387.5	24783.	9564.6
Stddev	3.2	1.9	86.	19.2
%RSD	.16512	.05519	.34725	.20116
#1	1911.2	3387.1	24744.	9542.4
#2	1916.8	3389.6	24723.	9575.9
#3	1911.6	3385.9	24881.	9575.4

Zoom In
Zoom Out

Sample Name: F95220-6 Acquired: 7/30/2012 10:45:03 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0015	1223.	.0859	.7972	.0074	17.91	-.0105	.0310	.2818	.1159
Stddev	.0013	1.	.0082	.0079	.0002	.06	.0003	.0003	.0019	.0011
%RSD	87.46	.0411	9.594	.9904	2.390	.3427	3.225	.8130	.6586	.9911
#1	-.0003	1223.	.0854	.7983	.0072	17.84	-.0104	.0313	.2816	.1169
#2	-.0029	1222.	.0944	.8046	.0074	17.93	-.0101	.0308	.2837	.1147
#3	-.0013	1223.	.0779	.7889	.0076	17.96	-.0108	.0309	.2800	.1163

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	597.2	17.86	15.73	1.376	.0135	1.140	.1005	.3036	.0021	.0157
Stddev	1.3	.12	.14	.003	.0008	.005	.0005	.0011	.0060	.0082
%RSD	.2185	.6469	.8994	.2186	5.832	.4403	.4889	.3687	285.3	52.52
#1	596.8	17.98	15.58	1.375	.0133	1.146	.0999	.3048	.0056	.0182
#2	598.6	17.84	15.74	1.379	.0128	1.136	.1007	.3034	.0056	.0065
#3	596.1	17.75	15.86	1.373	.0143	1.139	.1008	.3025	-.0048	.0224

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	32.00	.0504	.0907	5.655	-.0092	.8989	.3853
Stddev	.03	.0027	.0005	.004	.0018	.0057	.0003
%RSD	.1061	5.352	.5636	.0744	19.86	.6311	.0725
#1	31.99	.0479	.0902	5.659	-.0111	.9008	.3852
#2	32.03	.0500	.0913	5.657	-.0091	.9034	.3851
#3	31.96	.0532	.0906	5.651	-.0074	.8925	.3856

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1644.5	3435.2	24177.	9906.6
Stddev	6.8	4.4	49.	35.0
%RSD	.41132	.12715	.20162	.35306
#1	1638.2	3432.6	24163.	9882.8
#2	1643.6	3432.8	24136.	9890.2
#3	1651.6	3440.2	24231.	9946.8

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/30/2012 10:49:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	588.5	.0392	6.895	.0235	4.731	-.0074	.2768	.2672	.0615
Stddev	.0026	1.0	.0103	.017	.0003	.033	.0006	.0025	.0025	.0011
%RSD	233.9	.1724	26.27	.2446	1.110	.7061	7.963	.9091	.9178	1.806
#1	.0003	589.6	.0387	6.913	.0233	4.768	-.0072	.2797	.2646	.0603
#2	-.0041	587.7	.0497	6.879	.0237	4.703	-.0080	.2752	.2676	.0624
#3	.0005	588.1	.0292	6.895	.0236	4.722	-.0069	.2756	.2694	.0618

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	364.8	9.560	17.50	2.779	-.0008	3.108	1.833	.1268	-.0116	-.0039
Stddev	.7	.097	.08	.011	.0017	.031	.004	.0037	.0055	.0055
%RSD	.1981	1.014	.4493	.4060	214.6	1.003	.1920	2.889	47.46	141.6
#1	365.6	9.448	17.48	2.766	.0006	3.100	1.829	.1243	-.0142	.0011
#2	364.1	9.613	17.58	2.782	-.0002	3.081	1.834	.1251	-.0053	-.0099
#3	364.6	9.618	17.43	2.788	-.0028	3.142	1.836	.1310	-.0154	-.0029

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	21.45	.0441	.0306	4.812	-.0109	.7236	.7363
Stddev	.05	.0011	.0004	.011	.0036	.0036	.0026
%RSD	.2101	2.404	1.151	.2234	33.00	.4977	.3559
#1	21.49	.0451	.0303	4.801	-.0141	.7201	.7347
#2	21.40	.0443	.0306	4.814	-.0070	.7233	.7350
#3	21.47	.0430	.0310	4.822	-.0115	.7273	.7394

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1779.0	3982.5	28722.	11131.
Stddev	2.5	11.0	84.	76.
%RSD	.13784	.27520	.29247	.68407
#1	1776.8	3970.1	28806.	11043.
#2	1781.7	3991.0	28638.	11182.
#3	1778.5	3986.3	28721.	11167.

Zoom In
Zoom Out

Sample Name: F95281-2 Acquired: 7/30/2012 10:53:49 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0043	312.1	.0631	2.071	.0185	10.13	-.0067	.1084	.2877	.3662
Stddev	.0023	1.0	.0035	.012	.0000	.05	.0004	.0005	.0039	.0013
%RSD	54.34	.3292	5.471	.5901	.1659	.5031	6.343	.4869	1.354	.3508
#1	-.0069	311.4	.0657	2.066	.0185	10.18	-.0066	.1088	.2872	.3651
#2	-.0031	311.7	.0592	2.062	.0185	10.08	-.0063	.1086	.2918	.3658
#3	-.0027	313.3	.0644	2.085	.0184	10.15	-.0071	.1078	.2840	.3676

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	425.6	45.85	65.18	2.252	.0004	3.970	.2411	.4755	-.0085	-.0064
Stddev	1.3	.26	.14	.009	.0002	.025	.0015	.0014	.0017	.0056
%RSD	.3137	.5600	.2133	.4035	44.22	.6231	.6313	.2847	19.91	87.84
#1	425.2	45.83	65.06	2.263	.0003	3.964	.2422	.4755	-.0091	-.0123
#2	424.4	45.61	65.14	2.248	.0006	3.948	.2394	.4741	-.0098	-.0059
#3	427.0	46.12	65.33	2.246	.0003	3.997	.2418	.4768	-.0066	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	26.18	.0265	.3406	3.896	-.0175	.5939	1.076
Stddev	.04	.0057	.0015	.003	.0055	.0038	.001
%RSD	.1558	21.40	.4357	.0759	31.19	.6359	.0908
#1	26.23	.0296	.3399	3.896	-.0112	.5922	1.077
#2	26.15	.0300	.3396	3.894	-.0211	.5914	1.075
#3	26.17	.0200	.3423	3.899	-.0203	.5983	1.076

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1703.3	3951.8	28790.	11312.
Stddev	3.3	8.4	49.	30.
%RSD	.19487	.21182	.16858	.26288
#1	1703.0	3943.3	28734.	11290.
#2	1706.7	3951.9	28814.	11346.
#3	1700.1	3960.1	28822.	11301.

Zoom In
Zoom Out

Sample Name: F95281-3 Acquired: 7/30/2012 10:58:04 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0069	241.8	.1243	5.398	.0853	56.56	-.0053	.1819	.2024	.5201
Stddev	.0027	.7	.0056	.016	.0004	.53	.0001	.0008	.0024	.0036
%RSD	38.48	.2955	4.523	.2912	.4715	.9382	2.508	.4523	1.162	.6893
#1	-.0100	241.7	.1186	5.382	.0851	56.37	-.0054	.1828	.2049	.5165
#2	-.0057	241.2	.1298	5.399	.0850	56.16	-.0052	.1812	.2020	.5202
#3	-.0052	242.6	.1244	5.414	.0857	57.16	-.0054	.1816	.2003	.5237

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	335.0	62.70	99.85	4.252	-.0007	5.716	.4268	.2300	-.0204	-.0070
Stddev	1.8	.19	.90	.011	.0008	.019	.0014	.0053	.0009	.0077
%RSD	.5295	.2995	.9025	.2560	113.7	.3266	.3392	2.294	4.560	109.2
#1	334.5	62.52	98.98	4.264	-.0006	5.720	.4261	.2250	-.0194	-.0071
#2	333.6	62.89	99.77	4.243	-.0016	5.696	.4259	.2294	-.0212	.0007
#3	337.0	62.69	100.8	4.249	.0000	5.733	.4285	.2355	-.0207	-.0147

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.54	.0267	1.054	3.395	-.0145	.4400	1.586
Stddev	.06	.0043	.002	.003	.0105	.0046	.005
%RSD	.2204	16.13	.2217	.0894	72.53	1.054	.3399
#1	25.56	.0247	1.051	3.398	-.0097	.4352	1.588
#2	25.58	.0316	1.054	3.395	-.0266	.4444	1.589
#3	25.47	.0237	1.056	3.392	-.0073	.4404	1.580

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1763.3	4301.8	31466.	12267.
Stddev	1.5	8.1	57.	70.
%RSD	.08376	.18839	.18115	.56912
#1	1761.6	4293.1	31409.	12269.
#2	1764.3	4303.3	31465.	12336.
#3	1764.0	4309.1	31523.	12197.

Zoom In
Zoom Out

Sample Name: F95207-1 Acquired: 7/30/2012 11:02:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0032	.2888	-.0883	.0233	-.0075	456.2	-.0093	-.0111	-.0019
Stddev	.0758	1.069	.1286	.0096	.0059	2.2	.0066	.0119	.0324
%RSD	2367.	370.2	145.6	41.20	78.20	.4925	71.25	107.0	1743.
#1	.0035	-.9005	-.1944	.0252	-.0093	456.1	-.0164	-.0104	-.0380
#2	-.0728	1.170	-.1252	.0129	-.0122	454.1	-.0034	.0004	.0245
#3	.0788	.5965	.0547	.0318	-.0009	458.6	-.0079	-.0234	.0079

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0912	-.3623	433.6	1368.	-.0120	-.0352	11720.	-.0510	-.0822
Stddev	.0050	.2870	2.7	6.	.0048	.0337	12.	.0212	.1234
%RSD	5.531	79.24	.6331	.4512	40.51	95.64	.1057	41.51	150.2
#1	.0861	-.1079	435.4	1361.	-.0075	-.0008	11730.	-.0381	.0029
#2	.0912	-.3054	434.9	1370.	-.0171	-.0367	11700.	-.0395	-.2237
#3	.0962	-.6735	430.4	1373.	-.0112	-.0681	11720.	-.0755	-.0256

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.2063	.2525	1.350	-.0499	8.404	-.0584	.0800	-.0435	-.0159
Stddev	.0428	.1785	.198	.0379	.041	.0087	.1903	.0100	.0119
%RSD	20.73	70.70	14.68	75.98	.4881	14.84	238.0	23.06	74.99
#1	-.2517	.0747	1.124	-.0246	8.372	-.0484	.0961	-.0443	-.0097
#2	-.1669	.4317	1.496	-.0934	8.390	-.0637	-.1180	-.0531	-.0296
#3	-.2002	.2512	1.430	-.0316	8.450	-.0632	.2617	-.0331	-.0083

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1735.0	3277.8	23910.	9488.3
Stddev	4.6	3.3	30.	56.7
%RSD	.26334	.10083	.12754	.59713
#1	1732.4	3280.7	23876.	9545.8
#2	1732.3	3274.2	23916.	9486.6
#3	1740.3	3278.5	23936.	9432.5

Zoom In
Zoom Out

Sample Name: MP23300-D1 Acquired: 7/30/2012 11:06:49 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0495	-.3079	-.1423	-.0173	-.0077	428.2	.0012	-.0085	.0324
Stddev	.0235	.3789	.0728	.0119	.0028	1.1	.0069	.0040	.0476
%RSD	47.46	123.0	51.12	68.92	35.99	.2467	570.6	47.05	146.8
#1	.0764	-.0780	-.2021	-.0310	-.0048	428.0	-.0044	-.0045	.0150
#2	.0326	-.1006	-.0613	-.0100	-.0103	429.4	.0090	-.0125	-.0040
#3	.0396	-.7452	-.1636	-.0108	-.0078	427.3	-.0009	-.0083	.0862

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1018	-2.134	400.1	1286.	-.0019	-.0418	10940.	-.0061	-.0294
Stddev	.0407	.278	.4	5.	.0050	.0066	11.	.0151	.0649
%RSD	39.95	13.04	.1097	.3839	271.8	15.79	.1037	248.2	220.8
#1	.1488	-2.041	399.9	1280.	-.0029	-.0360	10930.	.0107	-.0382
#2	.0777	-2.446	399.7	1288.	-.0063	-.0405	10950.	-.0185	-.0894
#3	.0790	-1.914	400.6	1289.	.0036	-.0490	10950.	-.0105	.0395

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4064	.0107	1.352	.0346	7.895	-.0692	.1713	-.0082	.0619
Stddev	.1889	.1082	.069	.1217	.051	.0107	.1566	.0228	.0113
%RSD	46.49	1013.	5.101	352.1	.6392	15.39	91.42	278.4	18.35
#1	-.4928	.0195	1.376	-.0750	7.852	-.0571	.3326	-.0181	.0488
#2	-.1897	-.1017	1.407	.0132	7.883	-.0736	.0199	-.0243	.0695
#3	-.5366	.1142	1.275	.1655	7.951	-.0770	.1614	.0179	.0672

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1741.0	3276.2	23880.	9437.5
Stddev	2.4	5.2	37.	5.1
%RSD	.14008	.15970	.15332	.05444
#1	1738.4	3270.8	23862.	9431.7
#2	1741.4	3281.3	23857.	9439.2
#3	1743.2	3276.6	23923.	9441.6

Zoom In
Zoom Out

Sample Name: MP23300-S1 Acquired: 7/30/2012 11:11:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1520	26.79	2.061	2.276	.0402	456.0	.0438	.5423	.2380
Stddev	.0140	.69	.278	.007	.0079	3.8	.0075	.0141	.0367
%RSD	9.197	2.565	13.47	.3020	19.70	.8319	17.14	2.605	15.42
#1	.1681	26.82	1.795	2.283	.0389	458.2	.0373	.5567	.2719
#2	.1446	27.46	2.038	2.270	.0331	451.6	.0520	.5417	.2431
#3	.1432	26.08	2.349	2.274	.0488	458.2	.0421	.5284	.1990

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3633	25.63	430.9	1317.	.5607	.4781	11020.	.5186	.4086
Stddev	.0237	.45	1.8	11.	.0064	.0146	27.	.0449	.1001
%RSD	6.525	1.750	.4142	.8341	1.137	3.049	.2481	8.661	24.51
#1	.3816	25.12	431.3	1320.	.5536	.4852	11020.	.5185	.5242
#2	.3719	25.92	429.0	1305.	.5625	.4614	10990.	.4737	.3525
#3	.3365	25.86	432.5	1326.	.5660	.4879	11050.	.5635	.3490

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2763	2.093	1.138	.5753	8.485	.4553	2.229	.5325	.5789
Stddev	.1076	.402	.062	.0742	.016	.0101	.029	.0390	.0024
%RSD	38.94	19.20	5.438	12.90	.1822	2.216	1.317	7.329	.4225
#1	.2473	2.049	1.081	.5087	8.476	.4667	2.207	.5693	.5767
#2	.1862	1.715	1.130	.5619	8.503	.4513	2.219	.4916	.5783
#3	.3955	2.515	1.204	.6554	8.476	.4478	2.262	.5365	.5815

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1738.1	3277.0	23844.	9462.8
Stddev	1.6	3.2	59.	58.7
%RSD	.08989	.09647	.24937	.62077
#1	1736.5	3273.4	23867.	9432.2
#2	1738.3	3278.8	23777.	9530.5
#3	1739.6	3278.9	23889.	9425.6

Zoom In
Zoom Out

Sample Name: MP23300-S2 Acquired: 7/30/2012 11:15:43 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1320	28.68	2.248	2.324	.0465	473.6	.0472	.5557	.2953
Stddev	.0332	.36	.147	.030	.0055	.7	.0037	.0126	.0478
%RSD	25.14	1.265	6.542	1.311	11.90	.1576	7.902	2.275	16.18
#1	.1577	28.31	2.388	2.336	.0449	472.8	.0434	.5419	.2453
#2	.0945	28.71	2.261	2.289	.0526	474.3	.0509	.5584	.3405
#3	.1437	29.03	2.095	2.346	.0419	473.7	.0473	.5667	.3002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3786	27.61	453.1	1365.	.5809	.5083	11420.	.5417	.6342
Stddev	.0277	.53	1.7	6.	.0070	.0191	19.	.0104	.1841
%RSD	7.309	1.908	.3789	.4629	1.206	3.766	.1681	1.925	29.03
#1	.3839	27.24	452.7	1358.	.5733	.4868	11410.	.5313	.4555
#2	.4032	28.21	451.6	1365.	.5870	.5144	11430.	.5522	.6239
#3	.3486	27.38	455.0	1371.	.5825	.5236	11400.	.5416	.8233

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2244	2.431	1.248	.5179	8.776	.4918	2.088	.5686	.5897
Stddev	.0823	.154	.146	.0900	.021	.0254	.133	.0480	.0141
%RSD	36.66	6.332	11.68	17.38	.2345	5.161	6.369	8.439	2.399
#1	.2895	2.414	1.402	.5033	8.798	.4678	1.979	.6193	.6056
#2	.1320	2.592	1.232	.6143	8.757	.5184	2.050	.5625	.5784
#3	.2517	2.285	1.111	.4361	8.773	.4891	2.236	.5239	.5851

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.5	3272.8	23854.	9474.4
Stddev	3.3	5.0	119.	2.5
%RSD	.18807	.15306	.49970	.02662
#1	1727.8	3267.8	23870.	9473.4
#2	1733.1	3272.7	23728.	9477.3
#3	1733.7	3277.9	23965.	9472.7

Zoom In Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/30/2012 11:20:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0882	3.957	.0959	.5436	.0995	459.2	.1056	.1097	.1320
Stddev	.0110	.224	.1702	.0104	.0028	1.8	.0043	.0103	.0418
%RSD	12.43	5.659	177.5	1.920	2.795	.3858	4.074	9.369	31.67
#1	.0959	4.209	.2889	.5548	.0993	457.2	.1105	.1001	.1745
#2	.0757	3.781	-.0323	.5419	.0967	460.5	.1038	.1206	.1305
#3	.0931	3.880	.0310	.5342	.1023	459.8	.1025	.1084	.0909

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3094	3.719	438.8	1339.	.1144	.1716	11360.	.1812	.0924
Stddev	.0119	.184	1.1	5.	.0015	.0293	14.	.0392	.0333
%RSD	3.854	4.953	.2434	.3478	1.300	17.08	.1201	21.62	36.01
#1	.2963	3.540	439.9	1336.	.1153	.1378	11370.	.2093	.1284
#2	.3121	3.710	438.7	1336.	.1153	.1890	11360.	.1978	.0626
#3	.3197	3.908	437.8	1344.	.1127	.1881	11350.	.1365	.0863

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.1004	.1397	1.310	.1346	8.277	.1062	.4251	.0672	.6585
Stddev	.2146	.2000	.026	.0893	.018	.0014	.0804	.0517	.0104
%RSD	213.8	143.2	2.010	66.33	.2192	1.359	18.92	76.86	1.575
#1	.1426	-.0682	1.280	.0334	8.298	.1062	.5144	.0603	.6468
#2	-.2642	.1565	1.317	.2023	8.264	.1048	.4022	.0193	.6621
#3	-.1795	.3307	1.331	.1681	8.269	.1077	.3585	.1220	.6666

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.6	3259.6	23808.	9464.2
Stddev	4.7	16.8	30.	36.8
%RSD	.26871	.51568	.12747	.38911
#1	1728.1	3240.6	23830.	9497.2
#2	1729.9	3265.7	23773.	9470.8
#3	1736.9	3272.5	23820.	9424.5

Zoom In Zoom Out

Sample Name: MP23300-SD1 Acquired: 7/30/2012 11:24:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1000.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.3337	-1.425	-.0074	.0190	-.0453	504.1	-.0075	-.0133	.3184
Stddev	.2980	5.593	.5540	.0932	.0116	1.8	.0486	.0865	.1702
%RSD	89.30	392.4	7483.	489.7	25.72	.3504	645.2	648.7	53.45
#1	.0190	5.029	-.3590	-.0605	-.0378	504.7	.0303	.0784	.1222
#2	.6116	-4.853	.6312	-.0040	-.0393	505.5	-.0624	-.0250	.4263
#3	.3705	-4.451	-.2944	.1216	-.0587	502.2	.0095	-.0934	.4066

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4352	-12.46	432.8	1385.	.0055	-.2434	11750.	-.3367	.1984
Stddev	.1758	.53	13.4	16.	.0237	.1364	36.	.0231	.2739
%RSD	40.39	4.273	3.089	1.133	428.8	56.05	.3039	6.850	138.1
#1	.2629	-13.07	445.4	1404.	-.0150	-.1223	11750.	-.3235	.0482
#2	.4285	-12.16	434.3	1376.	.0001	-.2168	11790.	-.3233	.0324
#3	.6142	-12.15	418.8	1376.	.0315	-.3912	11720.	-.3633	.5145

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-1.358	1.757	5.922	-.5109	8.414	-.6298	-.0603	-.0914	-.0114
Stddev	.560	1.119	.127	.1135	.082	.0314	1.047	.2167	.0719
%RSD	41.20	63.67	2.142	22.22	.9776	4.985	1735.	237.0	629.8
#1	-.9381	.9916	5.782	-.4096	8.382	-.6122	-1.269	-.3386	-.0203
#2	-1.993	3.041	6.029	-.6335	8.508	-.6112	.5606	.0663	.0645
#3	-1.143	1.239	5.954	-.4894	8.353	-.6661	.5273	-.0021	-.0785

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1846.4	3347.2	24541.	9493.2
Stddev	.9	5.3	33.	40.9
%RSD	.04678	.15959	.13353	.43036
#1	1845.9	3345.4	24517.	9492.2
#2	1845.8	3353.3	24579.	9452.8
#3	1847.4	3343.1	24529.	9534.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:29:03 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500	39.18	2.010	2.046	2.036	40.46	2.021	1.999	2.028	2.069
Stddev	.0006	.02	.004	.007	.001	.09	.002	.003	.004	.003
%RSD	.2326	.0488	.2070	.3529	.0702	.2288	.0880	.1609	.1949	.1591
#1	.2499	39.20	2.007	2.054	2.038	40.40	2.020	2.000	2.032	2.067
#2	.2507	39.16	2.010	2.039	2.035	40.57	2.023	2.002	2.026	2.073
#3	.2495	39.19	2.015	2.045	2.035	40.41	2.021	1.996	2.025	2.067
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.13	40.53	39.98	2.045	1.998	40.39	2.034	2.013	2.000	2.002
Stddev	.06	.05	.19	.003	.002	.10	.001	.005	.004	.004
%RSD	.1580	.1204	.4726	.1367	.1045	.2590	.0449	.2280	.2111	.1854
#1	39.20	40.59	39.78	2.042	2.000	40.51	2.034	2.015	2.005	1.997
#2	39.08	40.51	40.15	2.045	1.998	40.37	2.033	2.017	1.997	2.004
#3	39.11	40.50	39.99	2.047	1.995	40.31	2.035	2.008	1.999	2.004
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.034	2.136	2.073	2.059	2.049	2.131	2.037
Stddev	.003	.003	.004	.003	.008	.002	.001
%RSD	.1367	.1312	.1884	.1257	.3811	.0883	.0663
#1	2.033	2.134	2.077	2.056	2.041	2.133	2.035
#2	2.038	2.139	2.070	2.062	2.057	2.129	2.037
#3	2.033	2.135	2.071	2.059	2.047	2.132	2.038
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:29:03 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1579.6	3203.6	23663.	9417.4
Stddev	3.4	3.0	47.	16.8
%RSD	.21211	.09423	.19687	.17798
#1	1577.0	3201.1	23610.	9405.1
#2	1578.5	3202.8	23681.	9410.6
#3	1583.4	3206.9	23697.	9436.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:33:09 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0060	.0007	.0002	.0003	.0076	.0002	.0003	.0005	.0005
Stddev	.0002	.0026	.0009	.0001	.0000	.0017	.0001	.0001	.0001	.0001
%RSD	43.79	42.29	133.2	35.02	8.500	22.61	21.58	39.38	21.10	19.06
#1	.0005	.0082	.0008	.0002	.0002	.0059	.0003	.0002	.0006	.0005
#2	.0004	.0032	.0015	.0003	.0003	.0093	.0002	.0004	.0004	.0007
#3	.0002	.0067	-.0003	.0002	.0003	.0076	.0002	.0003	.0005	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0089	.0102	.0003	.0006	.0062	.0000	.0003	-.0005	.0001
Stddev	.0034	.0151	.0136	.0000	.0003	.0050	.0001	.0003	.0004	.0014
%RSD	53.16	169.9	133.9	7.393	44.41	80.36	482.3	103.8	85.47	1104.
#1	.0101	.0232	.0138	.0003	.0008	.0046	-.0001	.0004	.0000	.0013
#2	.0062	-.0069	.0216	.0003	.0007	.0117	.0001	.0000	-.0006	-.0014
#3	.0032	.0105	-.0049	.0003	.0003	.0022	.0001	.0007	-.0009	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0005	.0003	.0005	.0014	.0002	.0001
Stddev	.0004	.0005	.0000	.0001	.0003	.0001	.0000
%RSD	7.560	104.3	6.150	18.33	18.27	27.95	13.24
#1	.0055	.0001	.0003	.0006	.0017	.0002	.0001
#2	.0062	.0002	.0003	.0005	.0013	.0003	.0001
#3	.0054	.0011	.0003	.0004	.0012	.0002	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:33:09 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.3	3369.7	24716.	9492.5
Stddev	4.8	.8	11.	25.2
%RSD	.25401	.02513	.04636	.26544
#1	1899.9	3368.8	24704.	9521.2
#2	1909.1	3369.8	24719.	9482.2
#3	1907.0	3370.5	24726.	9474.1

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/30/2012 11:37:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0616	-.0364	-.0575	.0120	-.0108	442.5	.0004	.0143	.0234
Stddev	.0208	.6981	.1479	.0101	.0068	1.1	.0034	.0063	.0059
%RSD	33.82	1916.	257.3	83.87	63.20	.2500	860.3	43.92	25.14
#1	.0800	.3179	-.1780	.0222	-.0030	442.2	.0029	.0133	.0180
#2	.0660	.4134	.1076	.0021	-.0136	441.6	.0018	.0085	.0297
#3	.0390	-.8406	-.1020	.0117	-.0158	443.7	-.0035	.0209	.0226

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0982	-2.417	415.9	1323.	-.0060	-.0064	11320.	.0008	-.0495
Stddev	.0295	.224	7.7	2.	.0048	.0277	36.	.0551	.1147
%RSD	30.03	9.285	1.849	.1678	80.39	433.7	.3171	7328.	231.9
#1	.0641	-2.242	408.4	1322.	-.0092	-.0353	11280.	-.0074	-.0516
#2	.1139	-2.670	423.8	1322.	-.0084	-.0038	11330.	-.0499	.0663
#3	.1164	-2.338	415.5	1326.	-.0004	.0199	11340.	.0595	-.1631

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.1663	.0928	1.299	-.0190	8.128	-.0658	-.0335	-.0022	.0115
Stddev	.1572	.1640	.027	.1367	.025	.0067	.1367	.0470	.0133
%RSD	94.57	176.6	2.091	718.0	.3053	10.22	407.9	2096.	115.7
#1	-.3214	-.0768	1.320	.1118	8.100	-.0665	-.0016	.0107	-.0012
#2	-.1704	.1049	1.308	-.1609	8.145	-.0588	.0844	.0369	.0104
#3	-.0070	.2504	1.268	-.0080	8.140	-.0722	-.1834	-.0544	.0254

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.5	3260.3	23840.	9388.0
Stddev	2.5	3.1	46.	27.6
%RSD	.14668	.09597	.19431	.29414
#1	1730.1	3258.5	23884.	9413.6
#2	1729.9	3258.4	23792.	9391.6
#3	1734.4	3263.9	23844.	9358.8

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/30/2012 11:42:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0249	.4839	.0102	.0053	-.0118	469.4	-.0065	-.0116	.0207
Stddev	.0707	.7659	.1493	.0195	.0030	1.6	.0008	.0275	.0151
%RSD	284.1	158.3	1457.	370.6	25.53	.3339	13.05	236.5	72.91
#1	.1007	-.2458	-.1333	.0241	-.0108	468.4	-.0072	.0148	.0062
#2	.0131	1.281	-.0007	.0066	-.0151	468.6	-.0056	-.0401	.0195
#3	-.0392	.4161	.1647	-.0149	-.0093	471.2	-.0067	-.0096	.0363

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0773	-2.455	430.2	1360.	.0984	-.0310	11650.	-.0250	.0077
Stddev	.0597	.332	.6	9.	.0080	.0394	17.	.0189	.0241
%RSD	77.18	13.52	.1399	.6660	8.123	127.0	.1428	75.74	314.3
#1	.0228	-2.243	430.8	1350.	.0905	.0048	11650.	-.0075	.0113
#2	.1410	-2.284	430.3	1361.	.1064	-.0733	11670.	-.0451	.0297
#3	.0681	-2.837	429.6	1368.	.0982	-.0246	11630.	-.0224	-.0180

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.3081	.0003	1.282	-.0214	8.373	-.0865	.1456	-.0089	2.440
Stddev	.1537	.1831	.139	.0752	.020	.0089	.1266	.0577	.010
%RSD	49.89	67620.	10.83	351.3	.2331	10.27	86.95	648.1	.4204
#1	-.4827	.1987	1.436	.0372	8.352	-.0781	.2146	.0340	2.451
#2	-.1930	-.0360	1.167	.0047	8.377	-.0958	-.0005	.0138	2.434
#3	-.2488	-.1619	1.243	-.1062	8.390	-.0854	.2228	-.0745	2.433

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.8	3263.5	23830.	9488.1
Stddev	1.2	7.2	45.	3.3
%RSD	.06663	.22011	.18954	.03511
#1	1727.9	3255.5	23859.	9491.4
#2	1725.6	3265.5	23854.	9484.7
#3	1726.8	3269.4	23778.	9488.2

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/30/2012 11:46:33 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0053	-.7106	-.0399	.0039	-.0074	438.1	-.0110	-.0031	.0202
Stddev	.0663	.7077	.0272	.0123	.0048	1.8	.0090	.0269	.0355
%RSD	1248.	99.59	68.26	318.7	64.07	.4006	81.75	858.2	176.0
#1	.0791	.0975	-.0111	.0082	-.0060	437.5	-.0064	.0272	.0602
#2	-.0140	-1.220	-.0434	.0134	-.0127	436.6	-.0214	-.0129	-.0073
#3	-.0492	-1.009	-.0652	-.0100	-.0036	440.0	-.0052	-.0238	.0076

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1130	-2.567	410.2	1310.	-.0059	-.0420	11140.	-.0497	.0217
Stddev	.0054	.115	.3	10.	.0059	.0285	9.	.0372	.1029
%RSD	4.820	4.468	.0618	.7494	101.2	67.86	.0816	74.89	474.0
#1	.1069	-2.631	410.1	1299.	-.0127	-.0359	11140.	-.0822	-.0452
#2	.1145	-2.435	410.1	1314.	-.0026	-.0170	11130.	-.0579	-.0298
#3	.1175	-2.636	410.5	1317.	-.0022	-.0730	11150.	-.0091	.1401

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.2517	-.1154	1.239	-.0846	8.032	-.0968	.0638	-.0122	-.0079
Stddev	.1130	.2275	.167	.1238	.031	.0097	.0463	.0614	.0060
%RSD	44.89	197.2	13.46	146.3	.3904	10.02	72.61	503.9	75.57
#1	-.3279	-.1471	1.169	-.2127	8.000	-.1007	.0374	.0325	-.0082
#2	-.1219	-.3254	1.118	-.0754	8.034	-.1039	.1173	.0131	-.0018
#3	-.3054	.1263	1.429	.0343	8.063	-.0857	.0367	-.0822	-.0138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1724.3	3253.1	23713.	9369.7
Stddev	2.4	2.7	56.	46.6
%RSD	.13821	.08392	.23600	.49692
#1	1721.6	3251.6	23726.	9421.4
#2	1725.8	3251.4	23762.	9356.7
#3	1725.6	3256.2	23652.	9331.1

Zoom In Zoom Out

Sample Name: F95238-1F Acquired: 7/30/2012 11:51:01 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0019	.0821	.0066	.1168	-.0001	F1030.	-.0025	.0041	.0010
Stddev	.0001	.0192	.0025	.0012	.0000	6.	.0001	.0002	.0010
%RSD	4.889	23.39	38.58	.9945	12.59	.5649	5.407	4.594	95.00
#1	.0019	.0600	.0038	.1159	-.0001	1033.	-.0025	.0040	.0021
#2	.0020	.0933	.0088	.1181	-.0002	1033.	-.0023	.0044	.0009
#3	.0019	.0932	.0070	.1164	-.0001	1023.	-.0026	.0041	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	2.584	31.54	408.0	F9.342	.0014	F1410.	.0033	-.0020
Stddev	.0004	.009	.02	.8	.020	.0003	20.	.0004	.0015
%RSD	401.1	.3684	.0573	.1884	.2098	18.53	1.435	12.21	76.82
#1	.0004	2.574	31.56	407.9	9.362	.0015	1434.	.0034	-.0007
#2	-.0003	2.592	31.52	408.7	9.323	.0015	1399.	.0037	-.0037
#3	.0002	2.586	31.54	407.2	9.341	.0011	1399.	.0029	-.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	-.0017	13.24	-.0009	7.813	-.0122	-.0005	.0007	.0075
Stddev	.0018	.0016	.04	.0015	.044	.0003	.0019	.0007	.0003
%RSD	246.9	96.94	.3040	165.0	.5627	2.473	380.0	97.74	4.321
#1	-.0016	-.0003	13.19	-.0017	7.852	-.0123	-.0024	-.0001	.0079
#2	.0014	-.0013	13.27	.0008	7.765	-.0119	-.0004	.0012	.0073
#3	-.0019	-.0035	13.25	-.0018	7.821	-.0125	.0014	.0009	.0073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1273.0	2678.3	19790.	8712.5
Stddev	.6	4.8	52.	34.0
%RSD	.04772	.17998	.26410	.39063
#1	1272.4	2678.7	19741.	8683.9
#2	1273.2	2673.4	19845.	8703.4
#3	1273.6	2683.0	19786.	8750.1

Zoom In Zoom Out

Sample Name: F95238-2F Acquired: 7/30/2012 11:55:50 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	.0587	.0013	.2379	-.0001	645.1	-.0014	.0047	.0011
Stddev	.0005	.0006	.0023	.0004	.0000	1.9	.0001	.0003	.0004
%RSD	49.78	.9782	177.4	.1703	12.38	.2895	9.955	6.303	32.01
#1	.0012	.0581	.0013	.2378	-.0001	643.8	-.0015	.0044	.0014
#2	.0011	.0592	-.0010	.2383	-.0001	647.3	-.0015	.0048	.0012
#3	.0004	.0587	.0035	.2375	-.0001	644.4	-.0012	.0050	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	1.021	24.64	373.4	5.783	.0030	F881.5	.0023	-.0012
Stddev	.0001	.007	.07	1.2	.003	.0002	24.4	.0005	.0004
%RSD	71.77	.6979	.2951	.3155	.0589	6.695	2.774	21.84	34.60
#1	-.0001	1.014	24.70	372.8	5.780	.0029	899.7	.0025	-.0012
#2	-.0003	1.028	24.56	374.7	5.782	.0032	891.0	.0017	-.0016
#3	-.0002	1.020	24.66	372.6	5.787	.0029	853.7	.0026	-.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	-.0038	12.30	-.0024	6.278	-.0058	.0005	.0002	.0016
Stddev	.0007	.0053	.04	.0015	.025	.0002	.0011	.0001	.0003
%RSD	59.15	139.7	.3112	60.13	.3988	3.166	245.7	28.94	21.50
#1	-.0020	-.0003	12.25	-.0020	6.296	-.0057	.0010	.0002	.0012
#2	-.0011	-.0012	12.32	-.0012	6.250	-.0060	-.0008	.0001	.0019
#3	-.0006	-.0098	12.32	-.0041	6.290	-.0056	.0012	.0002	.0016

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1348.9	2789.5	20589.	8775.1
Stddev	6.4	6.7	24.	48.5
%RSD	.47702	.24172	.11509	.55247
#1	1341.5	2796.7	20602.	8740.0
#2	1353.2	2783.3	20561.	8754.9
#3	1352.0	2788.5	20602.	8830.5

Zoom In Zoom Out

Sample Name: F95268-1 Acquired: 7/30/2012 12:00:40 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0031	1.648	.0109	.0348	.0000	802.9	-.0016	.0051	.1038
Stddev	.0031	.023	.0050	.0004	.000	1.9	.0004	.0002	.0021
%RSD	101.1	1.393	45.60	1.208	747.4	.2318	27.29	4.423	1.993
#1	.0002	1.647	.0053	.0345	-.0001	800.7	-.0022	.0050	.1043
#2	.0027	1.626	.0148	.0347	-.0002	804.2	-.0013	.0054	.1056
#3	.0064	1.672	.0126	.0353	.0002	803.7	-.0015	.0050	.1016

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0064	1.877	10.04	1192.	.7288	.0720	F3559.	.0681	.0031
Stddev	.0007	.009	.11	5.	.0012	.0007	4.	.0010	.0015
%RSD	10.45	.5028	1.111	.4471	.1603	1.024	.1205	1.464	47.38
#1	.0057	1.867	9.932	1187.	.7298	.0717	3564.	.0674	.0031
#2	.0063	1.879	10.02	1190.	.7275	.0728	3556.	.0677	.0016
#3	.0070	1.885	10.15	1198.	.7291	.0714	3557.	.0692	.0046

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0047	.0002	37.95	-.0052	F17.76	.0308	-.0010	.0755	.0099
Stddev	.0040	.0014	.10	.0020	.20	.0005	.0085	.0008	.0003
%RSD	83.83	631.5	.2545	38.45	1.129	1.639	832.5	1.011	2.947
#1	-.0025	-.0008	38.05	-.0049	17.69	.0314	.0085	.0761	.0102
#2	-.0093	-.0003	37.93	-.0074	17.60	.0305	-.0080	.0746	.0099
#3	-.0024	.0018	37.86	-.0034	17.99	.0306	-.0035	.0758	.0096

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1281.6	2696.0	19806.	8650.1
Stddev	3.5	8.4	34.	37.5
%RSD	.27487	.31088	.17156	.43335
#1	1278.0	2687.3	19767.	8683.0
#2	1281.8	2696.9	19825.	8657.9
#3	1285.0	2704.0	19827.	8609.3

Zoom In Zoom Out

Sample Name: F95268-3 Acquired: 7/30/2012 12:05:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	1.972	.0123	.0385	.0000	805.4	-.0020	.0045	.1053
Stddev	.0016	.030	.0014	.0004	.0001	5.2	.0004	.0005	.0012
%RSD	180.2	1.544	11.55	.9455	303.9	.6432	18.65	11.17	1.110
#1	.0006	1.939	.0124	.0380	.0000	804.3	-.0025	.0042	.1066
#2	.0026	1.999	.0108	.0386	-.0001	800.8	-.0019	.0051	.1048
#3	-.0006	1.978	.0136	.0387	.0002	811.0	-.0017	.0043	.1044

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0064	2.201	9.720	1173.	.8195	.0722	F3475.	.0713	-.0003
Stddev	.0009	.007	.110	2.	.0021	.0003	44.	.0013	.0043
%RSD	13.40	.3415	1.134	.1951	.2623	.3561	1.268	1.823	1493.
#1	.0069	2.203	9.752	1172.	.8191	.0721	3520.	.0701	.0014
#2	.0070	2.207	9.597	1171.	.8219	.0720	3432.	.0711	.0029
#3	.0054	2.193	9.810	1175.	.8176	.0725	3474.	.0727	-.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0063	.0007	38.69	-.0054	F17.48	.0446	-.0023	.0773	.0056
Stddev	.0029	.0129	.05	.0013	.11	.0002	.0065	.0010	.0004
%RSD	45.81	1723.	.1172	23.34	.6216	.4486	279.8	1.288	6.374
#1	-.0088	.0139	38.70	-.0048	17.41	.0444	-.0021	.0771	.0057
#2	-.0031	-.0119	38.64	-.0045	17.44	.0447	.0041	.0783	.0059
#3	-.0071	.0003	38.73	-.0068	17.61	.0447	-.0089	.0763	.0052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1280.6	2711.0	19914.	8693.8
Stddev	1.1	4.3	46.	15.4
%RSD	.08668	.15734	.23028	.17766
#1	1281.8	2708.5	19894.	8688.5
#2	1280.3	2716.0	19881.	8711.2
#3	1279.7	2708.7	19966.	8681.8

Zoom In Zoom Out

Sample Name: F95268-5 Acquired: 7/30/2012 12:10:20 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.7544	.0067	.0229	-.0001	715.5	-.0016	.0046	.0063
Stddev	.0007	.0071	.0032	.0001	.0001	6.3	.0001	.0005	.0004
%RSD	93.64	.9352	46.90	.4480	110.5	.8823	6.400	10.35	6.070
#1	.0005	.7623	.0031	.0229	-.0001	708.4	-.0016	.0047	.0066
#2	.0002	.7488	.0087	.0230	.0000	720.5	-.0017	.0050	.0058
#3	.0015	.7520	.0084	.0228	.0000	717.6	-.0015	.0041	.0064

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	.6585	27.79	F1027.	2.595	.0652	F2542.	.0179	-.0008
Stddev	.0001	.0032	.07	10.	.009	.0005	24.	.0002	.0002
%RSD	4.740	.4863	.2592	.9372	.3390	.7018	.9313	.9475	27.03
#1	.0020	.6554	27.75	1017.	2.586	.0657	2516.	.0177	-.0006
#2	.0019	.6618	27.75	1035.	2.603	.0651	2561.	.0179	-.0009
#3	.0018	.6583	27.88	1031.	2.597	.0647	2551.	.0180	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0045	-.0010	41.63	-.0047	F14.32	.0075	-.0007	.0402	.0047
Stddev	.0024	.0049	.06	.0026	.14	.0003	.0012	.0008	.0002
%RSD	51.94	502.6	.1513	54.85	.9976	3.657	163.5	1.912	4.576
#1	-.0072	-.0065	41.68	-.0073	14.26	.0072	-.0013	.0407	.0049
#2	-.0029	.0011	41.65	-.0021	14.49	.0075	-.0016	.0407	.0047
#3	-.0035	.0026	41.56	-.0048	14.22	.0078	.0006	.0394	.0045

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1171.8	2532.1	18417.	8285.6
Stddev	1.0	4.5	62.	48.9
%RSD	.08449	.17930	.33712	.59053
#1	1171.7	2527.8	18435.	8337.2
#2	1172.9	2531.6	18348.	8239.9
#3	1170.9	2536.8	18469.	8279.8

Zoom In Zoom Out

Sample Name: F95268-7 Acquired: 7/30/2012 12:15:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.1000	.0041	.0222	-.0001	599.0	-.0013	.0057	.0021
Stddev	.0006	.0082	.0023	.0003	.0000	2.1	.0001	.0001	.0002
%RSD	65.89	8.219	57.50	1.364	39.52	.3542	6.399	1.839	11.49
#1	.0015	.0914	.0030	.0225	-.0002	598.0	-.0014	.0058	.0019
#2	.0003	.1078	.0067	.0219	-.0001	601.5	-.0013	.0056	.0021
#3	.0012	.1007	.0025	.0222	-.0001	597.6	-.0012	.0058	.0023

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0024	.0323	10.24	874.2	1.547	.0788	F2321.	.0179	.0057
Stddev	.0002	.0014	.08	4.4	.004	.0004	40.	.0006	.0017
%RSD	7.612	4.243	.8102	.4997	.2732	.5200	1.715	3.186	29.29
#1	.0026	.0339	10.33	874.7	1.542	.0784	2367.	.0185	.0076
#2	.0024	.0320	10.22	878.2	1.549	.0787	2301.	.0176	.0045
#3	.0023	.0312	10.17	869.5	1.550	.0792	2295.	.0176	.0050

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0027	41.38	-.0044	F13.15	-.0052	-.0011	.0091	.0037
Stddev	.0001	.0049	.07	.0016	.07	.0000	.0018	.0005	.0003
%RSD	17.41	181.2	.1787	36.56	.5050	.8530	167.7	5.292	7.600
#1	-.0009	.0053	41.33	-.0057	13.23	-.0051	-.0025	.0095	.0040
#2	-.0009	.0058	41.34	-.0026	13.12	-.0052	.0010	.0086	.0036
#3	-.0006	-.0030	41.46	-.0049	13.10	-.0052	-.0017	.0091	.0034

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1201.6	2582.9	18773.	8439.9
Stddev	1.1	3.3	22.	41.7
%RSD	.09470	.12756	.11980	.49382
#1	1202.1	2579.9	18783.	8415.9
#2	1200.3	2586.4	18748.	8415.8
#3	1202.4	2582.3	18789.	8488.0

Zoom In Zoom Out

Sample Name: F95268-9 Acquired: 7/30/2012 12:20:00 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.1200	.0081	.0160	-.0001	553.9	-.0011	.0028	.0018
Stddev	.001	.0036	.0016	.0002	.0001	1.0	.0001	.0003	.0006
%RSD	3620.	2.989	19.27	1.204	94.90	.1818	9.463	11.54	31.83
#1	-.0005	.1173	.0097	.0160	-.0002	555.0	-.0010	.0024	.0021
#2	-.0004	.1186	.0066	.0162	.0000	553.0	-.0012	.0030	.0012
#3	.0008	.1240	.0080	.0159	-.0001	553.5	-.0011	.0029	.0022

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0015	.0531	4.117	583.2	.8669	.0323	F1634.	.0034	.0184
Stddev	.0002	.0015	.057	1.0	.0038	.0003	6.	.0003	.0013
%RSD	12.99	2.860	1.383	.1735	.4428	1.065	.3535	7.968	6.825
#1	.0013	.0539	4.060	584.3	.8629	.0326	1638.	.0034	.0170
#2	.0017	.0513	4.174	582.2	.8672	.0322	1637.	.0037	.0194
#3	.0014	.0540	4.118	583.2	.8706	.0320	1627.	.0032	.0188

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0029	-.0029	42.93	-.0031	F11.08	-.0033	.0003	.0136	.0019
Stddev	.0012	.0019	.07	.0005	.15	.0001	.0034	.0005	.0002
%RSD	42.35	64.97	.1673	14.67	1.332	4.508	1036.	3.699	11.41
#1	-.0016	-.0011	42.99	-.0028	11.25	-.0033	.0012	.0133	.0019
#2	-.0040	-.0027	42.85	-.0029	10.99	-.0031	.0032	.0133	.0016
#3	-.0029	-.0049	42.94	-.0036	11.01	-.0034	-.0034	.0142	.0021

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1271.5	2681.9	19824.	8680.8
Stddev	2.9	6.6	70.	46.1
%RSD	.22593	.24610	.35324	.53082
#1	1272.9	2675.9	19885.	8627.7
#2	1273.5	2689.0	19747.	8704.8
#3	1268.2	2680.8	19839.	8709.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:24:49 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2476	39.09	2.001	2.083	2.039	40.38	2.009	1.979	2.030	2.114
Stddev	.0016	.07	.003	.006	.008	.29	.003	.003	.004	.003
%RSD	.6324	.1714	.1416	.2691	.3761	.7145	.1371	.1545	.2067	.1162
#1	.2479	39.15	1.999	2.089	2.044	40.45	2.007	1.976	2.034	2.111
#2	.2458	39.02	1.999	2.078	2.042	40.63	2.008	1.979	2.027	2.116
#3	.2489	39.10	2.004	2.083	2.030	40.07	2.012	1.982	2.028	2.114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.42	41.16	39.78	2.054	1.974	41.03	2.032	2.025	2.003	1.985
Stddev	.14	.07	.36	.009	.003	.07	.004	.003	.007	.006
%RSD	.3649	.1602	.9010	.4559	.1663	.1642	.2056	.1614	.3292	.3110
#1	38.51	41.10	39.98	2.065	1.972	40.99	2.028	2.022	1.998	1.991
#2	38.49	41.23	40.00	2.050	1.974	41.10	2.033	2.026	2.000	1.979
#3	38.26	41.15	39.37	2.047	1.978	40.99	2.036	2.028	2.010	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.036	2.178	2.100	2.081	2.067	2.156	2.033
Stddev	.004	.004	.002	.003	.004	.003	.002
%RSD	.2227	.1908	.1142	.1415	.2096	.1452	.0963
#1	2.031	2.175	2.103	2.085	2.066	2.159	2.032
#2	2.037	2.183	2.100	2.079	2.063	2.153	2.035
#3	2.040	2.177	2.098	2.080	2.072	2.156	2.032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:24:49 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1559.3	3195.6	23367.	9330.7
Stddev	3.7	6.8	55.	71.1
%RSD	.23490	.21179	.23477	.76196
#1	1562.6	3201.7	23304.	9277.9
#2	1560.0	3196.8	23393.	9302.7
#3	1555.4	3188.3	23403.	9411.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:28:55 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0032	.0001	.0003	.0003	.0099	.0003	.0003	.0006	.0009
Stddev	.0002	.0035	.0005	.0000	.0000	.0005	.0001	.0001	.0002	.0002
%RSD	52.22	110.1	634.9	9.542	1.822	4.981	32.05	23.76	34.12	18.19
#1	.0007	.0068	-.0005	.0003	.0003	.0093	.0004	.0003	.0005	.0010
#2	.0004	-.0001	.0005	.0003	.0003	.0101	.0002	.0003	.0008	.0007
#3	.0002	.0028	.0002	.0003	.0003	.0103	.0003	.0004	.0005	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0223	.0139	.0003	.0007	.1575	.0000	.0008	-.0009	.0003
Stddev	.0047	.0254	.0044	.0001	.0003	.0031	.0003	.0004	.0010	.0008
%RSD	57.73	113.8	31.54	19.43	42.10	1.963	647.3	51.71	112.5	239.0
#1	.0132	.0226	.0118	.0004	.0009	.1560	.0003	.0004	-.0020	-.0006
#2	.0075	.0476	.0189	.0003	.0007	.1611	.0000	.0008	-.0008	.0006
#3	.0038	-.0032	.0109	.0003	.0003	.1554	-.0002	.0012	.0000	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0005	.0004	.0007	.0008	.0003	.0002
Stddev	.0003	.0006	.0000	.0002	.0013	.0001	.0001
%RSD	4.697	110.8	11.26	31.11	152.9	31.64	23.07
#1	.0056	.0011	.0004	.0009	.0008	.0002	.0003
#2	.0052	.0005	.0003	.0008	.0021	.0004	.0002
#3	.0052	-.0001	.0004	.0005	-.0004	.0003	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:28:55 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.7	3357.5	24567.	9465.4
Stddev	4.4	5.0	47.	25.0
%RSD	.23474	.14889	.18981	.26454
#1	1879.2	3354.9	24570.	9444.8
#2	1884.0	3363.3	24520.	9493.3
#3	1888.1	3354.4	24613.	9458.3

Zoom In Zoom Out

Sample Name: F95268-1F Acquired: 7/30/2012 12:33:25 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	.0552	.0097	.0807	-.0001	715.5	-.0015	.0016	.0007
Stddev	.0013	.0165	.0012	.0006	.0001	.7	.0001	.0002	.0008
%RSD	223.1	29.97	12.55	.7156	94.91	.0949	6.060	14.43	109.8
#1	.0009	.0463	.0111	.0812	.0000	716.3	-.0015	.0018	.0016
#2	-.0012	.0449	.0092	.0809	.0000	714.9	-.0015	.0014	.0003
#3	-.0015	.0742	.0088	.0801	-.0001	715.3	-.0016	.0017	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0020	-.0102	8.931	F1120.	.3105	.0734	F2914.	.0182	.0031
Stddev	.0006	.0029	.024	4.	.0021	.0001	52.	.0006	.0023
%RSD	28.55	28.46	.2722	.3332	.6785	.1060	1.777	3.279	74.83
#1	.0014	-.0075	8.927	1118.	.3088	.0734	2956.	.0175	.0054
#2	.0026	-.0099	8.909	1124.	.3129	.0735	2930.	.0184	.0030
#3	.0021	-.0133	8.957	1117.	.3098	.0733	2856.	.0186	.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0030	.0018	31.05	-.0065	F16.40	-.0077	.0020	.0603	.0009
Stddev	.0002	.0029	.05	.0013	.11	.0000	.0029	.0009	.0001
%RSD	6.498	156.4	.1454	19.79	.6640	.5779	144.2	1.510	8.556
#1	-.0028	.0039	31.04	-.0050	16.52	-.0077	.0029	.0595	.0009
#2	-.0029	.0030	31.01	-.0073	16.30	-.0078	.0042	.0600	.0008
#3	-.0032	-.0014	31.10	-.0072	16.39	-.0077	-.0012	.0613	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1146.2	2483.6	18204.	8276.1
Stddev	2.0	3.2	67.	43.0
%RSD	.17665	.12988	.37024	.51915
#1	1145.7	2484.2	18265.	8244.8
#2	1148.5	2486.5	18131.	8258.3
#3	1144.5	2480.1	18215.	8325.0

Zoom In Zoom Out

Sample Name: F95268-3F Acquired: 7/30/2012 12:38:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.1098	.0094	.0317	-.0003	791.8	-.0018	.0018	.0023
Stddev	.0020	.0190	.0005	.0005	.0001	2.0	.0002	.0001	.0016
%RSD	183.3	17.27	5.461	1.514	41.93	.2527	8.900	4.953	73.27
#1	.0028	.1015	.0089	.0321	-.0002	793.6	-.0019	.0017	.0042
#2	.0017	.0964	.0094	.0319	-.0003	789.7	-.0018	.0019	.0013
#3	-.0012	.1315	.0099	.0312	-.0004	792.3	-.0016	.0019	.0013

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0044	-.0292	8.950	1205.	.3138	.0786	F3627.	.0172	.0007
Stddev	.0006	.0040	.068	2.	.0003	.0005	24.	.0005	.0034
%RSD	13.43	13.54	.7547	.2004	.1092	.6885	.6630	2.940	457.7
#1	.0040	-.0247	8.898	1206.	.3138	.0791	3634.	.0168	-.0017
#2	.0051	-.0317	9.026	1202.	.3141	.0786	3646.	.0178	-.0007
#3	.0042	-.0314	8.925	1206.	.3135	.0780	3600.	.0171	.0046

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0068	-.0047	32.73	-.0060	F17.86	-.0055	-.0007	.0646	-.0002
Stddev	.0015	.0190	.04	.0045	.16	.0004	.0048	.0005	.0005
%RSD	21.92	401.9	.1155	74.50	.9071	7.388	660.5	.6997	208.8
#1	-.0054	-.0231	32.71	-.0071	18.00	-.0053	.0048	.0641	-.0007
#2	-.0067	.0148	32.77	-.0011	17.89	-.0059	-.0036	.0647	-.0003
#3	-.0083	-.0059	32.70	-.0098	17.68	-.0051	-.0034	.0650	.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1270.7	2683.6	19592.	8626.4
Stddev	1.1	3.2	25.	25.8
%RSD	.08722	.12026	.12721	.29864
#1	1270.1	2683.6	19577.	8598.0
#2	1272.0	2680.4	19578.	8633.2
#3	1270.1	2686.9	19621.	8648.1

Zoom In Zoom Out

Sample Name: F95268-5F Acquired: 7/30/2012 12:43:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0852	.0063	.0189	-.0001	669.6	-.0015	.0055	.0010
Stddev	.0008	.0110	.0017	.0005	.0001	3.2	.0001	.0003	.0002
%RSD	68.33	12.95	27.28	2.678	116.2	.4848	3.771	4.970	15.33
#1	.0020	.0861	.0048	.0191	-.0001	666.3	-.0014	.0056	.0010
#2	.0009	.0958	.0082	.0193	-.0002	669.6	-.0014	.0057	.0012
#3	.0005	.0738	.0059	.0184	.0000	672.8	-.0015	.0052	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0013	-.0195	26.22	975.0	2.718	.0680	F2429.	.0179	.0026
Stddev	.0002	.0007	.06	2.5	.004	.0004	24.	.0008	.0033
%RSD	14.66	3.573	.2387	.2585	.1519	.5803	.9876	4.707	125.2
#1	.0015	-.0189	26.19	976.0	2.719	.0684	2449.	.0181	.0063
#2	.0011	-.0203	26.30	972.1	2.714	.0677	2402.	.0170	.0017
#3	.0012	-.0193	26.19	976.9	2.722	.0679	2435.	.0187	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0032	-.0004	38.09	-.0049	F13.84	-.0071	-.0013	.0363	.0010
Stddev	.0016	.0029	.04	.0007	.13	.0003	.0022	.0005	.0001
%RSD	51.06	667.2	.1180	14.18	.9218	3.558	164.2	1.312	7.564
#1	-.0037	-.0022	38.14	-.0041	13.69	-.0068	.0006	.0367	.0009
#2	-.0044	-.0020	38.05	-.0053	13.90	-.0072	-.0037	.0358	.0009
#3	-.0013	.0029	38.08	-.0052	13.92	-.0072	-.0009	.0364	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1183.6	2534.3	18654.	8327.6
Stddev	2.1	4.1	18.	23.7
%RSD	.17456	.16226	.09815	.28447
#1	1185.9	2529.9	18643.	8304.0
#2	1183.1	2538.0	18675.	8351.4
#3	1181.9	2534.9	18643.	8327.5

Zoom In Zoom Out

Sample Name: F95268-7F Acquired: 7/30/2012 12:50:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.0652	.0020	.0247	-.0001	564.8	-.0012	.0058	.0013
Stddev	.0004	.0096	.0035	.0000	.0000	1.2	.0001	.0003	.0001
%RSD	35.07	14.66	177.7	.1370	14.61	.2095	9.156	5.611	11.24
#1	.0014	.0640	.0034	.0247	-.0001	564.6	-.0012	.0056	.0012
#2	.0012	.0562	.0045	.0247	-.0001	563.8	-.0011	.0062	.0014
#3	.0006	.0753	-.0020	.0246	-.0001	566.1	-.0013	.0056	.0014

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0025	-.0192	10.08	814.0	1.499	.0905	F2271.	.0171	.0089
Stddev	.0004	.0037	.08	2.5	.004	.0004	21.	.0002	.0014
%RSD	15.20	19.38	.8316	.3091	.2530	.4311	.9358	1.372	15.43
#1	.0021	-.0149	9.985	811.3	1.496	.0908	2283.	.0174	.0105
#2	.0025	-.0220	10.12	814.7	1.498	.0907	2285.	.0171	.0081
#3	.0029	-.0206	10.14	816.2	1.503	.0901	2247.	.0169	.0080

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0020	.0035	37.75	-.0057	F12.44	-.0055	.0016	.0091	.0043
Stddev	.0034	.0056	.01	.0020	.04	.0001	.0062	.0006	.0000
%RSD	170.2	160.0	.0351	34.25	.3113	1.233	384.4	6.630	1.156
#1	-.0036	.0098	37.74	-.0045	12.40	-.0056	-.0053	.0086	.0044
#2	.0019	.0013	37.76	-.0046	12.44	-.0055	.0066	.0097	.0043
#3	-.0042	-.0006	37.76	-.0080	12.47	-.0054	.0035	.0090	.0043

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1203.7	2574.2	18877.	8376.8
Stddev	4.3	3.9	15.	9.1
%RSD	.36031	.15137	.08191	.10821
#1	1198.9	2570.0	18872.	8380.1
#2	1204.7	2574.9	18865.	8366.6
#3	1207.4	2577.7	18895.	8383.7

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/30/2012 12:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0725	-.6117	-.1113	-.0073	-.0072	433.0	-.0113	.0102	.0303
Stddev	.0506	.2961	.1653	.0046	.0067	2.8	.0106	.0194	.0228
%RSD	69.86	48.40	148.4	63.51	91.93	.6543	94.45	189.8	75.24
#1	.0357	-.7459	-.0171	-.0123	-.0026	435.8	-.0210	.0283	.0148
#2	.0515	-.2723	-.3022	-.0032	-.0043	433.2	-.0129	.0127	.0196
#3	.1303	-.8169	-.0147	-.0063	-.0149	430.1	.0001	-.0103	.0565

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1123	-2.794	421.5	1282.	-.0055	-.0353	11340.	-.0029	-.0621
Stddev	.0309	.115	2.8	3.	.0034	.0280	5.	.0545	.0360
%RSD	27.47	4.099	.6539	.2483	61.79	79.33	.0455	1864.	58.00
#1	.1005	-2.668	422.5	1285.	-.0017	-.0555	11340.	.0580	-.0345
#2	.1474	-2.891	418.4	1279.	-.0082	-.0033	11350.	-.0470	-.1029
#3	.0891	-2.824	423.6	1284.	-.0067	-.0469	11350.	-.0197	-.0490

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4065	-.0760	1.542	-.0655	8.164	-.1021	.1885	-.0285	-.0092
Stddev	.1428	.4524	.091	.0221	.036	.0138	.0246	.0195	.0150
%RSD	35.14	595.6	5.882	33.77	.4451	13.53	13.03	68.53	162.6
#1	-.3693	-.4724	1.604	-.0911	8.126	-.0901	.2165	-.0076	-.0248
#2	-.5642	-.1724	1.583	-.0531	8.168	-.0990	.1780	-.0317	-.0079
#3	-.2859	.4169	1.438	-.0524	8.198	-.1172	.1709	-.0462	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1704.4	3208.9	23490.	9221.1
Stddev	3.7	4.4	30.	62.2
%RSD	.21969	.13703	.12949	.67401
#1	1701.8	3207.1	23470.	9165.3
#2	1708.7	3213.9	23475.	9209.8
#3	1702.7	3205.7	23525.	9288.1

Zoom In Zoom Out

Sample Name: MP23318-MB1 Acquired: 7/30/2012 12:59:56 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0013	-.0023	-.0001	.0000	.0180	.0000	-.0001	.0006	-.0003
Stddev	.0003	.0013	.0006	.0001	.000	.0008	.000	.0001	.0001	.0002
%RSD	228.5	99.63	28.27	105.7	218.7	4.288	152.7	47.74	11.23	63.75
#1	.0004	-.0016	-.0025	.0000	.0000	.0188	-.0001	-.0002	.0006	-.0003
#2	.0003	-.0024	-.0016	-.0001	.0000	.0178	.0000	-.0001	.0007	-.0001
#3	-.0002	.0001	-.0028	.0000	.0000	.0173	-.0001	-.0001	.0006	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185	.0077	.0037	.0006	.0003	.2262	.0004	-.0005	-.0008	-.0002
Stddev	.0016	.0088	.0167	.0000	.0001	.0063	.0001	.0002	.0006	.0012
%RSD	8.910	114.8	448.3	3.529	34.35	2.796	20.53	39.35	69.94	511.2
#1	.0166	.0017	.0179	.0006	.0004	.2306	.0003	-.0007	-.0008	.0005
#2	.0195	.0177	-.0146	.0006	.0002	.2291	.0005	-.0003	-.0002	.0004
#3	.0193	.0035	.0078	.0005	.0003	.2190	.0004	-.0005	-.0014	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.0138	.0000	-.0004	-.0006	-.0001	.0014
Stddev	.0005	.0010	.0000	.0002	.0010	.0004	.0000
%RSD	2.260	7.164	90.08	47.85	162.0	591.6	1.881
#1	.0211	.0143	.0000	-.0003	-.0016	.0004	.0014
#2	.0210	.0127	.0001	-.0006	-.0008	-.0003	.0014
#3	.0202	.0145	.0000	-.0003	.0005	-.0002	.0014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23318-MB1 Acquired: 7/30/2012 12:59:56 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1803.2	3197.4	23617.	9049.2
Stddev	5.1	10.7	37.	57.1
%RSD	.28154	.33356	.15784	.63148
#1	1797.9	3185.2	23614.	8983.3
#2	1808.0	3202.0	23581.	9080.2
#3	1803.7	3205.0	23656.	9084.2

Zoom In Zoom Out

Sample Name: MP23318-B1 Acquired: 7/30/2012 13:04:26 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0484	27.59	2.011	2.254	.0545	25.78	.0522	.5226	.2172	.2791
Stddev	.0002	.06	.005	.008	.0002	.17	.0001	.0009	.0018	.0010
%RSD	.4675	.2095	.2632	.3618	.3539	.6579	.2400	.1717	.8287	.3419
#1	.0486	27.54	2.010	2.256	.0544	25.60	.0524	.5231	.2176	.2798
#2	.0482	27.65	2.007	2.262	.0548	25.82	.0522	.5216	.2152	.2794
#3	.0483	27.58	2.017	2.246	.0545	25.93	.0521	.5232	.2188	.2780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.29	26.84	24.72	.5491	.5180	26.78	.5424	.4957	.5100	2.007
Stddev	.12	.09	.28	.0010	.0005	.08	.0004	.0025	.0010	.004
%RSD	.4649	.3471	1.121	.1803	.0955	.3118	.0775	.5037	.1947	.1907
#1	26.15	26.88	24.41	.5501	.5184	26.82	.5428	.4929	.5110	2.009
#2	26.34	26.90	24.83	.5481	.5175	26.84	.5421	.4978	.5090	2.008
#3	26.38	26.73	24.93	.5491	.5183	26.69	.5422	.4962	.5101	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264	.5568	.5441	.5391	2.050	.5553	.5278
Stddev	.0005	.0020	.0011	.0012	.002	.0010	.0013
%RSD	1.743	.3635	.2112	.2242	.0806	.1784	.2528
#1	.0268	.5547	.5439	.5400	2.052	.5558	.5264
#2	.0259	.5588	.5453	.5395	2.049	.5542	.5291
#3	.0266	.5568	.5431	.5377	2.049	.5561	.5279
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23318-B1 Acquired: 7/30/2012 13:04:26 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1576.3	3084.5	22515.	8897.9
Stddev	6.7	14.6	100.	29.3
%RSD	.42484	.47245	.44310	.32903
#1	1568.9	3068.0	22403.	8931.5
#2	1578.1	3090.0	22549.	8878.1
#3	1582.0	3095.6	22594.	8884.0

Zoom In
Zoom Out

Sample Name: F95286-1 Acquired: 7/30/2012 13:08:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	137.2	.0473	.7126	.0063	28.24	-.0003	.0853	.3148	.1955
Stddev	.0001	.4	.0008	.0027	.0001	.12	.0001	.0006	.0002	.0010
%RSD	29.38	.3054	1.685	.3752	1.064	.4243	37.31	.7103	.0645	.5064
#1	.0005	137.2	.0482	.7150	.0062	28.15	-.0002	.0848	.3146	.1965
#2	.0003	136.8	.0467	.7097	.0063	28.19	-.0002	.0853	.3148	.1946
#3	.0004	137.6	.0470	.7130	.0064	28.37	-.0004	.0860	.3150	.1952

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	194.9	10.88	19.15	3.425	.0085	.8367	.2116	.3982	.0028	.0055
Stddev	1.1	.04	.09	.008	.0001	.0026	.0001	.0009	.0010	.0002
%RSD	.5757	.3356	.4882	.2419	1.240	.3073	.0488	.2345	35.00	3.080
#1	194.1	10.86	19.12	3.433	.0084	.8380	.2115	.3983	.0035	.0054
#2	194.5	10.86	19.08	3.416	.0085	.8338	.2117	.3973	.0017	.0057
#3	196.2	10.92	19.26	3.426	.0086	.8384	.2116	.3992	.0031	.0055

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.35	.0275	.1088	2.645	-.0083	.4319	.6139
Stddev	.02	.0011	.0003	.006	.0008	.0017	.0027
%RSD	.1254	4.072	.2571	.2162	9.701	.3868	.4319
#1	18.33	.0286	.1088	2.651	-.0089	.4336	.6117
#2	18.34	.0263	.1086	2.640	-.0074	.4303	.6132
#3	18.37	.0277	.1092	2.644	-.0086	.4318	.6169

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1597.7	3795.2	27660.	10938.
Stddev	4.7	6.4	77.	43.
%RSD	.29110	.16806	.27808	.38939
#1	1592.3	3789.3	27571.	10907.
#2	1600.6	3794.4	27698.	10986.
#3	1600.0	3802.0	27711.	10920.

Zoom In
Zoom Out

Sample Name: MP23318-D1 Acquired: 7/30/2012 13:12:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	122.9	.0526	.6064	.0055	88.34	.0000	.0932	.4399	.2004
Stddev	.0003	.2	.0011	.0027	.0000	.20	.0001	.0004	.0014	.0006
%RSD	52.34	.1435	2.172	.4375	.2971	.2259	455.9	.3813	.3118	.3026
#1	.0007	123.0	.0536	.6071	.0055	88.23	.0000	.0935	.4411	.2011
#2	.0003	122.9	.0527	.6087	.0055	88.22	.0001	.0928	.4402	.2003
#3	.0010	122.7	.0514	.6035	.0055	88.57	-.0001	.0932	.4384	.1999

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	191.3	10.31	77.23	3.752	.0081	.9994	.4566	.3336	.0021	.0044
Stddev	.3	.01	.23	.014	.0000	.0028	.0013	.0020	.0001	.0022
%RSD	.1412	.0522	.3020	.3798	.2437	.2800	.2835	.5940	3.332	49.34
#1	191.3	10.31	77.02	3.753	.0081	.9995	.4553	.3359	.0022	.0053
#2	191.0	10.31	77.19	3.766	.0081	.9966	.4566	.3326	.0020	.0059
#3	191.5	10.30	77.48	3.737	.0081	1.002	.4579	.3324	.0021	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.71	.0246	.1472	2.593	-.0074	.4205	.4048
Stddev	.01	.0003	.0001	.009	.0017	.0013	.0003
%RSD	.0648	1.378	.1013	.3266	22.85	.3001	.0743
#1	20.72	.0244	.1472	2.599	-.0059	.4204	.4046
#2	20.70	.0245	.1474	2.596	-.0092	.4217	.4047
#3	20.70	.0250	.1471	2.583	-.0071	.4192	.4051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1530.2	3606.4	26636.	10566.
Stddev	3.3	8.9	141.	51.
%RSD	.21351	.24737	.53090	.48188
#1	1526.6	3596.3	26573.	10507.
#2	1531.3	3609.7	26537.	10591.
#3	1532.8	3613.2	26798.	10599.

Zoom In
Zoom Out

Sample Name: MP23318-SD1 Acquired: 7/30/2012 13:17:24 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	170.0	.0587	.8851	.0077	35.35	-.0016	.1110	.3978	.2395
Stddev	.0018	.3	.0021	.0037	.0001	.18	.0001	.0018	.0004	.0013
%RSD	278.9	.1815	3.647	.4209	1.117	.4960	3.278	1.579	.0900	.5479
#1	.0015	169.9	.0610	.8878	.0077	35.15	-.0016	.1090	.3974	.2382
#2	-.0014	169.8	.0582	.8809	.0078	35.48	-.0017	.1123	.3980	.2409
#3	.0020	170.3	.0568	.8866	.0077	35.41	-.0016	.1117	.3980	.2394

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	260.6	13.48	23.93	4.417	.0102	.9871	.2734	.4457	-.0053	.0053
Stddev	.6	.11	.15	.016	.0004	.0146	.0012	.0024	.0073	.0069
%RSD	.2400	.7824	.6279	.3518	4.167	1.484	.4255	.5399	138.4	131.5
#1	259.9	13.37	23.80	4.414	.0097	.9702	.2747	.4429	-.0137	.0089
#2	260.6	13.58	23.90	4.434	.0105	.9957	.2731	.4473	-.0010	-.0027
#3	261.2	13.49	24.10	4.404	.0103	.9954	.2724	.4468	-.0011	.0096

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	23.51	.0342	.1331	3.292	-.0080	.5399	.7895
Stddev	.03	.0002	.0010	.006	.0049	.0058	.0010
%RSD	.1109	.6581	.7762	.1716	61.14	1.082	.1246
#1	23.53	.0342	.1325	3.289	-.0093	.5434	.7895
#2	23.48	.0340	.1324	3.299	-.0121	.5432	.7905
#3	23.51	.0344	.1342	3.289	-.0026	.5332	.7885

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1767.8	3486.8	25400.	9710.9
Stddev	3.3	5.1	100.	14.2
%RSD	.18511	.14523	.39457	.14666
#1	1768.7	3481.4	25400.	9726.7
#2	1770.6	3491.5	25300.	9699.1
#3	1764.2	3487.4	25500.	9707.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:21:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499	39.47	2.013	2.078	2.021	40.06	2.018	1.996	2.032	2.078
Stddev	.0005	.08	.001	.005	.001	.02	.001	.004	.006	.004
%RSD	.1962	.1952	.0564	.2203	.0457	.0442	.0594	.1787	.2986	.1950
#1	.2494	39.44	2.012	2.081	2.022	40.04	2.018	1.996	2.038	2.076
#2	.2499	39.41	2.012	2.073	2.020	40.07	2.020	1.999	2.033	2.076
#3	.2503	39.55	2.014	2.080	2.022	40.08	2.017	1.992	2.026	2.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.81	41.58	39.12	2.049	1.993	41.37	2.036	2.019	2.009	1.996
Stddev	.06	.04	.03	.004	.002	.08	.001	.007	.003	.006
%RSD	.1606	.1045	.0665	.2100	.0810	.1875	.0676	.3386	.1381	.3200
#1	37.84	41.53	39.12	2.053	1.995	41.28	2.035	2.018	2.011	1.990
#2	37.74	41.62	39.09	2.049	1.994	41.42	2.036	2.012	2.011	2.002
#3	37.84	41.59	39.14	2.044	1.992	41.42	2.038	2.026	2.006	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	2.155	2.092	2.068	2.052	2.138	2.036
Stddev	.003	.006	.002	.002	.007	.002	.001
%RSD	.1564	.2851	.0750	.1081	.3237	.0774	.0557
#1	2.039	2.148	2.092	2.070	2.045	2.137	2.035
#2	2.041	2.158	2.091	2.069	2.058	2.138	2.036
#3	2.045	2.159	2.094	2.065	2.055	2.140	2.037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:21:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1576.0	3202.1	23629.	9235.5
Stddev	3.2	3.0	34.	31.8
%RSD	.20464	.09374	.14550	.34410
#1	1574.4	3199.3	23591.	9219.6
#2	1579.8	3201.8	23658.	9272.1
#3	1574.0	3205.3	23638.	9214.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:25:48 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0016	.0003	.0003	.0004	.0087	.0003	.0003	.0005	.0008
Stddev	.0001	.0057	.0010	.0001	.0000	.0017	.0001	.0001	.0001	.0000
%RSD	51.46	365.2	397.2	31.80	4.959	19.21	20.99	21.28	13.83	3.783
#1	.0004	.0040	.0012	.0004	.0004	.0075	.0004	.0004	.0006	.0008
#2	.0002	-.0050	-.0008	.0003	.0003	.0081	.0004	.0003	.0004	.0008
#3	.0002	.0056	.0003	.0002	.0003	.0106	.0003	.0003	.0006	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102	-.0038	.0227	.0004	.0007	.0706	.0003	-.0005	-.0009	.0005
Stddev	.0043	.0168	.0043	.0001	.0001	.0042	.0001	.0003	.0012	.0004
%RSD	42.32	445.2	19.04	18.03	12.31	5.978	22.18	67.11	140.7	74.15
#1	.0150	-.0115	.0177	.0003	.0008	.0734	.0002	-.0002	-.0012	.0001
#2	.0090	.0155	.0246	.0005	.0007	.0726	.0003	-.0004	.0005	.0007
#3	.0066	-.0153	.0257	.0004	.0007	.0657	.0003	-.0008	-.0020	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	.0006	.0004	.0007	.0008	.0003	.0003
Stddev	.0009	.0003	.0000	.0001	.0006	.0002	.0000
%RSD	12.94	47.43	9.502	9.812	73.40	47.96	8.989
#1	.0064	.0009	.0003	.0007	.0001	.0003	.0003
#2	.0059	.0006	.0004	.0006	.0011	.0005	.0003
#3	.0076	.0003	.0004	.0006	.0012	.0002	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:25:48 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.9	3363.8	24715.	9315.2
Stddev	1.5	2.4	26.	59.2
%RSD	.08179	.07144	.10515	.63571
#1	1893.3	3363.5	24716.	9335.1
#2	1894.9	3366.3	24740.	9361.9
#3	1896.4	3361.5	24688.	9248.6

Zoom In Zoom Out

Sample Name: MP23318-PS1 Acquired: 7/30/2012 13:30:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0416	137.9	.1321	.9296	.0516	32.42	.0427	.1265	.3543	.2845
Stddev	.0003	.7	.0027	.0045	.0002	.10	.0002	.0001	.0014	.0010
%RSD	.7479	.4741	2.049	.4795	.4719	.3170	.3662	.0538	.3982	.3378
#1	.0413	137.1	.1290	.9245	.0513	32.31	.0428	.1266	.3538	.2854
#2	.0419	138.3	.1335	.9315	.0517	32.45	.0429	.1265	.3533	.2835
#3	.0415	138.3	.1338	.9327	.0517	32.51	.0426	.1265	.3559	.2847

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	194.3	19.69	22.90	3.405	.0924	9.645	.2934	.4396	.0848	.0875
Stddev	2.0	.10	.06	.006	.0005	.055	.0004	.0020	.0017	.0036
%RSD	1.032	.5237	.2483	.1827	.5709	.5663	.1468	.4590	2.055	4.063
#1	192.4	19.58	22.83	3.401	.0917	9.585	.2932	.4400	.0850	.0915
#2	194.2	19.70	22.93	3.401	.0926	9.658	.2939	.4375	.0864	.0847
#3	196.4	19.78	22.93	3.412	.0927	9.692	.2931	.4415	.0829	.0863

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.20	.0657	.1522	2.686	.0888	.4687	.8474
Stddev	.03	.0006	.0006	.002	.0015	.0010	.0020
%RSD	.1900	.9160	.3615	.0868	1.744	.2151	.2341
#1	18.21	.0658	.1515	2.687	.0888	.4698	.8451
#2	18.23	.0663	.1525	2.683	.0872	.4678	.8487
#3	18.16	.0651	.1525	2.687	.0903	.4684	.8483

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1571.9	3746.9	27393.	10786.
Stddev	5.3	14.6	40.	19.
%RSD	.33699	.39024	.14777	.17584
#1	1567.1	3736.8	27346.	10783.
#2	1577.6	3740.2	27416.	10769.
#3	1571.1	3763.6	27416.	10806.

Zoom In Zoom Out

Sample Name: MP23318-S1 Acquired: 7/30/2012 13:34:40 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0416	161.7	1.665	2.529	.0509	53.46	.0419	.5148	.4794	.4288
Stddev	.0002	2.8	.003	.026	.0001	.18	.0002	.0007	.0008	.0017
%RSD	.4298	1.728	.1750	1.013	.1505	.3315	.5037	.1353	.1638	.4000
#1	.0417	160.7	1.663	2.520	.0508	53.37	.0418	.5143	.4787	.4293
#2	.0414	159.6	1.664	2.558	.0510	53.35	.0422	.5145	.4792	.4302
#3	.0418	164.9	1.669	2.510	.0508	53.67	.0419	.5156	.4802	.4269

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	202.8	33.13	39.92	3.934	.3957	22.57	.5673	.8414	.1516	1.626
Stddev	1.1	.10	.21	.004	.0008	.11	.0009	.0021	.0010	.000
%RSD	.5453	.3163	.5188	.0961	.1933	.4861	.1639	.2460	.6407	.0246
#1	202.8	33.13	39.87	3.938	.3964	22.58	.5663	.8401	.1516	1.626
#2	203.9	33.24	39.75	3.930	.3959	22.67	.5681	.8402	.1507	1.625
#3	201.7	33.03	40.15	3.933	.3949	22.45	.5676	.8438	.1526	1.626

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.05	.4312	.5605	3.069	1.901	.8658	.8740
Stddev	.01	.0021	.0018	.004	.011	.0025	.0026
%RSD	.0435	.4841	.3133	.1365	.6011	.2864	.2925
#1	19.04	.4316	.5601	3.072	1.896	.8670	.8714
#2	19.05	.4289	.5624	3.071	1.892	.8630	.8741
#3	19.06	.4330	.5589	3.064	1.914	.8675	.8766

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1524.5	3703.4	27184.	10816.
Stddev	4.2	8.0	51.	47.
%RSD	.27717	.21592	.18873	.42994
#1	1520.3	3694.4	27131.	10773.
#2	1528.7	3706.5	27186.	10866.
#3	1524.4	3709.4	27234.	10810.

Zoom In Zoom Out

Sample Name: MP23318-S2 Acquired: 7/30/2012 13:39:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0409	195.6	1.619	2.603	.0502	61.85	.0406	.5078	.5826
Stddev	.0011	2.1	.005	.016	.0001	.17	.0004	.0010	.0019
%RSD	2.696	1.097	.3387	.5975	.2682	.2800	.8629	.1988	.3208
#1	.0396	198.0	1.619	2.621	.0500	61.68	.0409	.5088	.5807
#2	.0416	195.0	1.614	2.590	.0502	62.03	.0402	.5068	.5827
#3	.0415	193.9	1.625	2.600	.0503	61.82	.0407	.5079	.5845

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4856	248.1	35.18	45.59	F4.581	.3778	22.20	.6018	1.043
Stddev	.0025	2.3	.06	.20	.008	.0006	.05	.0010	.003
%RSD	.5244	.9119	.1771	.4444	.1662	.1633	.2232	.1725	.2431
#1	.4882	245.9	35.26	45.36	4.590	.3778	22.25	.6023	1.044
#2	.4853	250.4	35.14	45.72	4.576	.3784	22.16	.6024	1.040
#3	.4831	248.0	35.15	45.69	4.578	.3772	22.17	.6006	1.045

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1327	1.563	23.11	.4162	.5833	3.313	1.854	.9578	.9411
Stddev	.0019	.001	.01	.0013	.0011	.003	.003	.0016	.0005
%RSD	1.398	.0684	.0395	.3161	.1803	.0759	.1653	.1695	.0498
#1	.1306	1.562	23.12	.4147	.5845	3.316	1.856	.9568	.9407
#2	.1342	1.563	23.10	.4171	.5826	3.311	1.851	.9570	.9410
#3	.1333	1.564	23.11	.4168	.5827	3.312	1.857	.9597	.9416

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1501.5	3760.7	27612.	10970.
Stddev	4.4	8.8	69.	64.
%RSD	.29576	.23476	.25063	.58670
#1	1498.5	3750.7	27540.	10952.
#2	1499.5	3763.8	27618.	10917.
#3	1506.6	3767.5	27678.	11042.

Zoom In Zoom Out

Sample Name: F95286-2 Acquired: 7/30/2012 13:43:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	94.34	.0374	.5944	.0054	93.35	.0013	.0812	.2028	.2237
Stddev	.0003	.19	.0007	.0016	.0000	.45	.0001	.0001	.0017	.0003
%RSD	25.29	.1979	1.917	.2672	.8279	.4860	7.361	.1145	.8586	.1236
#1	.0008	94.24	.0381	.5962	.0054	93.13	.0013	.0811	.2011	.2236
#2	.0012	94.55	.0367	.5936	.0055	93.87	.0012	.0813	.2029	.2235
#3	.0014	94.22	.0374	.5934	.0055	93.04	.0014	.0811	.2045	.2241

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	139.3	28.55	24.96	3.497	.0063	3.814	.1169	.2772	.0007	.0042
Stddev	.3	.03	.14	.013	.0001	.012	.0003	.0010	.0004	.0022
%RSD	.2124	.1201	.5801	.3608	1.240	.3165	.2560	.3558	50.65	51.88
#1	139.7	28.52	24.92	3.482	.0062	3.822	.1165	.2770	.0011	.0017
#2	139.1	28.59	25.13	3.505	.0064	3.821	.1170	.2764	.0004	.0050
#3	139.2	28.53	24.85	3.503	.0063	3.801	.1171	.2783	.0006	.0058

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.52	.0220	.2426	2.353	-.0060	.2561	.6719
Stddev	.01	.0006	.0002	.004	.0021	.0007	.0015
%RSD	.0544	2.538	.0911	.1663	35.59	.2741	.2271
#1	20.53	.0216	.2426	2.348	-.0067	.2555	.6717
#2	20.51	.0227	.2428	2.356	-.0077	.2569	.6704
#3	20.50	.0219	.2424	2.354	-.0036	.2560	.6735

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1542.5	4119.6	30399.	11957.
Stddev	3.1	7.8	12.	93.
%RSD	.20398	.18856	.04096	.78048
#1	1539.2	4112.4	30407.	11885.
#2	1545.5	4118.5	30385.	11923.
#3	1542.9	4127.8	30406.	12062.

Zoom In Zoom Out

Sample Name: F95286-3 Acquired: 7/30/2012 13:48:22 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	39.89	.0136	.1855	.0010	.8798	-.0006	.0068	.0540	.0169
Stddev	.0002	.09	.0009	.0012	.0000	.0029	.0000	.0000	.0004	.0001
%RSD	72.49	.2172	6.357	.6668	1.520	.3305	1.710	.4644	.7242	.5763
#1	-.0003	39.98	.0146	.1869	.0010	.8794	-.0006	.0068	.0544	.0170
#2	-.0001	39.80	.0130	.1848	.0010	.8771	-.0006	.0068	.0537	.0170
#3	-.0005	39.90	.0132	.1847	.0009	.8828	-.0006	.0068	.0538	.0168

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.37	2.584	2.055	.1813	.0028	.3205	.0145	.0316	-.0010	.0007
Stddev	.07	.004	.011	.0003	.0000	.0077	.0001	.0003	.0003	.0005
%RSD	.1430	.1731	.5174	.1773	.8167	2.390	.5647	.9645	32.27	72.71
#1	49.36	2.586	2.048	.1811	.0028	.3291	.0145	.0313	-.0007	.0001
#2	49.31	2.579	2.067	.1817	.0027	.3144	.0145	.0318	-.0010	.0011
#3	49.45	2.586	2.050	.1812	.0028	.3181	.0144	.0318	-.0013	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.49	.0142	.0164	.7058	-.0033	.1030	.0533
Stddev	.00	.0005	.0000	.0028	.0004	.0003	.0003
%RSD	.0123	3.509	.2075	.3920	11.39	.2433	.5063
#1	19.49	.0136	.0164	.7061	-.0031	.1030	.0533
#2	19.49	.0143	.0164	.7084	-.0030	.1028	.0531
#3	19.49	.0146	.0164	.7029	-.0037	.1033	.0536

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.0	3487.6	25365.	9706.6
Stddev	3.0	7.3	97.	18.7
%RSD	.17358	.20974	.38241	.19268
#1	1727.6	3481.0	25284.	9695.9
#2	1733.2	3486.4	25340.	9728.2
#3	1732.4	3495.5	25473.	9695.7

Zoom In Zoom Out

Sample Name: F95273-1 Acquired: 7/30/2012 13:52:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	203.5	.0205	1.235	.0094	7.011	-.0009	.1421	.2637
Stddev	.0001	3.4	.0008	.001	.0001	.012	.0001	.0003	.0009
%RSD	27.29	1.695	3.966	.0803	.8343	.1645	9.500	.2191	.3424
#1	.0002	206.5	.0207	1.236	.0094	7.023	-.0010	.1418	.2628
#2	.0003	204.3	.0212	1.235	.0095	7.008	-.0009	.1423	.2638
#3	.0003	199.7	.0196	1.234	.0094	7.001	-.0008	.1423	.2646

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1373	205.2	19.97	21.29	F6.692	.0063	.6363	.0882	.1777
Stddev	.0003	.8	.06	.06	.029	.0002	.0031	.0001	.0003
%RSD	.2199	.3697	.2806	.2822	.4330	2.506	.4911	.1177	.1823
#1	.1376	206.0	20.02	21.36	6.679	.0062	.6389	.0883	.1781
#2	.1370	204.4	19.98	21.26	6.725	.0062	.6329	.0881	.1774
#3	.1372	205.2	19.91	21.25	6.671	.0065	.6371	.0881	.1777

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0016	.0019	15.93	.0170	.0741	F7.514	-.0085	.5281	.3808
Stddev	.0020	.0015	.03	.0002	.0002	.014	.0028	.0018	.0006
%RSD	129.9	78.87	.1803	1.461	.2262	.1907	33.47	.3344	.1560
#1	.0038	.0005	15.92	.0173	.0743	7.498	-.0103	.5263	.3803
#2	-.0002	.0017	15.91	.0168	.0740	7.524	-.0052	.5298	.3814
#3	.0011	.0035	15.96	.0169	.0740	7.520	-.0099	.5282	.3806

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1572.7	5055.5	36542.	14465.
Stddev	2.6	9.4	103.	106.
%RSD	.16345	.18559	.28228	.73327
#1	1572.8	5050.2	36487.	14346.
#2	1575.3	5066.3	36477.	14496.
#3	1570.1	5050.0	36660.	14551.

Zoom In Zoom Out

Sample Name: F95273-2 Acquired: 7/30/2012 13:57:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0018	51.68	.0276	1.251	.0131	23.62	-.0002	.0103
Stddev	.0001	.10	.0003	.004	.0001	.14	.0000	.0000
%RSD	6.117	.1899	1.158	.3007	.8326	.5822	6.921	.1078
#1	-.0019	51.64	.0273	1.254	.0130	23.46	-.0002	.0103
#2	-.0019	51.79	.0280	1.247	.0132	23.67	-.0002	.0103
#3	-.0017	51.61	.0276	1.252	.0131	23.72	-.0002	.0103

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0468	.0074	31.92	1.108	6.564	1.380	.0035	.3959
Stddev	.0001	.0001	.13	.012	.055	.002	.0000	.0019
%RSD	.1435	1.547	.4016	1.040	.8417	.1422	1.066	.4767
#1	.0468	.0072	31.77	1.098	6.501	1.378	.0035	.3938
#2	.0468	.0074	31.98	1.106	6.588	1.382	.0035	.3974
#3	.0467	.0074	32.01	1.121	6.604	1.379	.0035	.3965

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0175	.0989	-.0027	-.0043	10.24	.0092	.3350	.0598
Stddev	.0001	.0024	.0002	.0008	.01	.0002	.0008	.0002
%RSD	.4292	2.408	6.860	19.00	.1047	2.485	.2408	.3541
#1	.0174	.0961	-.0028	-.0047	10.24	.0092	.3347	.0597
#2	.0175	.1003	-.0028	-.0048	10.25	.0094	.3359	.0600
#3	.0175	.1002	-.0025	-.0033	10.23	.0089	.3344	.0597

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0183	.0364	.0642
Stddev	.0001	.0001	.0002
%RSD	.8010	.2175	.2538
#1	-.0184	.0363	.0641
#2	-.0182	.0365	.0641
#3	-.0182	.0364	.0644

Zoom In Zoom Out

Sample Name: F95273-2 Acquired: 7/30/2012 13:57:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1592.8	8729.2	64212.	24765.
Stddev	3.6	18.3	140.	55.
%RSD	.22859	.20955	.21801	.22089
#1	1596.7	8717.9	64092.	24815.
#2	1592.1	8719.5	64179.	24707.
#3	1589.6	8750.3	64366.	24774.

Zoom In Zoom Out

Sample Name: F95273-3 Acquired: 7/30/2012 14:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0006	76.51	.0288	1.698	.0103	3.748	.0034	.0654
Stddev	.0000	.92	.0003	.019	.0001	.031	.0000	.0001
%RSD	6.181	1.204	.9070	1.093	.7318	.8228	1.390	.1295
#1	.0005	76.27	.0292	1.679	.0103	3.722	.0034	.0654
#2	.0006	75.73	.0287	1.716	.0102	3.740	.0034	.0653
#3	.0005	77.52	.0287	1.701	.0104	3.782	.0033	.0655

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1214	.0664	87.78	8.570	7.382	F6.765	.0009	.1507
Stddev	.0005	.0000	.74	.006	.073	.015	.0000	.0005
%RSD	.3891	.0561	.8422	.0674	.9893	.2227	2.414	.3092
#1	.1212	.0664	87.27	8.566	7.323	6.780	.0009	.1502
#2	.1219	.0664	87.45	8.577	7.360	6.765	.0009	.1511
#3	.1210	.0664	88.63	8.568	7.464	6.750	.0009	.1507

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0455	.5320	-.0006	.0010	4.177	.0068	.0383	2.762
Stddev	.0001	.0014	.0002	.0009	.005	.0002	.0001	.002
%RSD	.2298	.2565	39.61	87.24	.1168	3.331	.2815	.0870
#1	.0456	.5324	-.0008	.0000	4.176	.0065	.0384	2.763
#2	.0456	.5332	-.0004	.0015	4.172	.0068	.0382	2.759
#3	.0454	.5305	-.0005	.0017	4.182	.0069	.0383	2.763

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0298	.2256	2.002
Stddev	.0008	.0001	.002
%RSD	2.676	.0398	.0915
#1	-.0307	.2256	2.003
#2	-.0291	.2257	2.003
#3	-.0297	.2255	2.000

Zoom In Zoom Out

Sample Name: F95273-3 Acquired: 7/30/2012 14:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1529.6	16745.	123820.	49155.
Stddev	3.6	35.	149.	220.
%RSD	.23370	.20958	.11994	.44726
#1	1526.5	16707.	123660.	49097.
#2	1528.7	16776.	123950.	49398.
#3	1533.5	16752.	123850.	48970.

Zoom In Zoom Out

Sample Name: F95273-4 Acquired: 7/30/2012 14:06:55 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	126.9	.0070	.6419	.0167	41.68	-.0006	.0420	.1733	.0497
Stddev	.0001	.1	.0004	.0021	.0001	.09	.0002	.0002	.0007	.0005
%RSD	9.745	.0730	5.694	.3253	.5334	.2240	32.14	.3923	.3792	.9497
#1	-.0011	126.8	.0070	.6417	.0167	41.57	-.0004	.0420	.1726	.0492
#2	-.0012	127.0	.0074	.6441	.0167	41.75	-.0007	.0418	.1739	.0501
#3	-.0010	126.9	.0066	.6399	.0166	41.71	-.0008	.0421	.1734	.0499

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	208.8	10.51	17.37	.8778	.0066	.8021	.0551	.0696	-.0004	.0005
Stddev	1.5	.04	.08	.0023	.0001	.0085	.0003	.0008	.0007	.0041
%RSD	.6951	.3683	.4717	.2671	.9581	1.061	.5694	1.100	198.9	850.1
#1	207.8	10.50	17.29	.8767	.0066	.8008	.0554	.0693	-.0010	.0048
#2	208.2	10.56	17.37	.8805	.0066	.8112	.0547	.0691	.0004	-.0035
#3	210.5	10.48	17.45	.8761	.0067	.7944	.0551	.0705	-.0005	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.62	.0232	.5762	1.046	-.0075	.3089	.1840
Stddev	.03	.0003	.0019	.002	.0017	.0004	.0003
%RSD	.1096	1.244	.3281	.2281	22.78	.1405	.1394
#1	29.62	.0229	.5759	1.045	-.0095	.3090	.1837
#2	29.58	.0235	.5782	1.048	-.0068	.3092	.1840
#3	29.65	.0233	.5745	1.044	-.0063	.3084	.1842

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1605.6	3848.1	28547.	11141.
Stddev	2.2	8.7	66.	20.
%RSD	.13854	.22583	.22977	.18368
#1	1603.0	3840.8	28552.	11120.
#2	1606.9	3857.7	28479.	11161.
#3	1606.8	3845.9	28610.	11143.

Zoom In Zoom Out

Sample Name: F95273-5 Acquired: 7/30/2012 14:11:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0007	394.1	.0356	1.589	.0185	5.348	.0041	.1684
Stddev	.0005	1.3	.0003	.008	.0000	.015	.0002	.0006
%RSD	65.52	.3326	.9196	.4780	.2080	.2820	3.863	.3767
#1	.0004	394.5	.0356	1.581	.0185	5.333	.0040	.1676
#2	.0005	395.2	.0359	1.597	.0186	5.349	.0042	.1687
#3	.0012	392.7	.0353	1.590	.0185	5.363	.0042	.1688

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.4824	.2804	F414.9	37.42	42.98	F8.838	.0101	.9186
Stddev	.0019	.0008	.5	.05	.08	.027	.0002	.0039
%RSD	.3953	.2885	.1138	.1464	.1852	.3042	1.518	.4194
#1	.4830	.2801	415.4	37.36	42.89	8.815	.0100	.9151
#2	.4803	.2798	414.9	37.42	43.04	8.867	.0103	.9181
#3	.4840	.2813	414.5	37.47	43.00	8.831	.0101	.9227

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1639	.2516	.0043	-.0004	18.36	.0271	.1086	F14.07
Stddev	.0004	.0011	.0013	.0025	.03	.0003	.0002	.01
%RSD	.2715	.4296	30.68	597.2	.1365	1.226	.2058	.0729
#1	.1638	.2518	.0053	.0024	18.34	.0268	.1084	14.07
#2	.1644	.2525	.0048	-.0011	18.39	.0274	.1088	14.08
#3	.1636	.2504	.0028	-.0025	18.35	.0271	.1086	14.06

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0119	1.134	.7895
Stddev	.0005	.001	.0008
%RSD	4.203	.1134	.0994
#1	-.0124	1.132	.7886
#2	-.0116	1.135	.7897
#3	-.0115	1.134	.7901

Zoom In Zoom Out

Sample Name: F95273-5 Acquired: 7/30/2012 14:11:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1527.2	4341.6	31570.	12724.
Stddev	3.4	6.7	54.	76.
%RSD	.22524	.15367	.17148	.60044
#1	1523.9	4338.4	31512.	12699.
#2	1526.9	4337.0	31579.	12664.
#3	1530.8	4349.2	31619.	12810.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:16:06 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2528	39.86	2.038	2.111	2.025	40.03	2.032	2.016	2.049	2.099
Stddev	.0009	.03	.001	.005	.006	.22	.002	.001	.005	.005
%RSD	.3582	.0709	.0481	.2271	.2913	.5618	.0830	.0689	.2370	.2321
#1	.2526	39.83	2.037	2.106	2.023	40.04	2.033	2.017	2.044	2.093
#2	.2519	39.88	2.039	2.113	2.021	39.80	2.034	2.016	2.049	2.101
#3	.2537	39.87	2.037	2.115	2.032	40.25	2.031	2.014	2.053	2.102
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.88	42.00	39.04	2.065	2.013	41.91	2.052	2.028	2.030	2.020
Stddev	.16	.09	.30	.005	.002	.02	.003	.007	.002	.008
%RSD	.4291	.2120	.7708	.2657	.1148	.0592	.1309	.3557	.0910	.3809
#1	37.81	41.97	39.08	2.059	2.013	41.89	2.053	2.030	2.030	2.026
#2	37.77	41.94	38.73	2.068	2.015	41.94	2.054	2.019	2.032	2.022
#3	38.07	42.10	39.32	2.068	2.011	41.91	2.049	2.033	2.029	2.011
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.161	2.119	2.089	2.076	2.155	2.042
Stddev	.002	.003	.003	.004	.006	.003	.003
%RSD	.1070	.1250	.1311	.2078	.2945	.1290	.1494
#1	2.089	2.161	2.116	2.084	2.082	2.152	2.045
#2	2.090	2.163	2.118	2.091	2.070	2.157	2.042
#3	2.085	2.158	2.122	2.091	2.077	2.156	2.039
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:16:06 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1578.7	3202.1	23741.	9314.1
Stddev	4.1	4.0	59.	62.1
%RSD	.25758	.12486	.24724	.66620
#1	1581.2	3202.5	23809.	9306.5
#2	1580.8	3198.0	23714.	9379.7
#3	1574.0	3206.0	23701.	9256.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0016	-.0005	.0000	.0000	.0003	.0000	.0000	.0003	.0004
Stddev	.0003	.0025	.0005	.0001	.0000	.0007	.000	.0001	.0003	.0001
%RSD	60.40	156.5	97.16	194.7	151.6	246.4	8076.	318.3	115.5	29.97
#1	.0006	-.0015	-.0009	.0000	.0000	-.0005	-.0001	.0001	.0006	.0004
#2	.0001	-.0042	-.0005	.0000	.0000	.0009	.0000	.0002	.0002	.0003
#3	.0006	.0008	.0000	.0001	.0000	.0005	.0000	-.0001	.0000	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0057	.0049	.0001	.0003	.0163	-.0002	-.0001	-.0011	-.0004
Stddev	.0038	.0279	.0087	.0000	.0001	.0081	.0002	.0003	.0004	.0011
%RSD	110.1	488.7	178.6	21.14	52.90	49.83	125.4	486.4	35.69	309.9
#1	.0071	.0078	-.0033	.0001	.0004	.0255	.0001	-.0001	-.0009	.0004
#2	.0037	.0325	.0039	.0001	.0002	.0099	-.0004	-.0004	-.0008	-.0016
#3	-.0005	-.0232	.0140	.0001	.0002	.0136	-.0002	.0003	-.0015	.0002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0006	.0000	.0006	.0002	-.0002	.0000
Stddev	.0003	.0005	.0000	.0001	.0011	.0001	.000
%RSD	3.422	80.83	357.2	14.54	712.4	32.35	557.6
#1	.0094	.0006	.0000	.0006	.0006	-.0002	-.0001
#2	.0098	.0001	.0000	.0006	.0010	-.0002	-.0002
#3	.0101	.0010	.0000	.0005	-.0011	-.0001	.0002
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1906.8	3366.1	24859.	9358.5
Stddev	3.1	1.1	18.	7.5
%RSD	.16354	.03412	.07273	.08025
#1	1908.6	3364.9	24879.	9366.9
#2	1908.7	3367.1	24854.	9352.3
#3	1903.2	3366.3	24843.	9356.3

Zoom In Zoom Out

Sample Name: F95273-6 Acquired: 7/30/2012 14:24:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	70.24	.0043	.3097	.0024	2.129	-.0012	.0418	.1066	.0300
Stddev	.0004	.17	.0008	.0009	.0001	.019	.0002	.0002	.0002	.0001
%RSD	82.70	.2442	19.58	.2911	2.198	.8861	15.66	.4963	.1493	.2822
#1	.0006	70.04	.0048	.3087	.0024	2.116	-.0012	.0415	.1066	.0300
#2	.0000	70.34	.0048	.3105	.0023	2.121	-.0010	.0419	.1064	.0300
#3	.0008	70.34	.0033	.3098	.0024	2.151	-.0014	.0419	.1067	.0301

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	105.0	7.824	8.153	2.099	.0035	.4827	.0320	.0239	-.0010	.0012
Stddev	.5	.016	.041	.005	.0002	.0011	.0003	.0016	.0007	.0016
%RSD	.4319	.2080	.4995	.2336	4.462	.2305	1.088	6.866	76.09	135.3
#1	104.6	7.841	8.117	2.105	.0036	.4827	.0318	.0249	-.0018	.0011
#2	104.9	7.824	8.144	2.098	.0036	.4816	.0318	.0247	-.0004	.0027
#3	105.5	7.808	8.197	2.095	.0033	.4839	.0324	.0220	-.0007	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.30	.0156	.0203	3.737	-.0047	.1833	.1372
Stddev	.03	.0003	.0002	.008	.0007	.0010	.0006
%RSD	.1719	2.204	.9093	.2248	15.77	.5572	.4095
#1	19.34	.0160	.0201	3.747	-.0051	.1829	.1368
#2	19.29	.0154	.0204	3.732	-.0038	.1844	.1370
#3	19.28	.0155	.0204	3.733	-.0052	.1825	.1378

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1673.1	3715.5	27318.	10602.
Stddev	5.9	16.8	99.	57.
%RSD	.35465	.45211	.36119	.53446
#1	1666.5	3696.3	27222.	10634.
#2	1675.1	3722.8	27313.	10637.
#3	1677.8	3727.4	27419.	10537.

Zoom In Zoom Out

Sample Name: F95273-7 Acquired: 7/30/2012 14:28:57 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0003	97.59	.0685	1.755	.0069	11.14	.0033	.0884
Stddev	.0002	.19	.0011	.016	.0000	.02	.0002	.0004
%RSD	60.67	.1997	1.666	.9015	.3064	.1587	7.242	.4716
#1	.0002	97.81	.0679	1.767	.0069	11.15	.0032	.0886
#2	.0005	97.55	.0677	1.762	.0069	11.15	.0031	.0888
#3	.0001	97.42	.0698	1.737	.0069	11.12	.0036	.0880

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2308	.2665	237.7	12.79	11.25	F5.577	.0114	.4632
Stddev	.0010	.0007	1.2	.05	.06	.033	.0000	.0029
%RSD	.4392	.2535	.5234	.3869	.5390	.5833	.1524	.6198
#1	.2299	.2671	238.8	12.85	11.30	5.541	.0114	.4637
#2	.2319	.2665	237.9	12.76	11.28	5.586	.0114	.4601
#3	.2308	.2658	236.3	12.77	11.18	5.604	.0114	.4658

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1260	.4809	.0019	.0012	13.67	1.319	.0830	F4.482
Stddev	.0002	.0001	.0011	.0017	.01	.003	.0002	.017
%RSD	.1414	.0131	57.74	144.1	.0515	.1963	.1981	.3824
#1	.1258	.4808	.0021	.0026	13.66	1.317	.0832	4.469
#2	.1260	.4810	.0007	.0015	13.68	1.322	.0831	4.474
#3	.1261	.4809	.0029	-.0007	13.67	1.317	.0829	4.501

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0113	.2707	F6.875
Stddev	.0009	.0005	.012
%RSD	7.961	.1997	.1693
#1	-.0119	.2709	6.884
#2	-.0118	.2711	6.879
#3	-.0103	.2701	6.862

Zoom In Zoom Out

Sample Name: F95273-7 Acquired: 7/30/2012 14:28:57 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1618.2	5254.7	39441.	15415.
Stddev	1.9	4.4	13.	74.
%RSD	.11863	.08402	.03212	.48048
#1	1618.5	5249.9	39427.	15348.
#2	1619.9	5255.7	39450.	15404.
#3	1616.1	5258.6	39447.	15495.

Zoom In Zoom Out

Sample Name: F95273-8 Acquired: 7/30/2012 14:33:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0053	76.72	.1354	3.398	.0039	68.43	.2084	.1435
Stddev	.0001	.25	.0009	.017	.0000	.24	.0009	.0004
%RSD	1.036	.3255	.6755	.5031	1.239	.3444	.4372	.3116
#1	.0054	76.48	.1345	3.384	.0039	68.42	.2090	.1438
#2	.0053	76.72	.1363	3.417	.0039	68.21	.2087	.1430
#3	.0052	76.98	.1354	3.393	.0040	68.68	.2073	.1436

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.7690	1.330	F1106.	16.20	16.96	F18.92	.3159	2.066
Stddev	.0031	.001	4.	.09	.07	.04	.0004	.011
%RSD	.4006	.0652	.3367	.5607	.4394	.2283	.1138	.5141
#1	.7660	1.329	1107.	16.13	16.89	18.90	.3162	2.060
#2	.7687	1.331	1102.	16.30	16.94	18.97	.3155	2.078
#3	.7722	1.329	1109.	16.16	17.04	18.90	.3160	2.059

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.7288	2.786	.0373	F-.0345	19.44	F5.871	.3804	3.048
Stddev	.0013	.009	.0017	.0026	.03	.004	.0005	.009
%RSD	.1834	.3181	4.672	7.607	.1786	.0726	.1370	.2929
#1	.7282	2.780	.0354	-.0369	19.47	5.874	.3799	3.037
#2	.7279	2.796	.0375	-.0317	19.40	5.866	.3810	3.052
#3	.7304	2.781	.0389	-.0350	19.43	5.873	.3804	3.054

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0429	.1801	F7.586
Stddev	.0009	.0003	.013
%RSD	2.017	.1922	.1747
#1	-.0434	.1797	7.589
#2	-.0434	.1803	7.571
#3	-.0419	.1802	7.597

Zoom In Zoom Out

Sample Name: F95273-8 Acquired: 7/30/2012 14:33:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1609.9	3636.9	29652.	12086.
Stddev	3.8	11.1	10.	52.
%RSD	.23425	.30575	.03423	.42872
#1	1608.6	3624.0	29663.	12037.
#2	1606.9	3642.6	29642.	12140.
#3	1614.1	3644.0	29650.	12082.

Zoom In Zoom Out

Sample Name: F95273-9 Acquired: 7/30/2012 14:38:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	63.07	.0065	.2913	.0035	1.975	-.0010	.0244	.0948	.0369
Stddev	.0001	.06	.0004	.0009	.0000	.011	.0000	.0001	.0005	.0004
%RSD	126.8	.0935	5.996	.3000	.9442	.5613	1.590	.4446	.5472	.9600
#1	.0003	63.13	.0068	.2918	.0035	1.962	-.0010	.0244	.0953	.0367
#2	.0001	63.08	.0060	.2917	.0034	1.981	-.0010	.0243	.0947	.0373
#3	.0000	63.01	.0066	.2902	.0035	1.982	-.0009	.0245	.0943	.0367

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.54	7.015	7.464	.6754	.0046	.5372	.0313	.0258	-.0006	.0003
Stddev	.19	.015	.063	.0010	.0000	.0070	.0001	.0004	.0015	.0004
%RSD	.2135	.2145	.8488	.1439	.7163	1.302	.2756	1.359	252.3	163.1
#1	88.41	7.031	7.426	.6762	.0045	.5402	.0313	.0257	-.0016	.0001
#2	88.76	7.014	7.537	.6757	.0046	.5292	.0314	.0261	-.0012	-.0001
#3	88.45	7.001	7.429	.6743	.0046	.5421	.0313	.0254	.0011	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.03	.0149	.0168	3.490	-.0046	.1988	.1210
Stddev	.02	.0017	.0000	.006	.0013	.0008	.0002
%RSD	.0999	11.49	.0726	.1798	28.42	.4186	.1251
#1	16.04	.0168	.0168	3.495	-.0037	.1985	.1212
#2	16.02	.0134	.0168	3.492	-.0061	.1982	.1209
#3	16.05	.0147	.0168	3.483	-.0040	.1998	.1209

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1678.2	3809.3	28133.	10791.
Stddev	6.4	14.2	100.	39.
%RSD	.37889	.37369	.35481	.36050
#1	1671.9	3792.8	28028.	10782.
#2	1678.2	3816.9	28144.	10758.
#3	1684.6	3818.0	28227.	10834.

Zoom In Zoom Out

Sample Name: F95273-10 Acquired: 7/30/2012 14:42:39 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	66.66	.0049	.2931	.0025	1.906	-.0009	.0335	.0901	.0257
Stddev	.0001	.05	.0007	.0010	.0000	.008	.0001	.0001	.0005	.0003
%RSD	30.38	.0704	13.48	.3245	.0589	.4335	8.346	.1722	.6079	1.321
#1	.0003	66.62	.0043	.2938	.0025	1.899	-.0009	.0334	.0902	.0261
#2	.0005	66.71	.0056	.2935	.0025	1.906	-.0009	.0335	.0906	.0257
#3	.0004	66.66	.0048	.2921	.0025	1.915	-.0010	.0335	.0895	.0254

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	93.45	6.065	6.343	1.723	.0049	.5741	.0287	.0230	-.0007	.0001
Stddev	.11	.049	.004	.004	.0002	.0083	.0003	.0010	.0002	.0005
%RSD	.1217	.8037	.0649	.2013	3.963	1.439	1.028	4.536	29.35	406.6
#1	93.34	6.098	6.347	1.727	.0052	.5742	.0284	.0241	-.0006	.0003
#2	93.44	6.088	6.343	1.723	.0048	.5822	.0289	.0221	-.0006	-.0005
#3	93.57	6.009	6.339	1.720	.0048	.5657	.0289	.0226	-.0009	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.16	.0158	.0175	3.342	-.0035	.1687	.1144
Stddev	.02	.0002	.0001	.007	.0007	.0006	.0003
%RSD	.1090	1.389	.7788	.2184	19.02	.3801	.2517
#1	15.17	.0160	.0177	3.350	-.0043	.1690	.1143
#2	15.15	.0156	.0175	3.339	-.0031	.1680	.1147
#3	15.14	.0157	.0174	3.337	-.0031	.1691	.1142

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1694.5	3697.6	27282.	10516.
Stddev	5.4	12.4	86.	38.
%RSD	.31942	.33489	.31398	.36130
#1	1689.1	3684.8	27186.	10473.
#2	1699.9	3698.3	27306.	10539.
#3	1694.7	3709.6	27352.	10537.

Zoom In Zoom Out

Sample Name: F95273-11 Acquired: 7/30/2012 14:46:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	77.32	.0124	.4375	.0049	2.614	-.0009	.0372	.1178
Stddev	.0001	.15	.0002	.0031	.0000	.017	.0001	.0002	.0012
%RSD	47.10	.1991	1.918	.7113	.0724	.6659	11.65	.4542	1.028
#1	-.0002	77.28	.0123	.4396	.0049	2.595	-.0009	.0372	.1181
#2	-.0002	77.49	.0127	.4389	.0049	2.616	-.0008	.0374	.1189
#3	-.0001	77.19	.0124	.4339	.0049	2.630	-.0010	.0371	.1165

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0468	127.8	8.823	9.138	1.573	.0037	.5353	.0363	.0351
Stddev	.0005	.4	.026	.050	.004	.0001	.0023	.0004	.0003
%RSD	1.147	.2977	.2972	.5475	.2707	1.504	.4262	.9779	.9394
#1	.0467	127.4	8.836	9.085	1.577	.0037	.5379	.0365	.0352
#2	.0463	128.0	8.840	9.142	1.574	.0037	.5342	.0359	.0347
#3	.0473	128.1	8.793	9.185	1.569	.0036	.5338	.0365	.0353

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	-.0001	16.53	.0139	.0364	F4.220	-.0063	.2455	.1599
Stddev	.0006	.0004	.03	.0006	.0001	.001	.0007	.0012	.0006
%RSD	96.16	420.4	.1991	4.470	.3231	.0311	11.13	.4917	.3970
#1	-.0013	.0000	16.52	.0146	.0365	4.220	-.0057	.2451	.1606
#2	-.0002	.0003	16.57	.0137	.0364	4.221	-.0061	.2468	.1596
#3	-.0004	-.0006	16.51	.0134	.0363	4.219	-.0071	.2445	.1594

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1661.7	4188.4	31152.	12049.
Stddev	4.5	9.6	69.	10.
%RSD	.27198	.22985	.22225	.08354
#1	1656.8	4180.6	31096.	12052.
#2	1662.6	4185.3	31131.	12038.
#3	1665.7	4199.2	31229.	12058.

Zoom In Zoom Out

Sample Name: F95273-12 Acquired: 7/30/2012 14:51:12 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	68.37	.0074	.3884	.0028	2.131	-.0009	.0407	.1236
Stddev	.0001	.15	.0007	.0002	.0000	.015	.0002	.0001	.0007
%RSD	38.08	.2225	9.556	.0470	.6755	.6784	18.12	.2077	.5807
#1	.0003	68.20	.0074	.3882	.0028	2.115	-.0008	.0407	.1236
#2	.0002	68.49	.0081	.3884	.0027	2.137	-.0009	.0407	.1244
#3	.0005	68.41	.0067	.3886	.0028	2.141	-.0011	.0406	.1230

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0289	121.0	7.908	7.981	2.329	.0029	.5101	.0299	.0267
Stddev	.0001	.8	.043	.092	.004	.0001	.0050	.0003	.0005
%RSD	.3325	.6999	.5411	1.151	.1872	2.725	.9831	.8631	1.850
#1	.0290	120.0	7.957	7.878	2.334	.0029	.5064	.0301	.0263
#2	.0289	121.4	7.886	8.055	2.329	.0028	.5081	.0300	.0266
#3	.0289	121.6	7.880	8.009	2.325	.0029	.5158	.0296	.0272

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	.0016	17.03	.0164	.0203	F4.039	-.0049	.2010	.1365
Stddev	.0008	.0022	.04	.0004	.0000	.008	.0011	.0007	.0007
%RSD	133.0	137.7	.2076	2.213	.0990	.2001	23.36	.3578	.4816
#1	-.0007	-.0009	17.05	.0162	.0203	4.045	-.0046	.2013	.1361
#2	.0002	.0030	17.05	.0168	.0203	4.041	-.0062	.2014	.1361
#3	-.0013	.0028	16.99	.0162	.0203	4.030	-.0040	.2001	.1372

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1680.2	3775.8	28114.	10909.
Stddev	2.8	15.7	93.	55.
%RSD	.16634	.41459	.33161	.50752
#1	1678.5	3765.5	28023.	10973.
#2	1678.6	3768.0	28109.	10882.
#3	1683.4	3793.8	28209.	10872.

Zoom In Zoom Out

Sample Name: F95273-13 Acquired: 7/30/2012 14:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0015	315.1	.0268	2.632	.0158	7.304	.0043	.2104
Stddev	.0001	1.5	.0014	.035	.0000	.025	.0002	.0000
%RSD	8.748	.4636	5.176	1.309	.2930	.3381	5.164	.0018
#1	.0014	315.5	.0259	2.662	.0159	7.296	.0041	.2104
#2	.0016	313.5	.0261	2.639	.0158	7.285	.0046	.2104
#3	.0016	316.4	.0284	2.594	.0158	7.332	.0043	.2104

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.3812	.2304	291.4	29.16	26.70	F11.16	.0036	.8099
Stddev	.0005	.0003	1.3	.10	.06	.06	.0000	.0053
%RSD	.1231	.1506	.4624	.3518	.2231	.4951	1.114	.6577
#1	.3812	.2305	292.6	29.21	26.70	11.19	.0036	.8157
#2	.3807	.2300	290.0	29.04	26.64	11.20	.0036	.8051
#3	.3816	.2306	291.6	29.23	26.76	11.10	.0037	.8090

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1331	.3605	.0016	.0035	14.73	.0212	.1007	F9.229
Stddev	.0004	.0030	.0014	.0022	.01	.0003	.0001	.014
%RSD	.3005	.8333	85.46	61.46	.0948	1.369	.1249	.1559
#1	.1334	.3597	.0021	.0056	14.74	.0209	.1008	9.214
#2	.1327	.3580	.0001	.0013	14.72	.0211	.1005	9.229
#3	.1333	.3639	.0027	.0037	14.73	.0215	.1007	9.242

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0129	.8220	.5716
Stddev	.0007	.0009	.0019
%RSD	5.103	.1036	.3353
#1	-.0134	.8227	.5706
#2	-.0121	.8222	.5704
#3	-.0131	.8211	.5738

Zoom In Zoom Out

Sample Name: F95273-13 Acquired: 7/30/2012 14:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1510.3	6030.5	44701.	18032.
Stddev	1.9	11.8	66.	85.
%RSD	.12552	.19636	.14735	.46924
#1	1512.3	6016.9	44626.	17946.
#2	1510.1	6036.1	44749.	18116.
#3	1508.5	6038.6	44728.	18034.

Zoom In Zoom Out

Sample Name: F95273-14 Acquired: 7/30/2012 15:00:22 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	79.16	.0127	.3557	.0046	2.090	-.0008	.0325	.1040	.0428
Stddev	.0003	.01	.0004	.0019	.0000	.010	.0001	.0000	.0003	.0002
%RSD	96.62	.0143	3.158	.5238	1.052	.4856	12.50	.0682	.2648	.5785
#1	.0000	79.15	.0125	.3565	.0046	2.102	-.0009	.0326	.1037	.0426
#2	.0007	79.17	.0125	.3571	.0046	2.085	-.0007	.0325	.1041	.0431
#3	.0003	79.16	.0132	.3536	.0045	2.084	-.0009	.0325	.1042	.0428

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	117.2	6.825	7.086	1.665	.0062	.6746	.0316	.0272	-.0012	.0000
Stddev	.2	.043	.043	.002	.0000	.0045	.0001	.0000	.0001	.001
%RSD	.1916	.6349	.6065	.1344	.6861	.6661	.1995	.1424	9.017	5565.
#1	117.4	6.803	7.133	1.664	.0062	.6695	.0316	.0271	-.0013	.0015
#2	117.0	6.875	7.074	1.667	.0063	.6764	.0317	.0272	-.0011	-.0007
#3	117.2	6.798	7.050	1.663	.0062	.6779	.0316	.0272	-.0012	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.56	.0155	.0179	3.527	-.0035	.2029	.1280
Stddev	.02	.0006	.0000	.007	.0003	.0008	.0006
%RSD	.0869	4.100	.2036	.2107	7.586	.3793	.4521
#1	17.58	.0161	.0179	3.526	-.0032	.2025	.1275
#2	17.57	.0154	.0180	3.536	-.0035	.2038	.1279
#3	17.55	.0149	.0179	3.521	-.0037	.2025	.1286

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1663.8	3975.3	29412.	11394.
Stddev	2.9	12.9	113.	75.
%RSD	.17639	.32347	.38258	.65970
#1	1660.6	3962.2	29319.	11307.
#2	1666.5	3975.9	29379.	11433.
#3	1664.2	3987.9	29537.	11441.

Zoom In Zoom Out

Sample Name: MP23325-MB1 Acquired: 7/30/2012 15:04:39 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0047	-.0020	-.0002	-.0001	.0027	-.0001	.0000	.0003	-.0003
Stddev	.0004	.0014	.0008	.0001	.0000	.0011	.0001	.0001	.0001	.0001
%RSD	176.9	30.57	42.72	42.53	46.05	41.64	64.61	6712.	18.68	43.74
#1	-.0002	-.0062	-.0028	-.0001	-.0001	.0014	-.0001	.0000	.0004	-.0002
#2	.0002	-.0035	-.0020	-.0002	-.0001	.0033	.0000	.0000	.0003	-.0002
#3	.0007	-.0042	-.0011	-.0001	.0000	.0033	-.0001	-.0001	.0002	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0014	-.0069	.0001	-.0002	.0022	.0000	.0000	-.0010	-.0004
Stddev	.0031	.0154	.0093	.0000	.0001	.0025	.0001	.0005	.0004	.0007
%RSD	497.6	1079.	134.6	29.80	74.54	110.5	602.3	1263.	39.79	175.3
#1	.0042	.0105	.0038	.0000	-.0002	-.0003	.0001	.0002	-.0006	.0003
#2	-.0006	.0039	-.0130	.0001	-.0003	.0024	-.0001	-.0006	-.0014	-.0010
#3	-.0017	-.0188	-.0114	.0001	-.0001	.0046	.0001	.0005	-.0011	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161	-.0019	-.0001	.0006	-.0006	.0000	.0003
Stddev	.0007	.0002	.0000	.0001	.0008	.0001	.0000
%RSD	4.353	9.083	49.32	22.41	126.9	161.6	5.712
#1	.0169	-.0019	-.0001	.0008	-.0006	.0000	.0003
#2	.0158	-.0020	-.0001	.0005	-.0015	.0000	.0004
#3	.0156	-.0017	.0000	.0005	.0002	.0001	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23325-MB1 Acquired: 7/30/2012 15:04:39 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.4	3332.1	24983.	9565.1
Stddev	3.1	.2	75.	45.8
%RSD	.16531	.00526	.30120	.47845
#1	1891.6	3331.9	25057.	9523.6
#2	1893.9	3332.1	24907.	9614.2
#3	1897.8	3332.3	24985.	9557.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 15:09:08 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2503	39.81	2.041	2.129	2.014	39.67	2.025	2.011	2.027	2.110
Stddev	.0019	.04	.004	.005	.004	.10	.003	.001	.009	.003
%RSD	.7650	.0982	.1817	.2229	.1716	.2467	.1229	.0406	.4485	.1289
#1	.2484	39.77	2.044	2.125	2.010	39.57	2.022	2.011	2.022	2.108
#2	.2502	39.85	2.037	2.134	2.016	39.68	2.027	2.012	2.020	2.113
#3	.2522	39.82	2.043	2.127	2.016	39.77	2.026	2.010	2.037	2.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.50	42.18	38.64	2.050	2.011	42.19	2.048	2.014	2.037	2.026
Stddev	.07	.10	.11	.007	.002	.07	.004	.001	.002	.002
%RSD	.1980	.2341	.2759	.3540	.0849	.1712	.1717	.0486	.1157	.0941
#1	37.43	42.09	38.53	2.044	2.009	42.16	2.044	2.014	2.039	2.024
#2	37.51	42.28	38.67	2.048	2.013	42.27	2.050	2.015	2.038	2.028
#3	37.57	42.17	38.74	2.058	2.012	42.14	2.049	2.013	2.034	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.090	2.159	2.126	2.083	2.063	2.140	2.021
Stddev	.005	.004	.004	.004	.006	.003	.006
%RSD	.2194	.1709	.1880	.1720	.2811	.1610	.2976
#1	2.095	2.161	2.122	2.079	2.057	2.138	2.014
#2	2.086	2.155	2.130	2.083	2.069	2.139	2.025
#3	2.089	2.161	2.126	2.086	2.062	2.144	2.024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 15:09:08 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1574.8	3180.3	23666.	9265.1
Stddev	4.7	5.7	21.	8.3
%RSD	.30117	.17848	.08989	.08938
#1	1569.9	3174.3	23673.	9274.6
#2	1579.4	3185.6	23682.	9259.9
#3	1575.3	3181.0	23641.	9260.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 15:13:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0027	-.0005	.0000	.0001	.0032	.0001	.0002	.0005	.0005
Stddev	.0003	.0024	.0002	.0001	.0001	.0010	.0000	.0000	.0002	.0002
%RSD	62.72	87.31	51.45	519.1	46.22	30.59	51.33	19.96	48.16	42.84
#1	.0008	-.0002	-.0002	.0000	.0001	.0024	.0000	.0001	.0003	.0007
#2	.0002	-.0049	-.0006	-.0001	.0001	.0043	.0001	.0001	.0007	.0007
#3	.0005	-.0030	-.0006	.0001	.0001	.0029	.0001	.0002	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0031	-.0126	.0002	.0006	.0067	.0000	.0004	-.0007	.0001
Stddev	.0029	.0022	.0047	.0000	.0003	.0029	.000	.0008	.0007	.0014
%RSD	58.16	71.73	37.61	6.476	48.90	43.52	1872.	225.0	97.78	946.0
#1	.0084	-.0026	-.0102	.0002	.0009	.0069	.0001	.0011	-.0014	.0003
#2	.0036	-.0056	-.0095	.0002	.0007	.0096	.0000	.0004	-.0004	-.0013
#3	.0030	-.0012	-.0180	.0002	.0003	.0037	-.0002	-.0005	-.0002	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0005	.0001	.0003	.0012	.0002	.0000
Stddev	.0013	.0008	.0000	.0002	.0016	.0001	.000
%RSD	15.18	156.8	24.56	53.06	130.5	59.51	195.6
#1	.0097	-.0003	.0002	.0005	.0031	.0002	-.0001
#2	.0082	.0005	.0001	.0003	.0005	.0002	-.0001
#3	.0072	.0014	.0001	.0002	.0001	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 15:13:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1898.6	3349.7	24814.	9428.8
Stddev	4.9	3.4	46.	48.4
%RSD	.25565	.10078	.18430	.51343
#1	1893.0	3347.7	24771.	9406.7
#2	1901.5	3347.8	24809.	9484.3
#3	1901.4	3353.6	24862.	9395.3

Zoom In Zoom Out

Sample Name: MP23325-B1 Acquired: 7/30/2012 15:17:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482	27.37	2.010	2.214	.0520	25.18	.0515	.5140	.2087	.2720
Stddev	.0000	.06	.006	.009	.0002	.14	.0002	.0004	.0008	.0010
%RSD	.0988	.2062	.3238	.4105	.3902	.5740	.4454	.0737	.3805	.3514
#1	.0482	27.35	2.017	2.214	.0519	25.03	.0517	.5139	.2089	.2727
#2	.0481	27.34	2.008	2.205	.0519	25.31	.0514	.5136	.2078	.2709
#3	.0482	27.44	2.004	2.223	.0522	25.22	.0513	.5144	.2093	.2725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.53	26.86	24.03	.5268	.5306	26.97	.5336	.4905	.5117	2.028
Stddev	.10	.04	.22	.0018	.0005	.04	.0017	.0028	.0015	.003
%RSD	.3951	.1469	.9229	.3483	.0971	.1313	.3162	.5622	.2955	.1611
#1	25.42	26.83	23.78	.5285	.5308	26.99	.5342	.4884	.5131	2.025
#2	25.56	26.85	24.20	.5249	.5300	26.93	.5316	.4894	.5119	2.030
#3	25.61	26.91	24.10	.5270	.5310	26.98	.5348	.4936	.5101	2.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	.5639	.5573	.5446	2.059	.5348	.5152
Stddev	.0006	.0027	.0010	.0006	.003	.0008	.0004
%RSD	4.073	.4874	.1853	.1101	.1622	.1505	.0821
#1	.0136	.5638	.5578	.5451	2.060	.5352	.5152
#2	.0146	.5668	.5561	.5439	2.062	.5339	.5149
#3	.0135	.5613	.5580	.5447	2.056	.5354	.5157
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23325-B1 Acquired: 7/30/2012 15:17:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1645.1	3192.5	23713.	9267.6
Stddev	1.7	6.4	50.	51.9
%RSD	.10516	.20146	.20940	.55953
#1	1644.9	3185.1	23656.	9326.3
#2	1646.9	3195.7	23736.	9228.1
#3	1643.4	3196.8	23746.	9248.2

Zoom In
Zoom Out

Sample Name: F95334-1 Acquired: 7/30/2012 15:21:54 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	6.182	.0002	.0321	.0001	6.230	.0000	.0005	.0044	.0028
Stddev	.0004	.027	.0011	.0003	.0000	.031	.000	.0001	.0001	.0001
%RSD	231.4	.4392	497.3	.8607	16.26	.4980	33.55	13.53	3.020	4.460
#1	-.0003	6.151	.0004	.0318	.0001	6.220	-.0001	.0006	.0043	.0028
#2	.0004	6.200	.0012	.0323	.0001	6.205	.0000	.0005	.0044	.0030
#3	.0004	6.195	-.0009	.0323	.0000	6.265	.0000	.0006	.0045	.0028

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8392	4.592	2.402	.1533	.0019	34.29	.0021	.0005	-.0003	.0005
Stddev	.0011	.020	.016	.0002	.0001	.10	.0001	.0002	.0003	.0003
%RSD	.1260	.4376	.6784	.1342	6.671	.3045	4.040	34.94	92.16	58.51
#1	.8404	4.599	2.406	.1531	.0020	34.20	.0021	.0003	.0000	.0003
#2	.8389	4.570	2.383	.1535	.0017	34.40	.0020	.0007	-.0003	.0004
#3	.8383	4.609	2.415	.1532	.0018	34.26	.0021	.0005	-.0006	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.430	-.0012	.0524	.0060	.0000	.0069	.0147
Stddev	.004	.0003	.0002	.0001	.000	.0001	.0002
%RSD	.1820	22.78	.4750	1.946	780.6	1.485	1.070
#1	2.435	-.0013	.0524	.0060	-.0003	.0069	.0149
#2	2.427	-.0014	.0527	.0060	-.0002	.0070	.0148
#3	2.429	-.0009	.0522	.0058	.0004	.0068	.0146

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.9	3248.3	24116.	9387.2
Stddev	2.8	7.1	37.	29.3
%RSD	.16147	.21938	.15262	.31160
#1	1724.2	3240.8	24074.	9356.9
#2	1726.8	3249.3	24130.	9415.2
#3	1729.7	3254.9	24143.	9389.5

Zoom In
Zoom Out

Sample Name: MP23325-D1 Acquired: 7/30/2012 15:26:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	6.119	.0001	.0315	.0000	6.172	.0000	.0006	.0043	.0027
Stddev	.0003	.020	.0005	.0001	.0000	.016	.0001	.0001	.0002	.0001
%RSD	141.9	.3222	403.7	.3058	29.78	.2532	699.3	21.07	3.961	4.799
#1	.0001	6.110	-.0004	.0316	.0000	6.186	.0001	.0008	.0045	.0027
#2	.0005	6.142	.0006	.0314	.0001	6.155	.0000	.0006	.0042	.0026
#3	.0000	6.105	.0002	.0315	.0000	6.176	-.0001	.0006	.0043	.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8004	4.568	2.368	.1513	.0014	34.11	.0021	.0009	-.0004	.0011
Stddev	.0036	.028	.021	.0001	.0002	.05	.0001	.0004	.0005	.0023
%RSD	.4510	.6015	.8842	.0666	14.13	.1330	5.584	42.23	101.8	206.8
#1	.8021	4.537	2.358	.1512	.0015	34.17	.0021	.0006	.0001	.0037
#2	.8028	4.586	2.354	.1512	.0012	34.08	.0021	.0014	-.0007	-.0007
#3	.7962	4.582	2.392	.1514	.0016	34.10	.0023	.0008	-.0007	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.433	-.0013	.0519	.0058	.0007	.0070	.0146
Stddev	.005	.0002	.0001	.0005	.0008	.0004	.0001
%RSD	.2216	18.28	.1214	8.223	116.8	5.174	.6988
#1	2.428	-.0012	.0519	.0054	.0011	.0072	.0145
#2	2.433	-.0011	.0520	.0057	-.0002	.0066	.0147
#3	2.438	-.0016	.0519	.0063	.0011	.0073	.0147

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1738.8	3279.2	24354.	9537.4
Stddev	5.7	4.0	21.	48.4
%RSD	.32553	.12245	.08635	.50703
#1	1744.5	3283.4	24349.	9484.5
#2	1738.7	3275.4	24376.	9579.4
#3	1733.2	3278.9	24335.	9548.2

Zoom In
Zoom Out

Sample Name: MP23325-SD1 Acquired: 7/30/2012 15:30:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	6.068	.0011	.0316	-.0001	6.374	-.0003	.0004	.0043	.0046
Stddev	.0016	.036	.0043	.0003	.0001	.064	.0003	.0005	.0004	.0008
%RSD	298.2	.5867	379.0	.7974	92.83	.9975	101.7	135.5	9.507	18.23
#1	.0023	6.062	.0061	.0316	-.0001	6.321	-.0001	.0006	.0047	.0038
#2	-.0003	6.107	-.0016	.0313	.0000	6.444	-.0006	.0008	.0044	.0055
#3	-.0004	6.036	-.0010	.0318	-.0002	6.357	-.0001	-.0002	.0039	.0044

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7811	4.654	2.407	.1538	.0011	33.87	.0018	.0005	-.0072	.0038
Stddev	.0059	.042	.073	.0011	.0005	.04	.0002	.0039	.0010	.0018
%RSD	.7593	.9014	3.028	.7181	41.85	.1308	13.73	793.1	13.68	48.48
#1	.7819	4.702	2.339	.1529	.0016	33.83	.0020	.0049	-.0061	.0042
#2	.7866	4.637	2.484	.1536	.0010	33.86	.0019	-.0023	-.0076	.0054
#3	.7748	4.624	2.398	.1550	.0007	33.92	.0015	-.0012	-.0080	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.471	-.0005	.0513	.0030	.0055	.0068	.0148
Stddev	.013	.0020	.0002	.0007	.0007	.0009	.0002
%RSD	.5302	411.6	.4199	22.29	12.67	13.06	1.501
#1	2.459	.0006	.0515	.0030	.0048	.0076	.0147
#2	2.468	-.0028	.0514	.0037	.0061	.0059	.0146
#3	2.485	.0007	.0511	.0024	.0057	.0068	.0150

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1838.8	3319.3	24639.	9410.9
Stddev	2.8	9.7	54.	51.3
%RSD	.15485	.29136	.21867	.54510
#1	1838.5	3318.3	24605.	9439.2
#2	1836.1	3310.2	24701.	9351.7
#3	1841.8	3329.4	24611.	9441.9

Zoom In
Zoom Out

Sample Name: MP23325-PS1 Acquired: 7/30/2012 15:35:08 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0486	8.571	.1034	.3048	.0529	11.87	.0532	.0538	.0571	.1132
Stddev	.0008	.046	.0009	.0010	.0002	.02	.0001	.0002	.0002	.0004
%RSD	1.628	.5342	.8657	.3319	.3591	.1450	.1973	.4208	.4273	.3318
#1	.0488	8.522	.1029	.3036	.0527	11.85	.0533	.0540	.0570	.1132
#2	.0477	8.613	.1028	.3055	.0531	11.87	.0531	.0536	.0574	.1136
#3	.0493	8.577	.1044	.3051	.0528	11.89	.0532	.0537	.0569	.1129

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.790	15.27	7.101	.2035	.1046	44.57	.1097	.0495	.1031	.1018
Stddev	.017	.06	.037	.0009	.0003	.12	.0003	.0003	.0011	.0017
%RSD	.4579	.3885	.5209	.4534	.2513	.2673	.2791	.5539	1.088	1.715
#1	3.771	15.20	7.095	.2046	.1048	44.45	.1094	.0492	.1038	.1001
#2	3.792	15.31	7.067	.2030	.1044	44.69	.1099	.0497	.1036	.1017
#3	3.806	15.30	7.141	.2031	.1048	44.57	.1099	.0495	.1018	.1036

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.428	.0501	.1074	.1133	.1031	.0616	.3112
Stddev	.003	.0003	.0004	.0003	.0009	.0002	.0012
%RSD	.1296	.6882	.3734	.2664	.8495	.3512	.3873
#1	2.430	.0505	.1070	.1131	.1030	.0616	.3099
#2	2.424	.0500	.1078	.1132	.1022	.0613	.3123
#3	2.430	.0498	.1075	.1137	.1040	.0617	.3112

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1688.5	3220.1	23878.	9369.4
Stddev	4.0	11.3	94.	16.8
%RSD	.23841	.35144	.39268	.17923
#1	1684.4	3207.0	23772.	9380.3
#2	1692.4	3226.6	23916.	9377.9
#3	1688.7	3226.6	23947.	9350.1

Zoom In
Zoom Out

Sample Name: MP23325-S1 Acquired: 7/30/2012 15:39:25 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0501	34.04	2.084	2.293	.0535	31.75	.0522	.5219	.2185	.2831
Stddev	.0001	.03	.001	.007	.0001	.15	.0001	.0008	.0008	.0002
%RSD	.1957	.0958	.0333	.3026	.2110	.4788	.1785	.1576	.3536	.0762
#1	.0500	34.03	2.084	2.294	.0535	31.60	.0522	.5211	.2194	.2828
#2	.0500	34.07	2.084	2.300	.0534	31.77	.0521	.5219	.2179	.2832
#3	.0502	34.01	2.083	2.286	.0536	31.90	.0522	.5227	.2182	.2831

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.70	31.86	26.76	.6884	.5253	61.06	.5415	.5044	.5264	2.086
Stddev	.06	.01	.22	.0012	.0016	.07	.0004	.0035	.0022	.010
%RSD	.2326	.0336	.8091	.1729	.3021	.1106	.0649	.6970	.4118	.4759
#1	26.63	31.87	26.55	.6882	.5235	61.07	.5419	.5010	.5272	2.081
#2	26.75	31.86	26.74	.6873	.5265	61.12	.5413	.5041	.5240	2.081
#3	26.72	31.85	26.98	.6896	.5259	60.99	.5412	.5080	.5282	2.098

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.430	.5481	.6041	.5492	2.098	.5565	.5348
Stddev	.003	.0017	.0021	.0006	.006	.0003	.0005
%RSD	.1261	.3133	.3396	.1161	.2834	.0544	.0986
#1	2.428	.5490	.6039	.5487	2.096	.5564	.5354
#2	2.430	.5461	.6063	.5490	2.093	.5569	.5347
#3	2.434	.5492	.6022	.5499	2.105	.5563	.5344

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1596.4	3173.9	23426.	9322.6
Stddev	1.2	1.2	21.	24.7
%RSD	.07647	.03651	.08862	.26495
#1	1595.9	3172.9	23410.	9347.9
#2	1597.7	3175.2	23449.	9321.5
#3	1595.4	3173.7	23420.	9298.5

Zoom In
Zoom Out

Sample Name: MP23325-S2 Acquired: 7/30/2012 15:43:32 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0488	33.26	2.024	2.226	.0522	31.11	.0511	.5105	.2124	.2755
Stddev	.0001	.09	.006	.009	.0003	.02	.0001	.0008	.0006	.0013
%RSD	.2101	.2724	.3022	.4051	.5577	.0743	.1346	.1662	.2639	.4829
#1	.0487	33.16	2.020	2.220	.0521	31.10	.0510	.5096	.2117	.2751
#2	.0489	33.32	2.031	2.237	.0525	31.13	.0511	.5113	.2128	.2745
#3	.0488	33.30	2.021	2.223	.0520	31.09	.0512	.5105	.2126	.2770

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.11	31.11	26.23	.6657	.5149	59.57	.5288	.4899	.5105	2.035
Stddev	.05	.05	.03	.0016	.0005	.09	.0004	.0026	.0027	.011
%RSD	.1938	.1741	.1236	.2471	.0933	.1426	.0845	.5402	.5264	.5379
#1	26.08	31.07	26.25	.6645	.5144	59.49	.5287	.4869	.5126	2.045
#2	26.17	31.17	26.24	.6651	.5153	59.66	.5292	.4919	.5115	2.037
#3	26.10	31.09	26.19	.6676	.5151	59.57	.5283	.4910	.5075	2.023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.379	.5351	.5897	.5333	2.049	.5414	.5237
Stddev	.003	.0048	.0017	.0008	.005	.0009	.0002
%RSD	.1145	.8898	.2920	.1515	.2700	.1668	.0355
#1	2.377	.5394	.5887	.5331	2.043	.5423	.5239
#2	2.382	.5300	.5917	.5327	2.054	.5414	.5235
#3	2.378	.5359	.5888	.5342	2.050	.5405	.5238

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1598.5	3177.3	23563.	9297.0
Stddev	4.8	9.5	70.	36.3
%RSD	.30329	.29876	.29558	.39055
#1	1593.0	3168.0	23593.	9273.6
#2	1602.2	3176.9	23612.	9278.7
#3	1600.2	3187.0	23483.	9338.9

Zoom In
Zoom Out

Sample Name: F95342-1 Acquired: 7/30/2012 15:47:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.2049	.0001	.0806	.0000	113.2	-.0002	.0005	.0009	.0004
Stddev	.0003	.0082	.0006	.0004	.000	.3	.0001	.0000	.0001	.0001
%RSD	85.34	3.985	1009.	.4808	52.08	.2467	34.02	6.919	7.958	28.63
#1	.0004	.1961	-.0007	.0801	.0000	113.0	-.0002	.0005	.0008	.0004
#2	.0000	.2062	.0003	.0808	.0000	113.1	-.0001	.0005	.0009	.0002
#3	.0005	.2123	.0006	.0807	.0000	113.5	-.0002	.0005	.0009	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0315	8.259	12.90	.0228	.0321	5.051	.0010	-.0008	-.0012	.0036
Stddev	.0019	.045	.10	.0001	.0003	.015	.0002	.0005	.0007	.0024
%RSD	5.994	.5402	.7937	.2867	.9519	.3000	15.35	58.22	60.20	64.89
#1	.0322	8.259	12.88	.0227	.0323	5.068	.0012	-.0010	-.0008	.0011
#2	.0330	8.303	12.81	.0228	.0318	5.045	.0009	-.0003	-.0020	.0040
#3	.0294	8.214	13.01	.0229	.0323	5.040	.0010	-.0012	-.0007	.0058

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.530	-.0008	.2817	.0079	.0004	.0016	.0023
Stddev	.004	.0007	.0004	.0002	.0008	.0001	.0001
%RSD	.2659	98.72	.1589	2.891	182.3	3.448	5.977
#1	1.526	.0000	.2816	.0082	-.0004	.0016	.0023
#2	1.533	-.0008	.2822	.0078	.0012	.0015	.0022
#3	1.533	-.0015	.2813	.0077	.0005	.0015	.0025

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1643.3	3046.2	23417.	9372.2
Stddev	2.5	11.3	47.	23.1
%RSD	.14928	.37099	.19865	.24677
#1	1640.5	3058.5	23470.	9389.7
#2	1645.0	3044.0	23398.	9380.9
#3	1644.5	3036.2	23383.	9345.9

Zoom In Zoom Out

Sample Name: F95342-2 Acquired: 7/30/2012 15:52:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.2063	.0001	.0606	.0000	47.44	-.0001	.0005	.0007	.0007
Stddev	.0004	.0036	.0006	.0001	.000	.05	.0000	.0002	.0002	.0001
%RSD	272.5	1.745	1057.	.2023	90.11	.1119	88.28	34.00	29.92	14.91
#1	.0006	.2024	-.0006	.0605	.0000	47.44	-.0001	.0006	.0007	.0006
#2	.0000	.2095	.0005	.0607	-.0001	47.49	.0000	.0005	.0010	.0008
#3	-.0002	.2070	.0003	.0606	-.0001	47.38	.0000	.0003	.0005	.0008

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0161	4.271	6.015	.0272	.0150	8.102	.0009	-.0005	-.0008	.0013
Stddev	.0004	.012	.008	.0001	.0001	.029	.0002	.0007	.0006	.0012
%RSD	2.487	.2692	.1399	.4800	.3790	.3641	26.00	127.6	71.97	90.76
#1	.0165	4.276	6.017	.0272	.0150	8.104	.0010	.0001	-.0013	.0003
#2	.0157	4.258	6.021	.0274	.0150	8.071	.0011	-.0004	-.0002	.0026
#3	.0161	4.280	6.005	.0271	.0151	8.130	.0007	-.0012	-.0008	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.833	-.0018	.1367	.0073	-.0008	.0006	.0032
Stddev	.002	.0011	.0003	.0005	.0008	.0001	.0001
%RSD	.0881	59.90	.2189	7.040	100.0	22.20	1.858
#1	1.834	-.0027	.1367	.0068	.0000	.0007	.0032
#2	1.834	-.0006	.1364	.0073	-.0015	.0007	.0033
#3	1.831	-.0022	.1370	.0078	-.0009	.0005	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1717.6	3107.8	23952.	9566.6
Stddev	3.5	3.4	13.	15.6
%RSD	.20608	.10905	.05635	.16340
#1	1717.0	3104.0	23968.	9568.2
#2	1721.4	3108.6	23942.	9550.2
#3	1714.3	3110.7	23947.	9581.4

Zoom In Zoom Out

Sample Name: F95268-13F Acquired: 7/30/2012 15:56:33 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0382	.0019	.0189	-.0001	490.9	-.0011	.0006	-.0001
Stddev	.0002	.0046	.0012	.0001	.0000	1.4	.0000	.0001	.0001
%RSD	126.7	11.94	62.56	.5853	21.81	.2865	3.683	16.81	97.10
#1	-.0001	.0424	.0012	.0190	-.0001	491.3	-.0011	.0005	-.0001
#2	.0004	.0334	.0033	.0187	.0000	489.3	-.0011	.0006	.0000
#3	.0003	.0388	.0012	.0188	-.0001	492.1	-.0012	.0007	-.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0009	.2518	5.039	277.0	.7587	.0198	F700.3	.0009	.0033
Stddev	.0001	.0024	.038	1.1	.0006	.0002	14.4	.0003	.0003
%RSD	14.98	.9395	.7524	.3856	.0811	.7873	2.055	38.45	10.17
#1	-.0011	.2498	4.999	278.1	.7583	.0197	716.8	.0009	.0036
#2	-.0009	.2544	5.044	275.9	.7584	.0199	693.8	.0012	.0030
#3	-.0008	.2511	5.075	277.0	.7594	.0199	690.3	.0005	.0033

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0006	49.90	-.0028	F9.623	-.0056	.0001	.0076	.0007
Stddev	.0006	.0025	.05	.0002	.009	.0001	.0008	.0001	.0001
%RSD	78.66	424.7	.0975	7.244	.0912	1.734	600.9	1.215	8.938
#1	-.0008	-.0004	49.86	-.0026	9.613	-.0055	.0010	.0076	.0007
#2	-.0013	.0034	49.96	-.0030	9.630	-.0057	-.0001	.0077	.0006
#3	-.0001	-.0013	49.89	-.0029	9.626	-.0057	-.0006	.0075	.0007

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1234.4	2547.4	20044.	8939.9
Stddev	2.3	1.0	79.	56.1
%RSD	.18277	.04007	.39378	.62769
#1	1235.7	2547.3	20004.	8875.7
#2	1235.8	2546.3	19993.	8964.2
#3	1231.8	2548.4	20135.	8979.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:01:21 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494	40.03	2.097	2.179	1.993	37.86	2.026	2.031	1.974	2.171
Stddev	.0015	.12	.007	.008	.007	.27	.004	.004	.002	.005
%RSD	.5839	.3037	.3429	.3838	.3486	.7229	.2040	.2047	.1189	.2479
#1	.2500	39.93	2.091	2.174	1.985	37.59	2.022	2.027	1.972	2.167
#2	.2477	40.16	2.105	2.189	1.998	37.86	2.025	2.032	1.977	2.177
#3	.2504	39.99	2.095	2.175	1.996	38.14	2.030	2.035	1.974	2.171
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.56	42.85	36.66	2.017	2.052	43.20	2.068	1.974	2.121	2.097
Stddev	.19	.10	.29	.002	.002	.11	.005	.002	.004	.005
%RSD	.5218	.2399	.7875	.0846	.0800	.2632	.2386	.1050	.2129	.2454
#1	36.34	42.76	36.36	2.015	2.050	43.15	2.064	1.975	2.118	2.091
#2	36.67	42.96	36.67	2.019	2.052	43.33	2.066	1.976	2.126	2.101
#3	36.66	42.82	36.93	2.017	2.054	43.12	2.073	1.972	2.119	2.099
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.161	2.164	2.135	2.090	2.046	2.124	1.961
Stddev	.002	.005	.031	.004	.012	.004	.007
%RSD	.0724	.2269	1.464	.1944	.5835	.2122	.3353
#1	2.159	2.159	2.104	2.088	2.057	2.121	1.954
#2	2.161	2.167	2.136	2.095	2.048	2.121	1.961
#3	2.162	2.168	2.166	2.087	2.033	2.129	1.968
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:01:21 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1537.9	3040.9	23591.	9711.1
Stddev	3.5	1.6	37.	53.3
%RSD	.22533	.05151	.15530	.54834
#1	1535.7	3042.5	23559.	9770.6
#2	1536.1	3039.3	23584.	9694.9
#3	1541.9	3041.0	23631.	9667.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:05:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0029	-.0001	.0001	.0002	.0063	.0002	.0001	.0003	.0007
Stddev	.0001	.0033	.0006	.0000	.0000	.0007	.0000	.0001	.0000	.0001
%RSD	65.72	114.3	593.5	63.06	8.883	11.34	9.470	40.22	11.37	11.86
#1	.0004	.0009	-.0008	.0001	.0002	.0061	.0002	.0001	.0004	.0006
#2	.0002	-.0054	.0001	.0000	.0002	.0071	.0002	.0002	.0003	.0006
#3	.0001	-.0042	.0004	.0001	.0002	.0057	.0001	.0002	.0003	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0352	.0055	.0002	.0007	.0676	.0002	-.0001	-.0010	.0003
Stddev	.0041	.0167	.0061	.0001	.0003	.0010	.0002	.0004	.0002	.0009
%RSD	54.93	47.48	109.9	24.62	43.32	1.524	114.8	424.6	21.08	282.8
#1	.0122	.0522	-.0014	.0003	.0009	.0670	.0004	-.0003	-.0012	.0001
#2	.0056	.0343	.0100	.0002	.0007	.0688	.0000	.0003	-.0009	-.0005
#3	.0046	.0189	.0079	.0002	.0003	.0670	.0001	-.0003	-.0008	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0007	.0002	.0006	.0009	.0001	.0000
Stddev	.0003	.0007	.0000	.0001	.0007	.0002	.000
%RSD	3.901	104.7	11.95	18.36	77.42	273.6	259.7
#1	.0065	.0013	.0003	.0007	.0016	.0001	.0001
#2	.0067	.0008	.0002	.0005	.0007	-.0001	-.0002
#3	.0070	-.0001	.0002	.0005	.0003	.0002	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:05:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1878.4	3252.6	24924.	9885.0
Stddev	2.8	7.9	10.	61.4
%RSD	.14901	.24398	.04212	.62134
#1	1875.8	3243.7	24912.	9821.5
#2	1877.9	3255.1	24925.	9944.1
#3	1881.3	3258.9	24933.	9889.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:31:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2483	39.94	1.970	2.029	2.041	40.27	2.013	2.004	2.027	1.998
Stddev	.0023	.10	.003	.006	.003	.17	.002	.002	.007	.001
%RSD	.9415	.2517	.1590	.2994	.1370	.4202	.0885	.0778	.3472	.0394
#1	.2475	40.04	1.967	2.028	2.044	40.43	2.011	2.002	2.025	1.997
#2	.2465	39.94	1.973	2.035	2.039	40.09	2.013	2.003	2.035	1.999
#3	.2510	39.84	1.971	2.023	2.040	40.29	2.015	2.006	2.021	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.00	39.94	39.91	2.044	2.008	39.96	2.011	1.979	1.973	1.979
Stddev	.17	.03	.15	.006	.001	.06	.004	.004	.002	.008
%RSD	.4232	.0859	.3705	.2888	.0649	.1452	.2172	.2002	.1222	.4149
#1	40.19	39.91	40.08	2.043	2.008	39.98	2.010	1.984	1.973	1.969
#2	39.93	39.98	39.82	2.051	2.006	40.01	2.008	1.976	1.975	1.983
#3	39.88	39.93	39.83	2.039	2.009	39.90	2.016	1.979	1.970	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996	2.031	2.042	2.032	1.996	2.082	2.014
Stddev	.002	.002	.010	.004	.005	.002	.003
%RSD	.0902	.1122	.4870	.1711	.2308	.1024	.1365
#1	1.995	2.030	2.052	2.032	2.002	2.082	2.013
#2	1.995	2.033	2.040	2.035	1.995	2.085	2.013
#3	1.998	2.029	2.033	2.028	1.993	2.080	2.018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:31:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1553.4	3096.8	23400.	9463.8
Stddev	3.6	2.5	26.	64.5
%RSD	.23001	.08094	.11186	.68103
#1	1550.6	3095.5	23399.	9389.4
#2	1557.4	3099.7	23374.	9501.7
#3	1552.2	3095.2	23426.	9500.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:42:16 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0002	.0003	.0001	.0000	.0024	-.0001	.0000	.0001	-.0002
Stddev	.0002	.0010	.0002	.0000	.0000	.0011	.0001	.000	.0001	.0001
%RSD	52.97	394.5	58.59	30.72	126.3	46.89	70.24	254.3	66.02	76.02
#1	-.0006	.0013	.0004	.0001	.0000	.0021	-.0001	.0000	.0001	-.0002
#2	-.0004	-.0002	.0001	.0001	.0000	.0037	.0000	-.0001	.0000	-.0003
#3	-.0002	-.0004	.0003	.0001	.0000	.0015	-.0002	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112	.0131	.0074	.0001	.0003	-.0003	.0000	.0004	.0011	-.0016
Stddev	.0029	.0074	.0112	.0000	.0002	.0062	.0002	.0002	.0011	.0009
%RSD	26.13	56.44	152.2	12.70	53.65	2442.	1223.	60.72	93.85	54.74
#1	.0145	.0098	-.0051	.0001	.0004	.0013	-.0001	.0003	.0009	-.0020
#2	.0106	.0216	.0105	.0000	.0004	.0050	-.0001	.0006	.0002	-.0006
#3	.0087	.0080	.0166	.0000	.0001	-.0070	.0003	.0002	.0023	-.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0001	.0000	.0006	.0009	.0001	.0000
Stddev	.0008	.0003	.0000	.0001	.0006	.0001	.0001
%RSD	86.46	313.2	89.90	11.59	66.59	125.4	337.7
#1	.0017	.0004	.0000	.0006	.0005	.0001	.0000
#2	.0009	-.0002	.0000	.0005	.0017	.0001	.0001
#3	.0001	.0000	.0001	.0006	.0007	.0000	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:42:16 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.8	3250.3	24512.	9548.4
Stddev	6.3	8.2	69.	15.4
%RSD	.33661	.25183	.28166	.16120
#1	1874.4	3247.0	24570.	9552.3
#2	1878.2	3259.6	24529.	9531.5
#3	1865.9	3244.3	24436.	9561.5

Zoom In Zoom Out

Sample Name: F95288-1 Acquired: 7/30/2012 16:45:53 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	.0347	-.0005	.1169	-.0001	247.5	-.0006	.0024	-.0002
Stddev	.0007	.0079	.0011	.0004	.0000	.3	.0001	.0001	.0004
%RSD	128.4	22.62	204.7	.3776	7.561	.1221	9.102	5.122	219.5
#1	-.0005	.0432	-.0015	.1164	-.0001	247.8	-.0007	.0023	.0002
#2	-.0013	.0333	-.0007	.1171	-.0001	247.2	-.0006	.0025	-.0002
#3	.0001	.0277	.0006	.1172	-.0001	247.5	-.0006	.0023	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.0118	3.082	125.6	.5204	.0023	F734.6	.0013	-.0012
Stddev	.0001	.0002	.064	.2	.0012	.0001	9.4	.0001	.0005
%RSD	20.51	1.773	2.089	.1834	.2330	2.625	1.285	10.37	38.52
#1	-.0004	.0119	3.011	125.8	.5212	.0023	738.3	.0015	-.0014
#2	-.0006	.0120	3.098	125.7	.5209	.0024	741.6	.0012	-.0007
#3	-.0005	.0116	3.137	125.3	.5190	.0024	723.8	.0012	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	-.0018	11.22	-.0022	1.362	-.0011	-.0011	.0042	.0010
Stddev	.0004	.0024	.04	.0009	.004	.0001	.0015	.0004	.0000
%RSD	26.39	129.8	.3528	42.70	.2826	10.72	134.6	8.829	4.090
#1	.0015	-.0015	11.21	-.0025	1.357	-.0010	.0006	.0043	.0010
#2	.0020	-.0043	11.19	-.0030	1.365	-.0012	-.0023	.0046	.0010
#3	.0012	.0004	11.27	-.0012	1.363	-.0010	-.0017	.0039	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1288.2	2595.4	19955.	8841.6
Stddev	2.9	9.6	43.	21.1
%RSD	.22528	.36958	.21428	.23830
#1	1286.9	2595.2	19976.	8818.4
#2	1291.5	2605.0	19984.	8846.6
#3	1286.2	2585.8	19906.	8859.7

Zoom In Zoom Out

Sample Name: F95288-2 Acquired: 7/30/2012 16:50:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0007	.0188	.0013	.0670	-.0001	171.7	-.0005	.0010	.0002
Stddev	.0002	.0041	.0004	.0001	.0000	1.0	.0000	.0001	.0001
%RSD	28.88	21.97	34.32	.1847	24.35	.5984	5.695	7.266	74.73
#1	-.0009	.0140	.0018	.0672	-.0001	170.7	-.0005	.0011	.0001
#2	-.0005	.0214	.0012	.0669	-.0001	171.6	-.0005	.0009	.0001
#3	-.0007	.0210	.0009	.0670	-.0001	172.8	-.0006	.0010	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0010	.7428	2.852	79.51	.2661	.0006	F681.9	.0003	-.0006
Stddev	.0001	.0028	.025	.70	.0013	.0002	5.7	.0001	.0005
%RSD	5.201	.3832	.8627	.8747	.4773	27.48	.8324	38.15	87.14
#1	-.0010	.7395	2.824	78.72	.2646	.0004	677.8	.0004	-.0001
#2	-.0011	.7446	2.864	79.78	.2668	.0007	679.5	.0003	-.0005
#3	-.0010	.7443	2.868	80.03	.2668	.0008	688.4	.0002	-.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0017	8.405	-.0032	.9352	-.0004	-.0006	.0007	.0005
Stddev	.0007	.0009	.027	.0009	.0009	.0001	.0012	.0003	.0001
%RSD	232.8	51.52	.3253	27.04	.1014	20.97	197.7	45.42	9.885
#1	.0004	-.0019	8.390	-.0026	.9363	-.0005	.0004	.0003	.0005
#2	-.0004	-.0025	8.388	-.0042	.9347	-.0003	-.0003	.0009	.0006
#3	-.0009	-.0008	8.436	-.0029	.9347	-.0004	-.0020	.0009	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1317.1	2631.1	20135.	8909.7
Stddev	9.4	11.4	24.	45.1
%RSD	.71348	.43476	.11726	.50600
#1	1320.6	2635.6	20157.	8960.3
#2	1324.3	2639.7	20139.	8894.7
#3	1306.5	2618.1	20110.	8874.0

Zoom In Zoom Out

Sample Name: F95288-1F Acquired: 7/30/2012 16:55:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	.0271	-.0016	.1266	-.0001	226.0	-.0006	.0016	.0000
Stddev	.0004	.0078	.0006	.0006	.0000	1.3	.0001	.0001	.000
%RSD	89.28	28.70	36.01	.4791	12.43	.5769	12.43	6.138	975.4
#1	-.0001	.0201	-.0021	.1263	-.0001	226.2	-.0007	.0017	.0001
#2	-.0003	.0256	-.0018	.1262	-.0001	224.6	-.0005	.0017	-.0001
#3	-.0008	.0355	-.0010	.1273	-.0001	227.2	-.0007	.0015	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	.0078	2.770	116.2	.4919	.0029	F680.0	.0013	-.0005
Stddev	.0001	.0008	.021	.6	.0006	.0001	4.0	.0001	.0002
%RSD	99.99	10.56	.7506	.5147	.1295	4.117	.5839	6.465	28.55
#1	.0001	.0082	2.749	116.2	.4924	.0029	678.7	.0012	-.0004
#2	.0001	.0083	2.769	115.6	.4912	.0027	684.4	.0012	-.0006
#3	.0000	.0068	2.791	116.8	.4921	.0030	676.8	.0014	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0005	-.0021	11.29	-.0022	1.302	-.0011	.0001	.0047	.0155
Stddev	.0011	.0014	.01	.0007	.003	.0001	.0007	.0003	.0002
%RSD	199.4	65.96	.1082	32.93	.2365	10.86	503.7	6.416	.9700
#1	-.0016	-.0006	11.30	-.0024	1.299	-.0009	.0001	.0049	.0154
#2	-.0005	-.0026	11.29	-.0014	1.301	-.0011	-.0006	.0048	.0155
#3	.0005	-.0033	11.28	-.0027	1.305	-.0011	.0008	.0044	.0157

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1292.1	2572.3	19844.	8768.2
Stddev	1.9	5.3	36.	46.0
%RSD	.14504	.20605	.18324	.52506
#1	1290.0	2566.9	19804.	8744.5
#2	1292.8	2572.6	19853.	8821.3
#3	1293.5	2577.5	19875.	8738.8

Zoom In Zoom Out

Sample Name: F95288-2F Acquired: 7/30/2012 16:59:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.0190	.0010	.0685	-.0001	173.7	-.0005	.0010	-.0001
Stddev	.0006	.0043	.0003	.0003	.0001	1.3	.0001	.0001	.0001
%RSD	108.8	22.47	35.55	.3656	56.28	.7759	14.90	7.259	56.54
#1	-.0010	.0199	.0011	.0683	-.0002	172.7	-.0006	.0011	-.0002
#2	-.0006	.0227	.0006	.0686	-.0001	173.0	-.0005	.0011	-.0001
#3	.0001	.0143	.0012	.0687	-.0001	175.2	-.0005	.0009	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.5956	2.803	80.44	.2682	.0007	F694.3	.0007	-.0009
Stddev	.0001	.0042	.014	.27	.0007	.0001	3.1	.0001	.0007
%RSD	27.71	.7001	.4817	.3307	.2505	12.08	.4419	20.11	82.02
#1	-.0004	.5924	2.789	80.25	.2688	.0006	692.2	.0008	-.0013
#2	-.0004	.5941	2.802	80.33	.2681	.0008	693.0	.0006	-.0001
#3	-.0007	.6003	2.816	80.75	.2675	.0007	697.9	.0006	-.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0000	8.592	-.0023	.9490	-.0006	-.0011	.0004	.0067
Stddev	.0010	.001	.028	.0009	.0020	.0001	.0015	.0003	.0001
%RSD	345.1	6945.	.3273	39.92	.2107	10.67	139.5	70.71	1.602
#1	-.0009	-.0015	8.623	-.0012	.9469	-.0006	-.0025	.0007	.0065
#2	.0007	.0004	8.569	-.0027	.9509	-.0005	-.0010	.0005	.0067
#3	.0011	.0011	8.583	-.0029	.9492	-.0007	.0004	.0001	.0067

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1312.4	2611.3	20045.	8814.7
Stddev	2.6	6.6	43.	19.4
%RSD	.19613	.25258	.21244	.22018
#1	1309.4	2603.7	20017.	8823.0
#2	1313.9	2614.7	20024.	8828.7
#3	1313.8	2615.6	20094.	8792.6

Zoom In Zoom Out

Sample Name: F95289-1 Acquired: 7/30/2012 17:04:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0008	.0909	.0013	.4661	-.0001	F858.3	-.0020	.0084	.0007
Stddev	.0003	.0052	.0008	.0016	.0000	6.9	.0001	.0002	.0004
%RSD	36.00	5.728	61.97	.3349	31.42	.8043	3.737	2.062	63.10
#1	.0005	.0886	.0007	.4679	-.0001	850.6	-.0020	.0082	.0007
#2	.0010	.0872	.0022	.4654	-.0001	864.1	-.0020	.0083	.0011
#3	.0010	.0968	.0010	.4650	-.0002	860.1	-.0019	.0085	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0015	1.377	37.91	F673.1	F7.646	.0032	F1197.	.0028	-.0006
Stddev	.0005	.006	.09	3.3	.060	.0003	2.	.0005	.0017
%RSD	34.00	.4666	.2412	.4884	.7844	8.402	.1399	17.87	264.6
#1	-.0010	1.370	38.01	670.7	7.580	.0031	1196.	.0023	.0010
#2	-.0021	1.383	37.85	676.9	7.698	.0035	1199.	.0027	-.0024
#3	-.0015	1.378	37.86	671.8	7.660	.0031	1197.	.0033	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0035	13.99	-.0031	F10.50	-.0118	.0014	-.0003	.0004
Stddev	.0015	.0044	.05	.0009	.12	.0002	.0012	.0002	.0001
%RSD	391.7	125.4	.3617	28.36	1.165	1.314	83.51	58.00	32.24
#1	.0014	.0006	13.93	-.0035	10.60	-.0119	.0005	-.0002	.0002
#2	.0011	-.0081	14.02	-.0021	10.37	-.0119	.0010	-.0003	.0005
#3	-.0014	-.0030	14.02	-.0038	10.54	-.0116	.0027	-.0006	.0004

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1080.9	2233.9	17602.	8106.8
Stddev	5.8	7.8	10.	26.3
%RSD	.53230	.34932	.05495	.32423
#1	1086.3	2242.7	17609.	8114.1
#2	1081.6	2231.2	17607.	8077.7
#3	1074.8	2227.8	17591.	8128.7

Zoom In Zoom Out

Sample Name: F95289-2 Acquired: 7/30/2012 17:09:39 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0510	.0009	.2001	-.0002	F529.0	-.0014	.0047	.0003
Stddev	.0007	.0096	.0009	.0017	.0000	2.6	.0001	.0000	.0003
%RSD	139.8	18.83	102.0	.8262	3.917	.4976	4.264	.8651	104.5
#1	.0000	.0615	.0017	.1988	-.0001	526.1	-.0013	.0047	.0000
#2	.0002	.0486	.0010	.2020	-.0002	529.8	-.0013	.0047	.0006
#3	.0013	.0428	-.0001	.1995	-.0001	531.1	-.0014	.0048	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0016	.5062	25.40	461.5	F4.755	.0026	F1346.	.0026	-.0013
Stddev	.0003	.0035	.12	3.1	.018	.0000	2.	.0002	.0009
%RSD	17.76	.6828	.4782	.6702	.3786	.8469	.1753	6.222	70.02
#1	-.0013	.5081	25.26	459.5	4.768	.0027	1349.	.0028	-.0018
#2	-.0017	.5083	25.50	465.0	4.761	.0026	1345.	.0027	-.0017
#3	-.0019	.5022	25.43	459.9	4.734	.0027	1345.	.0024	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0004	-.0048	13.19	-.0021	F6.431	-.0064	.0007	.0001	.0004
Stddev	.0001	.0006	.01	.0009	.042	.0000	.0016	.0000	.0001
%RSD	27.83	11.94	.0537	41.85	.6489	.2270	222.8	32.12	30.39
#1	-.0004	-.0044	13.19	-.0011	6.418	-.0064	-.0005	.0002	.0005
#2	-.0003	-.0054	13.18	-.0023	6.398	-.0064	.0025	.0001	.0003
#3	-.0005	-.0044	13.19	-.0029	6.478	-.0064	.0001	.0001	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1101.7	2283.0	17731.	8214.5
Stddev	.1	5.9	50.	30.9
%RSD	.01100	.25737	.28129	.37588
#1	1101.6	2276.3	17708.	8235.3
#2	1101.8	2287.1	17696.	8179.0
#3	1101.6	2285.7	17788.	8229.1

Zoom In Zoom Out

Sample Name: F95289-3 Acquired: 7/30/2012 17:14:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0628	-.0028	.0826	-.0001	F963.6	-.0015	.0068	-.0002
Stddev	.0004	.0044	.0005	.0003	.0000	6.0	.0000	.0001	.0007
%RSD	44.57	7.002	19.28	.3215	30.00	.6233	1.179	1.342	319.4
#1	.0005	.0579	-.0031	.0825	-.0001	956.7	-.0015	.0067	.0005
#2	.0011	.0640	-.0022	.0824	-.0002	967.8	-.0015	.0069	-.0003
#3	.0013	.0664	-.0032	.0829	-.0001	966.3	-.0015	.0068	-.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0018	-.0062	46.03	F999.1	F8.288	.0021	F1863.	.0019	.0009
Stddev	.0002	.0016	.08	6.8	.006	.0002	25.	.0002	.0009
%RSD	9.453	25.48	.1835	.6816	.0738	10.53	1.351	11.64	102.0
#1	-.0016	-.0075	46.12	991.3	8.281	.0024	1892.	.0021	-.0001
#2	-.0018	-.0044	45.97	1002.	8.293	.0021	1850.	.0017	.0011
#3	-.0019	-.0066	45.99	1004.	8.290	.0019	1847.	.0020	.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	-.0064	14.26	-.0035	F14.57	-.0181	.0016	.0012	.0011
Stddev	.0005	.0005	.02	.0004	.12	.0002	.0009	.0005	.0002
%RSD	313.8	8.136	.1330	12.19	.8125	.8750	55.74	41.52	19.57
#1	.0002	-.0059	14.25	-.0038	14.56	-.0181	.0015	.0018	.0009
#2	-.0004	-.0069	14.24	-.0038	14.69	-.0183	.0007	.0009	.0013
#3	.0006	-.0064	14.27	-.0030	14.46	-.0179	.0025	.0009	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	952.14	2059.0	15929.	7687.2
Stddev	.81	2.8	27.	27.5
%RSD	.08536	.13576	.16793	.35747
#1	952.84	2057.0	15899.	7718.9
#2	951.25	2062.2	15943.	7670.9
#3	952.34	2057.8	15947.	7671.8

Zoom In Zoom Out

Sample Name: F95289-4 Acquired: 7/30/2012 17:19:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0751	.0042	.2306	-.0002	F1253.	-.0028	.0095	.0008
Stddev	.0007	.0115	.0014	.0007	.0000	10.	.0000	.0001	.0002
%RSD	64.47	15.33	33.92	.2943	22.35	.7854	1.259	1.561	23.67
#1	.0004	.0686	.0039	.2314	-.0001	1244.	-.0027	.0095	.0009
#2	.0017	.0684	.0029	.2302	-.0002	1264.	-.0028	.0097	.0006
#3	.0011	.0884	.0058	.2303	-.0002	1250.	-.0027	.0094	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0029	1.040	53.53	F1065.	F10.89	.0019	F1783.	.0049	-.0012
Stddev	.0002	.004	.09	7.	.12	.0004	14.	.0001	.0015
%RSD	6.862	.3534	.1632	.6970	1.064	19.20	.7676	2.949	120.0
#1	-.0028	1.040	53.55	1062.	10.77	.0015	1789.	.0048	-.0026
#2	-.0032	1.043	53.60	1073.	10.91	.0022	1793.	.0051	.0004
#3	-.0029	1.036	53.43	1059.	11.00	.0021	1767.	.0049	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0020	-.0063	14.09	-.0029	F16.49	-.0248	.0044	-.0006	-.0014
Stddev	.0015	.0007	.03	.0009	.09	.0001	.0020	.0001	.0002
%RSD	74.39	11.10	.1947	29.68	.5487	.3930	45.62	23.04	13.05
#1	.0005	-.0071	14.07	-.0037	16.45	-.0247	.0021	-.0006	-.0012
#2	.0021	-.0058	14.07	-.0020	16.43	-.0249	.0059	-.0005	-.0015
#3	.0035	-.0061	14.12	-.0029	16.60	-.0248	.0050	-.0008	-.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	950.63	2039.4	16098.	7649.7
Stddev	2.88	5.4	30.	40.4
%RSD	.30338	.26420	.18386	.52809
#1	951.58	2040.8	16105.	7639.0
#2	952.92	2044.0	16123.	7615.7
#3	947.39	2033.5	16065.	7694.3

Zoom In Zoom Out

Sample Name: F95289-5 Acquired: 7/30/2012 17:24:27 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0519	-.0039	.0789	-.0002	F663.1	-.0001	.0035	-.0001
Stddev	.0003	.0063	.0016	.0002	.0000	3.9	.0000	.0000	.0004
%RSD	95.67	12.15	42.12	.2875	.9193	.5949	20.77	.8651	616.8
#1	.0000	.0455	-.0025	.0789	-.0002	661.5	-.0001	.0035	-.0003
#2	.0006	.0522	-.0034	.0786	-.0002	667.6	-.0001	.0035	.0004
#3	.0004	.0581	-.0057	.0790	-.0002	660.2	-.0001	.0035	-.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0014	-.0032	31.66	F671.2	F4.106	.0018	F1568.	.0008	-.0004
Stddev	.0002	.0009	.08	5.4	.006	.0001	21.	.0001	.0003
%RSD	11.68	27.46	.2394	.8067	.1514	7.997	1.319	17.73	74.39
#1	-.0013	-.0026	31.69	667.8	4.101	.0017	1590.	.0008	-.0007
#2	-.0012	-.0042	31.57	677.5	4.113	.0017	1565.	.0007	-.0002
#3	-.0015	-.0028	31.71	668.5	4.105	.0020	1549.	.0010	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	-.0034	12.54	-.0042	F9.624	-.0097	.0019	.0004	.0033
Stddev	.0004	.0040	.03	.0010	.093	.0001	.0012	.0002	.0002
%RSD	28.48	118.5	.2384	23.21	.9663	.9886	64.43	54.68	4.620
#1	.0010	-.0002	12.50	-.0051	9.549	-.0097	.0026	.0003	.0033
#2	.0017	-.0020	12.56	-.0045	9.728	-.0098	.0005	.0006	.0032
#3	.0017	-.0080	12.55	-.0032	9.594	-.0096	.0025	.0003	.0035

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1040.0	2182.6	16995.	7855.8
Stddev	.8	5.3	39.	50.8
%RSD	.07285	.24224	.22669	.64654
#1	1040.5	2187.2	17004.	7853.5
#2	1039.1	2176.9	16953.	7806.2
#3	1040.4	2183.9	17028.	7907.7

Zoom In Zoom Out

Sample Name: F95289-6 Acquired: 7/30/2012 17:29:18 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0478	-.0003	.0489	-.0001	F638.3	-.0016	.0027	-.0004
Stddev	.0003	.0077	.0008	.0003	.0000	1.3	.0001	.0001	.0006
%RSD	117.2	16.22	280.4	.5188	12.79	.2095	3.824	2.741	170.4
#1	-.0002	.0398	-.0003	.0489	-.0001	637.5	-.0017	.0026	-.0005
#2	-.0006	.0553	.0005	.0486	-.0002	639.9	-.0016	.0027	-.0009
#3	.0000	.0482	-.0011	.0491	-.0001	637.5	-.0016	.0027	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0018	.3083	13.40	251.5	2.639	.0006	F1407.	.0010	-.0014
Stddev	.0001	.0024	.02	.6	.009	.0000	22.	.0001	.0012
%RSD	6.724	.7865	.1749	.2346	.3203	6.376	1.531	6.041	87.95
#1	-.0017	.3072	13.42	250.8	2.630	.0006	1425.	.0010	-.0027
#2	-.0019	.3067	13.38	251.8	2.647	.0006	1412.	.0009	-.0009
#3	-.0017	.3111	13.39	251.8	2.640	.0006	1383.	.0010	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	-.0013	12.46	-.0026	F4.507	-.0085	.0002	-.0004	-.0007
Stddev	.0007	.0020	.06	.0006	.028	.0001	.0007	.0000	.0002
%RSD	314.5	150.6	.4610	21.15	.6183	.7218	404.1	6.994	31.38
#1	.0005	-.0028	12.40	-.0024	4.505	-.0084	.0009	-.0004	-.0009
#2	-.0003	.0009	12.50	-.0032	4.480	-.0085	-.0005	-.0003	-.0007
#3	-.0009	-.0021	12.49	-.0022	4.535	-.0086	.0000	-.0004	-.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1091.8	2261.2	17907.	8131.9
Stddev	2.0	14.9	14.	26.3
%RSD	.18006	.65743	.07660	.32310
#1	1093.6	2278.2	17904.	8116.1
#2	1092.0	2250.6	17894.	8117.5
#3	1089.7	2254.8	17921.	8162.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 17:34:07 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	41.42	2.031	2.107	2.014	38.65	2.034	2.056	2.006	1.993
Stddev	.0035	.11	.004	.006	.007	.24	.002	.005	.006	.011
%RSD	1.426	.2588	.1912	.2801	.3589	.6335	.1090	.2281	.3031	.5310
#1	.2525	41.35	2.028	2.104	2.006	38.40	2.031	2.051	2.011	2.005
#2	.2475	41.55	2.030	2.113	2.018	38.65	2.035	2.057	2.000	1.988
#3	.2457	41.37	2.035	2.102	2.019	38.89	2.036	2.061	2.009	1.985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.38	41.34	37.77	2.035	2.072	41.14	2.030	1.929	2.044	2.045
Stddev	.20	.12	.25	.010	.008	.08	.002	.006	.006	.003
%RSD	.5132	.2807	.6558	.5025	.3704	.1953	.1202	.3101	.2746	.1546
#1	38.16	41.44	37.54	2.046	2.065	41.21	2.027	1.935	2.039	2.041
#2	38.49	41.37	37.74	2.026	2.070	41.17	2.030	1.928	2.044	2.044
#3	38.50	41.21	38.03	2.033	2.080	41.05	2.032	1.923	2.050	2.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.052	1.990	2.073	2.030	1.954	2.037	1.978
Stddev	.005	.005	.009	.009	.003	.009	.002
%RSD	.2314	.2440	.4147	.4363	.1489	.4562	.0783
#1	2.046	1.987	2.083	2.040	1.957	2.046	1.976
#2	2.054	1.996	2.068	2.023	1.954	2.028	1.979
#3	2.055	1.989	2.069	2.028	1.951	2.036	1.978
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 17:34:07 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1542.0	2971.4	23419.	9177.9
Stddev	1.3	7.6	99.	19.9
%RSD	.08650	.25508	.42364	.21664
#1	1542.4	2980.1	23304.	9200.8
#2	1540.5	2967.9	23474.	9167.8
#3	1543.0	2966.1	23478.	9165.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 17:38:20 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0040	.0001	.0003	.0002	.0065	.0001	.0002	.0000	-.0001
Stddev	.0002	.0033	.0007	.0001	.0000	.0013	.0000	.0001	.0001	.0002
%RSD	46.67	82.23	592.7	36.00	20.68	20.61	64.53	49.35	1272.	171.5
#1	-.0006	.0053	.0003	.0004	.0002	.0065	.0001	.0003	.0001	.0001
#2	-.0003	.0003	.0007	.0002	.0001	.0052	.0000	.0001	-.0001	-.0004
#3	-.0003	.0064	-.0007	.0003	.0001	.0079	.0001	.0002	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202	-.0017	.0085	.0002	.0009	.1824	.0001	-.0004	.0013	-.0013
Stddev	.0035	.0138	.0056	.0000	.0002	.0061	.0001	.0005	.0003	.0006
%RSD	17.22	815.6	65.35	11.27	26.73	3.362	130.8	129.0	22.68	46.22
#1	.0235	.0111	.0147	.0002	.0012	.1891	.0001	-.0007	.0016	-.0012
#2	.0206	-.0163	.0068	.0002	.0007	.1810	.0002	-.0007	.0013	-.0007
#3	.0165	.0001	.0040	.0001	.0008	.1771	.0000	.0002	.0010	-.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	.0002	.0013	.0014	.0001	.0001
Stddev	.0004	.0006	.0000	.0002	.0001	.0000	.0001
%RSD	72.51	491.2	20.71	14.67	6.106	16.25	71.55
#1	.0003	.0003	.0003	.0014	.0015	.0001	.0000
#2	.0010	.0007	.0002	.0015	.0013	.0001	.0001
#3	.0003	-.0006	.0002	.0011	.0013	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 17:38:20 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1873.9	3168.7	24608.	9315.2
Stddev	3.0	10.0	46.	19.3
%RSD	.16252	.31567	.18597	.20704
#1	1870.6	3158.2	24625.	9294.7
#2	1874.3	3169.9	24556.	9317.9
#3	1876.7	3178.1	24642.	9332.9

Zoom In Zoom Out

Sample Name: F95289-7 Acquired: 7/30/2012 17:42:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.0013	-.0022	.0578	-.0001	1.686	-.0002	.0000	-.0003	-.0015
Stddev	.0004	.0026	.0007	.0003	.0000	.012	.0000	.0001	.0002	.0002
%RSD	65.87	198.6	34.10	.5951	16.20	.7130	17.18	817.6	84.23	13.15
#1	-.0003	.0030	-.0029	.0580	-.0001	1.681	-.0002	-.0001	-.0005	-.0013
#2	-.0005	-.0017	-.0014	.0581	-.0001	1.677	-.0001	.0001	-.0001	-.0017
#3	-.0010	.0026	-.0022	.0574	-.0001	1.699	-.0002	.0001	-.0003	-.0015

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0007	.2821	.1706	.0142	.0002	.7228	.0012	-.0010	.0010	-.0012
Stddev	.0019	.0134	.0134	.0001	.0001	.0056	.0001	.0004	.0006	.0019
%RSD	278.7	4.743	7.875	.6657	72.26	.7700	7.432	38.69	59.44	159.1
#1	-.0025	.2975	.1772	.0141	.0001	.7278	.0011	-.0014	.0011	-.0020
#2	-.0009	.2756	.1794	.0142	.0001	.7239	.0012	-.0007	.0015	-.0024
#3	.0013	.2733	.1551	.0143	.0003	.7168	.0013	-.0008	.0003	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.40	-.0019	.0454	.0002	.0008	-.0003	.0011
Stddev	.03	.0003	.0001	.0000	.0006	.0001	.0001
%RSD	.2423	15.23	.2510	13.52	76.00	54.16	6.800
#1	10.39	-.0016	.0455	.0002	.0012	-.0003	.0012
#2	10.39	-.0021	.0453	.0002	.0011	-.0004	.0011
#3	10.43	-.0020	.0454	.0002	.0001	-.0001	.0011

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1854.2	3130.2	24670.	9370.5
Stddev	2.0	9.2	20.	43.6
%RSD	.10867	.29256	.08080	.46479
#1	1853.9	3131.5	24684.	9351.3
#2	1852.4	3138.6	24647.	9420.4
#3	1856.4	3120.4	24680.	9339.9

Zoom In Zoom Out

Sample Name: F95316-1 Acquired: 7/30/2012 17:47:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0764	-.0013	.0344	.0000	.4614	-.0001	.0006	-.0004	-.0014
Stddev	.0001	.0035	.0005	.0001	.000	.0036	.0000	.0001	.0001	.0002
%RSD	24.38	4.590	35.83	.3132	8.477	.7847	25.19	11.32	17.29	11.73
#1	-.0004	.0725	-.0013	.0344	.0000	.4573	-.0002	.0006	-.0005	-.0012
#2	-.0005	.0791	-.0008	.0342	.0000	.4639	-.0001	.0006	-.0004	-.0015
#3	-.0007	.0778	-.0017	.0344	.0000	.4631	-.0001	.0005	-.0003	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0030	.2904	1.270	.0308	.0000	9.529	.0004	.0003	.0005	-.0019
Stddev	.0008	.0138	.008	.0002	.0001	.029	.0001	.0003	.0005	.0013
%RSD	27.91	4.760	.6151	.7521	3297.	.3028	35.33	120.3	103.7	70.01
#1	-.0024	.2905	1.270	.0305	-.0001	9.496	.0004	.0001	.0001	-.0007
#2	-.0026	.2766	1.262	.0309	.0000	9.550	.0003	.0001	.0010	-.0017
#3	-.0039	.3042	1.277	.0310	.0001	9.540	.0006	.0006	.0003	-.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.242	-.0013	.0098	-.0001	-.0005	-.0002	.0011
Stddev	.006	.0010	.0001	.0000	.0005	.0002	.0000
%RSD	.1480	79.47	.6912	26.51	94.38	102.1	4.289
#1	4.248	-.0019	.0098	-.0001	-.0010	-.0002	.0011
#2	4.242	-.0018	.0099	-.0001	-.0002	-.0004	.0010
#3	4.235	-.0001	.0099	-.0001	-.0002	.0000	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1806.5	3120.2	24541.	9342.9
Stddev	3.8	6.4	79.	24.8
%RSD	.21082	.20593	.32100	.26560
#1	1803.0	3113.3	24493.	9352.1
#2	1810.6	3121.3	24498.	9361.7
#3	1806.1	3125.9	24632.	9314.8

Zoom In Zoom Out

Sample Name: F95316-2 Acquired: 7/30/2012 17:51:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0044	-.0021	.0135	.0000	.3131	-.0002	-.0001	-.0001	.0002
Stddev	.0003	.0034	.0007	.0001	.000	.0009	.0001	.0001	.0002	.0001
%RSD	129.2	78.13	32.61	.7326	71.92	.2986	41.30	157.6	172.1	34.45
#1	.0001	.0022	-.0014	.0136	.0000	.3142	-.0002	-.0002	-.0002	.0002
#2	-.0003	.0083	-.0020	.0135	.0000	.3124	-.0002	.0000	-.0002	.0002
#3	-.0005	.0026	-.0028	.0134	-.0001	.3128	-.0001	-.0001	.0001	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0006	.2412	.3068	.0031	.0000	4.490	.0002	-.0003	.0007	-.0010
Stddev	.0005	.0090	.0177	.0000	.000	.016	.0002	.0007	.0009	.0010
%RSD	98.96	3.721	5.757	.2526	937.7	.3606	77.79	208.8	140.8	102.8
#1	-.0005	.2383	.3224	.0031	.0000	4.482	.0004	-.0012	.0005	-.0016
#2	-.0011	.2340	.3103	.0031	-.0002	4.509	.0003	.0001	-.0002	.0002
#3	.0000	.2512	.2877	.0031	.0001	4.481	.0000	.0000	.0016	-.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.001	-.0016	.0044	-.0001	.0004	-.0002	.0020
Stddev	.008	.0001	.0000	.0000	.0002	.0002	.0000
%RSD	.1942	5.647	.1024	23.14	54.39	63.85	1.980
#1	4.005	-.0015	.0044	-.0001	.0002	-.0001	.0021
#2	3.992	-.0016	.0044	-.0002	.0006	-.0003	.0020
#3	4.006	-.0017	.0044	-.0001	.0003	-.0003	.0020

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1836.1	3113.8	24548.	9334.9
Stddev	3.8	6.7	87.	80.2
%RSD	.20669	.21635	.35482	.85936
#1	1832.6	3110.4	24463.	9244.5
#2	1840.1	3121.5	24545.	9397.6
#3	1835.4	3109.3	24637.	9362.6

Zoom In Zoom Out

Sample Name: F95372-3 Acquired: 7/30/2012 17:56:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	1.649	.0009	.1280	.0000	121.4	-.0004	.0006	.0016	.0259
Stddev	.0001	.009	.0002	.0006	.000	.5	.0001	.0001	.0002	.0001
%RSD	11.52	.5292	16.98	.4894	124.6	.3799	15.35	13.96	10.38	.4669
#1	-.0008	1.645	.0010	.1275	-.0001	121.4	-.0004	.0005	.0015	.0258
#2	-.0009	1.644	.0009	.1287	.0000	121.0	-.0003	.0007	.0016	.0258
#3	-.0007	1.660	.0008	.1280	.0000	121.9	-.0004	.0005	.0018	.0260

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.308	1.235	17.86	.6664	.0013	19.93	.0061	.0183	.0009	-.0023
Stddev	.003	.021	.05	.0026	.0001	.05	.0002	.0002	.0009	.0009
%RSD	.0915	1.688	.2615	.3937	11.03	.2383	3.764	1.360	99.21	37.19
#1	3.305	1.242	17.89	.6657	.0013	19.88	.0060	.0181	.0017	-.0014
#2	3.311	1.212	17.89	.6693	.0014	19.94	.0060	.0182	.0000	-.0023
#3	3.307	1.252	17.81	.6641	.0011	19.97	.0064	.0186	.0008	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.25	-.0012	.3913	.0300	.0007	.0016	.3990
Stddev	.02	.0003	.0010	.0032	.0014	.0002	.0011
%RSD	.1903	22.86	.2615	10.68	200.2	13.31	.2743
#1	12.25	-.0009	.3903	.0336	.0023	.0018	.3979
#2	12.22	-.0012	.3923	.0288	-.0004	.0015	.3990
#3	12.27	-.0014	.3913	.0276	.0003	.0014	.4001

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1599.0	2926.1	23231.	9081.3
Stddev	4.1	7.1	72.	22.7
%RSD	.25934	.24301	.30842	.24952
#1	1594.4	2919.6	23169.	9055.2
#2	1602.5	2933.7	23214.	9093.4
#3	1600.2	2924.9	23310.	9095.5

Zoom In
Zoom Out

Sample Name: MP23325-MB2A Acquired: 7/30/2012 18:00:37 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	-.0026	-.0015	.0000	-.0001	.0223	-.0002	-.0002	-.0004	-.0015
Stddev	.0001	.0022	.0005	.000	.0000	.0005	.0000	.0001	.0001	.0002
%RSD	18.09	86.14	31.33	150.3	9.921	2.098	22.64	60.16	29.74	10.65
#1	-.0004	-.0006	-.0010	.0000	-.0001	.0221	-.0002	-.0002	-.0003	-.0013
#2	-.0005	-.0050	-.0018	.0000	-.0001	.0229	-.0002	-.0003	-.0005	-.0015
#3	-.0005	-.0022	-.0018	-.0001	-.0001	.0220	-.0002	-.0001	-.0004	-.0017

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0016	-.0046	.0031	.0003	.0001	.1208	-.0001	-.0004	.0004	-.0025
Stddev	.0002	.0161	.0117	.0000	.0001	.0041	.0002	.0003	.0006	.0009
%RSD	14.45	350.5	371.4	12.86	196.9	3.420	197.4	67.25	137.3	36.22
#1	-.0016	.0136	.0067	.0003	.0000	.1234	.0001	-.0004	-.0002	-.0032
#2	-.0019	-.0170	.0127	.0003	.0002	.1230	-.0002	-.0001	.0005	-.0015
#3	-.0014	-.0103	-.0099	.0004	.0000	.1160	-.0003	-.0007	.0009	-.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0049	-.0015	-.0001	-.0003	-.0003	.0000	.0176
Stddev	.0002	.0016	.0000	.0000	.0008	.000	.0001
%RSD	3.885	104.4	27.33	8.058	277.9	516.8	.7011
#1	.0050	.0003	-.0001	-.0003	-.0006	.0001	.0175
#2	.0049	-.0026	-.0001	-.0003	.0006	-.0003	.0175
#3	.0047	-.0023	-.0001	-.0003	-.0009	.0001	.0177

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1854.1	3104.1	24674.	9161.8
Stddev	3.2	8.1	75.	24.9
%RSD	.17461	.26243	.30265	.27148
#1	1850.9	3095.8	24594.	9188.9
#2	1854.1	3112.1	24686.	9156.7
#3	1857.4	3104.4	24742.	9139.9

Zoom In
Zoom Out

Sample Name: F95356-1 Acquired: 7/30/2012 18:05:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0047	468.1	.1144	.6596	.0249	294.4	.0007	.0391	.4354
Stddev	.0023	1.4	.0022	.0008	.0002	1.6	.0003	.0002	.0015
%RSD	48.04	.2923	1.919	.1161	.9754	.5504	41.67	.5140	.3378
#1	-.0060	468.5	.1119	.6604	.0247	292.5	.0008	.0389	.4352
#2	-.0060	469.2	.1160	.6595	.0251	295.2	.0009	.0393	.4369
#3	-.0021	466.5	.1153	.6589	.0248	295.4	.0004	.0391	.4340

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1901	132.7	9.884	35.49	2.424	.0436	F525.0	.1455	.4493
Stddev	.0014	.4	.100	.07	.003	.0004	1.7	.0004	.0048
%RSD	.7477	.3010	1.009	.2020	.1021	.8968	.3207	.2967	1.069
#1	.1885	132.3	9.996	35.58	2.422	.0439	524.8	.1457	.4533
#2	.1904	132.9	9.849	35.45	2.427	.0437	523.4	.1457	.4507
#3	.1913	132.9	9.806	35.46	2.424	.0431	526.7	.1450	.4440

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0046	-.0010	203.3	.0010	3.567	.1290	-.0104	.2244	.6597
Stddev	.0016	.0089	.4	.0005	.004	.0004	.0055	.0007	.0012
%RSD	34.04	892.9	.1835	53.96	.1082	.2974	52.99	.2966	.1881
#1	.0062	-.0102	202.9	.0016	3.569	.1286	-.0046	.2245	.6589
#2	.0045	-.0005	203.5	.0009	3.568	.1293	-.0112	.2237	.6611
#3	.0031	.0077	203.6	.0005	3.562	.1292	-.0155	.2250	.6590

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1536.9	3436.1	26964.	10504.
Stddev	3.5	4.0	24.	32.
%RSD	.22515	.11778	.09041	.30935
#1	1534.0	3440.8	26992.	10540.
#2	1536.1	3433.3	26953.	10477.
#3	1540.7	3434.3	26947.	10495.

Zoom In
Zoom Out

Sample Name: MP23326-MB1 Acquired: 7/30/2012 18:09:35 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0187	-.0017	.0000	-.0002	.0262	-.0002	-.0001	.0003	-.0008
Stddev	.0004	.0023	.0006	.000	.0000	.0012	.0000	.0001	.0003	.0002
%RSD	74.07	12.47	35.29	907.7	10.57	4.464	19.65	43.35	75.22	25.97
#1	-.0006	.0214	-.0014	.0000	-.0002	.0260	-.0002	-.0001	.0000	-.0010
#2	-.0001	.0173	-.0024	.0000	-.0001	.0252	-.0002	-.0002	.0005	-.0007
#3	-.0010	.0174	-.0013	.0000	-.0002	.0275	-.0002	-.0002	.0005	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460	-.0019	.0069	.0005	.0004	.1558	.0005	-.0005	.0019	-.0019
Stddev	.0037	.0051	.0058	.0000	.0000	.0054	.0001	.0005	.0012	.0012
%RSD	7.993	262.5	83.63	2.321	9.558	3.435	23.29	102.2	66.13	63.42
#1	.0502	.0016	.0037	.0005	.0005	.1618	.0005	-.0011	.0013	-.0024
#2	.0439	-.0078	.0135	.0005	.0004	.1539	.0004	-.0003	.0033	-.0005
#3	.0438	.0004	.0035	.0005	.0004	.1516	.0006	-.0001	.0010	-.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0357	.0060	.0000	.0009	-.0009	-.0001	.0020
Stddev	.0031	.0004	.0000	.0001	.0010	.0000	.0001
%RSD	8.599	6.099	170.3	9.356	104.4	38.70	2.842
#1	.0393	.0064	.0000	.0008	.0002	-.0001	.0021
#2	.0338	.0059	.0000	.0009	-.0015	-.0002	.0019
#3	.0341	.0058	.0000	.0008	-.0015	-.0001	.0020
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: MP23326-MB1 Acquired: 7/30/2012 18:09:35 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.2	3090.7	23268.	8946.8
Stddev	21.7	33.6	1077.	10.3
%RSD	1.1890	1.0872	4.6289	.11528
#1	1830.2	3095.1	24510.	8943.3
#2	1847.4	3121.9	22694.	8958.4
#3	1804.2	3055.1	22599.	8938.7

Zoom In Zoom Out

Sample Name: MP23326-B1 Acquired: 7/30/2012 18:14:04 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476	29.81	2.043	2.269	.0550	25.46	.0536	.5552	.2202	.2611
Stddev	.0004	.03	.009	.002	.0002	.22	.0002	.0012	.0011	.0009
%RSD	.8453	.0916	.4282	.0654	.3448	.8779	.3318	.2114	.4866	.3324
#1	.0473	29.78	2.053	2.270	.0549	25.33	.0537	.5566	.2212	.2607
#2	.0476	29.83	2.039	2.267	.0549	25.33	.0536	.5546	.2191	.2605
#3	.0481	29.83	2.037	2.270	.0552	25.72	.0534	.5545	.2202	.2621
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.17	26.70	24.16	.5521	.5586	26.84	.5490	.4730	.5262	2.083
Stddev	.16	.04	.22	.0017	.0010	.04	.0017	.0022	.0011	.009
%RSD	.6031	.1593	.8978	.3048	.1788	.1368	.3078	.4569	.2106	.4428
#1	27.08	26.67	23.97	.5525	.5597	26.80	.5509	.4708	.5273	2.093
#2	27.08	26.69	24.10	.5502	.5577	26.88	.5476	.4751	.5261	2.081
#3	27.36	26.75	24.40	.5535	.5585	26.83	.5486	.4731	.5251	2.074
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313	.4990	.5380	.5276	1.931	.5318	.5277
Stddev	.0013	.0013	.0006	.0006	.004	.0015	.0004
%RSD	4.150	.2512	.1067	.1168	.2085	.2818	.0831
#1	.0317	.4976	.5381	.5281	1.927	.5323	.5276
#2	.0323	.5001	.5385	.5269	1.931	.5301	.5273
#3	.0298	.4992	.5374	.5278	1.935	.5329	.5281
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23326-B1 Acquired: 7/30/2012 18:14:04 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.0	2920.4	22907.	8694.2
Stddev	6.2	19.5	88.	23.9
%RSD	.38674	.66698	.38415	.27489
#1	1584.8	2898.0	22806.	8701.9
#2	1595.6	2930.8	22969.	8713.4
#3	1595.4	2932.6	22946.	8667.4

Zoom In Zoom Out

Sample Name: F95354-1 Acquired: 7/30/2012 18:18:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	4.316	.0094	.0714	.0001	259.1	.0007	.0047	.0230	.0612
Stddev	.0004	.010	.0004	.0001	.0000	.2	.0000	.0001	.0001	.0001
%RSD	118.4	.2257	3.791	.1479	13.20	.0794	5.866	1.349	.4071	.1740
#1	-.0003	4.312	.0096	.0713	.0001	259.3	.0007	.0048	.0230	.0613
#2	.0000	4.327	.0090	.0715	.0002	258.9	.0007	.0047	.0231	.0612
#3	-.0007	4.309	.0097	.0715	.0001	259.0	.0007	.0047	.0229	.0611

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.96	1.539	2.171	.2034	.0035	1.864	.1317	.0669	.0014	-.0031
Stddev	.01	.013	.027	.0002	.0001	.009	.0008	.0013	.0004	.0015
%RSD	.1128	.8563	1.249	.0921	2.330	.5057	.6348	1.874	29.17	47.37
#1	12.98	1.544	2.148	.2033	.0035	1.871	.1320	.0655	.0018	-.0039
#2	12.95	1.548	2.166	.2036	.0035	1.867	.1307	.0671	.0010	-.0014
#3	12.96	1.524	2.201	.2033	.0034	1.853	.1323	.0680	.0013	-.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.341	.0058	.9591	.5262	-.0006	.3046	.1703
Stddev	.023	.0005	.0013	.0012	.0004	.0006	.0000
%RSD	.3685	7.967	.1393	.2232	64.63	.1830	.0083
#1	6.364	.0061	.9598	.5256	-.0007	.3051	.1703
#2	6.317	.0059	.9599	.5275	-.0002	.3046	.1703
#3	6.341	.0052	.9575	.5254	-.0009	.3040	.1703

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1531.2	2871.5	22605.	8644.6
Stddev	6.6	17.9	70.	40.3
%RSD	.42899	.62165	.30909	.46664
#1	1525.2	2851.3	22568.	8598.2
#2	1538.2	2885.0	22562.	8664.4
#3	1530.1	2878.3	22686.	8671.1

Zoom In Zoom Out

Sample Name: MP23326-D1 Acquired: 7/30/2012 18:22:43 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	2.718	.0045	.0397	.0000	74.56	.0005	.0035	.0151	.0365
Stddev	.0003	.005	.0004	.0003	.000	.27	.0001	.0002	.0002	.0003
%RSD	82.07	.2006	9.637	.6677	711.1	.3593	10.38	4.917	1.063	.9572
#1	-.0006	2.715	.0040	.0399	.0000	74.25	.0005	.0034	.0149	.0365
#2	.0000	2.724	.0045	.0394	.0000	74.69	.0006	.0034	.0152	.0368
#3	-.0007	2.715	.0049	.0399	.0000	74.74	.0005	.0037	.0152	.0361

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.361	1.065	1.338	.1375	.0024	.7473	.1057	.0461	.0021	-.0020
Stddev	.010	.008	.023	.0005	.0001	.0013	.0004	.0007	.0006	.0012
%RSD	.1210	.7737	1.735	.3312	2.944	.1774	.4050	1.557	27.87	58.51
#1	8.349	1.074	1.312	.1370	.0025	.7482	.1053	.0460	.0026	-.0032
#2	8.364	1.057	1.356	.1378	.0024	.7479	.1057	.0455	.0014	-.0019
#3	8.368	1.064	1.346	.1378	.0024	.7458	.1062	.0469	.0022	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.828	.0062	.3409	.4372	-.0011	.2131	.1097
Stddev	.006	.0009	.0011	.0012	.0013	.0010	.0004
%RSD	.1486	14.57	.3350	.2804	119.7	.4541	.3426
#1	3.828	.0066	.3420	.4360	-.0026	.2127	.1094
#2	3.822	.0051	.3410	.4384	-.0005	.2142	.1097
#3	3.834	.0067	.3398	.4373	-.0002	.2123	.1101

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1665.8	2985.6	23634.	8817.8
Stddev	5.4	11.7	79.	4.1
%RSD	.32531	.39138	.33304	.04683
#1	1660.0	2972.1	23619.	8813.2
#2	1666.6	2993.1	23564.	8819.0
#3	1670.8	2991.5	23719.	8821.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 18:27:02 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	42.25	2.027	2.075	2.015	39.04	2.067	2.105	2.032	1.909
Stddev	.0003	.04	.008	.005	.003	.06	.004	.007	.006	.005
%RSD	.1272	.0850	.3752	.2206	.1581	.1447	.1926	.3121	.2820	.2413
#1	.2481	42.25	2.020	2.074	2.015	39.09	2.069	2.104	2.034	1.906
#2	.2475	42.29	2.025	2.080	2.018	38.98	2.063	2.099	2.025	1.907
#3	.2477	42.22	2.035	2.071	2.012	39.05	2.070	2.112	2.036	1.914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.86	40.67	37.95	2.043	2.120	40.74	2.039	1.930	2.037	2.065
Stddev	.02	.11	.04	.005	.008	.08	.008	.003	.006	.016
%RSD	.0421	.2681	.1168	.2395	.3566	.1983	.3774	.1563	.3079	.7833
#1	38.86	40.78	37.93	2.045	2.116	40.75	2.040	1.933	2.034	2.061
#2	38.88	40.68	38.00	2.037	2.116	40.82	2.031	1.927	2.034	2.051
#3	38.84	40.56	37.93	2.046	2.129	40.66	2.047	1.930	2.045	2.082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050	1.913	2.027	2.000	1.938	2.007	2.008
Stddev	.009	.001	.004	.004	.001	.006	.007
%RSD	.4191	.0614	.2148	.1917	.0236	.2768	.3340
#1	2.044	1.914	2.024	1.998	1.938	2.012	2.015
#2	2.045	1.913	2.032	1.997	1.938	2.001	2.002
#3	2.060	1.911	2.024	2.004	1.939	2.007	2.006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 18:27:02 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1582.3	3014.8	23991.	8983.9
Stddev	2.9	13.8	61.	20.0
%RSD	.18054	.45891	.25236	.22290
#1	1583.1	3021.0	24005.	8962.7
#2	1584.6	3024.5	24044.	8986.4
#3	1579.1	2999.0	23925.	9002.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 18:31:18 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0061	-.0005	.0003	.0002	.0064	.0001	.0002	.0000
Stddev	.0003	.0036	.0006	.0000	.0000	.0004	.0000	.0001	.000
%RSD	39.35	58.74	110.3	5.477	5.834	6.718	13.41	59.89	568.8
#1	-.0009	.0048	-.0009	.0003	.0002	.0066	.0001	.0003	-.0001
#2	-.0009	.0033	-.0008	.0003	.0002	.0066	.0001	.0001	.0000
#3	-.0004	.0101	.0001	.0003	.0002	.0059	.0001	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0229	-.0210	.0127	.0002	F.0010	.0496	.0000	.0001
Stddev	.0000	.0050	.0245	.0144	.0000	.0003	.0035	.000	.0003
%RSD	9.261	21.90	116.5	113.0	13.59	27.76	7.008	188.6	219.0
#1	-.0004	.0280	.0072	.0060	.0002	.0013	.0464	.0000	-.0001
#2	-.0004	.0225	-.0344	.0292	.0002	.0010	.0490	.0000	.0005
#3	-.0005	.0180	-.0359	.0030	.0003	.0008	.0533	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0016	.0018	.0008	.0003	.0015	.0010	.0001	.0002
Stddev	.0007	.0012	.0005	.0008	.0000	.0002	.0008	.0001	.0000
%RSD	50.95	71.98	29.51	103.9	10.83	11.07	85.98	96.05	13.84
#1	.0011	-.0021	.0023	.0003	.0003	.0017	.0015	.0000	.0002
#2	.0021	-.0025	.0013	.0017	.0002	.0014	.0013	.0001	.0003
#3	.0008	-.0003	.0018	.0004	.0003	.0013	.0000	.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 18:31:18 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.8	3159.9	25132.	9114.7
Stddev	2.1	5.7	53.	32.0
%RSD	.11150	.18175	.20961	.35088
#1	1904.1	3155.3	25156.	9082.6
#2	1901.4	3166.3	25168.	9115.0
#3	1900.0	3158.1	25072.	9146.6

Zoom In Zoom Out

Sample Name: MP23326-SD1 Acquired: 7/30/2012 18:35:47 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0031	4.430	.0098	.0729	-.0003	273.4	.0000	.0042	.0241	.0605
Stddev	.0007	.018	.0043	.0001	.0001	.5	.0001	.0002	.0008	.0002
%RSD	21.20	.4073	44.46	.1890	40.60	.1847	3197.	4.474	3.435	.3933
#1	-.0027	4.415	.0048	.0730	-.0004	272.8	.0001	.0043	.0235	.0603
#2	-.0039	4.427	.0131	.0728	-.0004	273.8	-.0001	.0040	.0238	.0607
#3	-.0028	4.450	.0114	.0728	-.0002	273.5	.0000	.0042	.0251	.0605

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	13.35	1.702	2.512	.2099	.0035	2.605	.1410	.0716	.0044	-.0127
Stddev	.03	.035	.092	.0015	.0004	.018	.0013	.0016	.0030	.0077
%RSD	.2170	2.029	3.668	.7325	10.55	.6821	.9539	2.248	68.10	60.76
#1	13.38	1.667	2.409	.2082	.0034	2.621	.1405	.0711	.0053	-.0051
#2	13.34	1.702	2.587	.2103	.0039	2.608	.1426	.0704	.0069	-.0205
#3	13.33	1.736	2.540	.2111	.0032	2.586	.1400	.0734	.0011	-.0126

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.622	.0057	.9828	.5347	.0046	.3087	.1872
Stddev	.007	.0019	.0027	.0013	.0069	.0010	.0008
%RSD	.1081	32.64	.2759	.2472	150.2	.3231	.4086
#1	6.620	.0076	.9859	.5337	.0063	.3075	.1876
#2	6.630	.0056	.9807	.5343	.0104	.3091	.1863
#3	6.616	.0039	.9818	.5362	-.0030	.3094	.1876

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1748.0	3052.4	24419.	9083.2
Stddev	2.7	4.8	41.	28.7
%RSD	.15249	.15789	.16731	.31604
#1	1745.1	3049.3	24445.	9055.6
#2	1748.6	3050.0	24441.	9080.9
#3	1750.3	3058.0	24372.	9112.9

Zoom In Zoom Out

Sample Name: MP23326-PS1 Acquired: 7/30/2012 18:40:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0502	7.011	.1146	.3355	.0547	255.9	.0548	.0596	.0765	.1606
Stddev	.0007	.020	.0005	.0001	.0002	3.2	.0002	.0002	.0006	.0005
%RSD	1.358	.2893	.4392	.0154	.3842	1.252	.3944	.3816	.8209	.2891
#1	.0498	7.000	.1152	.3355	.0545	252.8	.0546	.0595	.0765	.1601
#2	.0510	7.000	.1144	.3354	.0547	255.6	.0549	.0595	.0758	.1609
#3	.0499	7.035	.1143	.3355	.0549	259.2	.0550	.0599	.0770	.1609

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.63	12.40	6.744	.2471	.1145	12.62	.2326	.1141	.1069	.1047
Stddev	.08	.05	.065	.0006	.0000	.01	.0007	.0004	.0007	.0013
%RSD	.5371	.3682	.9681	.2411	.0306	.0851	.3151	.3553	.6154	1.264
#1	15.56	12.44	6.671	.2477	.1146	12.63	.2320	.1137	.1063	.1041
#2	15.59	12.40	6.796	.2465	.1145	12.61	.2325	.1142	.1076	.1038
#3	15.72	12.35	6.765	.2471	.1145	12.62	.2334	.1145	.1068	.1062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.187	.0500	.9761	.6064	.0962	.3444	.4564
Stddev	.009	.0009	.0013	.0007	.0015	.0007	.0025
%RSD	.1420	1.879	.1378	.1121	1.565	.2109	.5519
#1	6.179	.0492	.9777	.6070	.0967	.3439	.4562
#2	6.186	.0496	.9753	.6057	.0973	.3452	.4539
#3	6.197	.0510	.9754	.6065	.0944	.3441	.4589

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1522.3	2875.9	22958.	8674.1
Stddev	2.3	7.3	48.	39.0
%RSD	.15284	.25331	.20962	.44956
#1	1519.6	2873.5	22912.	8712.1
#2	1523.8	2870.2	22953.	8676.1
#3	1523.5	2884.1	23008.	8634.2

Zoom In Zoom Out

Sample Name: MP23326-S1 Acquired: 7/30/2012 18:44:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0466	32.96	1.963	2.193	.0524	102.3	.0518	.5318	.2271	.2993
Stddev	.0002	.04	.003	.002	.0001	.0	.0002	.0010	.0010	.0009
%RSD	.4100	.1283	.1400	.0886	.1075	.0320	.4149	.1890	.4619	.2903
#1	.0464	33.01	1.962	2.192	.0524	102.4	.0516	.5314	.2276	.2996
#2	.0466	32.93	1.966	2.195	.0523	102.4	.0518	.5310	.2259	.2983
#3	.0468	32.94	1.961	2.191	.0524	102.3	.0520	.5329	.2277	.2999

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.20	26.91	24.47	.7325	.5226	25.70	.6425	.5200	.4890	2.023
Stddev	.03	.06	.07	.0020	.0007	.03	.0031	.0008	.0032	.007
%RSD	.0701	.2184	.2885	.2684	.1244	.0989	.4807	.1634	.6490	.3589
#1	37.20	26.86	24.55	.7312	.5218	25.71	.6390	.5190	.4877	2.017
#2	37.23	26.98	24.46	.7317	.5230	25.72	.6448	.5205	.4867	2.021
#3	37.18	26.89	24.41	.7348	.5229	25.67	.6436	.5206	.4926	2.031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.719	.4492	.8240	.9414	1.852	.7471	.6414
Stddev	.007	.0031	.0019	.0015	.003	.0006	.0012
%RSD	.1114	.6940	.2366	.1646	.1629	.0760	.1847
#1	6.712	.4457	.8249	.9422	1.849	.7477	.6403
#2	6.727	.4504	.8253	.9396	1.851	.7466	.6412
#3	6.719	.4516	.8218	.9423	1.855	.7471	.6426

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1552.2	2915.9	23119.	8700.9
Stddev	1.9	6.2	52.	38.6
%RSD	.12333	.21114	.22636	.44356
#1	1550.0	2910.2	23059.	8656.4
#2	1553.4	2915.0	23147.	8721.2
#3	1553.1	2922.4	23151.	8725.1

Zoom In Zoom Out

Sample Name: MP23326-S2 Acquired: 7/30/2012 18:48:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0511	34.88	2.106	2.342	.0563	70.92	.0573	.5753	.2636	.3672
Stddev	.0002	.07	.005	.017	.0003	.72	.0002	.0011	.0017	.0006
%RSD	.3158	.2015	.2266	.7396	.5888	1.021	.3203	.1840	.6390	.1601
#1	.0509	34.92	2.109	2.357	.0560	70.12	.0573	.5748	.2619	.3670
#2	.0512	34.80	2.100	2.323	.0561	71.13	.0571	.5745	.2653	.3679
#3	.0511	34.93	2.109	2.347	.0567	71.52	.0574	.5765	.2636	.3667

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.96	28.08	25.49	.8021	.5745	28.10	.8818	.8504	.5244	2.159
Stddev	.35	.12	.32	.0050	.0001	.14	.0019	.0017	.0025	.009
%RSD	.6531	.4435	1.267	.6173	.0132	.5117	.2153	.2053	.4680	.4236
#1	52.59	28.17	25.13	.7967	.5745	28.21	.8811	.8484	.5254	2.161
#2	53.02	27.94	25.61	.8064	.5744	27.94	.8804	.8508	.5263	2.149
#3	53.28	28.14	25.74	.8031	.5746	28.16	.8840	.8518	.5216	2.168

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.320	.5068	.7325	.7621	1.973	1.524	.7993
Stddev	.011	.0029	.0032	.0034	.002	.005	.0033
%RSD	.2034	.5643	.4391	.4407	.1122	.3579	.4086
#1	5.324	.5093	.7351	.7584	1.973	1.519	.7963
#2	5.308	.5037	.7289	.7649	1.971	1.529	.7987
#3	5.329	.5074	.7334	.7630	1.975	1.523	.8028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1565.0	2924.4	23284.	8787.0
Stddev	4.9	11.3	79.	49.9
%RSD	.31603	.38590	.34130	.56810
#1	1560.0	2912.2	23294.	8844.7
#2	1565.0	2926.4	23200.	8759.2
#3	1569.9	2934.6	23357.	8757.2

Zoom In Zoom Out

Sample Name: F95354-2 Acquired: 7/30/2012 18:52:54 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	2.882	.0104	1.106	.0001	245.3	.0024	.0027	.0322	.0348
Stddev	.0002	.018	.0008	.001	.0000	1.4	.0000	.0001	.0003	.0001
%RSD	101.1	.6160	7.586	.1259	46.99	.5851	.6942	4.288	1.065	.3610
#1	.0000	2.867	.0111	1.105	.0000	243.6	.0025	.0027	.0319	.0349
#2	-.0002	2.901	.0105	1.107	.0001	246.0	.0024	.0027	.0323	.0348
#3	-.0005	2.877	.0096	1.105	.0000	246.2	.0024	.0025	.0326	.0347

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.83	.4593	2.134	.1692	.0052	.5628	.0407	.1362	.0019	-.0018
Stddev	.05	.0225	.029	.0006	.0001	.0031	.0004	.0002	.0007	.0015
%RSD	.4553	4.897	1.383	.3772	1.227	.5514	1.020	.1794	35.81	87.24
#1	11.76	.4669	2.107	.1689	.0052	.5664	.0402	.1362	.0011	-.0004
#2	11.85	.4771	2.129	.1699	.0052	.5611	.0410	.1360	.0024	-.0014
#3	11.87	.4340	2.165	.1688	.0051	.5610	.0408	.1365	.0022	-.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.399	.0080	.5080	.3869	.0005	.1344	1.180
Stddev	.003	.0009	.0006	.0006	.0006	.0001	.001
%RSD	.0969	10.98	.1098	.1474	119.9	.0512	.0408
#1	3.402	.0077	.5080	.3867	.0010	.1343	1.180
#2	3.395	.0090	.5085	.3865	.0007	.1343	1.180
#3	3.399	.0074	.5074	.3876	-.0002	.1345	1.179

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1546.6	2859.0	22932.	8591.2
Stddev	6.9	9.2	70.	22.0
%RSD	.44676	.32239	.30656	.25575
#1	1538.9	2849.1	22862.	8607.2
#2	1548.9	2860.6	22931.	8566.2
#3	1552.2	2867.3	23002.	8600.3

Zoom In Zoom Out

Sample Name: F95354-3 Acquired: 7/30/2012 18:57:23 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	28.23	.0609	2.134	.0016	399.9	.0114	.0104	.2247
Stddev	.0003	.10	.0013	.012	.0001	1.7	.0001	.0000	.0006
%RSD	78.26	.3468	2.119	.5694	4.492	.4330	.9110	.4582	.2854
#1	-.0001	28.13	.0624	2.124	.0015	397.9	.0115	.0103	.2241
#2	-.0003	28.24	.0602	2.130	.0016	401.0	.0113	.0104	.2247
#3	-.0008	28.32	.0602	2.147	.0016	400.8	.0114	.0104	.2253

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2000	55.28	1.554	4.566	1.096	.0056	2.162	.0295	1.548
Stddev	.0009	.21	.017	.022	.004	.0003	.009	.0002	.006
%RSD	.4315	.3772	1.083	.4754	.3658	4.610	.3985	.7645	.4230
#1	.2004	55.04	1.539	4.543	1.093	.0058	2.164	.0298	1.551
#2	.2007	55.44	1.550	4.570	1.101	.0057	2.153	.0294	1.541
#3	.1991	55.35	1.572	4.585	1.095	.0053	2.170	.0295	1.553

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0039	-.0022	21.14	.0130	1.934	.5310	-.0014	.0768	F7.539
Stddev	.0002	.0013	.04	.0002	.017	.0005	.0009	.0003	.011
%RSD	4.973	61.87	.2077	1.401	.8870	.0988	61.64	.4515	.1414
#1	.0040	-.0006	21.11	.0131	1.952	.5309	-.0020	.0772	7.550
#2	.0040	-.0030	21.19	.0131	1.934	.5315	-.0004	.0766	7.529
#3	.0037	-.0029	21.11	.0128	1.917	.5305	-.0019	.0767	7.537

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1474.3	3070.7	24397.	9303.4
Stddev	1.4	8.5	38.	23.9
%RSD	.09174	.27647	.15626	.25684
#1	1472.7	3068.2	24432.	9302.2
#2	1475.0	3063.7	24357.	9280.2
#3	1475.1	3080.1	24403.	9327.9

Zoom In Zoom Out

Sample Name: F95354-4 Acquired: 7/30/2012 19:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0141	42.64	.1013	.4148	.0026	F738.3	.0003	.0341	.1687
Stddev	.0004	.09	.0013	.0006	.0000	5.1	.0001	.0001	.0001
%RSD	2.976	.2171	1.322	.1394	1.105	.6924	19.39	.2610	.0423
#1	.0137	42.74	.1007	.4153	.0026	733.5	.0002	.0342	.1686
#2	.0145	42.63	.1004	.4149	.0026	737.9	.0002	.0341	.1687
#3	.0142	42.56	.1029	.4142	.0027	743.7	.0003	.0340	.1687

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2295	24.86	1.437	10.21	1.232	.0061	3.345	1.799	.3063
Stddev	.0005	.05	.022	.08	.001	.0000	.016	.002	.0032
%RSD	.2247	.2002	1.532	.7650	.0812	.2930	.4890	.0960	1.037
#1	.2298	24.87	1.460	10.19	1.232	.0061	3.359	1.797	.3048
#2	.2297	24.81	1.416	10.15	1.231	.0061	3.349	1.798	.3100
#3	.2289	24.91	1.437	10.30	1.233	.0061	3.327	1.800	.3042

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0028	-.0018	21.33	.0047	2.953	.5449	-.0001	F7.737	.6445
Stddev	.0005	.0014	.07	.0003	.017	.0004	.0015	.001	.0008
%RSD	17.24	79.33	.3218	7.046	.5746	.0811	1290.	.0128	.1267
#1	.0022	-.0002	21.29	.0047	2.964	.5451	-.0016	7.737	.6437
#2	.0031	-.0030	21.30	.0043	2.934	.5453	.0000	7.738	.6453
#3	.0031	-.0021	21.41	.0050	2.961	.5445	.0013	7.736	.6444

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1353.6	3218.5	25583.	9946.8
Stddev	.7	10.2	56.	30.5
%RSD	.05484	.31808	.21994	.30619
#1	1352.9	3218.2	25568.	9911.8
#2	1353.5	3228.9	25536.	9967.4
#3	1354.4	3208.5	25645.	9961.1

Zoom In Zoom Out

Sample Name: F95354-5 Acquired: 7/30/2012 19:06:32 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	24.42	.0112	.1538	.0020	F814.3	-.0012	.0090	.0455
Stddev	.0003	.05	.0004	.0003	.0000	11.1	.0000	.0000	.0005
%RSD	36.84	.1899	3.238	.2019	.7784	1.359	2.349	.3805	1.140
#1	-.0013	24.38	.0115	.1537	.0020	802.0	-.0012	.0090	.0456
#2	-.0008	24.42	.0108	.1541	.0020	823.3	-.0012	.0090	.0459
#3	-.0007	24.47	.0112	.1535	.0020	817.6	-.0012	.0091	.0449

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0336	25.58	1.062	5.037	.1910	.0037	8.951	.0619	.1314
Stddev	.0002	.23	.012	.086	.0009	.0003	.040	.0006	.0015
%RSD	.4597	.8994	1.090	1.712	.4668	8.424	.4440	.8937	1.123
#1	.0337	25.31	1.066	4.938	.1920	.0034	8.993	.0613	.1304
#2	.0337	25.72	1.071	5.089	.1908	.0040	8.914	.0624	.1308
#3	.0334	25.70	1.049	5.085	.1903	.0038	8.948	.0618	.1331

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0013	21.52	.0049	3.573	.3231	.0007	.1771	1.716
Stddev	.0010	.0035	.06	.0003	.023	.0011	.0005	.0007	.001
%RSD	249.4	267.8	.2817	6.887	.6378	.3516	65.81	.3670	.0758
#1	-.0004	-.0051	21.53	.0051	3.585	.3239	.0011	.1769	1.716
#2	.0015	-.0007	21.58	.0052	3.587	.3218	.0002	.1779	1.715
#3	.0001	.0018	21.46	.0045	3.546	.3236	.0007	.1766	1.717

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1348.8	3002.6	23868.	9284.2
Stddev	3.5	15.5	114.	88.7
%RSD	.25693	.51566	.47753	.95564
#1	1346.0	2995.3	23737.	9366.2
#2	1347.8	2992.1	23923.	9190.0
#3	1352.7	3020.3	23944.	9296.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 19:11:09 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0089	.2173	.0099	.2109	.0052	1.040	.0058	.0574	.0107	.0232
Stddev	.0004	.0035	.0003	.0009	.0000	.011	.0000	.0002	.0002	.0002
%RSD	4.887	1.621	2.706	.4168	.5661	1.045	.4370	.3186	1.481	.7043
#1	.0085	.2161	.0099	.2103	.0052	1.034	.0058	.0573	.0106	.0231
#2	.0087	.2213	.0102	.2119	.0052	1.052	.0058	.0576	.0106	.0232
#3	.0094	.2146	.0097	.2105	.0051	1.033	.0058	.0574	.0108	.0234

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3198	10.41	4.858	.0163	.0538	10.43	.0443	.0049	.0063	.0089
Stddev	.0035	.05	.026	.0001	.0003	.03	.0002	.0004	.0003	.0007
%RSD	1.088	.5126	.5321	.6246	.5838	.3061	.4744	7.831	4.808	7.661
#1	.3220	10.42	4.845	.0162	.0535	10.47	.0441	.0052	.0063	.0095
#2	.3216	10.46	4.888	.0163	.0540	10.43	.0445	.0044	.0067	.0082
#3	.3157	10.36	4.842	.0164	.0540	10.40	.0444	.0050	.0061	.0090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0108	.0495	.0103	.0099	.0114	.0507	.0225
Stddev	.0008	.0003	.0000	.0001	.0002	.0004	.0001
%RSD	7.013	.7065	.3096	.8618	2.009	.7068	.2508
#1	.0112	.0491	.0103	.0098	.0117	.0507	.0225
#2	.0113	.0495	.0103	.0100	.0115	.0503	.0226
#3	.0099	.0498	.0103	.0100	.0112	.0510	.0226

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1824.4	3139.3	25165.	9099.1
Stddev	2.4	2.5	57.	46.3
%RSD	.13313	.08119	.22496	.50838
#1	1823.3	3141.7	25203.	9112.7
#2	1822.7	3136.7	25192.	9047.6
#3	1827.2	3139.5	25100.	9137.1

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 19:15:35 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	F526.2	.0009	.0058	-.0002	454.8	.0026	-.0002	-.0006
Stddev	.0003	7.5	.0012	.0001	.0000	3.3	.0001	.0002	.0003
%RSD	185.7	1.431	142.2	1.245	11.70	.7257	2.169	73.71	55.85
#1	-.0002	520.6	-.0004	.0058	-.0002	451.0	.0026	.0000	-.0004
#2	.0002	523.3	.0020	.0058	-.0001	456.3	.0026	-.0002	-.0005
#3	-.0005	534.8	.0009	.0059	-.0002	457.0	.0027	-.0004	-.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0017	177.0	-.0172	479.0	.0000	.0005	.1500	-.0004	.0083
Stddev	.0002	.5	.0159	2.6	.0001	.0004	.0021	.0001	.0024
%RSD	14.07	.2815	92.29	.5478	211.1	79.15	1.402	29.73	28.46
#1	.0018	176.4	-.0297	476.6	.0000	.0001	.1480	-.0003	.0106
#2	.0018	177.3	.0007	478.6	.0000	.0009	.1522	-.0004	.0083
#3	.0014	177.3	-.0228	481.8	.0001	.0005	.1499	-.0005	.0059

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0037	-.0008	.0064	-.0007	.0056	-.0040	.0017	.0005	.0001
Stddev	.0026	.0008	.0004	.0018	.0001	.0001	.0008	.0002	.0003
%RSD	70.27	107.3	5.747	236.4	1.592	1.385	47.94	48.90	291.5
#1	.0007	.0001	.0064	-.0026	.0057	-.0040	.0026	.0002	.0004
#2	.0052	-.0009	.0068	.0009	.0055	-.0041	.0014	.0007	.0002
#3	.0052	-.0015	.0061	-.0006	.0056	-.0039	.0010	.0005	-.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1349.8	2698.5	21420.	8455.7
Stddev	1.7	5.1	59.	35.5
%RSD	.12293	.18983	.27753	.41972
#1	1348.6	2694.4	21365.	8496.7
#2	1349.1	2696.8	21483.	8435.4
#3	1351.7	2704.2	21413.	8435.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507	42.52	2.032	2.048	1.997	38.52	2.083	2.125	2.027	1.880
Stddev	.0020	.15	.004	.006	.007	.09	.004	.004	.012	.006
%RSD	.8154	.3530	.1930	.2754	.3526	.2259	.1687	.2008	.5921	.3226
#1	.2510	42.34	2.036	2.041	1.989	38.43	2.087	2.129	2.020	1.874
#2	.2526	42.61	2.031	2.050	2.001	38.53	2.081	2.124	2.041	1.879
#3	.2485	42.60	2.028	2.052	2.001	38.60	2.080	2.121	2.021	1.886
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.53	40.52	37.26	2.024	2.140	40.79	2.046	1.927	2.038	2.074
Stddev	.14	.14	.23	.013	.004	.13	.002	.004	.004	.005
%RSD	.3729	.3407	.6091	.6253	.1620	.3276	.1158	.1900	.1900	.2342
#1	38.37	40.38	37.05	2.016	2.144	40.69	2.047	1.924	2.042	2.079
#2	38.65	40.65	37.23	2.039	2.139	40.94	2.046	1.926	2.036	2.070
#3	38.59	40.53	37.50	2.018	2.137	40.75	2.043	1.931	2.035	2.073
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055	1.891	2.016	1.982	1.931	1.990	2.019
Stddev	.004	.009	.018	.007	.009	.008	.004
%RSD	.1950	.4731	.8833	.3594	.4904	.4244	.1908
#1	2.060	1.901	2.017	1.974	1.923	1.983	2.023
#2	2.053	1.886	1.997	1.988	1.929	1.999	2.016
#3	2.053	1.886	2.033	1.983	1.941	1.986	2.018
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1580.4	2992.7	23957.	8930.0
Stddev	2.3	7.0	50.	22.9
%RSD	.14299	.23337	.21046	.25669
#1	1582.0	2985.3	24003.	8956.3
#2	1581.4	2993.7	23903.	8914.5
#3	1577.8	2999.1	23965.	8919.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:24:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0022	-.0001	.0001	.0000	.0097	-.0002	-.0001	.0001
Stddev	.0002	.0059	.0003	.0001	.000	.0023	.0001	.0001	.0004
%RSD	29.04	273.0	568.2	132.1	62.55	24.20	32.15	90.74	293.8
#1	-.0009	.0030	.0002	.0002	.0000	.0101	-.0002	.0000	.0005
#2	-.0006	.0076	-.0004	.0001	-.0001	.0118	-.0001	.0000	.0000
#3	-.0005	-.0041	.0000	.0000	-.0001	.0072	-.0001	-.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0186	-.0116	-.0027	F.0010	.0008	.0146	-.0003	.0005
Stddev	.0002	.0037	.0065	.0225	.0001	.0002	.0044	.0000	.0009
%RSD	19.56	20.05	55.49	847.3	8.373	28.88	30.20	9.771	193.5
#1	-.0008	.0228	-.0064	-.0142	.0011	.0010	.0162	-.0004	.0014
#2	-.0007	.0176	-.0188	.0233	.0010	.0009	.0179	-.0004	-.0004
#3	-.0011	.0155	-.0096	-.0171	.0009	.0006	.0096	-.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010				
Low Limit					-.0010				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0015	.0015	F.0024	.0000	.0006	.0005	-.0001	.0016
Stddev	.0007	.0008	.0006	.0003	.000	.0001	.0008	.0003	.0001
%RSD	46.98	51.92	40.71	10.86	685.2	21.02	153.9	440.2	4.756
#1	.0013	-.0007	.0017	.0026	.0000	.0007	.0000	.0000	.0016
#2	.0021	-.0023	.0019	.0021	.0000	.0008	.0001	.0002	.0017
#3	.0008	-.0014	.0008	.0025	.0000	.0005	.0014	-.0003	.0015
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:24:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.2	3146.4	25201.	9033.9
Stddev	5.6	2.5	73.	14.2
%RSD	.29484	.08038	.28839	.15736
#1	1902.3	3146.4	25279.	9030.1
#2	1913.4	3149.0	25135.	9021.9
#3	1909.0	3143.9	25190.	9049.6

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 19:28:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.084	F532.6	1.037	.5423	.4985	449.6	.9628	.4938	.5139
Stddev	.004	5.7	.003	.0010	.0009	2.4	.0005	.0009	.0023
%RSD	.4168	1.070	.2411	.1914	.1802	.5245	.0506	.1809	.4556
#1	1.086	532.6	1.036	.5434	.4980	447.5	.9626	.4937	.5138
#2	1.079	526.9	1.040	.5424	.4981	449.1	.9633	.4930	.5116
#3	1.087	538.3	1.035	.5413	.4996	452.1	.9623	.4947	.5163

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5360	180.9	-.0092	483.0	.5008	1.024	.1154	.9244	.9173
Stddev	.0011	.4	.0137	1.5	.0028	.003	.0062	.0010	.0032
%RSD	.2055	.2154	148.7	.3141	.5602	.2516	5.388	.1107	.3519
#1	.5373	180.6	-.0217	481.7	.5000	1.025	.1091	.9256	.9199
#2	.5352	180.7	.0055	482.8	.4985	1.026	.1156	.9238	.9137
#3	.5356	181.3	-.0116	484.7	.5040	1.021	.1216	.9238	.9183

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.043	1.050	.0023	.7884	1.015	1.011	.8997	.4851	.9241
Stddev	.004	.004	.0013	.0018	.002	.004	.0030	.0019	.0016
%RSD	.3720	.3380	55.69	.2245	.1824	.4005	.3384	.3952	.1691
#1	1.039	1.054	.0037	.7903	1.015	1.011	.8980	.4857	.9255
#2	1.047	1.047	.0021	.7882	1.016	1.007	.8978	.4829	.9244
#3	1.042	1.050	.0011	.7868	1.013	1.015	.9032	.4866	.9224

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1332.9	2683.8	21298.	8375.1
Stddev	2.9	2.7	42.	20.7
%RSD	.21485	.10217	.19581	.24704
#1	1330.3	2681.0	21277.	8372.2
#2	1336.0	2683.8	21346.	8397.1
#3	1332.6	2686.5	21270.	8356.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:33:24 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2522	43.10	2.048	2.058	2.013	38.84	2.103	2.153	2.043	1.878
Stddev	.0008	.04	.005	.004	.007	.19	.001	.003	.004	.007
%RSD	.3160	.1008	.2454	.1778	.3556	.5003	.0473	.1180	.2194	.3913
#1	.2529	43.08	2.047	2.055	2.007	38.65	2.105	2.150	2.039	1.870
#2	.2513	43.07	2.053	2.062	2.012	38.83	2.103	2.154	2.042	1.877
#3	.2524	43.15	2.044	2.058	2.021	39.04	2.103	2.155	2.048	1.885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.01	40.73	37.53	2.036	2.170	41.04	2.061	1.936	2.050	2.097
Stddev	.20	.06	.35	.010	.004	.10	.002	.004	.006	.002
%RSD	.5215	.1388	.9446	.4982	.1704	.2442	.0912	.2024	.3054	.0707
#1	38.84	40.73	37.18	2.032	2.166	41.06	2.059	1.936	2.043	2.095
#2	38.94	40.78	37.51	2.029	2.172	41.12	2.061	1.932	2.056	2.098
#3	39.23	40.67	37.89	2.048	2.172	40.93	2.063	1.940	2.049	2.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.066	1.887	2.023	1.989	1.940	1.995	2.034
Stddev	.003	.002	.023	.006	.002	.005	.001
%RSD	.1631	.0963	1.136	.3031	.1015	.2556	.0247
#1	2.062	1.886	2.040	1.988	1.938	1.992	2.034
#2	2.068	1.889	1.997	1.983	1.939	1.993	2.033
#3	2.068	1.886	2.032	1.995	1.942	2.001	2.034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:33:24 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1570.8	2959.2	23825.	8797.4
Stddev	2.0	2.0	76.	44.3
%RSD	.12628	.06591	.31740	.50320
#1	1572.0	2960.3	23891.	8839.6
#2	1571.9	2957.0	23840.	8801.2
#3	1568.5	2960.4	23742.	8751.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:37:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0096	.0010	.0002	.0000	.0123	-.0001	-.0001	-.0002
Stddev	.0001	.0028	.0011	.0000	.0000	.0004	.0000	.0001	.0000
%RSD	17.06	28.75	105.4	20.62	178.8	3.473	25.35	206.9	22.85
#1	-.0005	.0119	.0008	.0002	.0000	.0124	-.0001	.0001	-.0002
#2	-.0006	.0104	.0001	.0001	.0001	.0118	-.0001	.0000	-.0002
#3	-.0007	.0065	.0023	.0002	.0000	.0126	-.0001	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0221	-.0019	.0162	F.0011	F.0011	.0031	-.0002	.0001
Stddev	.0002	.0040	.0092	.0151	.0001	.0002	.0023	.0001	.0001
%RSD	25.75	18.21	484.3	93.41	6.296	21.65	75.54	31.58	235.9
#1	-.0008	.0254	-.0071	-.0009	.0011	.0012	.0057	-.0002	-.0001
#2	-.0011	.0232	-.0074	.0280	.0011	.0012	.0025	-.0002	.0002
#3	-.0007	.0176	.0088	.0215	.0012	.0008	.0011	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010	.0010			
Low Limit					-.0010	-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0009	.0013	F.0021	.0001	.0009	.0016	.0002	.0016
Stddev	.0008	.0006	.0003	.0013	.0000	.0000	.0012	.0003	.0000
%RSD	64.90	74.95	23.58	63.20	17.58	5.194	73.85	129.5	2.495
#1	.0021	-.0003	.0016	.0015	.0001	.0009	.0023	.0004	.0016
#2	.0006	-.0016	.0010	.0035	.0001	.0009	.0002	.0003	.0016
#3	.0010	-.0007	.0012	.0012	.0001	.0009	.0022	-.0001	.0016
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:37:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1913.4	3146.2	25054.	8951.5
Stddev	5.7	5.4	107.	36.7
%RSD	.29846	.17040	.42709	.40945
#1	1907.4	3140.1	25145.	8973.7
#2	1918.8	3150.0	24936.	8971.7
#3	1913.9	3148.6	25081.	8909.2

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.007608	0.000000	No
			Fe	0.000007	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000085	0.000000	No
			Cr	-0.000129	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 313.042 {108}	☒	2	V	0.000042	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000144	0.000000	No
			Ca	0.000002	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	2	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000004	0.000000	No
			Fe	-0.000004	0.000000	No
			Ca	0.000002	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000097	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000268	0.000000	No
			Al	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000011	0.000000	No
			Mg	0.000003	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000010	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000036	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000002	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	-0.000078	0.000000	No
			Fe	0.000020	0.000000	No
			Mo	-0.001466	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000240	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000020	0.000000	No
			Cr	0.006369	0.000000	No
			Mo	-0.002569	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	-0.000010	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	☒	12	Fe	-0.000046	0.000000	No
			Ca	0.000005	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000029	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000002	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000003	0.000000	No
Ti 334.941 {101}	☒	None				
Tl 190.856 {477}	☒	10	Co	0.003248	0.000000	No
			Fe	0.000041	0.000000	No
			Al	-0.000016	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000002	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000004	0.000000	No
			Cr	-0.001960	0.000000	No
			Mo	-0.004535	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000003	0.000000	No
			As	0.001105	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000265	0.506761	0.000000	1.000000
Al 396.152 { 85}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.004249	0.151790	0.000000	1.000000
As 189.042 {478}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000945	0.202618	0.000000	1.000000
Ba 455.403 { 74}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.003597	9.064078	0.000000	1.000000
Be 313.042 {108}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.000870	9.914741	0.000000	1.000000
Ca 317.933 {106}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.003133	0.226183	0.000000	1.000000
Cd 226.502 {449}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000916	4.212406	0.000000	1.000000
Co 228.616 {447}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000848	2.219680	0.000000	1.000000
Cr 267.716 {126}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000022	0.471335	0.000000	1.000000
Cu 324.754 {104}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.005640	0.994700	0.000000	1.000000
Fe 259.940 {130}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.002882	0.183734	0.000000	1.000000
In 230.606 {446}*	4/20/2011 9:03:12	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000589	0.065388	0.000000	1.000000
Mg 279.079 {121}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000060	0.022839	0.000000	1.000000
Mn 257.610 {131}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000363	2.977943	0.000000	1.000000
Mo 202.030 {467}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.001000	1.287890	0.000000	1.000000
Na 589.592 { 57}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.005775	0.262634	0.000000	1.000000
Ni 231.604 {445}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000317	1.375922	0.000000	1.000000
Pb 220.353 {453}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001235	0.778464	0.000000	1.000000
Sb 206.833 {463}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000341	0.300716	0.000000	1.000000
Se 196.090 {472}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.000312	0.140782	0.000000	1.000000
Si 212.412 {459}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.006635	0.328143	0.000000	1.000000
Sn 189.989 {477}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000044	0.209569	0.000000	1.000000
Sr 407.771 { 83}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001567	15.128708	0.000000	1.000000
Ti 334.941 {101}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.002327	2.147318	0.000000	1.000000
Tl 190.856 {477}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001409	0.359812	0.000000	1.000000
V 292.402 {115}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.000341	0.676203	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.002316	1.920636	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999930	0.000057	0.000454	0.001512	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999962	0.002126	0.005130	0.017099	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999964	0.000138	0.000920	0.003066	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999964	0.006189	0.000106	0.000352	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999890	0.011845	0.000037	0.000123	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999915	0.004737	0.001806	0.006021	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999901	0.004795	0.000063	0.000209	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999890	0.002659	0.000127	0.000423	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999906	0.000521	0.000311	0.001038	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999987	0.000408	0.000218	0.000727	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999791	0.006048	0.001265	0.004215	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999963	0.000903	0.019359	0.064529	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999968	0.000294	0.012701	0.042338	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999857	0.004055	0.000045	0.000150	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999979	0.000669	0.000145	0.000484	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999975	0.002988	0.004928	0.016427	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999837	0.002002	0.000207	0.000690	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999945	0.000657	0.000612	0.002041	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999986	0.000128	0.000947	0.003158	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999991	0.000048	0.001924	0.006412	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.999959	0.000245	0.000608	0.002026	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999889	0.000252	0.000753	0.002508	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999897	0.017490	0.000042	0.000139	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999981	0.001065	0.000103	0.000345	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999999	0.000050	0.000988	0.003293	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999653	0.001426	0.000267	0.000891	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999931	0.001812	0.000102	0.000338	OK.	1.000000	0.000000	1	0

Accutest Laboratories SE Metals Digestion Log Soil D.O.D.

MP #: 23311

Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 07/26/12 17:15

HotBlock I.D. 6

Thermometer I.D. 315

Correction Factor (°C) 0

Temperature Observed/Corrected (°C) 95 / 95

Balance I.D. ADVPRO 3

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC731	0.50	20
ACC736	0.25	20
Met 4334	0.25	20

Filter Lot#: 12022 8002

Dig. Tube Lot# 120425

Added B:

	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	115132	412065	L06071	F523-2001

Sample #			Wt., g	Final Volume(ml)	Comments
Method Blank(MB)			1.00	50	
Spike Blank(SB)			1.00		
Matrix Spike(MS)			1.09		
Matrix Spike Dup(MSD)			1.23		
Duplicate(DUP)			1.12		
1 QC C	F95217-1	D 8	1.11		
2	2	8	1.16		
3	3	8	1.38		
4	4	8	1.22		
5	5	8	1.39		
6	6	8	1.05		
7	F95274-1	8	1.19		
8	2	8	1.39		
9	3	8	1.02		
10	4	8	1.25		
11	5	8	1.02		
12	6	8	1.43		
13					
14					
15					
16					
17					
18					
19					
20					
21 E					
22 E					
23 E					
24 E					

N.O. 07/26/12

Analyst: Nicholas Orth Date: 07/26/12

QC Review: [signature] Date: 7/27/12

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

tcpsoildigestionlog012010.xls Rev 01/20/10 DM

Accutest Laboratories SE Mercury Digestion Log

Method of Digestion: SW846-7470A (7471B) EPA 245.1 (circle one) MP # 23332

Matrix: Water / (Soil) / TCLPW / TCLPS / SPLP / Other (circle one)

Analyst: JamesL

Thermometer I.D.: 213

Date/Time started (mm/dd/yy 24:00) 07.31.12 / 1100

Correction Factor(°C): -1

Date/Time ended (mm/dd/yy 24:00) 07.31.12 / 1130

Temp Observed/Corrected(°C): 95 / 94

HotBlock I.D.: 7 Balance ID ADVPRO3 Pipette # Used: 8 Pipette # Used: 19

Filter Lot #: 120228002 Digestion Tube Lot #: 1204125 PTFE Chips Lot #: FS23-210011

Reagents:[A]

	HNO_3	HCL	H_2SO_4	$KMnO_4$	$K_2S_2O_8$	$SnCL_2$	$NaCl/NH_2OH$-HCL
Lot/Met#:	L12065	L06071	N/A	Met4338	N/A	MKBT-8100V	Met4329

Sample #		Wt., g	Init.Vol(ml)	Fin.Vol.(ml)	Comments
STD1 Cal. Blank		.60		50	
STD2 0.1ml [B]					
STD3 0.5ml [B]					
STD4 1.5ml [B]					
STD5 2.5ml [B]					
STD6 3.0ml [B]					
ICV 1.5ml [F]					
ICB					
CRI 0.1ml [B]					
CCV 1.5ml [B]					
CCB					
Method Blank		.60		50	
Blank Spk. 1.5ml [B]		.60			
Matrix Spk 1.5ml [B]		.62			
Mat. Spk.Dup 1.5ml [B]		.61			
Duplicate		.63			
1QC [C] F95217-1	D 88	.65			DOD.
2 -2	88	.64			
3 -3	88	.62			
4 -4	88	.64			
5 -5	88	.62			
6 -6	88	.61			
7 F95274-1	88	.63			
8 -2	88	.62			
9 -3	88	.62			
10 -4	88	.62			
11 -5	88	.63			
12 -6	88	.61			
13 F95322-1	88	.66			
14 -2	88	.65			
15 -3	88	.63			
16 -4	88	.62			
17 -5	88	.64			
18 -6	88	.61			
19 -7	88	.66			
20 -8	88	.66			
21[E]					
22[E]					
23[E]					
24[E]					

JC 07.31.12

Analyst/Date James Jameano 07.31.12 QC Rev./Date 7.31.12

10ppm int. met# 4220 100ppb(curve,bs,ms,msd,cri,ccv)met# 4342

10ppm int. 2nd met# 4395 100ppb 2nd(ICV)met# 4306

A For reagent volumes used consult SOP MET 105 or MET 106, current revision
B Amount of 100 ppb standard added (100ppb standard prepared from 10ppm Intermediate).
C Parent sample used to prepare MS, MSD, DUP
D Bottle number
E Additional Matrix QC
F Amount of 100 ppb 2nd (ICV) standard added (100ppb 2nd (ICV) standard prepared from 10ppm Intermediate 2nd).

hgdigestionlog110110.xls Rev 11/01/10 SI

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: F95217
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: F95217-1 **Analyzed:** 26-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC501-CS-0001-072412

Wet Weight (Total)	6.18	g
Tare Weight	1.02	g
Dry Weight (Total)	5.19	g
Solids, Percent	80.8	%

Sample: F95217-2 **Analyzed:** 26-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC501-CS-0002-072412-FD

Wet Weight (Total)	7.38	g
Tare Weight	1.03	g
Dry Weight (Total)	6.3	g
Solids, Percent	83	%

Sample: F95217-3 **Analyzed:** 25-JUL-12 by KV **Method:** SM19 2540G
ClientID: USTC501-CS-0003-072412

Wet Weight (Total)	9.92	g
Tare Weight	1.01	g
Dry Weight (Total)	8.45	g
Solids, Percent	83.5	%

Sample: F95217-4 **Analyzed:** 25-JUL-12 by KV **Method:** SM19 2540G
ClientID: USTC501-CS-0004-072412

Wet Weight (Total)	8.26	g
Tare Weight	1.03	g
Dry Weight (Total)	7.55	g
Solids, Percent	90.2	%

Sample: F95217-5 **Analyzed:** 25-JUL-12 by KV **Method:** SM19 2540G
ClientID: USTC507-CS-0001-072412

Wet Weight (Total)	7.55	g
Tare Weight	1	g
Dry Weight (Total)	6.68	g
Solids, Percent	86.7	%

Sample: F95217-6 **Analyzed:** 25-JUL-12 by KV **Method:** SM19 2540G
ClientID: USTC507-CS-0002-072412

Wet Weight (Total)	7.52	g
Tare Weight	1.02	g
Dry Weight (Total)	6.43	g
Solids, Percent	83.2	%

ICP METALS ANALYSIS DATA VERIFICATION CHECKLIST
(USING DoD QSM 4.2)

UNITED STATES AIR FORCE
HOLLOMAN FORCE BASE

Location:	HOLLOMAN AFB	**SDG No.:**	F95274	**Sampling Dates:**	7/25/12
Laboratory:	ACCUTEST	**COC No.:**	F95274	**Matrix:**	SOIL
Parameter:				**Analytical Method:**	6010C
Extraction Dates/ Prep Batch No.:	7/26,31/12			**Analysis Dates:**	7/27,31/12
ICAL Calibration No.:	MA10000, MA9995				

CCV MA10000, MA9995
Sample IDs: USTC507-CS-0003-072512(-01), USTC507-CS-0004-072512(-02), USTC507-CS-0005-072512(-03), USTC507-CS-0006-072512(-04), USTC501-CS-0005-072512(-05), USTC501-CS-0006-072512(-06), USTC533-WS-0001-072512(-07A)

		Yes	No	N/A
1.	Analytical Capability			
	Was analytical capability demonstrated?	X		
2.	Limit of Detection (LOD)			
	Were LODs determined and verified?	X		
3.	Limit of Quantitation (LOQ)			
	Were LOQs determined and verified?	X		
4.	Instrument Detection Limit (IDL) study			
	Was an IDL study performed?	X		
5.	Sample Holding Time			
	Were samples analyzed within holding times?	X		
6.	Initial Calibration			
	Did the initial calibration consist of:			
	a) One high calibration standard and a blank?	X		
	b) Three or more standards and a blank?	X		

	Yes	No	N/A
7. Low Level Calibration Check Standard (daily after 1 point ICAL)			
Was the percentage "D" ≤20%?	X		
8. Initial Calibration Verification (ICV)			
a) Was it analyzed after each ICAL and the beginning of each analytical run?	X		
b) Was the mid-level (2nd source) within 90-110?	X		
9. Initial Calibration Blank (ICB)			
Was the ICB analyzed immediately following the ICV?	X		
10. Linear Dynamic Range or High Level Check Standard (every 6 months)			
Was recovery within 90-110?	X		
11. Interelement Check Standard (ICS)			
a) Was ICS-A (interferents only) conducted at the beginning of the analytical sequence?	X		
b) Were concentrations (absolute values) of all non-spiked analytes <LOD?	X		
c) Was ICS-B (interferents and target analytes) within QC limits (80-120)?	X		
12. Continuing Calibration Blank (CCB)			
a) Was a CCB conducted at least every 10 samples?	X		
b) Was a CCB conducted at the end of the analytical sequence?	X		
c) Were all analyte concentrations <LOD?	X		
13. Continuing Calibration Verification (CCV)			
a) Was a CCV conducted at least every 10 samples?	X		
b) Was a CCV conducted at the end of the analytical sequence?	X		
c) Were recoveries between 90-110%?	X		
14. Sample Quality Control			
a) Method Blanks			
1) Was a method blank present in every preparatory batch?	X		
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?		X	
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?		X	
b) Laboratory Control Sample (LCS)			
1) Was an LCS present in every preparatory batch?	X		

	Yes	No	N/A
2) Did the LCS contain all analytes to be reported?	X		
3) Were percent recoveries for the LCS within the limits (80-120)? (Enter out of control recoveries only)	X		

	Yes	No	N/A
c) Matrix Spike (MS)/Matrix Spike Duplicate (MSD)			
1) Was MS/MSD associated with project samples		X	
1) Were percent recoveries within limits (80-120)? (Enter out of control recoveries only)		X	
2) Were the relative percent differences (RPDs) within the acceptable limit (<20)? (Enter out of control recoveries only)	X	X	

Identification of Original Sample Used for QC

Sample ID	Analyte	Percent Reovery		mg/Kg		RPD
		MS	MSD	Original Sample	Duplicate Sample	
Batch QC samples – not related to SDG						

a) Was a 5-fold serial dilution conducted at least once preparatory batch?	X		
b) Was there an agreement between diluted and undiluted results (<10%)?	X		
16. Post Digestion Spike Addition			
a) Was a post-digestion spike addition necessary?	X		
b) Were recoveries within acceptable limits (75-125%)?		X	
Batch QC. No qualification of data, spike recovery indicates matrix interference and sample concentrations were high due to a high level of sample amount relative to spike amount.			
17. Method of Standard Addition (MSA)			
Was MSA performed on samples when matrix interference is confirmed (where dilution test fails or when concentrations in all samples are <50 times the LOD)?		X	
18. Analyte Detection			
a) Were any results between the DL and the LOQ?	X		
b) Were any results between the DL and LOQ J flagged?	X		
19. Sample Analysis	X		

Were samples with analyte concentrations higher than the calibration range (E), diluted and re-analyzed? _____

20. Field Duplicates _____

a) Were field duplicates identified X

b) Did RPD between original and duplicated met criteria (soils/waters 50%) X

Sample/Duplicate Pair: No

metals	Sample	RL	FD	RL	RPD
aluminum					#DIV/0!
antimony					-
arsenic					#DIV/0!
barium					#DIV/0!
beryllium					#DIV/0!
cadmium					-
calcium					#DIV/0!
chromium					#DIV/0!
cobalt					#DIV/0!
copper					#DIV/0!
iron					#DIV/0!
lead					#DIV/0!
magnesium					#DIV/0!
manganese					#DIV/0!
mercury					-
nickel					#DIV/0!
potassium					#DIV/0!
selenium					-
silver					-
sodium					#DIV/0!
thallium					-
vanadium					#DIV/0!
zinc					#DIV/0!

Comments (attach additional sheets if necessary):

Results J flagged by the lab were qualified as estimated J – DL-LOQ

Validated/Reviewed by:

Signature: _____ Date: 9/09/12

Name: Beulah Brock

Overall Assessment of the Data Package:

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
SEMIVOLATILE ORGANIC ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: Accutest **Sampling Date:** 07/25/12 **COC No.** **F95274**

Report No.: **F95274** **Extraction Date:** 7/27/12 **Analysis Date:** 7/30/12

TCLP: USTC533-WS-0001-072512(-07A): extracted 7/28/12; analysis: 7/28/12

Analytical Method: SW8270D **Matrix:** SOIL

Analyte: SVOAs **Sample IDs:**
USTC507-CS-0003-072512(-01), USTC507-CS-0004-072512(-02), USTC507-CS-0005-072512(-03), USTC507-CS-0006-072512(-04), USTC501-CS-0005-072512(-05), USTC501-CS-0006-072512(-06), USTC533-WS-0001-072512(-07A)

	Yes	No
1. Analytical Capability		
Was analytical capability demonstrated?	X	[ ]
2. Limit of Detection (LOD)		
Were LODs determined and verified?	[X]	[ ]
3. Limit of Quantitation (LOQ)		
Were LOQs determined and verified?	[X]	[ ]
4. Sample Holding Time		
a) Were samples extracted within holding times?	[X]	[ ]
b) Were samples analyzed within holding times?	[X]	[ ]
5. Instrument Tuning		
Was the DFTPP tune performed at the beginning of each 12-hour period during which samples were analyzed?	[X]	[ ]
6. Ion Mass Assignments		
Was mass assignment based on m/z 198?	[X]	[ ]
7. Ion Abundance		
Indicate if DFTPP ions abundance relative to m/z 198 base peak met the ions abundance criteria:		

m/z	Acceptance Criteria		
51	30.0 - 60.0 %	[X]	[ ]
68	< 2% of mass 69	[X]	[ ]
70	< 2% of mass 69	[X]	[ ]
127	40-60%	[X]	[ ]
197	< 1%	[X]	[ ]
198	**100%, Base peak**	[X]	[ ]
199	5-9%	[X]	[ ]
275	5.0 - 9.0%	[X]	[ ]
365	> 1%	[X]	[ ]
441	present but < mass 443	[X]	[ ]
442	> 40%	[X]	[ ]
443	17-23% of mass 442	[X]	[ ]

	Yes	No

8. Initial Calibration

a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model) — 5+stds [X] — 5+stds [ ]

b) Did the following System Performance Check Compounds (SPCC) meet the minimum mean response factor (RF)?

	RF		
N-nitroso-di-n-propylamine	0.05	[X]	[ ]
Hexachlorocyclopentadiene	0.05	[X]	[ ]
2,4-dinitrophenol	0.05	[X]	[ ]
4-nitrophenol	0.05	[X]	[ ]

c) Did the RSD meet the criteria ≤ 30% for the following individual Calibration Check Compound (CCC)?

Base/Neutral Fraction		
Acenaphthene	[X]	[ ]
1,4-Dichlorobenzene	[X]	[ ]
Hexachlorobutadiene	[X]	[ ]
Diphenylamine	[X]	[ ]
Di-n-octylphthalate	[X]	[ ]
Fluoranthene	[X]	[ ]
Benzo(a)pyrene	[X]	[ ]
Acid Fraction		
4-Chloro-3-methylphenol	[X]	[ ]
2,4-Dichlorophenol	[X]	[ ]
2-Nitrophenol	[X]	[ ]
Phenol	[X]	[ ]
Pentachlorophenol	[X]	[ ]
2,4,6-Trichlorophenol	[X]	[ ]

d) In addition, has met one of the following options:

1) RSD for each analyte ≤ 15%	[X]	[ ]
2) Linear least square regression r ≥ 0.995	[X]	[ ]
3) Non-linear regression-coefficient $r^2 \geq 0.99$	[X]	[ ]

9. Retention Time Window

Were retention time window position established for each analyte and surrogate? — [X] — [ ]

10. Evaluation of relative retention time

Was RRT of each target analyte within ± 0.06 RRT units — [X] — [ ]

11. Initial Calibration Verification (ICV)

a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within ± 20% of the true value?	[X]	[ ]

12. Continuing Calibration Verification (CCV)

a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did any of SPCC meet the minimum RF values?	[X]	[ ]

	RF	Yes	No
N-nitroso-di-n-propylamine	0.05	[X]	[ ]
Hexachlorocyclopentadiene	0.05	[X]	[ ]
2,4-dinitrophenol	0.05	[X]	[ ]
4-nitrophenol	0.05	[X]	[ ]

c) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?

Base/Neutral Fraction		
Acenaphthene	[X]	[ ]
1,4-Dichlorobenzene	[X]	[ ]
Hexachlorobutadiene	[X]	[ ]
Diphenylamine	[X]	[ ]
Di-n-octylphthalate	[X]	[ ]
Fluoranthene	[X]	[ ]
Benzo(a)pyrene	[X]	[ ]
Acid Fraction		
4-Chloro-3-methylphenol	[X]	[ ]
2,4-Dichlorophenol	[X]	[ ]
2-Nitrophenol	[X]	[ ]
Phenol	[X]	[ ]
Pentachlorophenol	[X]	[ ]
2,4,6-Trichlorophenol	[X]	[ ]

d) Primary Evaluation Was Drift or D ≤ 20% calculated from the initial calibration? [X] [ ]

13. Internal Standard Verification

a) Were retention times ± 30 seconds from the retention time of the mid- point standard in the ICAL? [X] [ ]

b) Were EICP areas within -50% to + 100% of the ICAL mid-point standard? [X] [ ]

14. Sample Quality Control

a) Method Blanks

1) Was a method blank present for each preparatory batch? [X] [ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater? [ ] [X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)? [ ] [X]

b) Common Contaminants

Were any analytes present >RL? [ ] [X]

	Yes	No
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD

d) MS/MSD
   1) Were the percent recoveries within limits? [ ] [X]
      (Enter out of control recoveries only)
   2) Were the RPD within limits? [ ] [X]

Identification of Original Sample Used for QC

Spiked compound	MS %R	MSD%R	%RPD
Batch QC sample F952275-1 and F95305-1, not related to this SDG.			

e) System Monitoring Compounds (Surrogates)
   Are surrogate recoveries within QC limits? [X] [ ]
   (Enter out of control recoveries only)

Sample ID	%R					
	S1	**S2**	**S3**	**S4**	**S5**	**S6**
	(40-125)	(50-110)	(20-110)	(40-110)	50-135)	(10-115)

NOTE: S1=2,4,6-Tribromophenol, S2=2-Fluorobiphenyl, S3=2-Fluorophenol, S4=Nitrobenzene-d5, S5=p-Terphenyl-d14 ~~S6: Phenol-d5~~

Was there a sample/duplicate pair: No
Was the RPD criteria met N/A

Sample/Duplicate Pair: No

15. Analyte Detection
   a) Were results reported between the DL and the LOQ? [X] [ ]
   b) Were results reported between the DL and the LOQ J flagged? [X] [ ]

Comments (attach additional sheets if necessary)

Data accepted as reported by the lab.

Validated/Reviewed by:

Signature: Date: 9/09/12

Name: Beulah Brock

Overall Assessment of the Data Package:

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
TPH_GRO / TPH(C10-C28) / TPH(28-40) ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: ACCUTEST **Sampling Date:** 7/25/12 **COC No.** F95274

Report No.: F95274 **Extraction Date:** 7/31/12 **Analysis Date:** 8/08/12

Analytical Method: 8015C **Matrix:** SOIL

Analyte: TPH(C10-C28) / TPH(28-40)

Sample IDs:
USTC507-CS-0003-072512(-01), USTC507-CS-0004-072512(-02), USTC507-CS-0005-072512(-03), USTC507-CS-0006-072512(-04), USTC501-CS-0005-072512(-05), USTC501-CS-0006-072512(-06)

	Yes	No
1. Initial Calibration		
a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model)	5+-stds [X]	5+stds [ ]
	X	
a) Did the RSD meet the criteria ≤ 15%.		
2. Initial Calibration Verification (ICV)		
a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within ± 20% of the true value?		
3. Continuing Calibration Verification (CCV)		
a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?	[X]	[ ]
4. Sample Quality Control		
a) Method Blanks		
1) Was a method blank present for each preparatory batch?	[X]	[ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?	[ ]	[X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?	[ ]	[X]
b) Common Contaminants		
Were any analytes present >RL?	[ ]	[X]
	Yes	No
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD

d) MS/MSD

1) Is batch MS/MSD associated with SDG [ ] [X]
2) Were the percent recoveries within limits? [X] [ ]
(Enter out of control recoveries only)
3) Were the RPD within limits? [X] [ ]

Identification of Original Sample Used for QC

Sample	Spiked compound	MS %R	MSD%R	%RPD
MS/MSD Sample: Batch QC F95360-1, not related to this SDG				

e) System Monitoring Compounds (Surrogates)
Are surrogate recoveries within QC limits? [X] [ ]
(Enter out of control recoveries only)

Sample	Spiked compound	%R		

5. Analyte Detection
   a) Were results reported between the DL and the LOQ? [X] [ ]
   b) Were results reported between the DL and the LOQ J flagged? [X] [ ]
6. Field duplicates
   a) Are field duplicated identified [ ] [X]
   b) Are field dups criteria met [ ] [ ]N/A
   c) If not identify below

Sample/Duplicate Pair: No

Comments (attach additional sheets if necessary)

Data accepted as reported from the lab.

Validated/Reviewed by:
Name: Beulah Brock Date: 9/09/12

Signature:

Overall Assessment of the Data Package:

Data acceptable as reported by laboratory

DATA VERIFICATION USING DoD QSM 4.2
UNITED STATES AIR FORCE
HOLLOMAN AIR FORCE BASE
TPH_GRO / TPH(C10-C280 / TPH(28-40) ANALYSIS
CHECKLIST

Project Name: **Holloman Air Force Base**

Laboratory: ACCUTEST **Sampling Date:** 7/25/12 **COC No.** F95274

Report No.: F95274 **Extraction Date:** N/A **Analysis Date:** 7/26/12

Analytical Method: 8015C **Matrix:** SOIL **Analyte:** TPH-GRO

Sample IDs:
USTC507-CS-0003-072512(-01), USTC507-CS-0004-072512(-02), USTC507-CS-0005-072512(-03), USTC507-CS-0006-072512(-04), USTC501-CS-0005-072512(-05), USTC501-CS-0006-072512(-06)

	Yes	No
1. Initial Calibration		
a) Did the initial calibration consist of five or more standards? (If the calibration curve consisted of 5-standards, check validity of the calibration model)	5-stds [X]	5+stds [ ]
a) Did the RSD meet the criteria ≤ 15%.	X	
2. Initial Calibration Verification (ICV)		
a) Was an ICV run immediately after each ICAL?	[X]	[ ]
b) Is the mid-level (2nd source) within ± 20% of the true value?		
3. Continuing Calibration Verification (CCV)		
a) Was CCV conducted every 12 hours?	[X]	[ ]
b) Did the CCC meet the minimum requirements (D ≤ 20%) for the followings?	[X]	[ ]
4. Sample Quality Control		
a) Method Blanks		
1) Was a method blank present for each preparatory batch?	[X]	[ ]
2) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater?	[ ]	[X]
3) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)?	[ ]	[X]
b) Common Contaminants		
Were any analytes present >RL?	[ ]	[X]
c) LCS		
1) Was an LCS included in each preparatory batch?	[X]	[ ]
2) Did the LCS contain all analytes to be reported?	[X]	[ ]
3) Were the percent recoveries for LCS within the limits? (Enter out of control recoveries only)	[X]	[ ]

Identification of LCS Standard

Spiked Compound	LCS %R	LCSD %R	%RPD
	.		

d) MS/MSD

1) Is batch MS/MSD associated with SDG [ ] [X]
2) Were the percent recoveries within limits? [ ] [X]
(Enter out of control recoveries only)
3) Were the RPD within limits? [X] [ ]

Identification of Original Sample Used for QC

Sample	Spiked compound	MS %R	MSD%R	%RPD
	.			
MS/MSD Sample: Batch QC sample F95178-2; not related to SDG.				

e) System Monitoring Compounds (Surrogates)
Are surrogate recoveries within QC limits? [X] [ ]
(Enter out of control recoveries only)

5. Analyte Detection

a) Were results reported between the DL and the LOQ? [X] [ ]
b) Were results reported between the DL and the LOQ J flagged? [X] [ ]

a) Were field duplicates identified [ ] [X]
b) Did RPD between original and duplicated met criteria (soils/waters 50%) [ ] [ ] N/A

Sample/Duplicate Pair: No

Comments (attach additional sheets if necessary)

Data accepted as reported from the lab.

Validated/Reviewed by:
Name: Beulah Brock Date: 9/09/12

Signature:

Overall Assessment of the Data Package:
Data acceptable as reported by laboratory

VOLATILE ORGANIC COMPOUNDS ANALYSIS DATA VERIFICATION CHECKLIST
(USING DoD QSM 4.2)

UNITED STATES AIR FORCE
HOLLOMAN BASE

Location:	Holloman AFB	**SDG No.:**	F95274	**Sampling Dates:**	7/25/12
Laboratory:	Accutest	**COC No.:**	F95274	**Matrix:**	SOIL
Parameter:	VOCs			**Analytical Method:**	8260B
Extraction Dates/ Prep Batch No.:	N/A			**Analysis Dates:**	7/27/12

Sample ID
TCLP: USTC533-WS-0001-072512(-07A): extracted 7/27/12; analysis: 7/28/12
USTC507-CS-0003-072512(-01), USTC507-CS-0004-072512(-02), USTC507-CS-0005-072512(-03), USTC507-CS-0006-072512(-04), USTC501-CS-0005-072512(-05), USTC501-CS-0006-072512(-06), USTC533-WS-0001-072512(-07A)

	Yes	No	N/A
1. Analytical Capability			
Was analytical capability demonstrated?	X		
2. Limit of Detection (LOD)			
Were LODs determined and verified?	X		
3. Limit of Quantitation (LOQ)			
Were LOQs determined and verified?	X		
4. Sample Holding Time			
a) Were samples preserved?	X		
b) Were samples analyzed within holding times?	X		
5. Instrument Tuning			
Was the BFB tune performed at the beginning of each 12-hour periods during which samples were analyzed?	X		
6. Ion Mass			
Was mass assignment based on m/z 95?	X		
7. Ion Abundance	X		
Indicate if BFB ions abundance relative to m/z 95 base peak met the ions abundance criteria:			

	Yes	No	N/A
m/z Acceptance Criteria	X		

50	15.0 – 40.0%			
75	30.0 – 66.0%	X		
95	100%, Base Peak	X		
96	5.0 – 9.0%	X		
173	<2.0% of m/z 174	X		
174	>50%	X		
175	5.0 – 9.0% of mass 174	X		
176	95.0 – 101.0% of m/z 174	X		
177	5.0 – 9.0% of m/z 176	X		

Note: The relative ion abundance of m/z 95/96, 174/176, and 176/177 are of critical importance. The relative ion abundance of m/z 50 and 75 are of lower importance.

8. Initial Calibration

a) Did the initial calibration consist of five or more standards? _____ stds — X

b) Did the following System Performance Check Compounds (SPCCs) meet the minimum mean response factor (RF)?

	RF			
Chloromethane	0.1	X		
1,1-Dichloroethane	0.1	X		
Bromoform	0.1	X		
Chlorobenzene	0.3	X		
1,1,2,2-Tetrachloroethane	0.3	X		

c) Did the RSD meet the criteria ≤ 30% for the following Calibration Check Compounds (CCCs)?

	Yes	**No**	**N/A**
1,1-Dichloroethene	X		
Chloroform	X		
1,2-Dichloropropane	X		
Toluene	X		
Ethylbenzene	X		
Vinyl chloride	X		

d) In addition, did the initial calibration meet any of the following options:

i) RSD for each analyte ≤ 15% — X

ii)	Linear least square regression r $\geq$ 0.995	X		
iii)	Non-linear regression-coefficient $r^2 \geq 0.99$	X		

9. Retention Time Window

Were retention time window positions established for each analyte and surrogate?	X		

10. Evaluation of Relative Retention Time

Was RRT of each target analyte within $\pm$ 0.06 RRT units?	X		

11. Initial Calibration Verification (ICV)

a) Was an ICV run immediately after each ICAL?	X		
b) Was the mid-level (2nd source) within $\pm$ 20% of the true value?	X		

12. Continuing Calibration Verification (CCV)

a) Was a CCV conducted at least every 12 hours?		X		
b) Did any of the SPCCs meet the minimum RF values?		X		
	RF			
Chloromethane	0.1	X		
1,1-Dichloroethane	0.1	X		
Bromoform	0.1	X		
Chlorobenzene	0.3	X		
1,1,2,2-Tetrachloroethane	0.3	X		
c) Did the CCC meet the minimum requirements (D $\leq$ 20%) for the following?				
1,1-Dichloroethene		X		
Chloroform		X		
1,2-Dichloropropane		X		
Toluene		X		
Ethylbenzene		X		
Vinyl chloride		X		
d) Primary Evaluation: Was drift (D) $\leq$ 20% calculated from the initial calibration?		X		

CCAL: The following were qualified (UJ – CCAL) due to %D: Carbon Tetrachloride, 1,2-Dichloroethane
Sample: USTC533-WS-0001-072512(-07A)

	Yes	No	N/A

13. Internal Standard Verification

a) Were retention times ± 30 seconds from the retention time of the mid-point standard in the ICAL? X

b) Were EICP areas within -50% to +100% of the ICAL mid-point standard? X

Sample	Internal Standard	Associated compounds	Validation qualifiers

14. Sample Quality Control

a) Method Blanks

i) Was a method blank present in every preparatory batch? X

ii) Were target analytes detected >1/2 RL, and >1/10 the amount measured in any sample or 1/10 the regulatory limit, whichever is greater? X

iii) Did the method blank fail project-specific objectives (>1/2 the RL or > the RL)? X

b) Common Contaminants

i) Were any analytes present >RL? X

c) Laboratory Control Sample (LCS)

1) Was an LCS present in every preparatory batch? X

2) Did the LCS contain all analytes to be reported? X

3) Were percent recoveries for the LCS within the limits? X

(Enter out of control recoveries only)

Identification of LCS Standard

Spiked Compound	LCS (Limit: 80-130 %R)	LCSD (Limit: 80-130 %R)	RPD (<20%)
Chloroform	124		
1,2-Dichloroethane	130		

Chloroform and 1,2-Dichloroethane are non-detect in the associated sample and the bias is positive; no qualification of data

d) Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

i) Were percent recoveries within limits? X

(Enter out of control recoveries only)

ii) Were the relative percent differences (RPDs) within the acceptable limits? X

(Enter out of control recoveries only)

Identification of Original Sample Used for QC

Sample ID	Analyte	Percent Reovery		mg/Kg		RPD
		MS	MSD	Original Sample	Duplicate Sample	
Sample: USTC507-CS-0006-072512(-04)	Acetone	Ok	Ok			35
	Bromoform	Ok	Ok			32
	Cyclohexane	71	74	Low recovery		Ok
	1,2-Dibromoethane	Ok	Ok			32
	m-Dichlorobenzene	Ok	81	Low recovery		Ok
	o-Dichlorobenzene	Ok	79	Low recovery		Ok
	p-Dichlorobenzene	Ok	79	Low recovery		Ok
	Trans-1,3-Dichloropropene	Ok	80	Low recovery		Ok
	2-Hexanone	Ok	Ok			40
	4-Methyl-2-pentanone	Ok	Ok			35
	Methyl acetate	Ok	Ok			40
	Methyl ethyl ketone	Ok	Ok			42
	1,2,4-Trichlorobenzene	76	65	Low recovery		Ok
	Xylene (total)	Ok	82	Low recovery		ok

The following qualified (UJ- MS/MSD): Cyclohexane, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Trans-1,3-Dichloropropene, 1,2,4-Trichlorobenzene, Xylene (total).
Data not qualified for RPD results that were outside QClimits. The affected analytes are non-detect in the parent sample.
Sample: USTC507-CS-0006-072512(-04)

MS/MSD USTC533-WS-0001-072512(-07A): Criteria met.

	Yes	No	N/A
e) System Monitoring Compounds			
iii) Are surrogate recoveries within QC limits?	X		

(Enter out of control recoveries only)

Surrogate Recoveries

Sample ID	%Recovery			
	S1	S2	S3	S4
	(35-125)	(76-127) 1,2-DCE-D4	(35-105)	(35-100)
USTC533-WS-0001-072512(-07A)		129		
Percent recovery exceeded the QC limit and all analytes are non-detect in the parent sample. No qualification of data.				

NOTE: S1=1,2-Dichloroethane-d4, S2=Dibromofluoromethane, S3=4-Bromofluorobenzene, S4=Toluene-8

Was there a sample/duplicate pair: No
Was the RPD criteria met N/A
Sample/Duplicate Pair: No

Comments (attach additional sheets if necessary):

MS/MSD: The following qualified (UJ- MS/MSD): Cyclohexane, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Trans-1,3-Dichloropropene, Methylcyclohexane, 1,2,4-Trichlorobenzene, Xylene (total).
Data not qualified for RPD results that were outside QClimits. The affected analytes are non-detect in the parent sample.
Sample: USTC507-CS-0006-072512(-04)

CCAL: The following were qualified (UJ – CCAL) due to %D: Carbon Tetrachloride, 1,2-Dichloroethane
Sample: USTC533-WS-0001-072512(-07A)

Validated/Reviewed by:

Signature: Date: 9/08/12

Name: Beulah Brock

Overall Assessment of the Data Package: Data acceptable as reported by laboratory

Southeast
ACCUTEST LABORATORIES

08/15/12

Technical Report for

SHAW E & I

Holloman AFB; NM

144106.JM20000

Accutest Job Number: F95274

Sampling Date: 07/25/12

Report to:

Shaw Environmental & Infrastructure, In.
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Total number of pages in report: **1077**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

SHAW E & I

Job No: F95274

Holloman AFB; NM
Project No: 144106.JM20000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F95274-1	07/25/12	08:27	CL	07/26/12	SO	Soil	USTC507-CS-0003-072512
F95274-2	07/25/12	09:35	CL	07/26/12	SO	Soil	USTC507-CS-0004-072512
F95274-3	07/25/12	10:35	CL	07/26/12	SO	Soil	USTC507-CS-0005-072512
F95274-4	07/25/12	11:00	CL	07/26/12	SO	Soil	USTC507-CS-0006-072512
F95274-5	07/25/12	13:25	CL	07/26/12	SO	Soil	USTC501-CS-0005-072512
F95274-6	07/25/12	13:55	CL	07/26/12	SO	Soil	USTC501-CS-0006-072512
F95274-7	07/25/12	13:30	CL	07/26/12	SO	Soil	OTC533-WC-0001-072512
F95274-7A	07/25/12	13:30	CL	07/26/12	SO	Soil	OTC533-WC-0001-072512

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SHAW E & I **Job:** F95274

Site: Holloman AFB; NM **Report Date:** 8/13/2012 3:33:11 PM

7 Samples were collected on 07/25/2012 and were received at Accutest SE on 07/26/2012 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of F95274. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: LEACHATE **Batch ID:** VP367

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95274-7AMS, F95274-7AMSD, F95305-1DUP were used as the QC samples indicated.

Blank Spike Recovery for Chloroform and 1,2-Dichloroethane are outside control limits. Within DOD QSM control limits.

Sample(s) F95274-7AMSD, F95274-7A have surrogates outside control limits. Probable cause is due to matrix interference.

RPD for F95305-1DUP was outside control limits. RPD is acceptable due to low duplicate and sample concentrations.

F95274-7A, F95305-1DUP for 1,2-Dichloroethane-D4: Associated CCV outside control limits.

F95274-7A for Chloroform, 1,2-Dichloroethane: Associated BS recovery outside control limits.

Matrix: SO **Batch ID:** VH2862

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95274-4MS, F95274-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,2,4-Trichlorobenzene, Cyclohexane, Methylcyclohexane are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene, Cyclohexane, m-Dichlorobenzene, Methylcyclohexane, o-Dichlorobenzene, p-Dichlorobenzene, trans-1,3-Dichloropropene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 1,2-Dibromoethane, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Bromoform, Methyl acetate, Methyl ethyl ketone are outside control limits for sample F95274-4MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: LEACHATE **Batch ID:** OP42844

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) OP42844-LBS, F95305-1MS, F95305-1MSD, F95209-1DUP were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP42829

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95275-1MS, F95275-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Methylphenol, Isophorone, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, Isophorone are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 4-Chloroaniline are outside control limits for sample OP42829-MSD. Probable cause due to sample non-homogeneity.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3028

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95178-2MS, F95178-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause is due to matrix interference. For method performance in clean matrix, refer to Blank Spike.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP42889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95360-1MS, F95360-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: LEACHATE **Batch ID:** MP23320

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95305-1DUP, F95305-1MS, F95305-1MSD, F95305-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Silver are outside control limits for sample MP23320-D1, MP23320-D2. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Silver are outside control limits for sample MP23320-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP23311

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95217-1DUP, F95217-1MS, F95217-1MSD, F95217-1PS, F95217-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Barium, Potassium, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Antimony, Barium, Chromium are outside control limits. Probable cause due to matrix interference and/or sample non-homogeneity.

Matrix Spike Recovery(s) for Aluminum, Calcium, Iron, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Matrix Spike Duplicate Recovery(s) for Aluminum, Calcium, Iron, Magnesium, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Duplicate for Chromium, Barium are outside control limits for sample MP23311-D1. High RPD due to possible sample nonhomogeneity.

RPD(s) for MSD for Antimony, Vanadium are outside control limits for sample MP23311-S2. High RPD due to possible sample nonhomogeneity.

RPD(s) for Serial Dilution for Arsenic, Vanadium are outside control limits for sample MP23311-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23311-D1 for Barium: RPD acceptable due to low duplicate and sample concentrations.

MP23311-SD1 for Vanadium: Serial dilution indicates possible matrix interference.

MP23311-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23311

MP23311-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Nickel: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Cobalt: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Beryllium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23311-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP23340

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95335-1DUP, F95335-1MS, F95335-1MSD, F95335-1SDL were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23332

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95217-1MS, F95217-1MSD, F95217-1SDL, F95217-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23332-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23332-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN50972

Sample(s) F95270-1DUP was used as the QC sample for Solids, Percent.

Matrix: SO **Batch ID:** GN50980

Sample(s) F95261-1DUP was used as the QC sample for Solids, Percent.

Wet Chemistry By Method SW846 1010

Matrix: SO **Batch ID:** GN51163

Sample(s) F95274-7DUP was used as the QC sample for Ignitability (Flashpoint).

F95274-7 for Ignitability (Flashpoint): Not ignitable

Wet Chemistry By Method SW846 CHAP7

Matrix: SO **Batch ID:** GP19697

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95274-7DUP was used as the QC sample for Sulfide Reactivity.

RPD(s) for Duplicate for Sulfide Reactivity are outside control limits for sample GP19697-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: SO **Batch ID:** GP19698

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95274-7DUP was used as the QC samples for Cyanide Reactivity.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: August 13, 2012

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
F95178-2MS	GCVOA	QR069956.D	4-Bromofluorobenzene
F95178-2MSD	GCVOA	QR069957.D	4-Bromofluorobenzene
GQR3009-IC3009	GCVOA	QR069319.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069320.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069321.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069323.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-IC3009	GCVOA	QR069324.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-ICC3009	GCVOA	QR069322.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3009-ICV3009	GCVOA	QR069325.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069360.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069370.D	aaa-Trifluorotoluene
GQR3010-CC3009	GCVOA	QR069380.D	aaa-Trifluorotoluene
GQR3010-ECC3009	GCVOA	QR069390.D	aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069394.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069405.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-CC3009	GCVOA	QR069416.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3011-ECC3009	GCVOA	QR069426.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3012-CC3009	GCVOA	QR069436.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3012-CC3009	GCVOA	QR069446.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069487.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069497.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-CC3009	GCVOA	QR069509.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3014-ECC3009	GCVOA	QR069520.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069523.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069533.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-CC3009	GCVOA	QR069545.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3015-ECC3009	GCVOA	QR069554.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3016-CC3009	GCVOA	QR069557.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3016-CC3009	GCVOA	QR069568.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069593.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069604.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-CC3009	GCVOA	QR069614.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3017-ECC3009	GCVOA	QR069623.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069633.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069643.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3018-CC3009	GCVOA	QR069654.D	4-Bromofluorobenzene, aaa-Trifluorotoluene

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
GQR3018-ECC3009	GCVOA	QR069664.D	4-Bromofluorobenzene, aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069667.D	aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069677.D	aaa-Trifluorotoluene
GQR3019-CC3009	GCVOA	QR069688.D	aaa-Trifluorotoluene
GQR3019-ECC3009	GCVOA	QR069698.D	aaa-Trifluorotoluene
GQR3020-CC3009	GCVOA	QR069702.D	aaa-Trifluorotoluene
GQR3020-CC3009	GCVOA	QR069710.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069929.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069940.D	aaa-Trifluorotoluene
GQR3028-CC3009	GCVOA	QR069951.D	aaa-Trifluorotoluene
GQR3028-ECC3009	GCVOA	QR069958.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069977.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069984.D	aaa-Trifluorotoluene
GQR3030-CC3009	GCVOA	QR069995.D	aaa-Trifluorotoluene
GYY1143-IC1143	GCSEMI	YY30920.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30921.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30922.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30924.D	o-Terphenyl
GYY1143-IC1143	GCSEMI	YY30925.D	o-Terphenyl
GYY1143-ICC1143	GCSEMI	YY30923.D	o-Terphenyl
GYY1147-CC1143	GCSEMI	YY31019.D	o-Terphenyl
GYY1148-CC1143	GCSEMI	YY31054.D	o-Terphenyl
GYY1149-CC1143	GCSEMI	YY31074.D	o-Terphenyl
GYY1149-ECC1143	GCSEMI	YY31085.D	o-Terphenyl
OP42829-BS	MSSEMI	L058468.D	Caprolactam
OP42829-MS	MSSEMI	L058471.D	Benzoic Acid
OP42829-MSD	MSSEMI	L058472.D	Benzoic Acid
OP42889-BS	GCSEMI	YY31034.D	o-Terphenyl
OP42889-MB	GCSEMI	YY31076.D	o-Terphenyl
OP42889-MS	GCSEMI	YY31058.D	o-Terphenyl
OP42889-MSD	GCSEMI	YY31059.D	o-Terphenyl
SL2973-IC2973	MSSEMI	L058207.D	Benzo(k)fluoranthene
SL2973-IC2973	MSSEMI	L058208.D	Benzo(k)fluoranthene, Caprolactam
SL2973-IC2973	MSSEMI	L058209.D	1,4-Dioxane, Benzo(k)fluoranthene, Caprolactam
SL2973-ICC2973	MSSEMI	L058206.D	Benzo(k)fluoranthene
SL2973-ICV2973	MSSEMI	L058210.D	Caprolactam
SL2984-CC2973	MSSEMI	L058467.D	Caprolactam
SL2985-CC2973	MSSEMI	L058495.D	Caprolactam
SX1186-IC1186	MSSEMI	X024408.D	Caprolactam
SX1192-CC1186	MSSEMI	X024535.D	Caprolactam
VH2862-IC2862	MSVOA	H0077062.D	Methyl methacrylate
VH2862-IC2862	MSVOA	H0077063.D	1,4-Dioxane
VH2862-IC2862	MSVOA	H0077065.D	Tetrahydrofuran
VH2862-IC2862	MSVOA	H0077066.D	Tetrahydrofuran
VH2862-ICV2862	MSVOA	H0077067.D	Naphthalene, Pentachloroethane
VP354-IC354	MSVOA	P8750.D	1,2-Dichlorotrifluoroethane, Trichlorofluoromethane
VP354-IC354	MSVOA	P8751.D	Trichlorofluoromethane
VP354-IC354	MSVOA	P8752.D	Trichlorofluoromethane
VP354-IC354	MSVOA	P8754.D	Trichlorofluoromethane
VP354-IC354	MSVOA	P8755.D	Trichlorofluoromethane
VP354-ICC354	MSVOA	P8753.D	Trichlorofluoromethane
VP354-ICV354	MSVOA	P8757.D	Trichlorofluoromethane
VP366-CC354	MSVOA	P9067.D	Trichlorofluoromethane
VP369-IC369	MSVOA	P9108.D	p-Dichlorobenzene, Tert-Butyl Alcohol, Trichlorofluoromethane, Vinyl chloride
VP369-IC369	MSVOA	P9109.D	Trichlorofluoromethane
VP369-IC369	MSVOA	P9110.D	Trichlorofluoromethane
VP369-IC369	MSVOA	P9112.D	Trichlorofluoromethane
VP369-IC369	MSVOA	P9113.D	Trichlorofluoromethane
VP369-ICC369	MSVOA	P9111.D	Trichlorofluoromethane
VP369-ICV369	MSVOA	P9115.D	Trichlorofluoromethane

96 Manual Integrations were found for F95274

Summary of Hits

Job Number: F95274
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/25/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95274-1	**USTC507-CS-0003-072512**					
Aluminum		8170	100	12	mg/kg	SW846 6010C
Arsenic		1.4 J	5.1	1.0	mg/kg	SW846 6010C
Barium		71.3 J	100	5.1	mg/kg	SW846 6010C
Calcium		177000	2500	51	mg/kg	SW846 6010C
Chromium		9.2	5.1	0.51	mg/kg	SW846 6010C
Cobalt		2.4 J	25	0.51	mg/kg	SW846 6010C
Copper		4.4 J	13	1.0	mg/kg	SW846 6010C
Iron		7480	150	17	mg/kg	SW846 6010C
Lead		4.4 J	10	0.51	mg/kg	SW846 6010C
Magnesium		3590	2500	51	mg/kg	SW846 6010C
Manganese		141	7.6	0.51	mg/kg	SW846 6010C
Nickel		6.6 J	20	0.51	mg/kg	SW846 6010C
Potassium		1480 J	5100	250	mg/kg	SW846 6010C
Vanadium		14.4 J	25	0.51	mg/kg	SW846 6010C
Zinc		23.1	10	2.5	mg/kg	SW846 6010C
F95274-2	**USTC507-CS-0004-072512**					
TPH (C10-C28)		4.01 J	10	4.0	mg/kg	SW846 8015C
Aluminum		8260	85	10	mg/kg	SW846 6010C
Arsenic		2.0 J	4.3	0.85	mg/kg	SW846 6010C
Barium		53.4 J	85	4.3	mg/kg	SW846 6010C
Calcium		193000	2100	43	mg/kg	SW846 6010C
Chromium		8.5	4.3	0.43	mg/kg	SW846 6010C
Cobalt		2.6 J	21	0.43	mg/kg	SW846 6010C
Copper		3.8 J	11	0.85	mg/kg	SW846 6010C
Iron		7210	130	14	mg/kg	SW846 6010C
Lead		3.7 J	8.5	0.43	mg/kg	SW846 6010C
Magnesium		3130	2100	43	mg/kg	SW846 6010C
Manganese		151	6.4	0.43	mg/kg	SW846 6010C
Nickel		6.8 J	17	0.43	mg/kg	SW846 6010C
Potassium		1520 J	4300	210	mg/kg	SW846 6010C
Vanadium		14.3 J	21	0.43	mg/kg	SW846 6010C
Zinc		20.4	8.5	2.1	mg/kg	SW846 6010C
F95274-3	**USTC507-CS-0005-072512**					
TPH (C10-C28)		5.11 J	10	4.0	mg/kg	SW846 8015C
Aluminum		5910	120	14	mg/kg	SW846 6010C
Barium		45.2 J	120	5.9	mg/kg	SW846 6010C
Calcium		196000	2900	59	mg/kg	SW846 6010C
Chromium		6.3	5.9	0.59	mg/kg	SW846 6010C
Cobalt		1.7 J	29	0.59	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95274
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/25/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		2.8 J	15	1.2	mg/kg	SW846 6010C
Iron		5170	180	19	mg/kg	SW846 6010C
Lead		2.6 J	12	0.59	mg/kg	SW846 6010C
Magnesium		2400 J	2900	59	mg/kg	SW846 6010C
Manganese		97.9	8.8	0.59	mg/kg	SW846 6010C
Nickel		5.0 J	23	0.59	mg/kg	SW846 6010C
Potassium		1120 J	5900	290	mg/kg	SW846 6010C
Vanadium		10.6 J	29	0.59	mg/kg	SW846 6010C
Zinc		14.0	12	2.9	mg/kg	SW846 6010C
F95274-4	**USTC507-CS-0006-072512**					
TPH (C10-C28)		5.54 J	10	4.1	mg/kg	SW846 8015C
TPH (> C28-C40)		13.9	10	4.1	mg/kg	SW846 8015C
Aluminum		13900	99	12	mg/kg	SW846 6010C
Arsenic		4.1 J	4.9	0.99	mg/kg	SW846 6010C
Barium		73.7 J	99	4.9	mg/kg	SW846 6010C
Beryllium		0.68 J	2.5	0.49	mg/kg	SW846 6010C
Calcium		164000	2500	49	mg/kg	SW846 6010C
Chromium		16.6	4.9	0.49	mg/kg	SW846 6010C
Cobalt		3.8 J	25	0.49	mg/kg	SW846 6010C
Copper		7.2 J	12	0.99	mg/kg	SW846 6010C
Iron		12200	150	16	mg/kg	SW846 6010C
Lead		7.0 J	9.9	0.49	mg/kg	SW846 6010C
Magnesium		5420	2500	49	mg/kg	SW846 6010C
Manganese		160	7.4	0.49	mg/kg	SW846 6010C
Nickel		11.5 J	20	0.49	mg/kg	SW846 6010C
Potassium		2390 J	4900	250	mg/kg	SW846 6010C
Vanadium		25.5	25	0.49	mg/kg	SW846 6010C
Zinc		37.1	9.9	2.5	mg/kg	SW846 6010C
F95274-5	**USTC501-CS-0005-072512**					
Aluminum		9570	110	13	mg/kg	SW846 6010C
Arsenic		3.0 J	5.3	1.1	mg/kg	SW846 6010C
Barium		116	110	5.3	mg/kg	SW846 6010C
Beryllium		0.63 J	2.7	0.53	mg/kg	SW846 6010C
Calcium		126000	2700	53	mg/kg	SW846 6010C
Chromium		12.0	5.3	0.53	mg/kg	SW846 6010C
Cobalt		5.3 J	27	0.53	mg/kg	SW846 6010C
Copper		7.8 J	13	1.1	mg/kg	SW846 6010C
Iron		11900	160	18	mg/kg	SW846 6010C
Lead		7.4 J	11	0.53	mg/kg	SW846 6010C
Magnesium		8850	2700	53	mg/kg	SW846 6010C
Manganese		270	8.0	0.53	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95274
Account: SHAW E & I
Project: Holloman AFB; NM
Collected: 07/25/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		12.3 J	21	0.53	mg/kg	SW846 6010C
Potassium		2010 J	5300	270	mg/kg	SW846 6010C
Vanadium		22.7 J	27	0.53	mg/kg	SW846 6010C
Zinc		34.0	11	2.7	mg/kg	SW846 6010C
F95274-6	**USTC501-CS-0006-072512**					
Aluminum		6140	84	10	mg/kg	SW846 6010C
Barium		40.8 J	84	4.2	mg/kg	SW846 6010C
Calcium		145000	2100	42	mg/kg	SW846 6010C
Chromium		5.7	4.2	0.42	mg/kg	SW846 6010C
Cobalt		2.0 J	21	0.42	mg/kg	SW846 6010C
Copper		3.4 J	11	0.84	mg/kg	SW846 6010C
Iron		6030	130	14	mg/kg	SW846 6010C
Lead		2.7 J	8.4	0.42	mg/kg	SW846 6010C
Magnesium		7040	2100	42	mg/kg	SW846 6010C
Manganese		163	6.3	0.42	mg/kg	SW846 6010C
Nickel		5.2 J	17	0.42	mg/kg	SW846 6010C
Potassium		1310 J	4200	210	mg/kg	SW846 6010C
Sodium		1690 J	4200	460	mg/kg	SW846 6010C
Vanadium		9.8 J	21	0.42	mg/kg	SW846 6010C
Zinc		15.0	8.4	2.1	mg/kg	SW846 6010C
F95274-7	**OTC533-WC-0001-072512**					
Corrosivity as pH		7.2			su	SW846 CHAP7
Ignitability (Flashpoint) [a]		> 200			Deg. F	SW846 1010
F95274-7A	**OTC533-WC-0001-072512**					
Barium		0.13 J	10	0.050	mg/l	SW846 6010C
Cadmium		0.064	0.050	0.010	mg/l	SW846 6010C

(a) Not ignitable

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077070.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	7.18 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17 U	42	17	ug/kg	
71-43-2	Benzene	1.3 U	4.2	1.3	ug/kg	
75-27-4	Bromodichloromethane	0.92 U	4.2	0.92	ug/kg	
75-25-2	Bromoform	1.3 U	4.2	1.3	ug/kg	
108-90-7	Chlorobenzene	0.84 U	4.2	0.84	ug/kg	
75-00-3	Chloroethane	1.7 U	4.2	1.7	ug/kg	
67-66-3	Chloroform	1.0 U	4.2	1.0	ug/kg	
75-15-0	Carbon disulfide	1.7 U	4.2	1.7	ug/kg	
56-23-5	Carbon tetrachloride	1.5 U	4.2	1.5	ug/kg	
110-82-7	Cyclohexane	1.2 U	4.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.92 U	4.2	0.92	ug/kg	
75-35-4	1,1-Dichloroethylene	1.2 U	4.2	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	1.9 U	4.2	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	0.84 U	4.2	0.84	ug/kg	
107-06-2	1,2-Dichloroethane	0.84 U	4.2	0.84	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	4.2	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.84 U	4.2	0.84	ug/kg	
75-71-8	Dichlorodifluoromethane	1.3 U	4.2	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.3 U	4.2	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.84 U	4.2	0.84	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	4.2	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	0.92 U	4.2	0.92	ug/kg	
106-46-7	p-Dichlorobenzene	0.92 U	4.2	0.92	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	4.2	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.92 U	4.2	0.92	ug/kg	
100-41-4	Ethylbenzene	0.84 U	4.2	0.84	ug/kg	
76-13-1	Freon 113	1.4 U	4.2	1.4	ug/kg	
591-78-6	2-Hexanone	4.5 U	21	4.5	ug/kg	
98-82-8	Isopropylbenzene	0.92 U	4.2	0.92	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.6 U	21	4.6	ug/kg	
79-20-9	Methyl acetate	11 U	21	11	ug/kg	
74-83-9	Methyl bromide	1.7 U	4.2	1.7	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.7 U	4.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	1.1 U	4.2	1.1	ug/kg	
75-09-2	Methylene chloride	3.9 U	8.4	3.9	ug/kg	
78-93-3	Methyl ethyl ketone	5.1 U	21	5.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.2	1.7	ug/kg	
100-42-5	Styrene	2.2 U	4.2	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.92 U	4.2	0.92	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	4.2	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.92 U	4.2	0.92	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	4.2	1.0	ug/kg	
127-18-4	Tetrachloroethylene	0.84 U	4.2	0.84	ug/kg	
108-88-3	Toluene	1.0 U	4.2	1.0	ug/kg	
79-01-6	Trichloroethylene	1.0 U	4.2	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	1.7 U	4.2	1.7	ug/kg	
75-01-4	Vinyl chloride	1.3 U	4.2	1.3	ug/kg	
1330-20-7	Xylene (total)	2.7 U	13	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	93%		59-148%
17060-07-0	1,2-Dichloroethane-D4	99%		77-123%

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058485.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	80 U	400	80	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	1000	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	64 U	200	64	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	80 U	400	80	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	80 U	400	80	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	80 U	400	80	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	88 U	200	88	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		40-102%
4165-62-2	Phenol-d5	86%		41-100%
118-79-6	2,4,6-Tribromophenol	92%		42-108%
4165-60-0	Nitrobenzene-d5	77%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069942.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.71 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.8 U	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0003-072512		
Lab Sample ID:	F95274-1	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	82.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31036.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.0 U	10	4.0	mg/kg	
	TPH (> C28-C40)	4.0 U	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		49-108%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0003-072512
Lab Sample ID: F95274-1
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 82.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8170	100	12	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	1.0 U	10	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4 J	5.1	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	71.3 J	100	5.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.51 U	2.5	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.51 U	2.0	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	177000	2500	51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	9.2	5.1	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	2.4 J	25	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	4.4 J	13	1.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	7480	150	17	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	4.4 J	10	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	3590	2500	51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	141	7.6	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0096 U	0.096	0.0096	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	6.6 J	20	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	1480 J	5100	250	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.0 U	10	2.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.51 U	5.1	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	560 U	5100	560	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.3 U	5.1	1.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	14.4 J	25	0.51	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	23.1	10	2.5	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077071.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	5.29 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	22 U	56	22	ug/kg	
71-43-2	Benzene	1.7 U	5.6	1.7	ug/kg	
75-27-4	Bromodichloromethane	1.2 U	5.6	1.2	ug/kg	
75-25-2	Bromoform	1.7 U	5.6	1.7	ug/kg	
108-90-7	Chlorobenzene	1.1 U	5.6	1.1	ug/kg	
75-00-3	Chloroethane	2.2 U	5.6	2.2	ug/kg	
67-66-3	Chloroform	1.3 U	5.6	1.3	ug/kg	
75-15-0	Carbon disulfide	2.2 U	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	2.0 U	5.6	2.0	ug/kg	
110-82-7	Cyclohexane	1.6 U	5.6	1.6	ug/kg	
75-34-3	1,1-Dichloroethane	1.2 U	5.6	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	5.6	1.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	5.6	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.1 U	5.6	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	1.1 U	5.6	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	1.3 U	5.6	1.3	ug/kg	
124-48-1	Dibromochloromethane	1.1 U	5.6	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	1.7 U	5.6	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.7 U	5.6	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.1 U	5.6	1.1	ug/kg	
541-73-1	m-Dichlorobenzene	1.3 U	5.6	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	1.2 U	5.6	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	1.2 U	5.6	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	5.6	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.2 U	5.6	1.2	ug/kg	
100-41-4	Ethylbenzene	1.1 U	5.6	1.1	ug/kg	
76-13-1	Freon 113	1.9 U	5.6	1.9	ug/kg	
591-78-6	2-Hexanone	6.1 U	28	6.1	ug/kg	
98-82-8	Isopropylbenzene	1.2 U	5.6	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	6.2 U	28	6.2	ug/kg	
79-20-9	Methyl acetate	14 U	28	14	ug/kg	
74-83-9	Methyl bromide	2.2 U	5.6	2.2	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	2.2 U	5.6	2.2	ug/kg	
108-87-2	Methylcyclohexane	1.5 U	5.6	1.5	ug/kg	
75-09-2	Methylene chloride	5.2 U	11	5.2	ug/kg	
78-93-3	Methyl ethyl ketone	6.8 U	28	6.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.2 U	5.6	2.2	ug/kg	
100-42-5	Styrene	2.9 U	5.6	2.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.2 U	5.6	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	5.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.2 U	5.6	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.3 U	5.6	1.3	ug/kg	
127-18-4	Tetrachloroethylene	1.1 U	5.6	1.1	ug/kg	
108-88-3	Toluene	1.3 U	5.6	1.3	ug/kg	
79-01-6	Trichloroethylene	1.3 U	5.6	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	2.2 U	5.6	2.2	ug/kg	
75-01-4	Vinyl chloride	1.7 U	5.6	1.7	ug/kg	
1330-20-7	Xylene (total)	3.6 U	17	3.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-121%
2037-26-5	Toluene-D8	93%		71-130%
460-00-4	4-Bromofluorobenzene	89%		59-148%
17060-07-0	1,2-Dichloroethane-D4	93%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058486.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	390 U	990	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	79 U	390	79	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	28 U	200	28	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	990	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	990	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	990	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	39 U	200	39	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	63 U	200	63	ug/kg	
91-58-7	2-Chloronaphthalene	39 U	200	39	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	23 U	200	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	39 U	390	39	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	79 U	390	79	ug/kg	
117-84-0	Di-n-octyl phthalate	39 U	200	39	ug/kg	
84-66-2	Diethyl phthalate	79 U	390	79	ug/kg	
131-11-3	Dimethyl phthalate	39 U	200	39	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	79 U	390	79	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	39 U	200	39	ug/kg	
77-47-4	Hexachlorocyclopentadiene	87 U	200	87	ug/kg	
67-72-1	Hexachloroethane	39 U	200	39	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	39 U	200	39	ug/kg	
99-09-2	3-Nitroaniline	39 U	200	39	ug/kg	
100-01-6	4-Nitroaniline	39 U	200	39	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	71%		41-100%
118-79-6	2,4,6-Tribromophenol	80%		42-108%
4165-60-0	Nitrobenzene-d5	65%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069943.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.7 U	7.4	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0004-072512		
Lab Sample ID:	F95274-2	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	84.3
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31037.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	29.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.01	10	4.0	mg/kg	J
	TPH (> C28-C40)	4.0 U	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0004-072512
Lab Sample ID: F95274-2
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 84.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8260	85	10	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	0.85 U	8.5	0.85	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.0 J	4.3	0.85	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	53.4 J	85	4.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.43 U	2.1	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.43 U	1.7	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	193000	2100	43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	8.5	4.3	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	2.6 J	21	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	3.8 J	11	0.85	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	7210	130	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	3.7 J	8.5	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	3130	2100	43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	151	6.4	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0096 U	0.096	0.0096	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	6.8 J	17	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	1520 J	4300	210	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	1.7 U	8.5	1.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.43 U	4.3	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	470 U	4300	470	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.1 U	4.3	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	14.3 J	21	0.43	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	20.4	8.5	2.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077072.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	6.54 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	46	18	ug/kg	
71-43-2	Benzene	1.4 U	4.6	1.4	ug/kg	
75-27-4	Bromodichloromethane	1.0 U	4.6	1.0	ug/kg	
75-25-2	Bromoform	1.4 U	4.6	1.4	ug/kg	
108-90-7	Chlorobenzene	0.91 U	4.6	0.91	ug/kg	
75-00-3	Chloroethane	1.8 U	4.6	1.8	ug/kg	
67-66-3	Chloroform	1.1 U	4.6	1.1	ug/kg	
75-15-0	Carbon disulfide	1.8 U	4.6	1.8	ug/kg	
56-23-5	Carbon tetrachloride	1.6 U	4.6	1.6	ug/kg	
110-82-7	Cyclohexane	1.3 U	4.6	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	1.0 U	4.6	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.3 U	4.6	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.1 U	4.6	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	0.91 U	4.6	0.91	ug/kg	
107-06-2	1,2-Dichloroethane	0.91 U	4.6	0.91	ug/kg	
78-87-5	1,2-Dichloropropane	1.1 U	4.6	1.1	ug/kg	
124-48-1	Dibromochloromethane	0.91 U	4.6	0.91	ug/kg	
75-71-8	Dichlorodifluoromethane	1.4 U	4.6	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	4.6	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.91 U	4.6	0.91	ug/kg	
541-73-1	m-Dichlorobenzene	1.1 U	4.6	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	1.0 U	4.6	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	1.0 U	4.6	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	4.6	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	4.6	1.0	ug/kg	
100-41-4	Ethylbenzene	0.91 U	4.6	0.91	ug/kg	
76-13-1	Freon 113	1.6 U	4.6	1.6	ug/kg	
591-78-6	2-Hexanone	4.9 U	23	4.9	ug/kg	
98-82-8	Isopropylbenzene	1.0 U	4.6	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.0 U	23	5.0	ug/kg	
79-20-9	Methyl acetate	11 U	23	11	ug/kg	
74-83-9	Methyl bromide	1.8 U	4.6	1.8	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.8 U	4.6	1.8	ug/kg	
108-87-2	Methylcyclohexane	1.2 U	4.6	1.2	ug/kg	
75-09-2	Methylene chloride	4.2 U	9.1	4.2	ug/kg	
78-93-3	Methyl ethyl ketone	5.6 U	23	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	4.6	1.8	ug/kg	
100-42-5	Styrene	2.4 U	4.6	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.0 U	4.6	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U	4.6	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.0 U	4.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.1 U	4.6	1.1	ug/kg	
127-18-4	Tetrachloroethylene	0.91 U	4.6	0.91	ug/kg	
108-88-3	Toluene	1.1 U	4.6	1.1	ug/kg	
79-01-6	Trichloroethylene	1.1 U	4.6	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	1.8 U	4.6	1.8	ug/kg	
75-01-4	Vinyl chloride	1.4 U	4.6	1.4	ug/kg	
1330-20-7	Xylene (total)	2.9 U	14	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-121%
2037-26-5	Toluene-D8	91%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	97%		77-123%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058487.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	990	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	79 U	400	79	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	28 U	200	28	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	990	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	990	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	990	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	63 U	200	63	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	23 U	200	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	79 U	400	79	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	79 U	400	79	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	79 U	400	79	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	87 U	200	87	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	70%		41-100%
118-79-6	2,4,6-Tribromophenol	84%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069944.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.54 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	3.2 U	6.4	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0005-072512		
Lab Sample ID:	F95274-3	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	83.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31038.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5.11	10	4.0	mg/kg	J
	TPH (> C28-C40)	4.0 U	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0005-072512
Lab Sample ID: F95274-3
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 83.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5910	120	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	1.2 U	12	1.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.2 U	5.9	1.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	45.2 J	120	5.9	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.59 U	2.9	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.59 U	2.3	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	196000	2900	59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	6.3	5.9	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	1.7 J	29	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	2.8 J	15	1.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	5170	180	19	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	2.6 J	12	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	2400 J	2900	59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	97.9	8.8	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0095 U	0.095	0.0095	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	5.0 J	23	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	1120 J	5900	290	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.3 U	12	2.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.59 U	5.9	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	640 U	5900	640	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.5 U	5.9	1.5	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	10.6 J	29	0.59	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	14.0	12	2.9	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077073.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	7.31 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17 U	42	17	ug/kg	
71-43-2	Benzene	1.3 U	4.2	1.3	ug/kg	
75-27-4	Bromodichloromethane	0.93 U	4.2	0.93	ug/kg	
75-25-2	Bromoform	1.3 U	4.2	1.3	ug/kg	
108-90-7	Chlorobenzene	0.85 U	4.2	0.85	ug/kg	
75-00-3	Chloroethane	1.7 U	4.2	1.7	ug/kg	
67-66-3	Chloroform	1.0 U	4.2	1.0	ug/kg	
75-15-0	Carbon disulfide	1.7 U	4.2	1.7	ug/kg	
56-23-5	Carbon tetrachloride	1.5 U	4.2	1.5	ug/kg	
110-82-7	Cyclohexane	1.2 U	4.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.93 U	4.2	0.93	ug/kg	
75-35-4	1,1-Dichloroethylene	1.2 U	4.2	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	1.9 U	4.2	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	0.85 U	4.2	0.85	ug/kg	
107-06-2	1,2-Dichloroethane	0.85 U	4.2	0.85	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	4.2	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.85 U	4.2	0.85	ug/kg	
75-71-8	Dichlorodifluoromethane	1.3 U	4.2	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.3 U	4.2	1.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.85 U	4.2	0.85	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	4.2	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	0.93 U	4.2	0.93	ug/kg	
106-46-7	p-Dichlorobenzene	0.93 U	4.2	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	4.2	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.93 U	4.2	0.93	ug/kg	
100-41-4	Ethylbenzene	0.85 U	4.2	0.85	ug/kg	
76-13-1	Freon 113	1.4 U	4.2	1.4	ug/kg	
591-78-6	2-Hexanone	4.6 U	21	4.6	ug/kg	
98-82-8	Isopropylbenzene	0.93 U	4.2	0.93	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.7 U	21	4.7	ug/kg	
79-20-9	Methyl acetate	11 U	21	11	ug/kg	
74-83-9	Methyl bromide	1.7 U	4.2	1.7	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.7 U	4.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	1.1 U	4.2	1.1	ug/kg	
75-09-2	Methylene chloride	3.9 U	8.5	3.9	ug/kg	
78-93-3	Methyl ethyl ketone	5.2 U	21	5.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.2	1.7	ug/kg	
100-42-5	Styrene	2.2 U	4.2	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.93 U	4.2	0.93	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	4.2	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.93 U	4.2	0.93	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	4.2	1.0	ug/kg	
127-18-4	Tetrachloroethylene	0.85 U	4.2	0.85	ug/kg	
108-88-3	Toluene	1.0 U	4.2	1.0	ug/kg	
79-01-6	Trichloroethylene	1.0 U	4.2	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	1.7 U	4.2	1.7	ug/kg	
75-01-4	Vinyl chloride	1.3 U	4.2	1.3	ug/kg	
1330-20-7	Xylene (total)	2.7 U	13	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	96%		59-148%
17060-07-0	1,2-Dichloroethane-D4	99%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058488.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	26 U	200	26	ug/kg	
51-28-5	2,4-Dinitrophenol	410 U	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	81 U	410	81	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	1000	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	41 U	200	41	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	65 U	200	65	ug/kg	
91-58-7	2-Chloronaphthalene	41 U	200	41	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	41 U	410	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	81 U	410	81	ug/kg	
117-84-0	Di-n-octyl phthalate	41 U	200	41	ug/kg	
84-66-2	Diethyl phthalate	81 U	410	81	ug/kg	
131-11-3	Dimethyl phthalate	41 U	200	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	81 U	410	81	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	41 U	200	41	ug/kg	
77-47-4	Hexachlorocyclopentadiene	89 U	200	89	ug/kg	
67-72-1	Hexachloroethane	41 U	200	41	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	41 U	200	41	ug/kg	
99-09-2	3-Nitroaniline	41 U	200	41	ug/kg	
100-01-6	4-Nitroaniline	41 U	200	41	ug/kg	
91-20-3	Naphthalene	33 U	200	33	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		40-102%
4165-62-2	Phenol-d5	73%		41-100%
118-79-6	2,4,6-Tribromophenol	79%		42-108%
4165-60-0	Nitrobenzene-d5	66%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	76%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069945.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.58 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	4.0 U	7.9	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC507-CS-0006-072512		
Lab Sample ID:	F95274-4	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	80.9
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31039.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5.54	10	4.1	mg/kg	J
	TPH (> C28-C40)	13.9	10	4.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC507-CS-0006-072512
Lab Sample ID: F95274-4
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 80.9

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13900	99	12	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	0.99 U	9.9	0.99	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	4.1 J	4.9	0.99	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	73.7 J	99	4.9	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.68 J	2.5	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.49 U	2.0	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	164000	2500	49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	16.6	4.9	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	3.8 J	25	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	7.2 J	12	0.99	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	12200	150	16	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	7.0 J	9.9	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	5420	2500	49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	160	7.4	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.010 U	0.10	0.010	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.5 J	20	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	2390 J	4900	250	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.0 U	9.9	2.0	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.49 U	4.9	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	540 U	4900	540	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.3 U	4.9	1.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	25.5	25	0.49	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	37.1	9.9	2.5	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077074.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	5.18 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	21 U	53	21	ug/kg	
71-43-2	Benzene	1.6 U	5.3	1.6	ug/kg	
75-27-4	Bromodichloromethane	1.2 U	5.3	1.2	ug/kg	
75-25-2	Bromoform	1.6 U	5.3	1.6	ug/kg	
108-90-7	Chlorobenzene	1.1 U	5.3	1.1	ug/kg	
75-00-3	Chloroethane	2.1 U	5.3	2.1	ug/kg	
67-66-3	Chloroform	1.3 U	5.3	1.3	ug/kg	
75-15-0	Carbon disulfide	2.1 U	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	1.9 U	5.3	1.9	ug/kg	
110-82-7	Cyclohexane	1.5 U	5.3	1.5	ug/kg	
75-34-3	1,1-Dichloroethane	1.2 U	5.3	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	5.3	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.4 U	5.3	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.1 U	5.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	1.1 U	5.3	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	1.3 U	5.3	1.3	ug/kg	
124-48-1	Dibromochloromethane	1.1 U	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	1.6 U	5.3	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	5.3	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.1 U	5.3	1.1	ug/kg	
541-73-1	m-Dichlorobenzene	1.3 U	5.3	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	1.2 U	5.3	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	1.2 U	5.3	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	5.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.2 U	5.3	1.2	ug/kg	
100-41-4	Ethylbenzene	1.1 U	5.3	1.1	ug/kg	
76-13-1	Freon 113	1.8 U	5.3	1.8	ug/kg	
591-78-6	2-Hexanone	5.7 U	26	5.7	ug/kg	
98-82-8	Isopropylbenzene	1.2 U	5.3	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.8 U	26	5.8	ug/kg	
79-20-9	Methyl acetate	13 U	26	13	ug/kg	
74-83-9	Methyl bromide	2.1 U	5.3	2.1	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	2.1 U	5.3	2.1	ug/kg	
108-87-2	Methylcyclohexane	1.4 U	5.3	1.4	ug/kg	
75-09-2	Methylene chloride	4.8 U	11	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	6.4 U	26	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.1 U	5.3	2.1	ug/kg	
100-42-5	Styrene	2.7 U	5.3	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.2 U	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	5.3	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.2 U	5.3	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.3 U	5.3	1.3	ug/kg	
127-18-4	Tetrachloroethylene	1.1 U	5.3	1.1	ug/kg	
108-88-3	Toluene	1.3 U	5.3	1.3	ug/kg	
79-01-6	Trichloroethylene	1.3 U	5.3	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	2.1 U	5.3	2.1	ug/kg	
75-01-4	Vinyl chloride	1.6 U	5.3	1.6	ug/kg	
1330-20-7	Xylene (total)	3.4 U	16	3.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	96%		71-130%
460-00-4	4-Bromofluorobenzene	87%		59-148%
17060-07-0	1,2-Dichloroethane-D4	101%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058489.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	18 U	180	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	18 U	180	18	ug/kg	
120-83-2	2,4-Dichlorophenol	18 U	180	18	ug/kg	
105-67-9	2,4-Dimethylphenol	23 U	180	23	ug/kg	
51-28-5	2,4-Dinitrophenol	360 U	910	360	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	72 U	360	72	ug/kg	
95-48-7	2-Methylphenol	18 U	180	18	ug/kg	
	3&4-Methylphenol	26 U	180	26	ug/kg	
88-75-5	2-Nitrophenol	18 U	180	18	ug/kg	
100-02-7	4-Nitrophenol	140 U	910	140	ug/kg	
87-86-5	Pentachlorophenol	220 U	910	220	ug/kg	
108-95-2	Phenol	18 U	180	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	18 U	180	18	ug/kg	
88-06-2	2,4,6-Trichlorophenol	18 U	180	18	ug/kg	
83-32-9	Acenaphthene	18 U	180	18	ug/kg	
208-96-8	Acenaphthylene	18 U	180	18	ug/kg	
98-86-2	Acetophenone	18 U	180	18	ug/kg	
120-12-7	Anthracene	18 U	180	18	ug/kg	
1912-24-9	Atrazine	18 U	180	18	ug/kg	
100-52-7	Benzaldehyde	180 U	910	180	ug/kg	
56-55-3	Benzo(a)anthracene	18 U	180	18	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	180	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	180	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	180	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	180	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	18 U	180	18	ug/kg	
85-68-7	Butyl benzyl phthalate	36 U	180	36	ug/kg	
92-52-4	1,1'-Biphenyl	18 U	180	18	ug/kg	
105-60-2	Caprolactam	58 U	180	58	ug/kg	
91-58-7	2-Chloronaphthalene	36 U	180	36	ug/kg	
106-47-8	4-Chloroaniline	18 U	180	18	ug/kg	
86-74-8	Carbazole	18 U	180	18	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	18 U	180	18	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	18 U	180	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	18 U	180	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	18 U	180	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	18 U	180	18	ug/kg	
121-14-2	2,4-Dinitrotoluene	18 U	180	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	21 U	180	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	36 U	360	36	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	180	18	ug/kg	
132-64-9	Dibenzofuran	18 U	180	18	ug/kg	
84-74-2	Di-n-butyl phthalate	72 U	360	72	ug/kg	
117-84-0	Di-n-octyl phthalate	36 U	180	36	ug/kg	
84-66-2	Diethyl phthalate	72 U	360	72	ug/kg	
131-11-3	Dimethyl phthalate	36 U	180	36	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	72 U	360	72	ug/kg	
206-44-0	Fluoranthene	18 U	180	18	ug/kg	
86-73-7	Fluorene	18 U	180	18	ug/kg	
118-74-1	Hexachlorobenzene	18 U	180	18	ug/kg	
87-68-3	Hexachlorobutadiene	36 U	180	36	ug/kg	
77-47-4	Hexachlorocyclopentadiene	80 U	180	80	ug/kg	
67-72-1	Hexachloroethane	36 U	180	36	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	180	18	ug/kg	
78-59-1	Isophorone	18 U	180	18	ug/kg	
91-57-6	2-Methylnaphthalene	18 U	180	18	ug/kg	
88-74-4	2-Nitroaniline	36 U	180	36	ug/kg	
99-09-2	3-Nitroaniline	36 U	180	36	ug/kg	
100-01-6	4-Nitroaniline	36 U	180	36	ug/kg	
91-20-3	Naphthalene	29 U	180	29	ug/kg	
98-95-3	Nitrobenzene	18 U	180	18	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	18 U	180	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	18 U	180	18	ug/kg	
85-01-8	Phenanthrene	18 U	180	18	ug/kg	
129-00-0	Pyrene	18 U	180	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	76%		41-100%
118-79-6	2,4,6-Tribromophenol	82%		42-108%
4165-60-0	Nitrobenzene-d5	68%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069946.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.62 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.3 U	4.6	2.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0005-072512		
Lab Sample ID:	F95274-5	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	91.7
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31040.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3.7 U	9.2	3.7	mg/kg	
	TPH (> C28-C40)	3.7 U	9.2	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC501-CS-0005-072512
Lab Sample ID: F95274-5
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 91.7

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9570	110	13	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	1.1 U	11	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.0 J	5.3	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	116	110	5.3	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.63 J	2.7	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.53 U	2.1	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	126000	2700	53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	12.0	5.3	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	5.3 J	27	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	7.8 J	13	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	11900	160	18	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	7.4 J	11	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	8850	2700	53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	270	8.0	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0087 U	0.087	0.0087	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.3 J	21	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	2010 J	5300	270	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.1 U	11	2.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.53 U	5.3	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	590 U	5300	590	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.4 U	5.3	1.4	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	22.7 J	27	0.53	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	34.0	11	2.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077075.D	1	07/27/12	EP	n/a	n/a	VH2862
Run #2							

	Initial Weight
Run #1	6.30 g
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19 U	48	19	ug/kg	
71-43-2	Benzene	1.4 U	4.8	1.4	ug/kg	
75-27-4	Bromodichloromethane	1.0 U	4.8	1.0	ug/kg	
75-25-2	Bromoform	1.4 U	4.8	1.4	ug/kg	
108-90-7	Chlorobenzene	0.95 U	4.8	0.95	ug/kg	
75-00-3	Chloroethane	1.9 U	4.8	1.9	ug/kg	
67-66-3	Chloroform	1.1 U	4.8	1.1	ug/kg	
75-15-0	Carbon disulfide	1.9 U	4.8	1.9	ug/kg	
56-23-5	Carbon tetrachloride	1.7 U	4.8	1.7	ug/kg	
110-82-7	Cyclohexane	1.3 U	4.8	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	1.0 U	4.8	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.3 U	4.8	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.2 U	4.8	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	0.95 U	4.8	0.95	ug/kg	
107-06-2	1,2-Dichloroethane	0.95 U	4.8	0.95	ug/kg	
78-87-5	1,2-Dichloropropane	1.1 U	4.8	1.1	ug/kg	
124-48-1	Dibromochloromethane	0.95 U	4.8	0.95	ug/kg	
75-71-8	Dichlorodifluoromethane	1.4 U	4.8	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	4.8	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.95 U	4.8	0.95	ug/kg	
541-73-1	m-Dichlorobenzene	1.1 U	4.8	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	1.0 U	4.8	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	1.0 U	4.8	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	4.8	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	4.8	1.0	ug/kg	
100-41-4	Ethylbenzene	0.95 U	4.8	0.95	ug/kg	
76-13-1	Freon 113	1.6 U	4.8	1.6	ug/kg	
591-78-6	2-Hexanone	5.2 U	24	5.2	ug/kg	
98-82-8	Isopropylbenzene	1.0 U	4.8	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.2 U	24	5.2	ug/kg	
79-20-9	Methyl acetate	12 U	24	12	ug/kg	
74-83-9	Methyl bromide	1.9 U	4.8	1.9	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl chloride	1.9 U	4.8	1.9	ug/kg	
108-87-2	Methylcyclohexane	1.2 U	4.8	1.2	ug/kg	
75-09-2	Methylene chloride	4.4 U	9.5	4.4	ug/kg	
78-93-3	Methyl ethyl ketone	5.8 U	24	5.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.9 U	4.8	1.9	ug/kg	
100-42-5	Styrene	2.5 U	4.8	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.0 U	4.8	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U	4.8	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.0 U	4.8	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1.1 U	4.8	1.1	ug/kg	
127-18-4	Tetrachloroethylene	0.95 U	4.8	0.95	ug/kg	
108-88-3	Toluene	1.1 U	4.8	1.1	ug/kg	
79-01-6	Trichloroethylene	1.1 U	4.8	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	1.9 U	4.8	1.9	ug/kg	
75-01-4	Vinyl chloride	1.4 U	4.8	1.4	ug/kg	
1330-20-7	Xylene (total)	3.1 U	14	3.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	91%		71-130%
460-00-4	4-Bromofluorobenzene	92%		59-148%
17060-07-0	1,2-Dichloroethane-D4	106%		77-123%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058490.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	80 U	400	80	ug/kg	
95-48-7	2-Methylphenol	20 U	200	20	ug/kg	
	3&4-Methylphenol	29 U	200	29	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	1000	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
98-86-2	Acetophenone	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
1912-24-9	Atrazine	20 U	200	20	ug/kg	
100-52-7	Benzaldehyde	200 U	1000	200	ug/kg	
56-55-3	Benzo(a)anthracene	20 U	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
92-52-4	1,1'-Biphenyl	20 U	200	20	ug/kg	
105-60-2	Caprolactam	64 U	200	64	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
86-74-8	Carbazole	20 U	200	20	ug/kg	

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	20 U	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
132-64-9	Dibenzofuran	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	80 U	400	80	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	80 U	400	80	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	80 U	400	80	ug/kg	
206-44-0	Fluoranthene	20 U	200	20	ug/kg	
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	88 U	200	88	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
88-74-4	2-Nitroaniline	40 U	200	40	ug/kg	
99-09-2	3-Nitroaniline	40 U	200	40	ug/kg	
100-01-6	4-Nitroaniline	40 U	200	40	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	76%		41-100%
118-79-6	2,4,6-Tribromophenol	88%		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

ABN TCL 4.2 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR069947.D	1	07/26/12	CP	n/a	n/a	GQR3028
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.41 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.8 U	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTC501-CS-0006-072512		
Lab Sample ID:	F95274-6	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	83.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31041.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.0 U	9.9	4.0	mg/kg	
	TPH (> C28-C40)	4.0 U	9.9	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		49-108%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTC501-CS-0006-072512
Lab Sample ID: F95274-6
Matrix: SO - Soil
Project: Holloman AFB; NM

Date Sampled: 07/25/12
Date Received: 07/26/12
Percent Solids: 83.2

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6140	84	10	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Antimony	0.84 U	8.4	0.84	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	0.84 U	4.2	0.84	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Barium	40.8 J	84	4.2	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.42 U	2.1	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cadmium	0.42 U	1.7	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Calcium	145000	2100	42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Chromium	5.7	4.2	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Cobalt	2.0 J	21	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Copper	3.4 J	11	0.84	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Iron	6030	130	14	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Lead	2.7 J	8.4	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Magnesium	7040	2100	42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Manganese	163	6.3	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.0099 U	0.099	0.0099	mg/kg	1	07/31/12	07/31/12	JL	SW846 7471B [1]	SW846 7471B [4]
Nickel	5.2 J	17	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Potassium	1310 J	4200	210	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Selenium	1.7 U	8.4	1.7	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Silver	0.42 U	4.2	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Sodium	1690 J	4200	460	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Thallium	1.1 U	4.2	1.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Vanadium	9.8 J	21	0.42	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc	15.0	8.4	2.1	mg/kg	10	07/26/12	07/27/12	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA10000
(2) Instrument QC Batch: MA9995
(3) Prep QC Batch: MP23311
(4) Prep QC Batch: MP23332

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	OTC533-WC-0001-072512		
Lab Sample ID:	F95274-7	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
		Percent Solids:	54.2
Project:	Holloman AFB; NM		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Corrosivity as pH	7.2			su	1	07/27/12	AC	SW846 CHAP7
Cyanide Reactivity	1.8 U	3.6	1.8	mg/kg	1	07/27/12	LE	SW846 CHAP7
Ignitability (Flashpoint) [a]	> 200			Deg. F	1	08/08/12	VK	SW846 1010
Solids, Percent	54.2			%	1	07/26/12	LE	SM19 2540G
Sulfide Reactivity	92 U	92	92	mg/kg	1	07/27/12 08:25	LE	SW846 CHAP7

(a) Not ignitable

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	OTC533-WC-0001-072512		
Lab Sample ID:	F95274-7A	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8260B SW846 1311	**Percent Solids:**	54.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P9091.D	10	07/28/12	EG	07/27/12	OP42837	VP367
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP List **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	0.0020 U	D018	0.50	0.010	0.0020	mg/l	
108-90-7	Chlorobenzene	0.0020 U	D021	100	0.010	0.0020	mg/l	
67-66-3	Chloroform	0.0022 U	D022	6.0	0.010	0.0022	mg/l	
56-23-5	Carbon tetrachloride	0.0025 U	D019	0.50	0.010	0.0025	mg/l	
75-35-4	1,1-Dichloroethylene	0.0023 U	D029	0.70	0.010	0.0023	mg/l	
107-06-2	1,2-Dichloroethane	0.0020 U	D028	0.50	0.010	0.0020	mg/l	
106-46-7	p-Dichlorobenzene	0.0023 U	D027	7.5	0.010	0.0023	mg/l	
78-93-3	Methyl ethyl ketone	0.020 U	D035	200	0.050	0.020	mg/l	
127-18-4	Tetrachloroethylene	0.0025 U	D039	0.70	0.010	0.0025	mg/l	
79-01-6	Trichloroethylene	0.0026 U	D040	0.50	0.010	0.0026	mg/l	
75-01-4	Vinyl chloride	0.0022 U	D043	0.20	0.010	0.0022	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	129% [a]		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

(a) Associated CCV outside control limits.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	OTC533-WC-0001-072512		
Lab Sample ID:	F95274-7A	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
Method:	SW846 8270D SW846 1311	**Percent Solids:**	54.2
Project:	Holloman AFB; NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024556.D	1	07/28/12	FS	07/28/12	OP42844	SX1192
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP List **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	0.0054 U	D023	200	0.050	0.0054	mg/l	
	3&4-Methylphenol	0.011 U	D024	200	0.050	0.011	mg/l	
87-86-5	Pentachlorophenol	0.054 U	D037	100	0.25	0.054	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0050 U	D041	400	0.050	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0050 U	D042	2.0	0.050	0.0050	mg/l	
106-46-7	1,4-Dichlorobenzene	0.010 U	D027	7.5	0.050	0.010	mg/l	
121-14-2	2,4-Dinitrotoluene	0.0050 U	D030	0.13	0.050	0.0050	mg/l	
118-74-1	Hexachlorobenzene	0.0056 U	D032	0.13	0.050	0.0056	mg/l	
87-68-3	Hexachlorobutadiene	0.010 U	D033	0.50	0.050	0.010	mg/l	
67-72-1	Hexachloroethane	0.010 U	D034	3.0	0.050	0.010	mg/l	
98-95-3	Nitrobenzene	0.0059 U	D036	2.0	0.050	0.0059	mg/l	
110-86-1	Pyridine	0.016 U	D038	5.0	0.10	0.016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OTC533-WC-0001-072512		
Lab Sample ID:	F95274-7A	**Date Sampled:**	07/25/12
Matrix:	SO - Soil	**Date Received:**	07/26/12
		Percent Solids:	54.2
Project:	Holloman AFB; NM		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.020 U	D004	5.0	0.50	0.020	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Barium	0.13 J	D005	100	10	0.050	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Cadmium	0.064	D006	1.0	0.050	0.010	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Chromium	0.010 U	D007	5.0	0.10	0.010	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Lead	0.010 U	D008	5.0	0.50	0.010	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Mercury	0.00050 U	D009	0.20	0.010	0.00050	mg/l	1	08/01/12	08/01/12	JL	SW846 7470A [1]
Selenium	0.020 U	D010	1.0	0.50	0.020	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]
Silver	0.010 U	D011	5.0	0.10	0.010	mg/l	1	07/30/12	07/30/12	LM	SW846 6010C [2]

(1) Instrument QC Batch: MA10003
(2) Instrument QC Batch: MA9998
(3) Prep QC Batch: MP23320
(4) Prep QC Batch: MP23340

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

F95274

Shaw® Shaw E & I

FS003.1_0

Ref. Document # 144106-H019

Page 1 of 1

Shaw E & I Chain of Custody Form

Project Number: 144106.JM20000
Project Name / Location: Holloman AFB / Midwest
Purchase Order #: —

Project Contact: Mark Lyon (Name & phone)

Send Report To: Mark Lyon
Phone/Fax Number: (505) 262-8920
Address: 2440 Louisiana Blvd NE
City: ABQ, NM 87110

Shipment Date: 7/25/12
Waybill/Airbill Number: 8005 2380 1602
Lab Destination: Accutest
Lab Contact Name / ph. #: Sue Bell

Sampler's Name(s): C. Lalhane

	Sample ID Number	Sample Description	Collection Information Date	Time	G/C	Matrix	# of containers	Container type	Preservative HCL	NaOH	HNO_3	H_2SO_4	Ice		VOCs 8260B	SVOCs 8270C	GRO/DRO 8015B	Metals (VOC/SVOC/GRO/DRO)	TCLP VOCs 1311	TCLP SVOCs 1311	TCLP RCRA Metals 1311	Reactivity, Ignit., Corros.	Turn Around Time Requested
1	UST C507-CS-0003-072512	Soil	7/25/12	0827	G	SO	6								X	X	X	X					ST
2	UST C507-CS-0004-072512	Soil	7/25/12	0935	G	SO	6								X	X	X	X					ST
3	UST C507-CS-0005-072512	Soil	7/25/12	1035	G	SO	6								X	X	X	X					ST
4	UST C507-CS-0006-072512	Soil	7/25/12	1100	G	SO	6								X	X	X	X					ST
5	UST C501-CS-0005-072512	Soil	7/25/12	1326	G	SO	6								X	X	X	X					ST
6	UST C501-CS-0006-072512	Soil	7/25/12	1355	G	SO	6								X	X	X	X					ST
7	OTC533-WC-0001-072512	Soil	7/25/12	1330	G	SL	3												X	X	X	X	ST
	~~OTC533-WC-0002-072512~~	~~Soil~~	~~7/25/12~~	CC																			

Special Instructions:

QC/Data Package Level Required: I II III IV/Project Specific:

Relinquished By:	Date: 7/25/12 Time: 1600	Received By: FX	Date: Time:
Relinquished By: FX	Date: Time:	Received By: J. Coppie (ALS2)	Date: 7-26-12 Time: 09:00
Relinquished By:	Date: Time:	Received By:	Date: Time:

G/C Codes
C = Composite
G = Grab

Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
SW = Surface Water
LIQ = Other Liquid
AS = Air Sample
SO = Soil
SL = Sludge
CP = Chip Samples
WP = Wipe Samples
SOL = Other Solid
SED = Sediment

Page 1 of 2

4.0

F95274: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F95274 CLIENT: SHAW PROJECT: 144106

DATE/TIME RECEIVED: 7-26-12 04:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 2380 6062

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 6

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 4.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-26-12 REVIEWER SIGNATURE/DATE 07/26/12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F95274: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2862-MB	H0077069.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
79-20-9	Methyl acetate	ND	25	13	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	1.3	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2862-MB	H0077069.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.2	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	80-121%
2037-26-5	Toluene-D8	96%	71-130%
460-00-4	4-Bromofluorobenzene	97%	59-148%
17060-07-0	1,2-Dichloroethane-D4	94%	77-123%

Leachate Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42837-LB	P9085.D	10	07/28/12	EG	07/27/12	OP42837	VP367

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	2.0	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
67-66-3	Chloroform	ND	10	2.2	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.5	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.3	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	20	ug/l	
127-18-4	Tetrachloroethylene	ND	10	2.5	ug/l	
79-01-6	Trichloroethylene	ND	10	2.6	ug/l	
75-01-4	Vinyl chloride	ND	10	2.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	87-116%
17060-07-0	1,2-Dichloroethane-D4	125%	76-127%
2037-26-5	Toluene-D8	95%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Leachate Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42837-LB	P9126.D	10	07/30/12	EG	07/27/12	OP42837	VP370

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	2.0	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
67-66-3	Chloroform	ND	10	2.2	ug/l	
56-23-5	Carbon tetrachloride	ND	10	2.5	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	2.3	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	20	ug/l	
127-18-4	Tetrachloroethylene	ND	10	2.5	ug/l	
79-01-6	Trichloroethylene	ND	10	2.6	ug/l	
75-01-4	Vinyl chloride	ND	10	2.2	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	101%	84-120%

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2862-BS	H0077068.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	249	100	61-144
71-43-2	Benzene	50	51.1	102	78-130
75-27-4	Bromodichloromethane	50	50.6	101	73-122
75-25-2	Bromoform	50	48.9	98	70-139
108-90-7	Chlorobenzene	50	51.7	103	83-122
75-00-3	Chloroethane	50	51.5	103	61-153
67-66-3	Chloroform	50	51.1	102	79-129
75-15-0	Carbon disulfide	50	46.6	93	61-142
56-23-5	Carbon tetrachloride	50	51.0	102	79-135
110-82-7	Cyclohexane	50	51.4	103	76-135
75-34-3	1,1-Dichloroethane	50	51.5	103	77-132
75-35-4	1,1-Dichloroethylene	50	52.2	104	66-132
96-12-8	1,2-Dibromo-3-chloropropane	50	58.7	117	67-129
106-93-4	1,2-Dibromoethane	50	53.5	107	77-126
107-06-2	1,2-Dichloroethane	50	50.2	100	78-129
78-87-5	1,2-Dichloropropane	50	50.8	102	74-127
124-48-1	Dibromochloromethane	50	52.4	105	78-117
75-71-8	Dichlorodifluoromethane	50	59.1	118	35-162
156-59-2	cis-1,2-Dichloroethylene	50	50.4	101	74-123
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	79-130
541-73-1	m-Dichlorobenzene	50	51.0	102	82-126
95-50-1	o-Dichlorobenzene	50	52.0	104	83-123
106-46-7	p-Dichlorobenzene	50	52.9	106	84-124
156-60-5	trans-1,2-Dichloroethylene	50	51.0	102	77-129
10061-02-6	trans-1,3-Dichloropropene	50	55.3	111	87-131
100-41-4	Ethylbenzene	50	53.0	106	82-124
76-13-1	Freon 113	50	48.1	96	62-147
591-78-6	2-Hexanone	250	234	94	67-130
98-82-8	Isopropylbenzene	50	62.3	125	82-133
108-10-1	4-Methyl-2-pentanone	250	279	112	69-125
79-20-9	Methyl acetate	250	256	102	67-130
74-83-9	Methyl bromide	50	54.6	109	60-146
74-87-3	Methyl chloride	50	57.5	115	58-163
108-87-2	Methylcyclohexane	50	56.3	113	81-145
75-09-2	Methylene chloride	50	48.5	97	62-140
78-93-3	Methyl ethyl ketone	250	276	110	66-134

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2862-BS	H0077068.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	50.4	101	70-131
100-42-5	Styrene	50	54.1	108	79-123
71-55-6	1,1,1-Trichloroethane	50	50.6	101	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	51.5	103	70-128
79-00-5	1,1,2-Trichloroethane	50	52.3	105	76-118
120-82-1	1,2,4-Trichlorobenzene	50	51.8	104	82-137
127-18-4	Tetrachloroethylene	50	48.7	97	79-132
108-88-3	Toluene	50	53.1	106	80-123
79-01-6	Trichloroethylene	50	50.6	101	78-132
75-69-4	Trichlorofluoromethane	50	55.1	110	67-149
75-01-4	Vinyl chloride	50	56.7	113	60-145
1330-20-7	Xylene (total)	150	159	106	83-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	80-121%
2037-26-5	Toluene-D8	98%	71-130%
460-00-4	4-Bromofluorobenzene	100%	59-148%
17060-07-0	1,2-Dichloroethane-D4	91%	77-123%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP367-BS	P9083.D	10	07/28/12	EG	n/a	n/a	VP367

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	250	268	107	83-124
108-90-7	Chlorobenzene	250	277	111	87-115
67-66-3	Chloroform	250	310	124*	85-123
56-23-5	Carbon tetrachloride	250	342	137	74-139
75-35-4	1,1-Dichloroethylene	250	307	123	75-133
107-06-2	1,2-Dichloroethane	250	325	130*	76-122
106-46-7	p-Dichlorobenzene	250	275	110	87-113
78-93-3	Methyl ethyl ketone	1250	1540	123	61-127
127-18-4	Tetrachloroethylene	250	299	120	80-131
79-01-6	Trichloroethylene	250	297	119	85-124
75-01-4	Vinyl chloride	250	257	103	57-153

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	87-116%
17060-07-0	1,2-Dichloroethane-D4	122%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	96%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95274-4MS	H0077076.D	1	07/27/12	EP	n/a	n/a	VH2862
F95274-4MSD	H0077077.D	1	07/27/12	EP	n/a	n/a	VH2862
F95274-4	H0077073.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95274-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	42	U	302	353	117	249	83	35*	61-144/29
71-43-2	Benzene	4.2	U	60.4	50.9	84	52.5	87	3	78-130/25
75-27-4	Bromodichloromethane	4.2	U	60.4	60.9	101	52.1	86	16	73-122/25
75-25-2	Bromoform	4.2	U	60.4	65.8	109	47.8	79	32*	70-139/26
108-90-7	Chlorobenzene	4.2	U	60.4	53.7	89	50.0	83	7	83-122/23
75-00-3	Chloroethane	4.2	U	60.4	49.5	82	51.8	86	5	61-153/31
67-66-3	Chloroform	4.2	U	60.4	55.9	93	52.3	87	7	79-129/27
75-15-0	Carbon disulfide	4.2	U	60.4	45.2	75	48.0	80	6	61-142/27
56-23-5	Carbon tetrachloride	4.2	U	60.4	51.3	85	54.5	90	6	79-135/29
110-82-7	Cyclohexane	4.2	U	60.4	42.8	71*	44.9	74*	5	76-135/25
75-34-3	1,1-Dichloroethane	4.2	U	60.4	50.1	83	50.9	84	2	77-132/26
75-35-4	1,1-Dichloroethylene	4.2	U	60.4	48.0	80	52.4	87	9	66-132/27
96-12-8	1,2-Dibromo-3-chloropropane	4.2	U	60.4	67.8	112	50.9	84	28	67-129/29
106-93-4	1,2-Dibromoethane	4.2	U	60.4	66.1	110	47.9	79	32*	77-126/24
107-06-2	1,2-Dichloroethane	4.2	U	60.4	62.4	103	54.2	90	14	78-129/24
78-87-5	1,2-Dichloropropane	4.2	U	60.4	52.9	88	50.5	84	5	74-127/27
124-48-1	Dibromochloromethane	4.2	U	60.4	64.7	107	50.9	84	24	78-117/27
75-71-8	Dichlorodifluoromethane	4.2	U	60.4	55.8	92	56.9	94	2	35-162/30
156-59-2	cis-1,2-Dichloroethylene	4.2	U	60.4	54.1	90	48.7	81	11	74-123/26
10061-01-5	cis-1,3-Dichloropropene	4.2	U	60.4	59.8	99	53.1	88	12	79-130/23
541-73-1	m-Dichlorobenzene	4.2	U	60.4	51.1	85	48.8	81*	5	82-126/29
95-50-1	o-Dichlorobenzene	4.2	U	60.4	52.1	86	47.7	79*	9	83-123/28
106-46-7	p-Dichlorobenzene	4.2	U	60.4	53.4	88	47.7	79*	11	84-124/28
156-60-5	trans-1,2-Dichloroethylene	4.2	U	60.4	49.0	81	48.6	81	1	77-129/27
10061-02-6	trans-1,3-Dichloropropene	4.2	U	60.4	61.8	102	48.0	80*	25	87-131/27
100-41-4	Ethylbenzene	4.2	U	60.4	49.9	83	50.0	83	0	82-124/25
76-13-1	Freon 113	4.2	U	60.4	45.2	75	47.7	79	5	62-147/29
591-78-6	2-Hexanone	21	U	302	305	101	204	68	40*	67-130/29
98-82-8	Isopropylbenzene	4.2	U	60.4	55.7	92	56.5	94	1	82-133/27
108-10-1	4-Methyl-2-pentanone	21	U	302	362	120	253	84	35*	69-125/24
79-20-9	Methyl acetate	21	U	302	359	119	239	79	40*	67-130/26
74-83-9	Methyl bromide	4.2	U	60.4	59.1	98	61.4	102	4	60-146/31
74-87-3	Methyl chloride	4.2	U	60.4	53.4	88	55.9	93	5	58-163/26
108-87-2	Methylcyclohexane	4.2	U	60.4	45.2	75*	47.2	78*	4	81-145/27
75-09-2	Methylene chloride	8.5	U	60.4	63.8	106	57.7	96	10	62-140/25
78-93-3	Methyl ethyl ketone	21	U	302	396	131	258	85	42*	66-134/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95274-4MS	H0077076.D	1	07/27/12	EP	n/a	n/a	VH2862
F95274-4MSD	H0077077.D	1	07/27/12	EP	n/a	n/a	VH2862
F95274-4	H0077073.D	1	07/27/12	EP	n/a	n/a	VH2862

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95274-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	4.2	U	60.4	62.1	103	50.0	83	22	70-131/25
100-42-5	Styrene	4.2	U	60.4	56.3	93	50.2	83	11	79-123/28
71-55-6	1,1,1-Trichloroethane	4.2	U	60.4	50.0	83	54.3	90	8	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	4.2	U	60.4	67.2	111	53.0	88	24	70-128/30
79-00-5	1,1,2-Trichloroethane	4.2	U	60.4	62.7	104	48.9	81	25	76-118/28
120-82-1	1,2,4-Trichlorobenzene	4.2	U	60.4	46.1	76*	39.4	65*	16	82-137/32
127-18-4	Tetrachloroethylene	4.2	U	60.4	48.4	80	49.0	81	1	79-132/27
108-88-3	Toluene	4.2	U	60.4	50.6	84	50.4	84	0	80-123/26
79-01-6	Trichloroethylene	4.2	U	60.4	49.9	83	51.5	85	3	78-132/28
75-69-4	Trichlorofluoromethane	4.2	U	60.4	54.0	89	57.3	95	6	67-149/29
75-01-4	Vinyl chloride	4.2	U	60.4	51.2	85	57.2	95	11	60-145/29
1330-20-7	Xylene (total)	13	U	181	152	84	149	82*	2	83-127/24

CAS No.	Surrogate Recoveries	MS	MSD	F95274-4	Limits
1868-53-7	Dibromofluoromethane	101%	95%	96%	80-121%
2037-26-5	Toluene-D8	91%	94%	95%	71-130%
460-00-4	4-Bromofluorobenzene	94%	92%	96%	59-148%
17060-07-0	1,2-Dichloroethane-D4	108%	94%	99%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95274-7AMS	P9092.D	10	07/28/12	EG	n/a	n/a	VP367
F95274-7AMSD	P9093.D	10	07/28/12	EG	n/a	n/a	VP367
F95274-7A	P9091.D	10	07/28/12	EG	07/27/12	OP42837	VP367

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-7A

CAS No.	Compound	F95274-7A ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	10	U	250	233	93	227	91	3	83-124/11
108-90-7	Chlorobenzene	10	U	250	243	97	240	96	1	87-115/9
67-66-3	Chloroform	10	U	250	277	111	265	106	4	85-123/10
56-23-5	Carbon tetrachloride	10	U	250	306	122	284	114	7	74-139/13
75-35-4	1,1-Dichloroethylene	10	U	250	271	108	272	109	0	75-133/13
107-06-2	1,2-Dichloroethane	10	U	250	294	118	292	117	1	76-122/11
106-46-7	p-Dichlorobenzene	10	U	250	240	96	229	92	5	87-113/10
78-93-3	Methyl ethyl ketone	50	U	1250	1380	110	1450	116	5	61-127/13
127-18-4	Tetrachloroethylene	10	U	250	261	104	258	103	1	80-131/12
79-01-6	Trichloroethylene	10	U	250	265	106	255	102	4	85-124/10
75-01-4	Vinyl chloride	10	U	250	246	98	234	94	5	57-153/22

CAS No.	Surrogate Recoveries	MS	MSD	F95274-7A	Limits
1868-53-7	Dibromofluoromethane	109%	109%	109%	87-116%
17060-07-0	1,2-Dichloroethane-D4	125%	128%*	129%* [a]	76-127%
2037-26-5	Toluene-D8	98%	99%	98%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	97%	84-120%

(a) Associated CCV outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95305-1DUP	P9087.D	10	07/28/12	EG	n/a	n/a	VP367
F95305-1	P9086.D	10	07/28/12	EG	07/27/12	OP42837	VP367

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95274-7A

CAS No.	Compound	F95305-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
71-43-2	Benzene	2.1	J	ND		200*	11
108-90-7	Chlorobenzene	ND		ND		nc	9
67-66-3	Chloroform	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	13
75-35-4	1,1-Dichloroethylene	ND		ND		nc	13
107-06-2	1,2-Dichloroethane	ND		ND		nc	11
106-46-7	p-Dichlorobenzene	ND		ND		nc	10
78-93-3	Methyl ethyl ketone	ND		ND		nc	13
127-18-4	Tetrachloroethylene	ND		ND		nc	12
79-01-6	Trichloroethylene	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	22

CAS No.	Surrogate Recoveries	DUP	F95305-1	Limits
1868-53-7	Dibromofluoromethane	113%	113%	87-116%
17060-07-0	1,2-Dichloroethane-D4	127% b	126% b	76-127%
2037-26-5	Toluene-D8	98%	97%	86-112%
460-00-4	4-Bromofluorobenzene	96%	97%	84-120%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VH2862-BFB
Lab File ID: H0077059.D
Instrument ID: GCMSH
Injection Date: 07/27/12
Injection Time: 11:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	109528	20.0		Pass
75	30.0 - 60.0% of mass 95	256682	46.9		Pass
95	Base peak, 100% relative abundance	547392	100.0		Pass
96	5.0 - 9.0% of mass 95	37858	6.92		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	473792	86.6		Pass
175	5.0 - 9.0% of mass 174	35149	6.42	(7.42) [a]	Pass
176	95.0 - 101.0% of mass 174	469013	85.7	(99.0) [a]	Pass
177	5.0 - 9.0% of mass 176	30661	5.60	(6.54) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VH2862-IC2862	H0077060.D	07/27/12	11:58	00:27	Initial cal 1
VH2862-IC2862	H0077061.D	07/27/12	12:24	00:53	Initial cal 2
VH2862-IC2862	H0077062.D	07/27/12	12:50	01:19	Initial cal 3
VH2862-IC2862	H0077063.D	07/27/12	13:17	01:46	Initial cal 4
VH2862-ICC2862	H0077064.D	07/27/12	13:43	02:12	Initial cal 5
VH2862-IC2862	H0077065.D	07/27/12	14:09	02:38	Initial cal 6
VH2862-IC2862	H0077066.D	07/27/12	14:35	03:04	Initial cal 7
VH2862-ICV2862	H0077067.D	07/27/12	15:09	03:38	Initial cal verification 4
VH2862-BS	H0077068.D	07/27/12	15:36	04:05	Blank Spike
VH2862-MB	H0077069.D	07/27/12	16:02	04:31	Method Blank
F95274-1	H0077070.D	07/27/12	16:28	04:57	USTC507-CS-0003-072512
F95274-2	H0077071.D	07/27/12	16:55	05:24	USTC507-CS-0004-072512
F95274-3	H0077072.D	07/27/12	17:21	05:50	USTC507-CS-0005-072512
F95274-4	H0077073.D	07/27/12	17:47	06:16	USTC507-CS-0006-072512
F95274-5	H0077074.D	07/27/12	18:13	06:42	USTC501-CS-0005-072512
F95274-6	H0077075.D	07/27/12	18:40	07:09	USTC501-CS-0006-072512
F95274-4MS	H0077076.D	07/27/12	19:06	07:35	Matrix Spike
F95274-4MSD	H0077077.D	07/27/12	19:32	08:01	Matrix Spike Duplicate
ZZZZZZ	H0077078.D	07/27/12	19:59	08:28	(unrelated sample)
ZZZZZZ	H0077079.D	07/27/12	20:25	08:54	(unrelated sample)
ZZZZZZ	H0077080.D	07/27/12	20:52	09:21	(unrelated sample)
ZZZZZZ	H0077081.D	07/27/12	21:18	09:47	(unrelated sample)
ZZZZZZ	H0077082.D	07/27/12	21:44	10:13	(unrelated sample)
ZZZZZZ	H0077083.D	07/27/12	22:10	10:39	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample:	VH2862-BFB	**Injection Date:**	07/27/12
Lab File ID:	H0077059.D	**Injection Time:**	11:31
Instrument ID:	GCMSH		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H0077084.D	07/27/12	22:36	11:05	(unrelated sample)
ZZZZZZ	H0077085.D	07/27/12	23:03	11:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-BFB
Lab File ID: P8749.D
Instrument ID: GCMSP
Injection Date: 07/16/12
Injection Time: 10:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	39002	20.1		Pass
75	30.0 - 60.0% of mass 95	97733	50.3		Pass
95	Base peak, 100% relative abundance	194261	100.0		Pass
96	5.0 - 9.0% of mass 95	12219	6.29		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	156010	80.3		Pass
175	5.0 - 9.0% of mass 174	11644	5.99	(7.46) [a]	Pass
176	95.0 - 101.0% of mass 174	154901	79.7	(99.3) [a]	Pass
177	5.0 - 9.0% of mass 176	10067	5.18	(6.50) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VP354-IC354	P8750.D	07/16/12	10:36	00:23	Initial cal 1
VP354-IC354	P8751.D	07/16/12	10:59	00:46	Initial cal 2
VP354-IC354	P8752.D	07/16/12	11:22	01:09	Initial cal 3
VP354-ICC354	P8753.D	07/16/12	11:44	01:31	Initial cal 4
VP354-IC354	P8754.D	07/16/12	12:07	01:54	Initial cal 5
VP354-IC354	P8755.D	07/16/12	12:30	02:17	Initial cal 6
VP354-ICV354	P8757.D	07/16/12	13:16	03:03	Initial cal verification 4
VP354-BS	P8759.D	07/16/12	14:02	03:49	Blank Spike
VP354-MB	P8761.D	07/16/12	15:00	04:47	Method Blank
ZZZZZZ	P8762.D	07/16/12	15:23	05:10	(unrelated sample)
ZZZZZZ	P8763.D	07/16/12	15:46	05:33	(unrelated sample)
ZZZZZZ	P8764.D	07/16/12	16:09	05:56	(unrelated sample)
F94635-1	P8766.D	07/16/12	16:55	06:42	(used for QC only; not part of job F95274)
ZZZZZZ	P8767.D	07/16/12	17:18	07:05	(unrelated sample)
ZZZZZZ	P8768.D	07/16/12	17:41	07:28	(unrelated sample)
ZZZZZZ	P8769.D	07/16/12	18:04	07:51	(unrelated sample)
ZZZZZZ	P8770.D	07/16/12	18:27	08:14	(unrelated sample)
ZZZZZZ	P8771.D	07/16/12	18:50	08:37	(unrelated sample)
ZZZZZZ	P8772.D	07/16/12	19:12	08:59	(unrelated sample)
ZZZZZZ	P8773.D	07/16/12	19:35	09:22	(unrelated sample)
ZZZZZZ	P8774.D	07/16/12	19:58	09:45	(unrelated sample)
F94635-1MS	P8775.D	07/16/12	20:21	10:08	Matrix Spike
F94635-1MSD	P8776.D	07/16/12	20:44	10:31	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP366-BFB
Lab File ID: P9066.D
Instrument ID: GCMSP
Injection Date: 07/28/12
Injection Time: 09:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	36586	22.6		Pass
75	30.0 - 60.0% of mass 95	89738	55.4		Pass
95	Base peak, 100% relative abundance	161877	100.0		Pass
96	5.0 - 9.0% of mass 95	11570	7.15		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	130970	80.9		Pass
175	5.0 - 9.0% of mass 174	10714	6.62	(8.18) [a]	Pass
176	95.0 - 101.0% of mass 174	129477	80.0	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	8415	5.20	(6.50) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VP366-CC354	P9067.D	07/28/12	10:20	00:22	Continuing cal 4
VP366-BS	P9068.D	07/28/12	10:55	00:57	Blank Spike
VP368-BS	P9068.D	07/28/12	10:55	00:57	Blank Spike
VP366-MB	P9069.D	07/28/12	11:35	01:37	Method Blank
VP368-MB	P9069.D	07/28/12	11:35	01:37	Method Blank
ZZZZZZ	P9072.D	07/28/12	12:48	02:50	(unrelated sample)
F95190-1	P9074.D	07/28/12	13:34	03:36	(used for QC only; not part of job F95274)
ZZZZZZ	P9078.D	07/28/12	15:09	05:11	(unrelated sample)
F95190-1MS	P9079.D	07/28/12	15:32	05:34	Matrix Spike
F95190-1MSD	P9080.D	07/28/12	15:56	05:58	Matrix Spike Duplicate
VP367-BS	P9083.D	07/28/12	17:06	07:08	Blank Spike
OP42837-LB	P9085.D	07/28/12	17:53	07:55	Leachate Blank
F95305-1	P9086.D	07/28/12	18:17	08:19	(used for QC only; not part of job F95274)
F95305-1DUP	P9087.D	07/28/12	18:40	08:42	Duplicate
ZZZZZZ	P9090.D	07/28/12	19:51	09:53	(unrelated sample)
F95274-7A	P9091.D	07/28/12	20:14	10:16	OTC533-WC-0001-072512
F95274-7AMS	P9092.D	07/28/12	20:38	10:40	Matrix Spike
F95274-7AMSD	P9093.D	07/28/12	21:01	11:03	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-BFB
Lab File ID: P9107.D
Instrument ID: GCMSP
Injection Date: 07/30/12
Injection Time: 13:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20658	25.7		Pass
75	30.0 - 60.0% of mass 95	43389	53.9		Pass
95	Base peak, 100% relative abundance	80458	100.0		Pass
96	5.0 - 9.0% of mass 95	6057	7.53		Pass
173	Less than 2.0% of mass 174	762	0.95	(1.15) [a]	Pass
174	50.0 - 100.0% of mass 95	66477	82.6		Pass
175	5.0 - 9.0% of mass 174	5009	6.23	(7.53) [a]	Pass
176	95.0 - 101.0% of mass 174	64984	80.8	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4174	5.19	(6.42) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VP369-IC369	P9108.D	07/30/12	13:35	00:23	Initial cal 1
VP369-IC369	P9109.D	07/30/12	13:58	00:46	Initial cal 2
VP369-IC369	P9110.D	07/30/12	14:21	01:09	Initial cal 3
VP369-ICC369	P9111.D	07/30/12	14:45	01:33	Initial cal 4
VP369-IC369	P9112.D	07/30/12	15:08	01:56	Initial cal 5
VP369-IC369	P9113.D	07/30/12	15:32	02:20	Initial cal 6
VP369-ICV369	P9115.D	07/30/12	16:19	03:07	Initial cal verification 4
VP369-BS	P9117.D	07/30/12	17:31	04:19	Blank Spike
VP369-MB	P9119.D	07/30/12	18:18	05:06	Method Blank
ZZZZZZ	P9120.D	07/30/12	18:41	05:29	(unrelated sample)
F95212-4A	P9121.D	07/30/12	19:05	05:53	(used for QC only; not part of job F95274)
VP370-BS	P9123.D	07/30/12	19:51	06:39	Blank Spike
OP42849-LB	P9125.D	07/30/12	20:38	07:26	Leachate Blank
OP42837-LB	P9126.D	07/30/12	21:01	07:49	Leachate Blank
ZZZZZZ	P9127.D	07/30/12	21:24	08:12	(unrelated sample)
F95357-1	P9128.D	07/30/12	21:47	08:35	(used for QC only; not part of job F95274)
ZZZZZZ	P9129.D	07/30/12	22:10	08:58	(unrelated sample)
ZZZZZZ	P9130.D	07/30/12	22:33	09:21	(unrelated sample)
F95212-4AMS	P9131.D	07/30/12	22:56	09:44	Matrix Spike
F95212-4AMSD	P9132.D	07/30/12	23:19	10:07	Matrix Spike Duplicate
F95357-1MS	P9133.D	07/30/12	23:42	10:30	Matrix Spike
F95357-1MSD	P9134.D	07/31/12	00:05	10:53	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	VH2862-ICC2862	**Injection Date:**	07/27/12
Lab File ID:	H0077064.D	**Injection Time:**	13:43
Instrument ID:	GCMSH	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1161532	10.17	753942	13.35	360022	15.79	48394	7.33
Check Std [b]	1161532	10.17	753942	13.35	360022	15.79	48394	7.33
Upper Limit [c]	2323064	10.67	1507884	13.85	720044	16.29	96788	7.83
Lower Limit [d]	580766	9.67	376971	12.85	180011	15.29	24197	6.83

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VH2862-BS	1111349	10.17	708349	13.36	324009	15.79	49928	7.33
VH2862-MB	1081632	10.17	690607	13.37	297165	15.79	39955	7.35
F95274-1	878541	10.17	550034	13.36	234744	15.79	30611	7.35
F95274-2	956264	10.17	597658	13.36	264915	15.79	32423	7.35
F95274-3	1084993	10.17	687494	13.37	286153	15.79	40839	7.33
F95274-4	1077664	10.17	671098	13.36	292989	15.79	46525	7.34
F95274-5	810399	10.17	513869	13.36	229503	15.79	39076	7.35
F95274-6	908855	10.17	596473	13.36	248101	15.79	24822	7.34
F95274-4MS	1259795	10.17	852883	13.36	413777	15.79	79510	7.33
F95274-4MSD	1077306	10.17	735369	13.36	333804	15.79	49859	7.33
ZZZZZZ	1119390	10.17	728757	13.36	330926	15.79	63718	7.34
ZZZZZZ	1012639	10.17	647042	13.36	266157	15.79	35876	7.33
ZZZZZZ	1179961	10.16	810636	13.36	411839	15.78	78420	7.35
ZZZZZZ	1051409	10.16	673909	13.36	295638	15.78	50415	7.34
ZZZZZZ	1010866	10.17	635287	13.36	277803	15.79	37073	7.34
ZZZZZZ	1093450	10.16	697284	13.36	286919	15.78	55235	7.34
ZZZZZZ	810261	10.16	442132	13.35	141937*	15.78	15883*	7.34
ZZZZZZ	1178629	10.17	780417	13.36	360072	15.79	68542	7.33

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VH2862-ICC2862 H0077064.D 07/27/12 13:43
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	VP366-CC354	**Injection Date:**	07/28/12
Lab File ID:	P9067.D	**Injection Time:**	10:20
Instrument ID:	GCMSP	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	742970	7.52	608830	10.62	345325	12.98	89841	5.11
Check Std [b]	608041	7.51	527185	10.62	318638	12.97	108788	5.10
Upper Limit [c]	1216082	8.01	1054370	11.12	637276	13.47	217576	5.60
Lower Limit [d]	304021	7.01	263593	10.12	159319	12.47	54394	4.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VP366-BS	619156	7.52	532998	10.62	318340	12.97	119326	5.11
VP368-BS [e]	619156	7.52	532998	10.62	318340	12.97	119326	5.11
VP366-MB	616628	7.52	524603	10.61	294741	12.98	127500	5.11
VP368-MB	616628	7.52	524603	10.61	294741	12.98	127500	5.11
ZZZZZZ	608741	7.52	526097	10.62	287869	12.98	102140	5.10
F95190-1	618576	7.52	524139	10.62	299848	12.98	117943	5.11
ZZZZZZ	594053	7.52	491155	10.62	286260	12.97	117839	5.10
F95190-1MS	593794	7.52	513794	10.62	300499	12.98	118668	5.10
F95190-1MSD	614771	7.52	530677	10.62	315351	12.98	133520	5.10
VP367-BS	624281	7.52	538631	10.62	315484	12.98	126397	5.11
OP42837-LB	604670	7.51	513793	10.62	292581	12.98	121257	5.09
F95305-1	588644	7.51	498413	10.62	290309	12.98	122433	5.09
F95305-1DUP	591332	7.51	506551	10.62	294336	12.98	122259	5.10
ZZZZZZ	598887	7.52	518097	10.61	285736	12.98	120706	5.11
F95274-7A	589179	7.52	498702	10.61	288534	12.97	121670	5.10
F95274-7AMS	603139	7.52	517318	10.61	304168	12.97	122021	5.11
F95274-7AMSD	607032	7.52	535013	10.62	314016	12.98	133019	5.11

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VP354-ICC354 P8753.D 07/16/12 11:44
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) No sample available for MS/MSD.

Volatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	VP369-ICC369	**Injection Date:**	07/30/12
Lab File ID:	P9111.D	**Injection Time:**	14:45
Instrument ID:	GCMSP	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	413244	7.52	306322	10.61	168521	12.97	60036	5.10
Check Std [b]	413244	7.52	306322	10.61	168521	12.97	60036	5.10
Upper Limit [c]	826488	8.02	612644	11.11	337042	13.47	120072	5.60
Lower Limit [d]	206622	7.02	153161	10.11	84261	12.47	30018	4.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VP369-BS	416226	7.51	301654	10.61	164546	12.97	59349	5.09
VP369-MB	400558	7.52	295946	10.61	149316	12.97	56480	5.10
ZZZZZZ	407501	7.52	296603	10.62	149135	12.97	52620	5.09
F95212-4A	391206	7.51	287106	10.61	147800	12.97	52957	5.09
VP370-BS	402563	7.52	295017	10.61	162137	12.98	56985	5.09
OP42849-LB	401186	7.51	299032	10.62	151823	12.97	55955	5.09
OP42837-LB	391555	7.51	285766	10.62	145925	12.98	54907	5.09
ZZZZZZ	396242	7.52	292927	10.62	149070	12.97	52838	5.09
F95357-1	388844	7.52	294071	10.62	149859	12.98	51949	5.08
ZZZZZZ	383653	7.52	284706	10.62	147753	12.98	49768	5.10
ZZZZZZ	391842	7.52	297489	10.61	150954	12.97	51715	5.09
F95212-4AMS	385430	7.52	294249	10.61	158225	12.98	49472	5.10
F95212-4AMSD	394830	7.52	305728	10.62	165578	12.98	50209	5.09
F95357-1MS	408424	7.52	305492	10.61	162933	12.98	52248	5.08
F95357-1MSD	416377	7.51	315661	10.62	164991	12.98	53474	5.09

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VP369-ICC369 P9111.D 07/30/12 14:45
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8260B **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F95274-7A	P9091.D	109.0	129.0* [a]	98.0	97.0
F95274-7AMS	P9092.D	109.0	125.0	98.0	98.0
F95274-7AMSD	P9093.D	109.0	128.0*	99.0	98.0
F95305-1DUP	P9087.D	113.0	127.0 [a]	98.0	96.0
OP42837-LB	P9085.D	109.0	125.0	95.0	100.0
OP42837-LB	P9126.D	100.0	99.0	102.0	101.0
VP367-BS	P9083.D	109.0	122.0	99.0	96.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	87-116%
S2 = 1,2-Dichloroethane-D4	76-127%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	84-120%

(a) Associated CCV outside control limits.

Volatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F95274-1	H0077070.D	92.0	95.0	93.0	99.0
F95274-2	H0077071.D	94.0	93.0	89.0	93.0
F95274-3	H0077072.D	93.0	91.0	98.0	97.0
F95274-4	H0077073.D	96.0	95.0	96.0	99.0
F95274-5	H0077074.D	99.0	96.0	87.0	101.0
F95274-6	H0077075.D	99.0	91.0	92.0	106.0
F95274-4MS	H0077076.D	101.0	91.0	94.0	108.0
F95274-4MSD	H0077077.D	95.0	94.0	92.0	94.0
VH2862-BS	H0077068.D	92.0	98.0	100.0	91.0
VH2862-MB	H0077069.D	87.0	96.0	97.0	94.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-121%
S2 = Toluene-D8	71-130%
S3 = 4-Bromofluorobenzene	59-148%
S4 = 1,2-Dichloroethane-D4	77-123%

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VH2862-ICC2862
Lab FileID: H0077064.D

Response Factor Report MSVOA3

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration

Calibration Files
1 =H0077060.D 2 =H0077061.D 3 =H0077062.D 4 =H0077063.D
5 =H0077064.D 6 =H0077065.D 7 =H0077066.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.209	0.267	0.261	0.264	0.241	0.251	0.249	0.249	8.01
3)P Chloromethane	0.407	0.370	0.371	0.384	0.346	0.368	0.374	0.374	4.84
4)C Vinyl Chloride	0.333	0.331	0.348	0.351	0.302	0.327	0.316	0.330	5.19
5) Bromomethane	0.176	0.187	0.186	0.193	0.171	0.180	0.179	0.182	4.07
6) Chloroethane	0.223	0.201	0.202	0.200	0.176	0.192	0.183	0.197	7.80
7) Trichlorofluorome	0.372	0.379	0.391	0.391	0.346	0.367	0.358	0.372	4.47
8) Ethyl Ether	0.195	0.208	0.199	0.216	0.198	0.206	0.221	0.206	4.82
9) 1,2-Dichlorotrifl	0.452	0.463	0.476	0.454	0.412	0.436	0.435	0.447	4.71
10)C 1,1-Dichloroethen	0.487	0.492	0.507	0.521	0.470	0.506	0.504	0.498	3.38
11) Freon 113	0.313	0.319	0.309	0.322	0.280	0.298	0.293	0.305	4.98
12) Carbon Disulfide	0.890	0.928	0.982	1.069	0.950	1.032	1.040	0.984	6.64
13) Iodomethane	0.531	0.529	0.520	0.559	0.504	0.530	0.531	0.529	3.09
14) Allyl chloride	0.548	0.531	0.556	0.603	0.564	0.610	0.618	0.576	5.95
15) Methylene Chlorid	0.584	0.471	0.450	0.453	0.403	0.428	0.432	0.460	12.78
16) Acetone	0.067	0.056	0.056	0.056	0.053	0.054	0.058	0.057	8.03
17) Methyl acetate	0.191	0.195	0.142	0.145	0.136	0.140	0.151	0.157	15.87
---- Linear regr., Force(0,0) ---- Coefficient = 0.9956									
Response Ratio = 0.00000 + 0.14571 *A									
18) trans-1,2-Dichlor	0.515	0.526	0.536	0.565	0.512	0.557	0.552	0.538	3.91
19) Hexane	0.247	0.260	0.264	0.278	0.259	0.279	0.264	0.264	4.16
20) Methyl Tert Butyl	0.523	0.589	0.579	0.624	0.598	0.638	0.662	0.602	7.54
21) Acetonitrile	0.012	0.017	0.017	0.017	0.017	0.019	0.020	0.017	16.14
---- Linear regr., Force(0,0) ---- Coefficient = 0.9941									
Response Ratio = 0.00000 + 0.01958 *A									
22) Di-isopropyl ethe	1.153	1.108	1.176	1.242	1.209	1.285	1.329	1.215	6.33
23) Chloroprene	0.524	0.548	0.604	0.627	0.590	0.647	0.646	0.598	7.98
24)P 1,1-Dichloroethan	0.637	0.618	0.657	0.688	0.608	0.639	0.649	0.642	4.11
25) Acrylonitrile	0.037	0.045	0.047	0.050	0.050	0.052	0.055	0.048	12.13
26) ETBE	0.867	0.911	0.893	0.955	0.925	0.982	1.025	0.937	5.81
27) Vinyl acetate	0.057	0.046	0.243	0.298	0.307	0.351	0.369	0.239	56.21
---- Linear regr., Force(0,0) ---- Coefficient = 0.9959									
Response Ratio = 0.00000 + 0.35154 *A									
28) cis-1,2-Dichloroe	0.375	0.325	0.344	0.356	0.322	0.332	0.333	0.341	5.57
29) 2,2-Dichloropropa	0.495	0.402	0.466	0.467	0.423	0.453	0.442	0.450	6.87
30) Bromochloromethan	0.124	0.151	0.131	0.141	0.129	0.130	0.125	0.133	7.37
31) Cyclohexane	0.672	0.595	0.647	0.652	0.596	0.638	0.631	0.633	4.56
32)C Chloroform	0.590	0.576	0.586	0.591	0.523	0.537	0.526	0.561	5.57
33) Ethyl acetate	0.015	0.017	0.017	0.019	0.020	0.020	0.022	0.019	11.55
34) Tetrahydrofuran	0.155	0.086	0.167	0.181	0.166	0.169	0.173	0.157	20.56
---- Linear regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 0.17091 *A									

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VH2862-ICC2862
Lab FileID: H0077064.D

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35)S Dibromofluorometh 0.214 0.229 0.244 0.208 0.227 0.242 0.240 0.229   6.09
36)  Carbon Tetrachlor 0.375 0.360 0.408 0.435 0.377 0.395 0.389 0.391   6.31
37)  1,1,1-Trichloroet 0.437 0.487 0.500 0.509 0.446 0.469 0.465 0.473   5.68
38)  2-Butanone        0.014 0.013 0.016 0.017 0.016 0.017 0.017 0.016  10.02
39)  1,1-Dichloroprope 0.471 0.484 0.493 0.491 0.437 0.466 0.461 0.472   4.15
40)  Propionitrile     0.015 0.019 0.019 0.020 0.019 0.020 0.021 0.019  10.06
41)  Methacrylonitrile 0.096 0.110 0.100 0.116 0.113 0.121 0.130 0.112  10.53
42)  Benzene           1.346 1.300 1.328 1.374 1.236 1.276 1.268 1.304   3.70
43)  TAME              0.682 0.700 0.683 0.711 0.666 0.708 0.736 0.698   3.35
44)S 1,2-Dichloroethan 0.226 0.248 0.252 0.235 0.242 0.251 0.253 0.244   4.06
45)  1,2-Dichloroethan 0.356 0.351 0.366 0.360 0.331 0.353 0.348 0.352   3.15
46)  Trichloroethene   0.361 0.343 0.355 0.361 0.320 0.345 0.339 0.346   4.20
47)  Methylcyclohexane 0.494 0.496 0.523 0.552 0.507 0.557 0.540 0.524   5.01
48)  Dibromomethane    0.105 0.122 0.124 0.124 0.118 0.126 0.126 0.121   6.26
49)C 1,2-Dichloropropa 0.309 0.317 0.305 0.325 0.299 0.325 0.321 0.315   3.25
50)  Bromodichlorometh 0.307 0.335 0.343 0.371 0.343 0.372 0.375 0.349   7.15
51)  Methyl methacryla 0.163 0.154 0.226 0.161 0.176 0.183 0.170 0.176  13.71
52)  2-Chloroethyl vin 0.058 0.067 0.075 0.086 0.086 0.093 0.099 0.081  18.08
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9964
              Response Ratio = 0.00000 + 0.09499 *A

53)  cis-1,3-Dichlorop 0.352 0.359 0.385 0.444 0.410 0.447 0.459 0.408  10.72

54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.432 1.505 1.543 1.458 1.607 1.636 1.668 1.550   5.82
56)C Toluene           2.059 2.139 2.080 2.158 2.000 2.089 2.076 2.086   2.49
57)  2-Nitropropane    0.049 0.050 0.052 0.068 0.069 0.074 0.080 0.063  19.82
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9964
              Response Ratio = 0.00000 + 0.07598 *A

58)  4-Methyl-2-pentan 0.219 0.245 0.228 0.263 0.274 0.286 0.304 0.260  11.92
59)  trans-1,3-Dichlor 0.361 0.372 0.407 0.441 0.454 0.497 0.503 0.434  13.04
60)  Tetrachloroethene 0.820 0.743 0.754 0.775 0.722 0.725 0.711 0.750   5.01
61)  Ethyl methacrylat 0.128 0.143 0.253 0.337 0.357 0.389 0.408 0.288  40.01
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9975
              Response Ratio = 0.00000 + 0.39202 *A

62)  1,1,2-Trichloroet 0.258 0.246 0.211 0.236 0.226 0.231 0.243 0.236   6.44
63)  Dibromochlorometh 0.259 0.262 0.277 0.326 0.322 0.346 0.349 0.306  12.70
64)  1,3-Dichloropropa 0.510 0.516 0.506 0.527 0.502 0.525 0.533 0.517   2.21
65)  1,2-Dibromoethane 0.211 0.237 0.228 0.244 0.238 0.257 0.258 0.239   6.90
66)  2-hexanone        0.135 0.156 0.147 0.180 0.187 0.201 0.212 0.174  16.45
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.20376 *A

67)  1-Chlorohexane    0.630 0.610 0.665 0.741 0.684 0.718 0.709 0.680   7.01
68)C Ethylbenzene      2.408 2.262 2.360 2.457 2.288 2.379 2.322 2.354   2.91
69)P Chlorobenzene     1.412 1.246 1.207 1.276 1.165 1.205 1.175 1.241   6.81
70)  1,1,1,2-Tetrachlo 0.375 0.411 0.397 0.431 0.398 0.410 0.412 0.405   4.28
71)  m,p-Xylene        1.849 1.875 1.908 1.991 1.856 1.886 1.845 1.887   2.70
72)  o-Xylene          1.675 1.795 1.798 1.950 1.782 1.879 1.850 1.818   4.75
73)  Styrene           1.012 1.138 1.115 1.274 1.214 1.268 1.247 1.181   8.19
74)P Bromoform         0.121 0.154 0.144 0.182 0.182             0.156  16.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.18027 *A

75)  Isopropylbenzene  1.609 1.751 1.845 1.994 1.831 1.926 1.884 1.834   6.82

76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.921 0.972 1.014 0.957 1.005 1.021 1.020 0.987   3.87
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Initial Calibration Summary

Job Number: F95274 **Sample:** VH2862-ICC2862
Account: SEITXH SHAW E & I **Lab FileID:** H0077064.D
Project: Holloman AFB; NM

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 78)  cis-1,4-Dichloro- 0.105 0.161 0.128 0.154 0.166             0.143  18.19
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9977
               Response Ratio = 0.00000 + 0.16257 *A

 79)  n-Propylbenzene   4.802 5.121 5.428 5.611 5.303 5.637 5.427 5.333   5.50
 80)  Bromobenzene      1.274 1.174 1.137 1.114 1.048 1.054 1.022 1.117   7.83
 81)P 1,1,2,2-Tetrachlo 0.573 0.580 0.576 0.590 0.570 0.617 0.608 0.587   3.12
 82)  1,3,5-Trimethylbe 3.691 3.830 3.937 4.097 3.806 4.060 3.868 3.898   3.69
 83)  2-Chlorotoluene   3.771 3.711 3.752 3.953 3.566 3.759 3.657 3.738   3.18
 84)  trans-1,4-Dichlor 0.159 0.196 0.184 0.202 0.186 0.191 0.215 0.190   9.21
 85)  1,2,3-Trichloropr 0.170 0.184 0.155 0.167 0.153 0.160 0.156 0.163   6.71
 86)  Cyclohexanone     0.024 0.020 0.014 0.015 0.017 0.017 0.018 0.018  17.45
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9965
               Response Ratio = 0.00000 + 0.01740 *A

 87)  4-Chlorotoluene   3.226 3.210 3.263 3.342 3.133 3.356 3.236 3.252   2.37
 88)  tert-Butylbenzene 1.990 2.309 2.459 2.533 2.279 2.431 2.352 2.336   7.55
 89)  1,2,4-Trimethylbe 3.261 3.829 3.788 3.959 3.634 3.854 3.761 3.727   6.11
 90)  Pentachloroethane 0.255 0.384 0.361 0.394 0.365 0.403 0.389 0.364  13.89
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9981
               Response Ratio = 0.00000 + 0.38994 *A

 91)  sec-Butylbenzene  4.184 4.614 4.842 4.970 4.583 4.901 4.698 4.684   5.65
 92)  4-Isopropyltoluen 2.972 3.358 3.595 3.793 3.533 3.745 3.573 3.510   7.89
 93)  1,3-Dichlorobenze 2.010 2.035 1.984 2.024 1.862 1.973 1.900 1.970   3.31
 94)  1,4-Dichlorobenze 2.000 1.977 2.022 1.984 1.808 1.883 1.827 1.929   4.56
 95)  n-Butylbenzene    1.783 1.715 1.794 1.985 1.912 2.061 1.938 1.884   6.58
 96)  Benzyl Chloride   0.079 0.103 0.107 0.139 0.142             0.114  23.26
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9990
               Response Ratio = 0.00000 + 0.13949 *A

 97)  1,2-Dichlorobenze 1.902 1.776 1.667 1.714 1.588 1.643 1.620 1.701   6.35
 98)  1,2-Dibromo-3-Chl 0.056 0.054 0.066 0.071 0.071 0.069 0.072 0.065  11.17
 99)  Hexachlorobutadie 1.091 0.999 0.945 1.010 0.835 0.850 0.778 0.930  12.11
100)  1,2,4-Trichlorobe 1.225 1.078 1.043 1.017 0.939 0.981 0.944 1.032   9.57
101)  Naphthalene       1.461 1.229 1.162 1.253 1.173 1.261 1.275 1.259   7.86
102)  1,2,3-Trichlorobe 0.979 0.844 0.821 0.868 0.764 0.779 0.761 0.831   9.24

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.531 0.319 0.256 0.197 0.166 0.183 0.183 0.262  49.67
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9955
               Response Ratio = 0.00000 + 0.18173 *A

105)  Acrolein          0.939 1.194 1.362 1.313 1.424 1.382 1.262 1.268  12.96
106)  Tert Butyl Alcoho 2.479 2.416 2.562 2.124 2.429 2.190 2.226 2.347   7.05
107)  Isobutyl alcohol  0.329 0.400 0.358 0.377 0.442 0.420 0.428 0.394  10.41
108)  Tert Amyl Alcohol 0.799 1.106 1.223 1.117 1.293 1.273 1.312 1.160  15.44
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 1.29046 *A

109)  1,4-Dioxane       0.238 0.167 0.187 0.147 0.164 0.152 0.139 0.170  19.77
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9924
               Response Ratio = 0.00000 + 0.14653 *A

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 (#) = Out of Range

          072712APP9-H.M        Mon Jul 30 06:57:56 2012
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6.9.1

6

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VH2862-ICV2862
Lab FileID: H0077067.D

Evaluate Continuing Calibration Report

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	10.17
2		Dichlorodifluoromethane	0.249	0.273	-9.6	105	0.00	4.20
3	P	Chloromethane	0.374	0.405	-8.3	107	0.00	4.58
4	C	Vinyl Chloride	0.330	0.346	-4.8	100	0.00	4.80
5		Bromomethane	0.182	0.190	-4.4	100	0.00	5.44
6		Chloroethane	0.197	0.192	2.5	97	-0.03	5.58
7		Trichlorofluoromethane	0.372	0.387	-4.0	100	-0.02	5.93
8		Ethyl Ether	0.206	0.202	1.9	94	0.00	6.33
9		1,2-Dichlorotrifluoroetha	0.447	0.380	15.0	85	0.00	6.38
10	C	1,1-Dichloroethene	0.498	0.488	2.0	95	0.00	6.74
11		Freon 113	0.305	0.265	13.1	83	0.00	6.66
12		Carbon Disulfide	0.984	0.874	11.2	83	0.00	7.11
13		Iodomethane	0.529	0.474	10.4	86	0.00	7.02
14		Allyl chloride	0.576	0.597	-3.6	100	0.00	7.24
15		Methylene Chloride	0.460	0.422	8.3	95	0.01	7.44
16		Acetone	0.057	0.055	3.5	100	0.00	6.84
		----------	Amount	Calc.	%Drift		----------	
17		Methyl acetate	250.000	244.428	2.2	99	0.00	7.21
		----------	AvgRF	CCRF	%Dev		----------	
18		trans-1,2-Dichloroethene	0.538	0.511	5.0	92	0.00	7.72
19		Hexane	0.264	0.255	3.4	93	0.00	7.92
20		Methyl Tert Butyl Ether	0.602	0.569	5.5	92	0.00	7.64
		----------	Amount	Calc.	%Drift		----------	
21		Acetonitrile	500.000	482.651	3.5	116	0.01	7.32
		----------	AvgRF	CCRF	%Dev		----------	
22		Di-isopropyl ether	1.215	1.174	3.4	96	0.00	8.15
23		Chloroprene	0.598	0.652	-9.0	105	0.01	8.34
24	P	1,1-Dichloroethane	0.642	0.645	-0.5	95	0.00	8.28
25		Acrylonitrile	0.048	0.051	-6.2	104	0.00	7.79
26		ETBE	0.937	0.879	6.2	93	0.00	8.58
		----------	Amount	Calc.	%Drift		----------	
27		Vinyl acetate	250.000	214.798	14.1	103	0.00	8.22
		----------	AvgRF	CCRF	%Dev		----------	
28		cis-1,2-Dichloroethene	0.341	0.325	4.7	93	0.00	8.95
29		2,2-Dichloropropane	0.450	0.464	-3.1	101	0.01	8.93
30		Bromochloromethane	0.133	0.122	8.3	88	0.01	9.25

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31		Cyclohexane	0.633	0.617	2.5	96	0.00	9.49
32	C	Chloroform	0.561	0.530	5.5	91	0.00	9.27
33		Ethyl acetate	0.019	0.021	-10.5	111	0.00	8.88
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	50.320	-0.6	96	0.05	9.28
			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.229	0.201	12.2	98	0.00	9.45
36		Carbon Tetrachloride	0.391	0.379	3.1	88	0.00	9.64
37		1,1,1-Trichloroethane	0.473	0.448	5.3	89	0.00	9.48
38		2-Butanone	0.016	0.016	0.0	98	0.01	8.92
39		1,1-Dichloropropene	0.472	0.482	-2.1	99	0.00	9.64
40		Propionitrile	0.019	0.021	-10.5	108	0.01	9.09
41		Methacrylonitrile	0.112	0.127	-13.4	111	0.01	9.22
42		Benzene	1.304	1.206	7.5	89	0.00	9.89
43		TAME	0.698	0.653	6.4	93	0.00	9.88
44	S	1,2-Dichloroethane-d4	0.244	0.226	7.4	97	0.00	9.88
45		1,2-Dichloroethane	0.352	0.325	7.7	91	0.00	9.96
46		Trichloroethene	0.346	0.329	4.9	92	0.00	10.55
47		Methylcyclohexane	0.524	0.524	0.0	96	0.00	10.70
48		Dibromomethane	0.121	0.110	9.1	90	0.00	10.99
49	C	1,2-Dichloropropane	0.315	0.294	6.7	91	0.00	10.84
50		Bromodichloromethane	0.349	0.339	2.9	93	0.01	11.10
51		Methyl methacrylate	0.176	0.160	9.1	100	0.00	10.79
			Amount	Calc.	%Drift			
52		2-Chloroethyl vinyl ether	250.000	208.673	16.5	94	0.00	11.32
			AvgRF	CCRF	%Dev			
53		cis-1,3-Dichloropropene	0.408	0.420	-2.9	96	0.01	11.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	13.36
55	S	Toluene-d8	1.550	1.454	6.2	99	0.00	11.80
56	C	Toluene	2.086	1.997	4.3	92	0.00	11.88
			Amount	Calc.	%Drift			
57		2-Nitropropane	250.000	243.912	2.4	108	0.00	11.37
			AvgRF	CCRF	%Dev			
58		4-Methyl-2-pentanone	0.260	0.270	-3.8	102	0.00	11.63
			Amount	Calc.	%Drift			
59		trans-1,3-Dichloropropene	50.000	55.979	-12.0	109	0.00	12.12
			AvgRF	CCRF	%Dev			
60		Tetrachloroethene	0.750	0.710	5.3	91	0.00	12.44
			Amount	Calc.	%Drift			
61		Ethyl methacrylate	50.000	40.902	18.2	95	0.01	12.05
			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.236	0.235	0.4	99	0.01	12.34
63		Dibromochloromethane	0.306	0.298	2.6	91	0.00	12.77
64		1,3-Dichloropropane	0.517	0.508	1.7	96	0.00	12.53
65		1,2-Dibromoethane	0.239	0.235	1.7	95	0.00	12.94
			Amount	Calc.	%Drift			
66		2-hexanone	250.000	226.377	9.4	102	0.01	12.49

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			AvgRF	CCRF	%Dev			
67		1-Chlorohexane	0.680	0.667	1.9	89	0.00	13.23
68	C	Ethylbenzene	2.354	2.289	2.8	93	0.00	13.41
69	P	Chlorobenzene	1.241	1.207	2.7	94	0.00	13.39
70		1,1,1,2-Tetrachloroethane	0.405	0.388	4.2	89	0.00	13.46
71		m,p-Xylene	1.887	1.878	0.5	94	0.00	13.53
72		o-Xylene	1.818	1.784	1.9	91	0.00	13.96
73		Styrene	1.181	1.202	-1.8	94	0.00	13.98
			Amount	Calc.	%Drift			
74	P	Bromoform	50.000	45.429	9.1	89	0.01	14.29
			AvgRF	CCRF	%Dev			
75		Isopropylbenzene	1.834	2.125	-15.9	106	0.00	14.31
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	15.79
77	S	4-Bromofluorobenzene	0.987	1.003	-1.6	100	0.00	14.57
			Amount	Calc.	%Drift			
78		cis-1,4-Dichloro-2-butene	50.000	53.402	-6.8	107	0.01	14.45
			AvgRF	CCRF	%Dev			
79		n-Propylbenzene	5.333	5.604	-5.1	95	0.00	14.74
80		Bromobenzene	1.117	1.054	5.6	90	0.00	14.77
81	P	1,1,2,2-Tetrachloroethane	0.587	0.584	0.5	95	0.01	14.69
82		1,3,5-Trimethylbenzene	3.898	3.787	2.8	88	0.00	14.90
83		2-Chlorotoluene	3.738	3.727	0.3	90	0.00	14.92
84		trans-1,4-Dichloro-2-Bute	0.190	0.203	-6.8	96	0.00	14.74
85		1,2,3-Trichloropropane	0.163	0.165	-1.2	94	0.01	14.78
			Amount	Calc.	%Drift			
86		Cyclohexanone	250.000	241.208	3.5	104	0.01	14.56
			AvgRF	CCRF	%Dev			
87		4-Chlorotoluene	3.252	3.328	-2.3	95	0.00	15.03
88		tert-Butylbenzene	2.336	2.404	-2.9	91	0.00	15.25
89		1,2,4-Trimethylbenzene	3.727	3.682	1.2	89	0.00	15.31
			Amount	Calc.	%Drift			
90		Pentachloroethane	50.000	69.227	-38.5#	131	0.01	15.38
			AvgRF	CCRF	%Dev			
91		sec-Butylbenzene	4.684	4.780	-2.0	92	0.00	15.48
92		4-Isopropyltoluene	3.510	3.761	-7.2	95	0.00	15.61
93		1,3-Dichlorobenzene	1.970	1.957	0.7	92	0.00	15.72
94		1,4-Dichlorobenzene	1.929	1.909	1.0	92	0.00	15.81
95		n-Butylbenzene	1.884	1.948	-3.4	94	0.01	16.04
			Amount	Calc.	%Drift			
96		Benzyl Chloride	50.000	56.067	-12.1	108	0.00	15.94
			AvgRF	CCRF	%Dev			
97		1,2-Dichlorobenzene	1.701	1.666	2.1	93	0.00	16.23
98		1,2-Dibromo-3-Chloropropa	0.065	0.078	-20.0	106	0.01	17.06
99		Hexachlorobutadiene	0.930	0.985	-5.9	93	0.00	18.03
100		1,2,4-Trichlorobenzene	1.032	1.078	-4.5	101	0.01	17.95
101		Naphthalene	1.259	1.508	-19.8	115	0.01	18.28
102		1,2,3-Trichlorobenzene	0.831	0.931	-12.0	103	0.01	18.58
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	7.34

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		Amount	Calc.	%Drift			
104	Ethanol	1000.000	1082.040	-8.2	102	0.00	6.23

		AvgRF	CCRF	%Dev			
105	Acrolein	1.268	1.517	-19.6	118	0.00	6.65
106	Tert Butyl Alcohol	2.347	2.106	10.3	101	0.00	7.45
107	Isobutyl alcohol	0.394	0.418	-6.1	113	0.01	9.64

		Amount	Calc.	%Drift			
108	Tert Amyl Alcohol	500.000	419.260	16.1	99	0.00	9.75
109	1,4-Dioxane	1000.000	911.464	8.9	93	0.00	10.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
H0077063.D 072712APP9-H.M Mon Jul 30 06:57:39 2012

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-ICC354
Lab FileID: P8753.D

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                    Response Factor Report  MSVOA13

Method       : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Calibration Files
1   =P8750.D     2   =P8751.D     3   =P8752.D     4   =P8753.D
5      =P8754.D      6      =P8755.D

      Compound              1     2     3     4     5     6     Avg    %RSD
--------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD--------------------
2)     Dichlorodifluoromet 0.214 0.259 0.321 0.323 0.319 0.314 0.292  15.49
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
             Response Ratio = 0.00000 + 0.32537 *A + -0.00535 *A^2

3) P   Chloromethane       0.424 0.389 0.449 0.457 0.446 0.440 0.434   5.74
4) C   Vinyl Chloride      0.267 0.276 0.346 0.351 0.350 0.354 0.324  12.60
5)     Bromomethane        0.191 0.176 0.198 0.204 0.194 0.188 0.192   4.97
6)     Chloroethane        0.198 0.165 0.188 0.196 0.187 0.185 0.186   6.23
7)     Trichlorofluorometh 0.321 0.342 0.435 0.413 0.438 0.433 0.397  13.11
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.41997 *A + 0.00752 *A^2

8)     Ethyl Ether         0.286 0.259 0.253 0.264 0.265 0.260 0.264   4.30
9)     1,2-Dichlorotrifluo 0.315 0.288 0.341 0.336 0.335 0.337 0.325   6.28
10) C  1,1-Dichloroethene  0.313 0.366 0.420 0.420 0.424 0.433 0.396  11.91
11)    Freon 113           0.225 0.255 0.319 0.312 0.311 0.308 0.288  13.45
12)    Carbon Disulfide    0.869 0.763 0.919 0.894 0.891 0.906 0.874   6.52
13)    Iodomethane         0.478 0.466 0.507 0.514 0.511 0.512 0.498   4.19
14)    Methylene Chloride  1.054 0.589 0.474 0.460 0.444 0.440 0.577  41.63
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
             Response Ratio = 0.00000 + 0.47250 *A + -0.01685 *A^2

15)    Acetone             0.074 0.028 0.033 0.032 0.031 0.031 0.038  46.69
           ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.03114 *A

16)    Methyl acetate      0.040 0.041 0.041 0.041 0.042 0.042 0.041   1.77
17)    trans-1,2-Dichloroe 0.362 0.387 0.432 0.433 0.430 0.430 0.412   7.34
18)    Hexane              0.248 0.274 0.314 0.310 0.310 0.309 0.294   9.23
19)    Methyl Tert Butyl E 0.768 0.851 0.891 0.898 0.901 0.907 0.869   6.14
20)    Di-isopropyl ether  1.072 1.074 1.146 1.154 1.130 1.146 1.120   3.36
21) P  1,1-Dichloroethane  0.446 0.448 0.506 0.510 0.505 0.506 0.487   6.35
22)    Acrylonitrile       0.099 0.096 0.098 0.102 0.101 0.100 0.099   2.13
23)    ETBE                0.934 1.000 1.053 1.077 1.066 1.066 1.033   5.40
24)    Vinyl acetate       0.427 0.441 0.459 0.456 0.445 0.429 0.443   3.02
25)    cis-1,2-Dichloroeth 0.271 0.256 0.298 0.297 0.292 0.290 0.284   5.87
26)    2,2-Dichloropropane 0.351 0.391 0.444 0.435 0.430 0.434 0.414   8.69
27)    Bromochloromethane  0.179 0.145 0.160 0.160 0.158 0.159 0.160   6.78
28)    Cyclohexane         0.449 0.499 0.625 0.597 0.610 0.624 0.567  13.14
29) C  Chloroform          0.409 0.448 0.501 0.512 0.506 0.500 0.479   8.69
30)    Tetrahydrofuran     0.164 0.094 0.095 0.093 0.093 0.094 0.105  27.17
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
             Response Ratio = 0.00000 + 0.09208 *A + 0.00091 *A^2

31) S  Dibromofluoromethan 0.273 0.274 0.276 0.280 0.274 0.272 0.275   1.04
```

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Project: Holloman AFB; NM

Sample: VP354-ICC354
Lab FileID: P8753.D

32)		Carbon Tetrachlorid	0.348	0.386	0.435	0.443	0.438	0.440	0.415	9.46
33)		1,1,1-Trichloroetha	0.351	0.410	0.463	0.462	0.461	0.468	0.436	10.69
34)		2-Butanone	0.196	0.135	0.143	0.141	0.143	0.142	0.150	15.25

---- Quadratic regr., Force(0,0) ---- Coefficient = 1.0000
Response Ratio = 0.00000 + 0.14144 *A + 0.00010 *A^2

35)		1,1-Dichloropropene	0.275	0.321	0.384	0.372	0.376	0.376	0.351	12.41
36)		Benzene	0.987	0.995	1.077	1.064	1.053	1.056	1.039	3.66
37)		TAME	0.799	0.821	0.858	0.878	0.876	0.881	0.852	4.02
38)	S	1,2-Dichloroethane-	0.326	0.331	0.342	0.332	0.333	0.334	0.333	1.53
39)		1,2-Dichloroethane	0.374	0.379	0.414	0.414	0.412	0.406	0.400	4.63
40)		Trichloroethene	0.251	0.247	0.289	0.285	0.280	0.282	0.272	6.73
41)		Methylcyclohexane	0.384	0.435	0.532	0.527	0.530	0.538	0.491	13.32
42)		Dibromomethane	0.161	0.163	0.178	0.170	0.172	0.172	0.169	3.67
43)	C	1,2-Dichloropropane	0.258	0.283	0.291	0.292	0.291	0.291	0.284	4.65
44)		Bromodichloromethan	0.359	0.355	0.394	0.387	0.387	0.390	0.379	4.51
45)		2-Chloroethyl vinyl	0.120	0.131	0.140	0.140	0.143	0.142	0.136	6.64
46)		cis-1,3-Dichloropro	0.418	0.439	0.460	0.464	0.467	0.463	0.452	4.28
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	S	Toluene-d8	1.219	1.233	1.200	1.227	1.187	1.176	1.207	1.90
49)	C	Toluene	1.394	1.336	1.449	1.427	1.398	1.376	1.397	2.82
50)		2-Nitropropane	0.094	0.091	0.091	0.095	0.096	0.095	0.094	1.96
51)		4-Methyl-2-pentanon	0.352	0.359	0.358	0.362	0.357	0.347	0.356	1.45
52)		trans-1,3-Dichlorop	0.470	0.480	0.495	0.503	0.504	0.501	0.492	2.81
53)		Tetrachloroethene	0.308	0.340	0.386	0.378	0.376	0.373	0.360	8.31
54)		1,1,2-Trichloroetha	0.255	0.244	0.255	0.255	0.250	0.251	0.252	1.86
55)		Dibromochloromethan	0.383	0.382	0.389	0.388	0.388	0.386	0.386	0.78
56)		1,3-Dichloropropane	0.503	0.550	0.519	0.540	0.535	0.528	0.529	3.10
57)		1,2-Dibromoethane	0.322	0.327	0.333	0.335	0.338	0.332	0.331	1.74
58)		2-hexanone	0.279	0.241	0.248	0.251	0.255	0.250	0.254	5.16
59)		1-Chlorohexane	0.523	0.438	0.531	0.524	0.526	0.532	0.512	7.17
60)	C	Ethylbenzene	1.572	1.588	1.704	1.695	1.660	1.622	1.640	3.35
61)	P	Chlorobenzene	0.867	0.938	1.014	1.007	0.983	0.977	0.964	5.68
62)		1,1,1,2-Tetrachloro	0.380	0.356	0.380	0.392	0.386	0.382	0.379	3.24
63)		m,p-Xylene	1.114	1.182	1.316	1.309	1.263	1.215	1.233	6.34
64)		o-Xylene	1.192	1.247	1.356	1.368	1.345	1.326	1.306	5.39
65)		Styrene	0.928	1.007	1.106	1.130	1.129	1.114	1.069	7.78
66)	P	Bromoform	0.202	0.245	0.266	0.272	0.276	0.274	0.256	11.30
67)		Isopropylbenzene	1.260	1.355	1.541	1.545	1.523	1.486	1.452	8.11
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)	S	4-Bromofluorobenzen	0.921	0.912	0.924	0.897	0.901	0.913	0.911	1.17
70)		n-Propylbenzene	3.094	3.214	3.658	3.515	3.471	3.403	3.392	6.08
71)		Bromobenzene	0.797	0.801	0.857	0.825	0.818	0.823	0.820	2.64
72)	P	1,1,2,2-Tetrachloro	0.816	0.729	0.740	0.731	0.714	0.727	0.743	4.95
73)		1,3,5-Trimethylbenz	2.478	2.555	2.846	2.803	2.727	2.723	2.689	5.33
74)		2-Chlorotoluene	2.155	2.266	2.505	2.449	2.420	2.375	2.361	5.47
75)		trans-1,4-Dichloro-	0.157	0.060	0.105	0.135	0.150	0.178	0.131	32.57

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993
Response Ratio = 0.00000 + 0.09463 *A + 0.04160 *A^2

76)		1,2,3-Trichloroprop	0.239	0.233	0.230	0.238	0.235	0.239	0.236	1.53
77)		Cyclohexanone	0.018	0.021	0.021	0.023	0.023	0.023	0.022	8.48
78)		4-Chlorotoluene	1.866	2.185	2.271	2.258	2.200	2.227	2.168	7.00
79)		tert-Butylbenzene	1.199	1.327	1.530	1.502	1.486	1.493	1.423	9.21
80)		1,2,4-Trimethylbenz	2.267	2.584	2.934	2.851	2.791	2.757	2.697	8.93
81)		sec-Butylbenzene	2.863	3.067	3.598	3.499	3.402	3.339	3.295	8.42
82)		4-Isopropyltoluene	2.199	2.507	2.892	2.870	2.753	2.733	2.659	9.91
83)		1,3-Dichlorobenzene	1.443	1.545	1.606	1.609	1.575	1.579	1.560	3.94

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-ICC354
Lab FileID: P8753.D

```
84)      1,4-Dichlorobenzene 1.625 1.616 1.653 1.644 1.606 1.614 1.626   1.14
85)      n-Butylbenzene      1.330 1.381 1.654 1.620 1.591 1.624 1.533   9.14
86)      Benzyl Chloride     0.310 0.350 0.374 0.377 0.376 0.374 0.360   7.45
87)      1,2-Dichlorobenzene 1.448 1.473 1.566 1.540 1.476 1.486 1.498   3.01
88)      1,2-Dibromo-3-Chlor 0.168 0.135 0.142 0.144 0.137 0.134 0.143   8.91
89)      Hexachlorobutadiene 0.457 0.445 0.545 0.549 0.487 0.476 0.493   8.94
90)      1,2,4-Trichlorobenz 1.020 1.026 1.108 1.126 1.017 0.985 1.047   5.37
91)      Naphthalene         2.339 2.224 2.434 2.489 2.168 2.068 2.287   7.09
92)      1,2,3-Trichlorobenz 0.923 0.929 0.999 1.003 0.845 0.796 0.916   9.00

93) I    Tert Butyl Alcohol-d1 ----------------ISTD---------------------
94)      acrolein            0.680 0.516 0.487 0.479 0.458 0.452 0.512  16.66
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.49011 *A + -0.01956 *A^2

95)      Tert Butyl Alcohol  1.382 1.307 1.310 1.227 1.224 1.230 1.280   5.00
96)      tert Amyl alcohol   1.003 0.990 1.023 0.984 1.013 1.013 1.004   1.50
97)      1,4-Dioxane         0.249 0.121 0.118 0.118 0.117 0.117 0.140  38.17
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.11762 *A + -0.00009 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range

          8260P.m           Tue Jul 17 09:37:07 2012
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6.9.3

6

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-ICV354
Lab FileID: P8757.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\071612\P8757.D Vial: 8
Acq On : 16 Jul 2012 1:16 pm Operator: EileenG
Sample : icv354-4 Inst : MSVOA13
Misc : MS21485,VP354,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Mon Jul 16 14:11:03 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	110	0.00	7.52
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	36.176	9.6	99	-0.02	2.61
		AvgRF	CCRF	%Dev			
3 P	Chloromethane	0.434	0.405	6.7	98	-0.01	2.87
4 C	Vinyl Chloride	0.324	0.326	-0.6	103	0.00	3.00
5	Bromomethane	0.192	0.164	14.6	89	-0.01	3.37
6	Chloroethane	0.186	0.169	9.1	95	0.00	3.50
		Amount	Calc.	%Drift			
7	Trichlorofluoromethane	40.000	39.042	2.4	111	0.00	3.70
		AvgRF	CCRF	%Dev			
8	Ethyl Ether	0.264	0.243	8.0	101	0.00	3.96
9	1,2-Dichlorotrifluoroetha	0.325	0.279	14.2	92	-0.01	4.20
10 C	1,1-Dichloroethene	0.396	0.398	-0.5	104	0.00	4.23
11	Freon 113	0.288	0.271	5.9	96	0.00	4.29
12	Carbon Disulfide	0.874	0.746	14.6	92	0.00	4.29
13	Iodomethane	0.498	0.449	9.8	96	0.00	4.41
		Amount	Calc.	%Drift			
14	Methylene Chloride	40.000	37.252	6.9	103	0.00	4.85
15	Acetone	200.000	160.912	19.5	86	0.00	4.88
		AvgRF	CCRF	%Dev			
16	Methyl acetate	0.041	0.041	0.0	109	0.00	5.00
17	trans-1,2-Dichloroethene	0.412	0.392	4.9	100	-0.01	5.02
18	Hexane	0.294	0.273	7.1	97	0.00	5.08
19	Methyl Tert Butyl Ether	0.869	0.799	8.1	98	0.00	5.13
20	Di-isopropyl ether	1.120	1.066	4.8	102	0.00	5.50
21 P	1,1-Dichloroethane	0.487	0.481	1.2	104	0.00	5.67
22	Acrylonitrile	0.099	0.108	-9.1	116	0.00	5.72
23	ETBE	1.033	0.947	8.3	97	0.00	5.89
24	Vinyl acetate	0.443	0.518	-16.9	125	0.00	5.89
25	cis-1,2-Dichloroethene	0.284	0.271	4.6	101	0.00	6.24
26	2,2-Dichloropropane	0.414	0.395	4.6	100	-0.01	6.37
27	Bromochloromethane	0.160	0.147	8.1	101	0.00	6.45
28	Cyclohexane	0.567	0.547	3.5	101	0.00	6.48
29 C	Chloroform	0.479	0.472	1.5	102	0.00	6.50

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-ICV354
Lab FileID: P8757.D

			Amount	Calc.	%Drift			
30		Tetrahydrofuran	40.000	38.119	4.7	105	0.00	6.68
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.275	0.271	1.5	107	0.00	6.70
32		Carbon Tetrachloride	0.415	0.458	-10.4	114	0.00	6.68
33		1,1,1-Trichloroethane	0.436	0.433	0.7	103	0.00	6.75
			Amount	Calc.	%Drift			
34		2-Butanone	200.000	181.309	9.3	101	0.00	6.80
			AvgRF	CCRF	%Dev			
35		1,1-Dichloropropene	0.351	0.359	-2.3	106	0.00	6.86
36		Benzene	1.039	1.035	0.4	107	0.00	7.12
37		TAME	0.852	0.790	7.3	99	0.00	7.19
38	S	1,2-Dichloroethane-d4	0.333	0.326	2.1	108	0.00	7.25
39		1,2-Dichloroethane	0.400	0.391	2.3	104	0.00	7.32
40		Trichloroethene	0.272	0.272	0.0	105	0.00	7.69
41		Methylcyclohexane	0.491	0.476	3.1	100	0.00	7.70
42		Dibromomethane	0.169	0.166	1.8	108	0.00	8.12
43	C	1,2-Dichloropropane	0.284	0.278	2.1	105	0.00	8.22
44		Bromodichloromethane	0.379	0.376	0.8	107	0.00	8.26
45		2-Chloroethyl vinyl ether	0.136	0.145	-6.6	114	0.00	8.79
46		cis-1,3-Dichloropropene	0.452	0.449	0.7	107	0.00	8.88
47	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.62
48	S	Toluene-d8	1.207	1.223	-1.3	108	0.00	9.07
49	C	Toluene	1.397	1.477	-5.7	112	0.00	9.12
50		2-Nitropropane	0.094	0.092	2.1	105	0.00	9.35
51		4-Methyl-2-pentanone	0.356	0.357	-0.3	107	0.00	9.46
52		trans-1,3-Dichloropropene	0.492	0.532	-8.1	115	0.00	9.52
53		Tetrachloroethene	0.360	0.372	-3.3	107	0.00	9.51
54		1,1,2-Trichloroethane	0.252	0.255	-1.2	108	0.00	9.68
55		Dibromochloromethane	0.386	0.387	-0.3	108	0.00	9.87
56		1,3-Dichloropropane	0.529	0.521	1.5	104	0.00	9.96
57		1,2-Dibromoethane	0.331	0.333	-0.6	108	0.00	10.13
58		2-hexanone	0.254	0.252	0.8	109	0.00	10.28
59		1-Chlorohexane	0.512	0.484	5.5	100	0.00	10.58
60	C	Ethylbenzene	1.640	1.621	1.2	104	0.00	10.64
61	P	Chlorobenzene	0.964	0.988	-2.5	106	0.00	10.64
62		1,1,1,2-Tetrachloroethane	0.379	0.381	-0.5	105	0.00	10.69
63		m,p-Xylene	1.233	1.269	-2.9	105	0.00	10.78
64		o-Xylene	1.306	1.338	-2.5	106	0.00	11.21
65		Styrene	1.069	1.101	-3.0	106	0.00	11.27
66	P	Bromoform	0.256	0.265	-3.5	106	0.00	11.32
67		Isopropylbenzene	1.452	1.735	-19.5	122	0.00	11.52
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	12.98
69	S	4-Bromofluorobenzene	0.911	0.912	-0.1	108	0.00	11.83
70		n-Propylbenzene	3.392	3.535	-4.2	106	0.00	11.94
71		Bromobenzene	0.820	0.821	-0.1	105	0.00	11.96
72	P	1,1,2,2-Tetrachloroethane	0.743	0.734	1.2	106	0.00	12.00
73		1,3,5-Trimethylbenzene	2.689	2.707	-0.7	102	0.00	12.13
74		2-Chlorotoluene	2.361	2.429	-2.9	105	0.00	12.13
			Amount	Calc.	%Drift			
75		trans-1,4-Dichloro-2-Bute	40.000	38.949	2.6	97	0.00	12.19
			AvgRF	CCRF	%Dev			
76		1,2,3-Trichloropropane	0.236	0.236	0.0	105	0.00	12.17

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP354-ICV354
Lab FileID: P8757.D

77		Cyclohexanone	0.022	0.022	0.0	103	0.00	12.23
78		4-Chlorotoluene	2.168	2.252	-3.9	105	0.00	12.29
79		tert-Butylbenzene	1.423	1.514	-6.4	107	0.00	12.47
80		1,2,4-Trimethylbenzene	2.697	2.782	-3.2	103	0.00	12.53
81		sec-Butylbenzene	3.295	3.503	-6.3	106	0.00	12.65
82		4-Isopropyltoluene	2.659	2.898	-9.0	107	0.00	12.79
83		1,3-Dichlorobenzene	1.560	1.597	-2.4	105	0.00	12.90
84		1,4-Dichlorobenzene	1.626	1.656	-1.8	106	0.00	13.00
85		n-Butylbenzene	1.533	1.591	-3.8	104	0.00	13.23
86		Benzyl Chloride	0.360	0.336	6.7	94	0.00	13.24
87		1,2-Dichlorobenzene	1.498	1.547	-3.3	106	0.00	13.43
88		1,2-Dibromo-3-Chloropropa	0.143	0.149	-4.2	109	0.00	14.18
89		Hexachlorobutadiene	0.493	0.543	-10.1	105	0.00	14.73
90		1,2,4-Trichlorobenzene	1.047	1.119	-6.9	105	0.00	14.78
91		Naphthalene	2.287	2.508	-9.7	107	0.00	15.06
92		1,2,3-Trichlorobenzene	0.916	0.990	-8.1	104	0.00	15.22
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	110	0.00	5.10
		----------	Amount	Calc.	%Drift		----------	
94		acrolein	200.000	409.010	-104.5#	215	0.00	4.59
		----------	AvgRF	CCRF	%Dev		----------	
95		Tert Butyl Alcohol	1.280	1.215	5.1	109	0.00	5.17
96		tert Amyl alcohol	1.004	0.996	0.8	111	0.00	7.35
		----------	Amount	Calc.	%Drift		----------	
97		1,4-Dioxane	800.000	748.405	6.4	103	0.00	8.45

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P8753.D 8260P.m Tue Jul 17 09:36:27 2012

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP366-CC354
Lab FileID: P9067.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\072812\P9067.D            Vial: 1
Acq On    : 28 Jul 2012  10:20 am                   Operator: EileenG
Sample    : CC354-4                                 Inst    : MSVOA13
Misc      : MS21485,VP366,,,,,                      Multiplr: 1.00
MS Integration Params: tiny.p

Method       : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Mon Jul 16 14:11:03 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00	7.51
		----------	Amount	Calc.	%Drift		----------	
2		Dichlorodifluoromethane	40.000	47.458	-18.6	96	-0.01	2.62
		----------	AvgRF	CCRF	%Dev		----------	
3	P	Chloromethane	0.434	0.457	-5.3	82	-0.02	2.86
4	C	Vinyl Chloride	0.324	0.370	-14.2	86	-0.02	2.98
5		Bromomethane	0.192	0.228	-18.8	91	0.00	3.38
6		Chloroethane	0.186	0.214	-15.1	90	-0.02	3.49
		----------	Amount	Calc.	%Drift		----------	
7		Trichlorofluoromethane	40.000	47.299	-18.2	100	0.00	3.69
		----------	AvgRF	CCRF	%Dev		----------	
8		Ethyl Ether	0.264	0.273	-3.4	84	0.00	3.96
9		1,2-Dichlorotrifluoroetha	0.325	0.332	-2.2	81	0.00	4.20
10	C	1,1-Dichloroethene	0.396	0.454	-14.6	88	0.02	4.25
11		Freon 113	0.288	0.309	-7.3	81	0.00	4.28
12		Carbon Disulfide	0.874	0.788	9.8	72	0.03	4.33
13		Iodomethane	0.498	0.490	1.6	78	0.00	4.42
		----------	Amount	Calc.	%Drift		----------	
14		Methylene Chloride	40.000	39.953	0.1	82	0.00	4.86
15		Acetone	200.000	320.849	-60.4#	127	0.00	4.89
		----------	AvgRF	CCRF	%Dev		----------	
16		Methyl acetate	0.041	0.044	-7.3	87	0.00	5.00
17		trans-1,2-Dichloroethene	0.412	0.430	-4.4	81	-0.01	5.01
18		Hexane	0.294	0.299	-1.7	79	0.00	5.08
19		Methyl Tert Butyl Ether	0.869	0.958	-10.2	87	0.00	5.12
20		Di-isopropyl ether	1.120	1.052	6.1	75	0.00	5.49
21	P	1,1-Dichloroethane	0.487	0.503	-3.3	81	0.00	5.67
22		Acrylonitrile	0.099	0.132	-33.3#	105	0.00	5.72
23		ETBE	1.033	1.084	-4.9	82	0.00	5.88
24		Vinyl acetate	0.443	0.618	-39.5#	111	0.00	5.89
25		cis-1,2-Dichloroethene	0.284	0.283	0.4	78	0.00	6.24
26		2,2-Dichloropropane	0.414	0.479	-15.7	90	-0.01	6.36
27		Bromochloromethane	0.160	0.162	-1.3	83	0.00	6.45
28		Cyclohexane	0.567	0.544	4.1	75	-0.01	6.47
29	C	Chloroform	0.479	0.537	-12.1	86	0.00	6.50

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP366-CC354
Lab FileID: P9067.D

			Amount	Calc.	%Drift			
30		Tetrahydrofuran	40.000	43.912	-9.8	90	0.00	6.67
			AvgRF	CCRF	%Dev			
31	S	Dibromofluoromethane	0.275	0.299	-8.7	87	0.00	6.69
32		Carbon Tetrachloride	0.415	0.503	-21.2#	93	0.00	6.67
33		1,1,1-Trichloroethane	0.436	0.522	-19.7	92	0.00	6.75
			Amount	Calc.	%Drift			
34		2-Butanone	200.000	266.694	-33.3#	110	0.00	6.80
			AvgRF	CCRF	%Dev			
35		1,1-Dichloropropene	0.351	0.374	-6.6	82	0.00	6.86
36		Benzene	1.039	0.984	5.3	76	0.00	7.11
37		TAME	0.852	0.894	-4.9	83	0.00	7.20
38	S	1,2-Dichloroethane-d4	0.333	0.417	-25.2#	103	0.00	7.25
39		1,2-Dichloroethane	0.400	0.483	-20.7#	95	0.00	7.31
40		Trichloroethene	0.272	0.279	-2.6	80	0.00	7.68
41		Methylcyclohexane	0.491	0.485	1.2	75	0.00	7.70
42		Dibromomethane	0.169	0.182	-7.7	88	0.00	8.12
43	C	1,2-Dichloropropane	0.284	0.264	7.0	74	0.00	8.21
44		Bromodichloromethane	0.379	0.417	-10.0	88	0.00	8.26
45		2-Chloroethyl vinyl ether	0.136	0.144	-5.9	85	0.00	8.79
46		cis-1,3-Dichloropropene	0.452	0.453	-0.2	80	0.00	8.88
47	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	10.62
48	S	Toluene-d8	1.207	1.179	2.3	83	0.00	9.06
49	C	Toluene	1.397	1.266	9.4	77	0.00	9.12
50		2-Nitropropane	0.094	0.120	-27.7#	109	0.00	9.34
51		4-Methyl-2-pentanone	0.356	0.398	-11.8	95	0.00	9.46
52		trans-1,3-Dichloropropene	0.492	0.505	-2.6	87	0.00	9.51
53		Tetrachloroethene	0.360	0.366	-1.7	84	0.00	9.51
54		1,1,2-Trichloroethane	0.252	0.226	10.3	77	0.00	9.68
55		Dibromochloromethane	0.386	0.396	-2.6	88	0.00	9.87
56		1,3-Dichloropropane	0.529	0.499	5.7	80	0.00	9.96
57		1,2-Dibromoethane	0.331	0.330	0.3	85	0.00	10.12
58		2-hexanone	0.254	0.315	-24.0#	109	0.00	10.28
59		1-Chlorohexane	0.512	0.480	6.3	79	0.00	10.57
60	C	Ethylbenzene	1.640	1.599	2.5	82	0.00	10.63
61	P	Chlorobenzene	0.964	0.928	3.7	80	0.00	10.63
62		1,1,1,2-Tetrachloroethane	0.379	0.391	-3.2	86	0.00	10.68
63		m,p-Xylene	1.233	1.255	-1.8	83	0.00	10.77
64		o-Xylene	1.306	1.292	1.1	82	0.00	11.21
65		Styrene	1.069	1.039	2.8	80	0.00	11.27
66	P	Bromoform	0.256	0.300	-17.2	95	0.00	11.31
67		Isopropylbenzene	1.452	1.470	-1.2	82	0.00	11.52
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	12.97
69	S	4-Bromofluorobenzene	0.911	0.861	5.5	89	0.00	11.83
70		n-Propylbenzene	3.392	3.134	7.6	82	0.00	11.94
71		Bromobenzene	0.820	0.752	8.3	84	0.00	11.95
72	P	1,1,2,2-Tetrachloroethane	0.743	0.674	9.3	85	0.00	12.00
73		1,3,5-Trimethylbenzene	2.689	2.584	3.9	85	0.00	12.13
74		2-Chlorotoluene	2.361	2.210	6.4	83	0.00	12.12
			Amount	Calc.	%Drift			
75		trans-1,4-Dichloro-2-Bute	40.000	58.867	-47.2#	144	0.00	12.19
			AvgRF	CCRF	%Dev			
76		1,2,3-Trichloropropane	0.236	0.251	-6.4	97	0.00	12.17

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP366-CC354
Lab FileID: P9067.D

77	Cyclohexanone	0.022	0.028	-27.3#	112	0.00	12.23
78	4-Chlorotoluene	2.168	2.009	7.3	82	0.00	12.29
79	tert-Butylbenzene	1.423	1.460	-2.6	90	0.00	12.46
80	1,2,4-Trimethylbenzene	2.697	2.647	1.9	86	0.00	12.54
81	sec-Butylbenzene	3.295	3.204	2.8	85	0.00	12.65
82	4-Isopropyltoluene	2.659	2.645	0.5	85	0.00	12.79
83	1,3-Dichlorobenzene	1.560	1.461	6.3	84	0.00	12.90
84	1,4-Dichlorobenzene	1.626	1.528	6.0	86	0.00	12.99
85	n-Butylbenzene	1.533	1.502	2.0	86	0.00	13.22
86	Benzyl Chloride	0.360	0.385	-6.9	94	0.00	13.24
87	1,2-Dichlorobenzene	1.498	1.434	4.3	86	0.00	13.42
88	1,2-Dibromo-3-Chloropropa	0.143	0.165	-15.4	105	0.00	14.18
89	Hexachlorobutadiene	0.493	0.548	-11.2	92	0.00	14.73
90	1,2,4-Trichlorobenzene	1.047	1.057	-1.0	87	0.00	14.77
91	Naphthalene	2.287	2.508	-9.7	93	0.00	15.06
92	1,2,3-Trichlorobenzene	0.916	1.002	-9.4	92	0.00	15.22
93 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	121	0.00	5.10
	----------	Amount	Calc.	%Drift		----------	
94	acrolein	200.000	533.197	-166.6#	302	0.00	4.59
	----------	AvgRF	CCRF	%Dev		----------	
95	Tert Butyl Alcohol	1.280	1.187	7.3	117	0.01	5.18
96	tert Amyl alcohol	1.004	0.920	8.4	113	0.00	7.35
	----------	Amount	Calc.	%Drift		----------	
97	1,4-Dioxane	800.000	574.975	28.1#	87	0.00	8.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P8753.D 8260P.m Mon Jul 30 10:44:34 2012

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICC369
Lab FileID: P9111.D

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                         Response Factor Report  MSVOA13

 Method       : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
 Title        : SW-846 Method 5030B/8260B & EPA 624
 Last Update  : Mon Jul 30 17:57:13 2012
 Response via : Initial Calibration

 Calibration Files
 1   =P9108.D     2   =P9109.D     3   =P9110.D     4   =P9111.D
 5      =P9112.D      6      =P9113.D

       Compound              1     2     3     4     5     6     Avg    %RSD
 ------------------------------------------------------------------------------

 1) I   Fluorobenzene         ----------------ISTD---------------------
 2)     Dichlorodifluoromet 0.142 0.206 0.266 0.265 0.253 0.258 0.232  21.21
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.25937 *A + -0.00134 *A^2

 3) P   Chloromethane       0.361 0.404 0.476 0.464 0.440 0.436 0.430   9.77
 4) C   Vinyl Chloride      0.256 0.301 0.365 0.371 0.358 0.356 0.334  13.68
 5)     Bromomethane        0.178 0.195 0.228 0.229 0.226 0.242 0.216  11.24
 6)     Chloroethane        0.183 0.186 0.226 0.222 0.234 0.247 0.216  12.09
 7)     Trichlorofluorometh 0.259 0.308 0.361 0.359 0.350 0.364 0.333  12.63
 8)     Ethyl Ether         0.233 0.291 0.298 0.276 0.293 0.294 0.281   8.73
 9)     1,2-Dichlorotrifluo 0.280 0.309 0.379 0.360 0.349 0.353 0.338  10.85
10) C   1,1-Dichloroethene  0.327 0.351 0.433 0.426 0.414 0.428 0.397  11.47
11)     Freon 113           0.194 0.228 0.288 0.277 0.269 0.275 0.255  14.25
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.27362 *A + 0.00007 *A^2

12)     Carbon Disulfide    0.771 0.793 0.969 0.936 0.927 0.931 0.888   9.39
13)     Iodomethane         0.317 0.389 0.447 0.436 0.434 0.450 0.412  12.52
14)     Methylene Chloride  6.011 1.777 0.842 0.609 0.571 0.557 1.728  124.38
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9980
              Response Ratio = 0.00000 + 0.57481 *A

15)     Acetone             0.053 0.044 0.045 0.045 0.042 0.042 0.045   8.78
16)     Methyl acetate      0.042 0.046 0.051 0.049 0.049 0.049 0.048   6.76
17)     trans-1,2-Dichloroe 0.280 0.367 0.453 0.428 0.429 0.434 0.399  16.33
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.42788 *A + 0.00275 *A^2

18)     Hexane              0.193 0.288 0.333 0.317 0.316 0.313 0.293  17.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.32366 *A + -0.00527 *A^2

19)     Methyl Tert Butyl E 0.750 0.857 0.901 0.878 0.899 0.923 0.868   7.15
20)     Di-isopropyl ether  1.019 1.136 1.323 1.273 1.304 1.297 1.225   9.90
21) P   1,1-Dichloroethane  0.403 0.470 0.530 0.509 0.519 0.518 0.492   9.74
22)     Acrylonitrile       0.114 0.131 0.136 0.134 0.137 0.135 0.131   6.70
23)     ETBE                0.891 0.965 1.096 1.066 1.082 1.119 1.036   8.60
24)     Vinyl acetate       0.530 0.647 0.683 0.674 0.677 0.662 0.645   9.01
25)     cis-1,2-Dichloroeth 0.189 0.265 0.292 0.284 0.291 0.294 0.269  15.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.28232 *A + 0.00570 *A^2

26)     2,2-Dichloropropane 0.263 0.339 0.375 0.362 0.369 0.370 0.346  12.35
27)     Bromochloromethane  0.112 0.118 0.149 0.141 0.142 0.146 0.135  11.67
28)     Cyclohexane         0.374 0.503 0.631 0.615 0.625 0.628 0.563  18.62
```

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICC369
Lab FileID: P9111.D

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              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.61292 *A + 0.00770 *A^2

29) C   Chloroform          0.347 0.444 0.509 0.476 0.492 0.497 0.461  13.04
30)     Tetrahydrofuran     0.118 0.125 0.129 0.122 0.128 0.129 0.125   3.72
31) S   Dibromofluoromethan 0.241 0.242 0.245 0.248 0.243 0.246 0.244   1.19
32)     Carbon Tetrachlorid 0.234 0.292 0.363 0.354 0.349 0.359 0.325  15.95
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.34600 *A + 0.00573 *A^2

33)     1,1,1-Trichloroetha 0.261 0.340 0.416 0.397 0.405 0.413 0.372  16.43
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.39180 *A + 0.01029 *A^2

34)     2-Butanone          0.193 0.191 0.198 0.198 0.200 0.200 0.197   1.88
35)     1,1-Dichloropropene 0.281 0.316 0.366 0.365 0.365 0.368 0.344  10.69
36)     Benzene             0.870 0.987 1.119 1.091 1.089 1.098 1.042   9.22
37)     TAME                0.720 0.770 0.887 0.859 0.878 0.901 0.836   8.77
38) S   1,2-Dichloroethane- 0.326 0.317 0.315 0.316 0.324 0.326 0.321   1.60
39)     1,2-Dichloroethane  0.311 0.374 0.391 0.383 0.390 0.397 0.374   8.49
40)     Trichloroethene     0.195 0.238 0.269 0.267 0.272 0.273 0.252  12.22
41)     Methylcyclohexane   0.345 0.426 0.516 0.501 0.508 0.511 0.468  14.76
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.49966 *A + 0.00585 *A^2

42)     Dibromomethane      0.141 0.164 0.169 0.171 0.172 0.176 0.165   7.69
43) C   1,2-Dichloropropane 0.240 0.288 0.314 0.299 0.312 0.310 0.294   9.50
44)     Bromodichloromethan 0.273 0.337 0.383 0.373 0.383 0.391 0.357  12.64
45)     2-Chloroethyl vinyl 0.116 0.131 0.145 0.148 0.153 0.155 0.141  10.48
46)     cis-1,3-Dichloropro 0.354 0.410 0.461 0.460 0.463 0.473 0.437  10.54

47) I   Chlorobenzene-d5      ----------------ISTD---------------------
48) S   Toluene-d8          1.323 1.321 1.292 1.312 1.288 1.284 1.303   1.35
49) C   Toluene             1.263 1.421 1.638 1.563 1.585 1.573 1.507   9.28
50)     2-Nitropropane      0.116 0.116 0.124 0.125 0.133 0.133 0.125   6.06
51)     4-Methyl-2-pentanon 0.448 0.516 0.546 0.538 0.554 0.543 0.524   7.55
52)     trans-1,3-Dichlorop 0.448 0.522 0.573 0.567 0.595 0.599 0.551  10.38
53)     Tetrachloroethene   0.272 0.338 0.385 0.370 0.387 0.386 0.356  12.77
54)     1,1,2-Trichloroetha 0.261 0.304 0.315 0.305 0.317 0.313 0.302   6.96
55)     Dibromochloromethan 0.352 0.378 0.414 0.405 0.414 0.420 0.397   6.65
56)     1,3-Dichloropropane 0.604 0.609 0.641 0.621 0.644 0.625 0.624   2.62
57)     1,2-Dibromoethane   0.307 0.358 0.367 0.353 0.362 0.369 0.353   6.56
58)     2-hexanone          0.332 0.359 0.392 0.386 0.398 0.392 0.377   6.86
59)     1-Chlorohexane      0.357 0.419 0.539 0.530 0.546 0.542 0.489  16.55
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.53329 *A + 0.00500 *A^2

60) C   Ethylbenzene        1.647 1.805 1.975 1.907 1.940 1.962 1.872   6.75
61) P   Chlorobenzene       0.939 0.987 1.068 1.039 1.067 1.089 1.031   5.56
62)     1,1,1,2-Tetrachloro 0.309 0.373 0.409 0.396 0.409 0.410 0.384  10.30
63)     m,p-Xylene          1.066 1.259 1.481 1.434 1.472 1.480 1.366  12.40
64)     o-Xylene            1.036 1.277 1.534 1.492 1.535 1.546 1.403  14.72
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 1.48401 *A + 0.03157 *A^2

65)     Styrene             0.809 0.884 1.118 1.131 1.201 1.239 1.063  16.52
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 1.07607 *A + 0.08259 *A^2

66) P   Bromoform           0.261 0.309 0.325 0.326 0.346 0.354 0.320  10.36
```

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICC369
Lab FileID: P9111.D

```
67)      Isopropylbenzene    1.230 1.391 1.688 1.654 1.680 1.681 1.554  12.60

68) I    1,4-Dichlorobenzene-d ----------------ISTD---------------------
69) S    4-Bromofluorobenzen 0.943 0.946 0.904 0.899 0.926 0.919 0.923   2.11
70)      n-Propylbenzene     3.513 4.138 4.624 4.395 4.597 4.498 4.294   9.81
71)      Bromobenzene        0.791 0.886 0.981 0.923 0.969 0.963 0.919   7.82
72) P    1,1,2,2-Tetrachloro 1.099 1.137 1.172 1.095 1.140 1.119 1.127   2.56
73)      1,3,5-Trimethylbenz 2.425 2.844 3.296 3.154 3.327 3.316 3.060  11.80
74)      2-Chlorotoluene     2.156 2.784 3.110 2.950 3.100 3.130 2.872  13.04
75)      trans-1,4-Dichloro- 0.155 0.184 0.232 0.260 0.294 0.313 0.240  25.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.22789 *A + 0.04350 *A^2

76)      1,2,3-Trichloroprop 0.263 0.309 0.320 0.306 0.319 0.313 0.305   7.06
77)      Cyclohexanone       0.031 0.029 0.033 0.033 0.035 0.034 0.033   7.26
78)      4-Chlorotoluene     2.207 2.496 2.850 2.673 2.818 2.782 2.637   9.36
79)      tert-Butylbenzene   1.100 1.570 1.824 1.788 1.850 1.819 1.659  17.62
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.81983 *A + 0.00318 *A^2

80)      1,2,4-Trimethylbenz 2.378 2.954 3.426 3.281 3.379 3.367 3.131  12.97
81)      sec-Butylbenzene    2.999 3.666 4.394 4.180 4.290 4.191 3.953  13.43
82)      4-Isopropyltoluene  2.407 2.841 3.450 3.380 3.420 3.380 3.146  13.61
83)      1,3-Dichlorobenzene 1.588 1.845 1.963 1.867 1.943 1.934 1.856   7.51
84)      1,4-Dichlorobenzene 1.885 1.899 2.040 1.944 2.043 2.015 1.971   3.60
85)      n-Butylbenzene      1.409 1.784 2.192 2.126 2.183 2.177 1.978  16.15
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 2.13800 *A + 0.02120 *A^2

86)      Benzyl Chloride     0.277 0.314 0.364 0.347 0.372 0.366 0.340  11.02
87)      1,2-Dichlorobenzene 1.635 1.728 1.920 1.841 1.878 1.891 1.815   6.11
88)      1,2-Dibromo-3-Chlor 0.192 0.196 0.205 0.201 0.184 0.182 0.193   4.78
89)      Hexachlorobutadiene 0.593 0.556 0.666 0.653 0.603 0.576 0.608   7.12
90)      1,2,4-Trichlorobenz 1.163 1.324 1.428 1.354 1.255 1.228 1.292   7.38
91)      Naphthalene         2.628 2.969 3.226 3.140 2.755 2.592 2.885   9.26
92)      1,2,3-Trichlorobenz 1.030 1.200 1.271 1.254 1.012 0.959 1.121  12.16

93) I    Tert Butyl Alcohol-d1 ----------------ISTD---------------------
94)      acrolein            1.149 1.556 1.425 1.426 1.341 1.350 1.375   9.82
95)      Tert Butyl Alcohol  1.067 1.328 1.241 1.249 1.200 1.237 1.221   7.06
96)      tert Amyl alcohol   0.936 0.958 0.983 1.003 1.014 1.042 0.989   3.89
97)      1,4-Dioxane         0.082 0.110 0.106 0.106 0.106 0.103 0.102  10.03
-------------------------------------------------------------------------------
(#) = Out of Range

          8260P.m            Tue Jul 31 09:36:44 2012
```

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICV369
Lab FileID: P9115.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\073012\P9115.D            Vial: 8
Acq On    : 30 Jul 2012   4:19 pm                   Operator: EileenG
Sample    : icv369-4                                Inst    : MSVOA13
Misc      : MS21485,VP369,,,,,                      Multiplr: 1.00
MS Integration Params: tiny.p

Method       : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Mon Jul 30 17:57:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00	7.52
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	37.524	6.2	92	0.00	2.62
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.430	0.413	4.0	89	0.00	2.86
4	C	Vinyl Chloride	0.334	0.342	-2.4	92	0.00	2.99
5		Bromomethane	0.216	0.206	4.6	90	0.00	3.37
6		Chloroethane	0.216	0.207	4.2	93	0.00	3.50
7		Trichlorofluoromethane	0.333	0.358	-7.5	100	0.00	3.69
8		Ethyl Ether	0.281	0.270	3.9	98	0.00	3.96
9		1,2-Dichlorotrifluoroetha	0.338	0.333	1.5	93	-0.02	4.20
10	C	1,1-Dichloroethene	0.397	0.448	-12.8	106	0.00	4.24
			Amount	Calc.	%Drift			
11		Freon 113	40.000	36.587	8.5	91	0.00	4.29
			AvgRF	CCRF	%Dev			
12		Carbon Disulfide	0.888	0.769	13.4	82	0.00	4.30
13		Iodomethane	0.412	0.403	2.2	93	0.00	4.42
			Amount	Calc.	%Drift			
14		Methylene Chloride	40.000	46.700	-16.8	111	0.00	4.86
			AvgRF	CCRF	%Dev			
15		Acetone	0.045	0.031	31.1#	68	0.00	4.88
16		Methyl acetate	0.048	0.046	4.2	96	0.00	5.00
			Amount	Calc.	%Drift			
17		trans-1,2-Dichloroethene	40.000	39.598	1.0	100	0.00	5.02
18		Hexane	40.000	35.499	11.3	90	0.00	5.08
			AvgRF	CCRF	%Dev			
19		Methyl Tert Butyl Ether	0.868	0.841	3.1	96	0.00	5.12
20		Di-isopropyl ether	1.225	1.189	2.9	94	0.00	5.50
21	P	1,1-Dichloroethane	0.492	0.525	-6.7	103	0.00	5.67
22		Acrylonitrile	0.131	0.137	-4.6	103	0.00	5.72
23		ETBE	1.036	0.989	4.5	93	0.00	5.89
24		Vinyl acetate	0.645	0.686	-6.4	102	0.00	5.89
			Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICV369
Lab FileID: P9115.D

25		cis-1,2-Dichloroethene	40.000	39.476	1.3	100	0.00	6.24
		----------	AvgRF	CCRF	%Dev	----------		
26		2,2-Dichloropropane	0.346	0.396	-14.5	110	0.00	6.37
27		Bromochloromethane	0.135	0.135	0.0	96	0.00	6.45
		----------	Amount	Calc.	%Drift	----------		
28		Cyclohexane	40.000	35.977	10.1	91	0.00	6.48
		----------	AvgRF	CCRF	%Dev	----------		
29	C	Chloroform	0.461	0.497	-7.8	105	0.00	6.51
30		Tetrahydrofuran	0.125	0.115	8.0	95	0.00	6.68
31	S	Dibromofluoromethane	0.244	0.250	-2.5	101	0.00	6.69
		----------	Amount	Calc.	%Drift	----------		
32		Carbon Tetrachloride	40.000	40.352	-0.9	100	0.00	6.68
33		1,1,1-Trichloroethane	40.000	41.067	-2.7	104	0.00	6.75
		----------	AvgRF	CCRF	%Dev	----------		
34		2-Butanone	0.197	0.175	11.2	89	0.00	6.80
35		1,1-Dichloropropene	0.344	0.365	-6.1	101	0.00	6.86
36		Benzene	1.042	1.059	-1.6	97	0.00	7.11
37		TAME	0.836	0.821	1.8	96	0.00	7.19
38	S	1,2-Dichloroethane-d4	0.321	0.331	-3.1	105	0.00	7.24
39		1,2-Dichloroethane	0.374	0.401	-7.2	105	0.00	7.32
40		Trichloroethene	0.252	0.263	-4.4	99	0.00	7.69
		----------	Amount	Calc.	%Drift	----------		
41		Methylcyclohexane	40.000	36.949	7.6	93	0.00	7.70
		----------	AvgRF	CCRF	%Dev	----------		
42		Dibromomethane	0.165	0.174	-5.5	102	0.00	8.12
43	C	1,2-Dichloropropane	0.294	0.298	-1.4	100	0.00	8.22
44		Bromodichloromethane	0.357	0.371	-3.9	100	0.00	8.26
45		2-Chloroethyl vinyl ether	0.141	0.156	-10.6	106	0.00	8.79
46		cis-1,3-Dichloropropene	0.437	0.459	-5.0	100	0.00	8.88
47	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	10.61
48	S	Toluene-d8	1.303	1.339	-2.8	101	0.00	9.07
49	C	Toluene	1.507	1.567	-4.0	100	0.00	9.12
50		2-Nitropropane	0.125	0.129	-3.2	102	0.00	9.35
51		4-Methyl-2-pentanone	0.524	0.523	0.2	97	0.00	9.46
52		trans-1,3-Dichloropropene	0.551	0.600	-8.9	105	0.00	9.51
53		Tetrachloroethene	0.356	0.383	-7.6	103	0.00	9.51
54		1,1,2-Trichloroethane	0.302	0.290	4.0	95	0.00	9.68
55		Dibromochloromethane	0.397	0.382	3.8	94	0.00	9.87
56		1,3-Dichloropropane	0.624	0.589	5.6	94	0.00	9.96
57		1,2-Dibromoethane	0.353	0.337	4.5	95	0.00	10.12
58		2-hexanone	0.377	0.377	0.0	97	0.00	10.28
		----------	Amount	Calc.	%Drift	----------		
59		1-Chlorohexane	40.000	37.114	7.2	93	0.00	10.57
		----------	AvgRF	CCRF	%Dev	----------		
60	C	Ethylbenzene	1.872	1.797	4.0	94	0.00	10.64
61	P	Chlorobenzene	1.031	1.011	1.9	97	0.00	10.63
62		1,1,1,2-Tetrachloroethane	0.384	0.366	4.7	92	0.00	10.68
63		m,p-Xylene	1.366	1.370	-0.3	95	0.00	10.78
		----------	Amount	Calc.	%Drift	----------		

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: VP369-ICV369
Lab FileID: P9115.D

64		o-Xylene	40.000	36.933	7.7	93	0.00	11.21
65		Styrene	40.000	35.278	11.8	88	0.00	11.26
		----------	AvgRF	CCRF	%Dev	----------		
66	P	Bromoform	0.320	0.277	13.4	84	0.00	11.32
67		Isopropylbenzene	1.554	1.713	-10.2	103	0.00	11.52
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	12.98
69	S	4-Bromofluorobenzene	0.923	0.911	1.3	100	0.00	11.83
70		n-Propylbenzene	4.294	3.818	11.1	86	0.00	11.94
71		Bromobenzene	0.919	0.800	12.9	86	0.00	11.95
72	P	1,1,2,2-Tetrachloroethane	1.127	0.845	25.0#	77	0.00	12.00
73		1,3,5-Trimethylbenzene	3.060	2.662	13.0	84	0.00	12.13
74		2-Chlorotoluene	2.872	2.566	10.7	86	0.00	12.13
		----------	Amount	Calc.	%Drift	----------		
75		trans-1,4-Dichloro-2-Bute	40.000	39.054	2.4	98	0.00	12.19
		----------	AvgRF	CCRF	%Dev	----------		
76		1,2,3-Trichloropropane	0.305	0.248	18.7	80	0.00	12.16
77		Cyclohexanone	0.033	0.034	-3.0	101	0.00	12.23
78		4-Chlorotoluene	2.637	2.361	10.5	88	0.00	12.29
		----------	Amount	Calc.	%Drift	----------		
79		tert-Butylbenzene	40.000	33.469	16.3	85	0.00	12.47
		----------	AvgRF	CCRF	%Dev	----------		
80		1,2,4-Trimethylbenzene	3.131	2.692	14.0	81	0.00	12.53
81		sec-Butylbenzene	3.953	3.490	11.7	83	0.00	12.65
82		4-Isopropyltoluene	3.146	2.789	11.3	82	0.00	12.78
83		1,3-Dichlorobenzene	1.856	1.571	15.4	83	0.00	12.90
		----------	Amount	Calc.	%Drift	----------		
84		1,4-Dichlorobenzene	40.000	32.812	18.0	82	0.00	12.99
85		n-Butylbenzene	40.000	31.598	21.0#	79	0.00	13.22
		----------	AvgRF	CCRF	%Dev	----------		
86		Benzyl Chloride	0.340	0.362	-6.5	103	0.00	13.24
87		1,2-Dichlorobenzene	1.815	1.513	16.6	81	0.00	13.43
88		1,2-Dibromo-3-Chloropropa	0.193	0.161	16.6	79	0.00	14.18
89		Hexachlorobutadiene	0.608	0.558	8.2	85	0.00	14.73
90		1,2,4-Trichlorobenzene	1.292	1.136	12.1	83	0.00	14.78
91		Naphthalene	2.885	2.531	12.3	80	0.00	15.06
92		1,2,3-Trichlorobenzene	1.121	1.003	10.5	79	0.00	15.22
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	104	0.00	5.10
94		acrolein	1.375	0.856	37.7#	62	0.00	4.58
95		Tert Butyl Alcohol	1.221	1.248	-2.2	104	0.00	5.17
96		tert Amyl alcohol	0.989	1.004	-1.5	104	0.00	7.35
97		1,4-Dioxane	0.102	0.106	-3.9	103	0.00	8.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P9111.D 8260P.m Tue Jul 31 09:36:05 2012

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077070.D Vial: 11
Acq On : 27 Jul 2012 4:28 pm Operator: ericp
Sample : F95274-1 Inst : MSVOA3
Misc : ms21691,vh2862,7.18,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:43:14 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	878541	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	550034	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	234744	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.35	65	30611	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.46	113	184263	45.77	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 91.54%			
44) 1,2-Dichloroethane-d4	9.87	65	211300	49.30	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 98.60%			
55) Toluene-d8	11.80	98	807864	47.38	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 94.76%			
77) 4-Bromofluorobenzene	14.57	174	214616	46.31	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 92.62%			

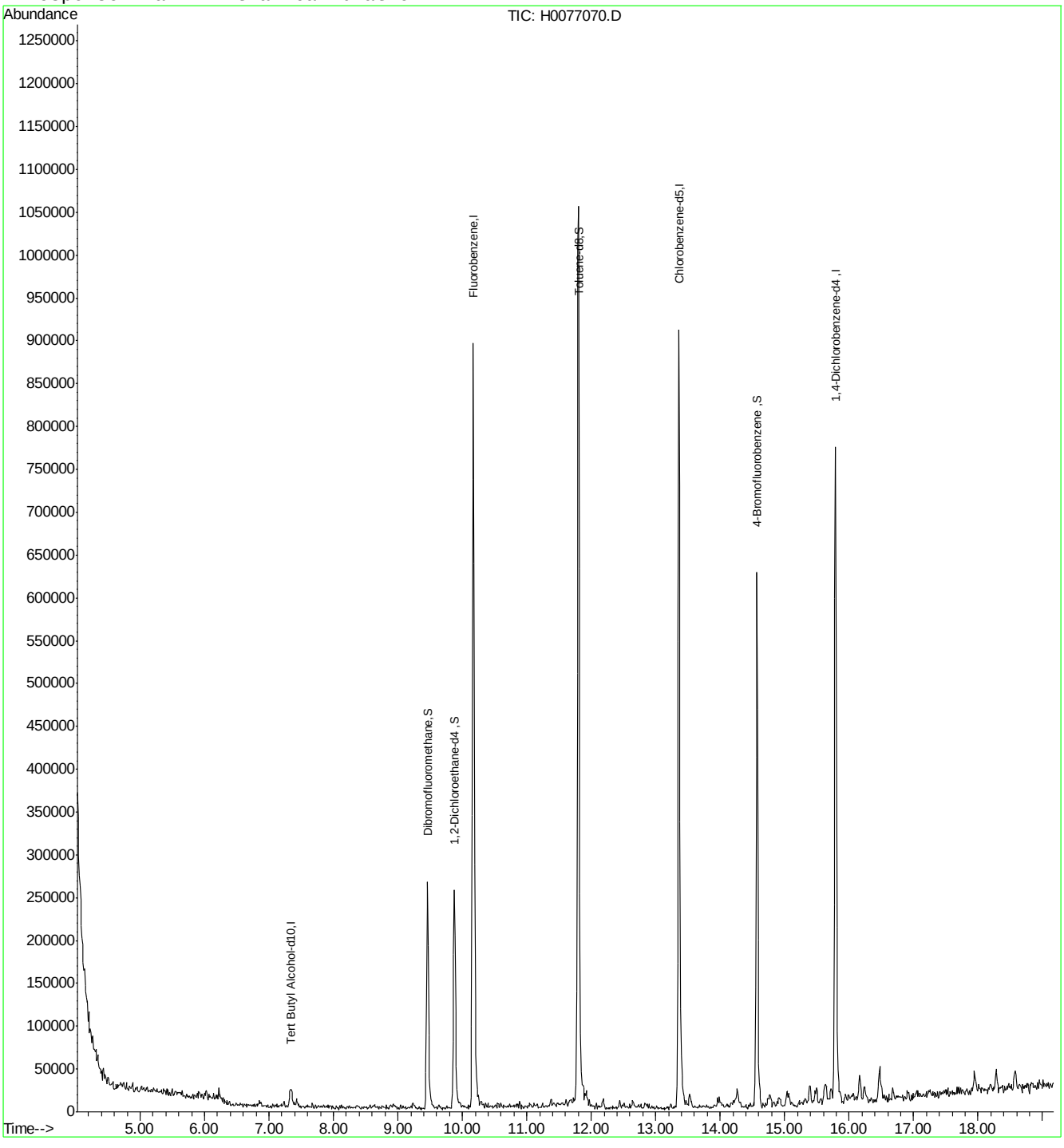
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077070.D Vial: 11
Acq On : 27 Jul 2012 4:28 pm Operator: ericp
Sample : F95274-1 Inst : MSVOA3
Misc : ms21691,vh2862,7.18,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:47 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077071.D Vial: 12
Acq On : 27 Jul 2012 4:55 pm Operator: ericp
Sample : F95274-2 Inst : MSVOA3
Misc : ms21691,vh2862,5.29,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:43:42 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	956264	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	597658	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	264915	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.35	65	32423	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.45	113	204955	46.77	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 93.54%			
44) 1,2-Dichloroethane-d4	9.88	65	216960	46.50	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 93.00%			
55) Toluene-d8	11.80	98	864040	46.64	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 93.28%			
77) 4-Bromofluorobenzene	14.57	174	233574	44.66	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 89.32%			

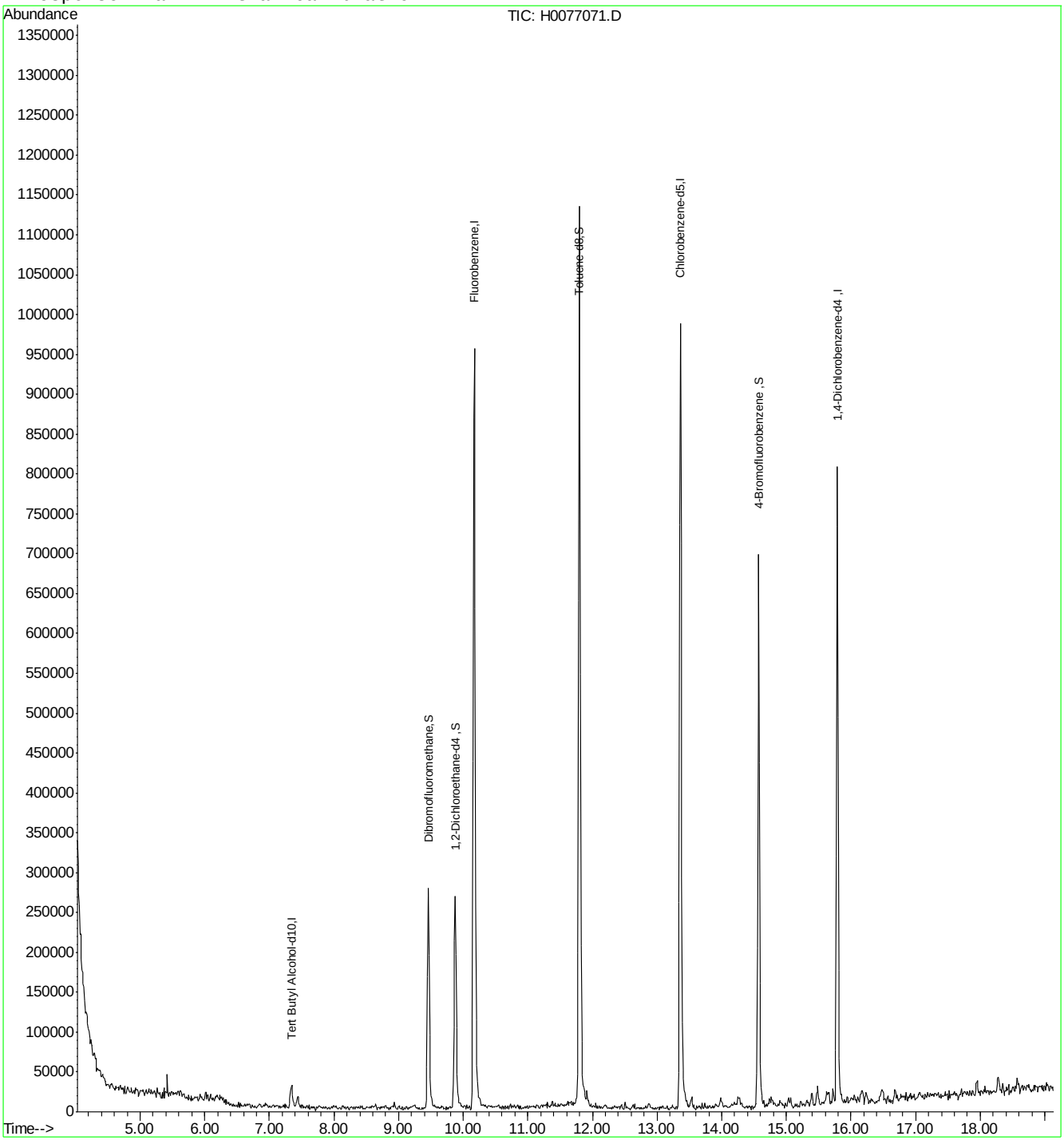
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077071.D Vial: 12
Acq On : 27 Jul 2012 4:55 pm Operator: ericp
Sample : F95274-2 Inst : MSVOA3
Misc : ms21691,vh2862,5.29,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:47 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077072.D Vial: 13
Acq On : 27 Jul 2012 5:21 pm Operator: ericp
Sample : F95274-3 Inst : MSVOA3
Misc : ms21691,vh2862,6.54,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:44:13 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

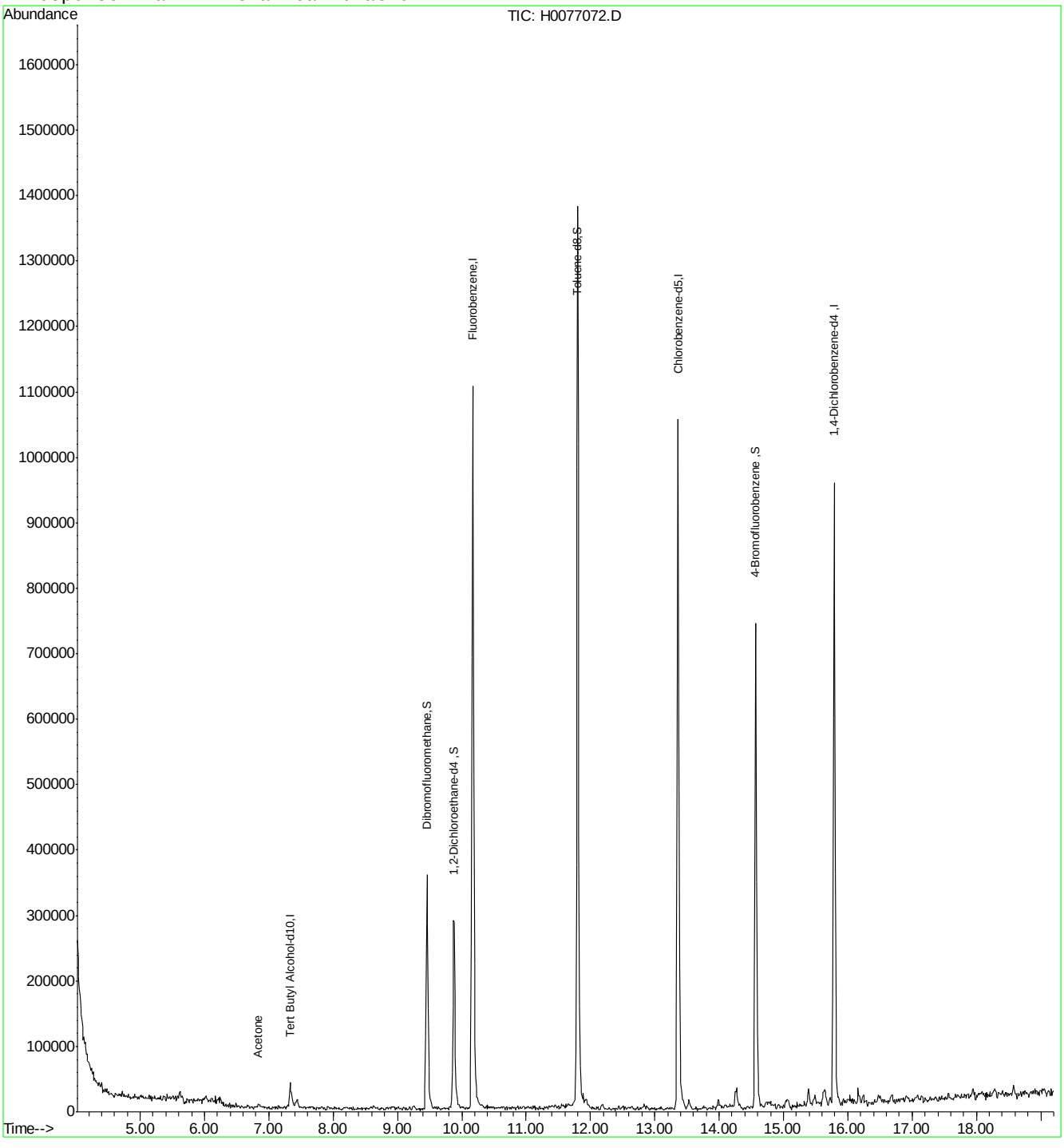
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1084993	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.37	117	687494	50.00	ug/Kg	0.01
76) 1,4-Dichlorobenzene-d4	15.79	152	286153	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	40839	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.46	113	230124	46.28	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 92.56%			
44) 1,2-Dichloroethane-d4	9.87	65	257652	48.67	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 97.34%			
55) Toluene-d8	11.80	98	974625	45.73	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 91.46%			
77) 4-Bromofluorobenzene	14.58	174	276050	48.87	ug/Kg	0.01
Spiked Amount 50.000	Range 59 - 148		Recovery = 97.74%			
Target Compounds						Qvalue
16) Acetone	6.83	43	11628	9.39	ug/Kg	77

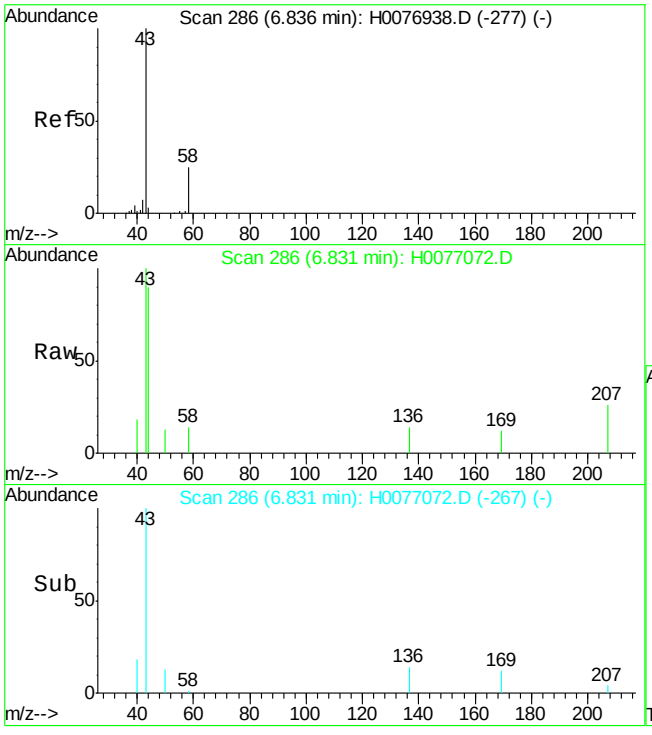
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077072.D Vial: 13
Acq On : 27 Jul 2012 5:21 pm Operator: ericp
Sample : F95274-3 Inst : MSVOA3
Misc : ms21691,vh2862,6.54,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:48 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration

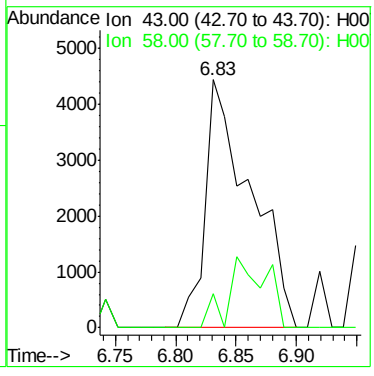




#16
Acetone
Concen: 9.39 ug/Kg
RT: 6.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: H0077072.D
Acq: 27 Jul 2012 5:21 pm

Tgt Ion: 43 Resp: 11628

Ion	Ratio	Lower	Upper
43	100		
58	13.9	0.0	55.3



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077073.D Vial: 14
Acq On : 27 Jul 2012 5:47 pm Operator: ericp
Sample : F95274-4 Inst : MSVOA3
Misc : ms21691,vh2862,7.31,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:44:42 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1077664	50.00	ug/Kg	0.01
54) Chlorobenzene-d5	13.36	117	671098	50.00	ug/Kg	0.01
76) 1,4-Dichlorobenzene-d4	15.79	152	292989	50.00	ug/Kg	0.01
103) Tert Butyl Alcohol-d10	7.34	65	46525	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.45	113	236058	47.80	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 95.60%			
44) 1,2-Dichloroethane-d4	9.88	65	260490	49.54	ug/Kg	0.01
Spiked Amount 50.000	Range 77 - 123		Recovery = 99.08%			
55) Toluene-d8	11.80	98	991310	47.65	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.30%			
77) 4-Bromofluorobenzene	14.57	174	276670	47.83	ug/Kg	0.01
Spiked Amount 50.000	Range 59 - 148		Recovery = 95.66%			

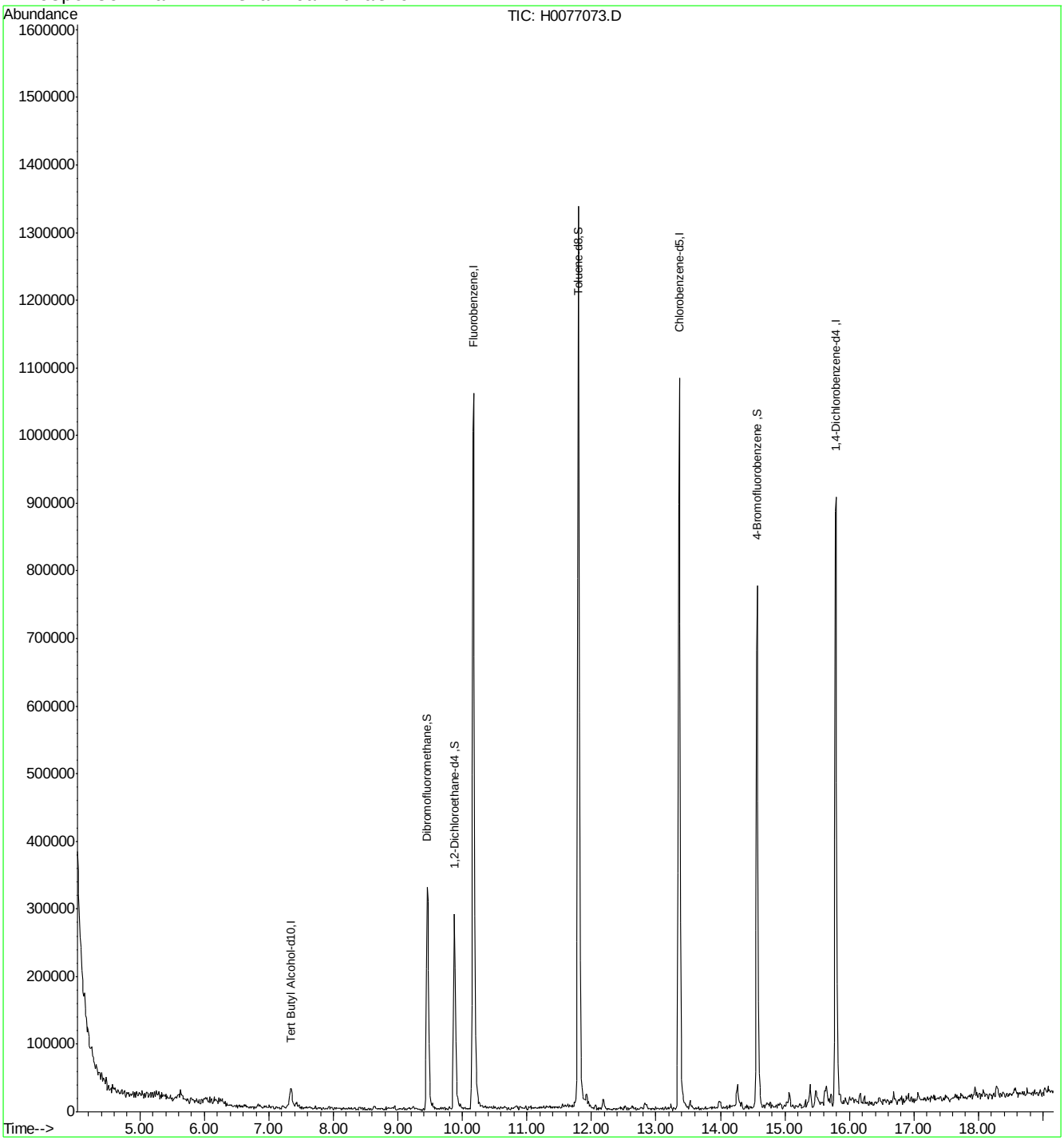
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077073.D Vial: 14
Acq On : 27 Jul 2012 5:47 pm Operator: ericp
Sample : F95274-4 Inst : MSVOA3
Misc : ms21691,vh2862,7.31,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:48 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077074.D Vial: 15
Acq On : 27 Jul 2012 6:13 pm Operator: ericp
Sample : F95274-5 Inst : MSVOA3
Misc : ms21691,vh2862,5.18,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:45:01 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	810399	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	513869	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	229503	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.35	65	39076	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.46	113	184540	49.69	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 99.38%			
44) 1,2-Dichloroethane-d4	9.88	65	199913	50.56	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 101.12%			
55) Toluene-d8	11.80	98	762536	47.87	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.74%			
77) 4-Bromofluorobenzene	14.57	174	196435	43.36	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 86.72%			

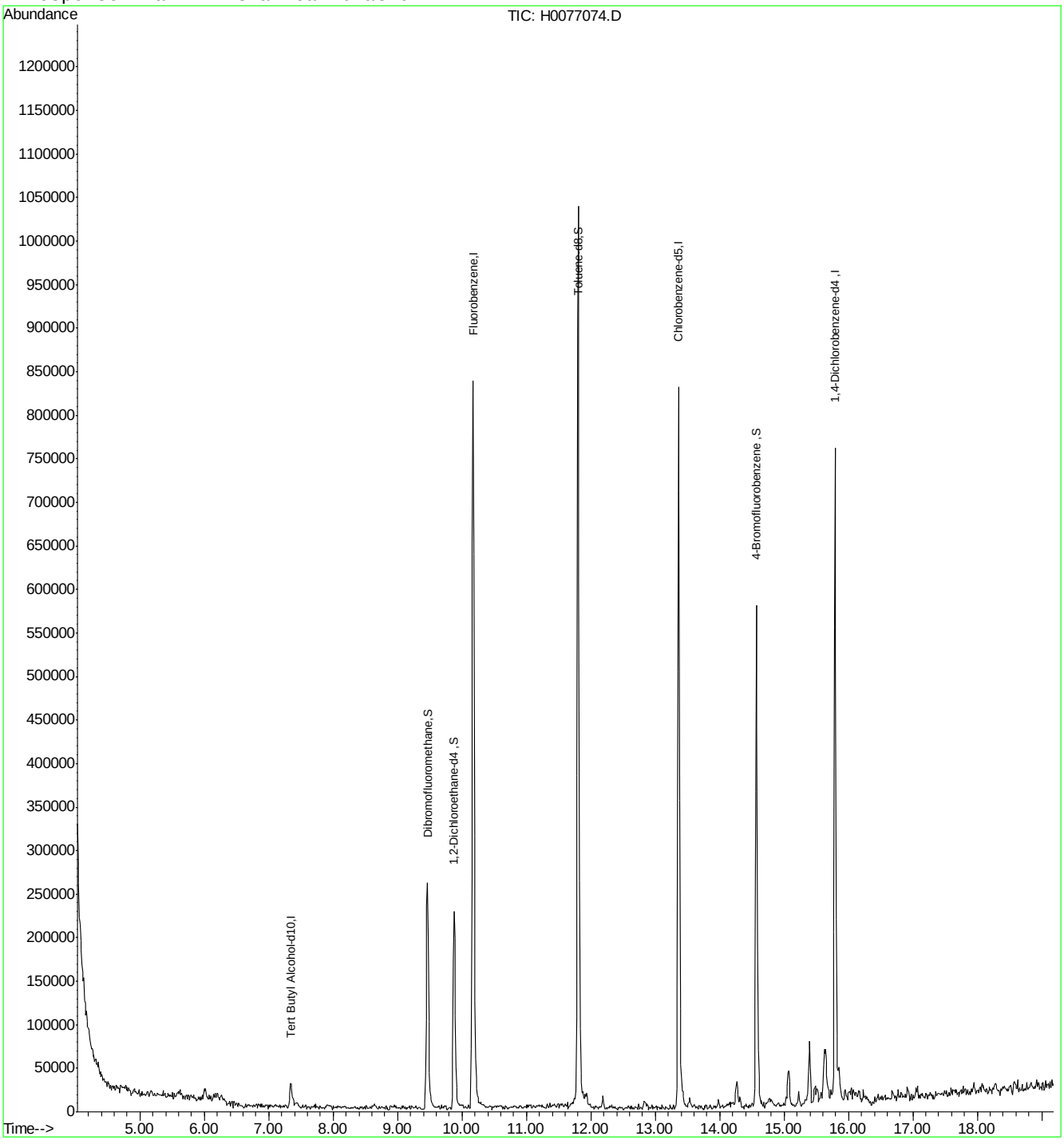
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077074.D Vial: 15
Acq On : 27 Jul 2012 6:13 pm Operator: ericp
Sample : F95274-5 Inst : MSVOA3
Misc : ms21691,vh2862,5.18,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:48 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077075.D Vial: 16
Acq On : 27 Jul 2012 6:40 pm Operator: ericp
Sample : F95274-6 Inst : MSVOA3
Misc : ms21691,vh2862,6.30,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:45:14 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	908855	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	596473	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	248101	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.34	65	24822	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.46	113	206387	49.55	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 99.10%			
44) 1,2-Dichloroethane-d4	9.87	65	234617	52.91	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 105.82%			
55) Toluene-d8	11.80	98	838513	45.35	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 90.70%			
77) 4-Bromofluorobenzene	14.57	174	226164	46.18	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 92.36%			

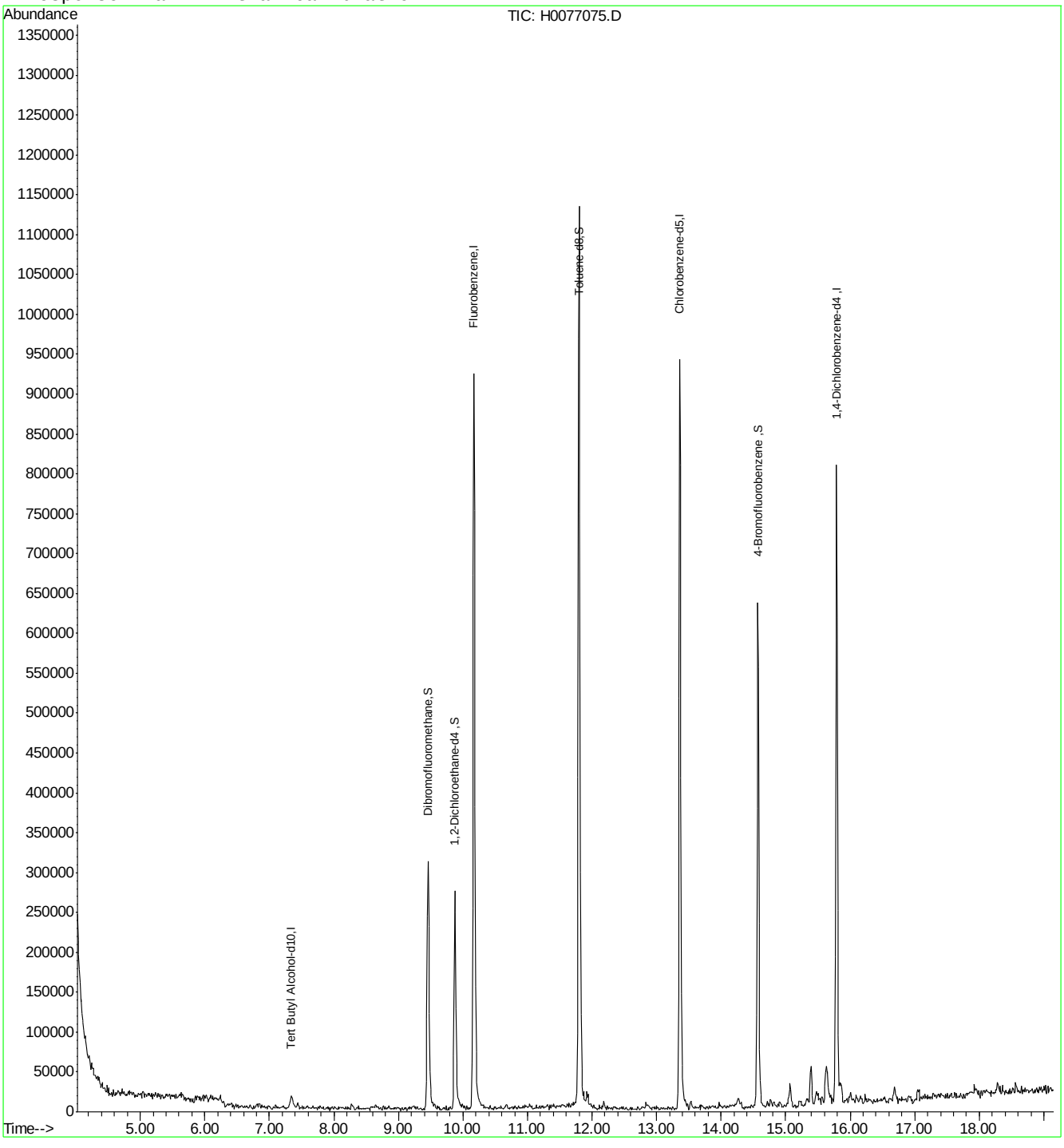
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077075.D Vial: 16
Acq On : 27 Jul 2012 6:40 pm Operator: ericp
Sample : F95274-6 Inst : MSVOA3
Misc : ms21691,vh2862,6.30,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:49 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9091.D
Acq On : 28 Jul 2012 8:14 pm
Operator : EileenG
Sample : F95274-7A,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:40:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.519	96	589179	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	498702	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.974	152	288534	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.099	65	121670	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.692	113	176825	54.61	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 109.22%			
38) 1,2-Dichloroethane-d4	7.246	65	252201	64.28	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 128.56%#			
48) Toluene-d8	9.064	98	592442	49.22	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 98.44%			
69) 4-Bromofluorobenzene	11.825	95	255391	48.56	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 97.12%			

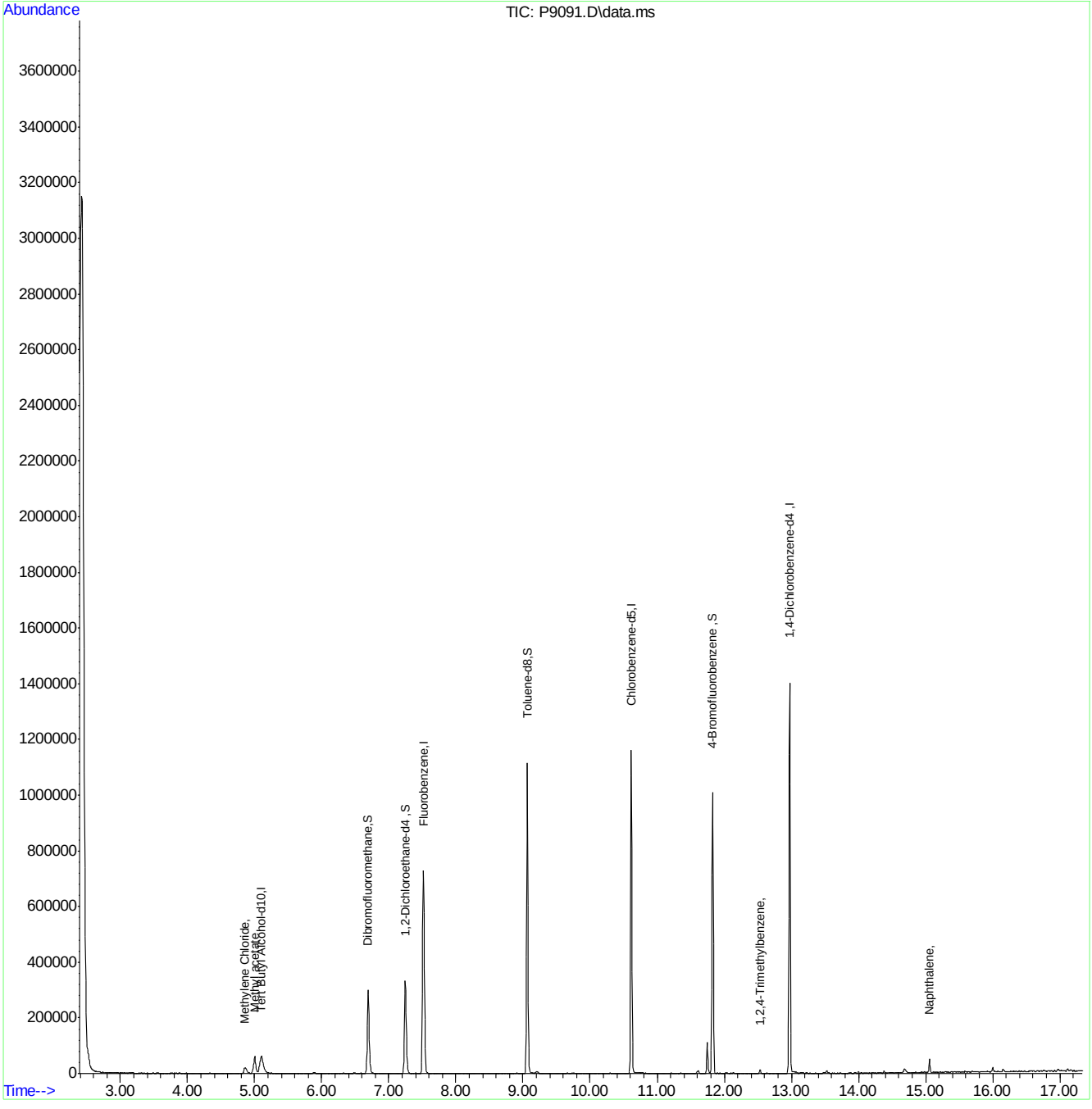
Target Compounds						Qvalue
14) Methylene Chloride	4.856	49	18623	3.35	ug/L	87
16) Methyl acetate	5.002	74	18316	37.57	ug/L #	84
80) 1,2,4-Trimethylbenzene	12.536	105	5634	0.36	ug/L	94
91) Naphthalene	15.060	128	23460	1.78	ug/L	99

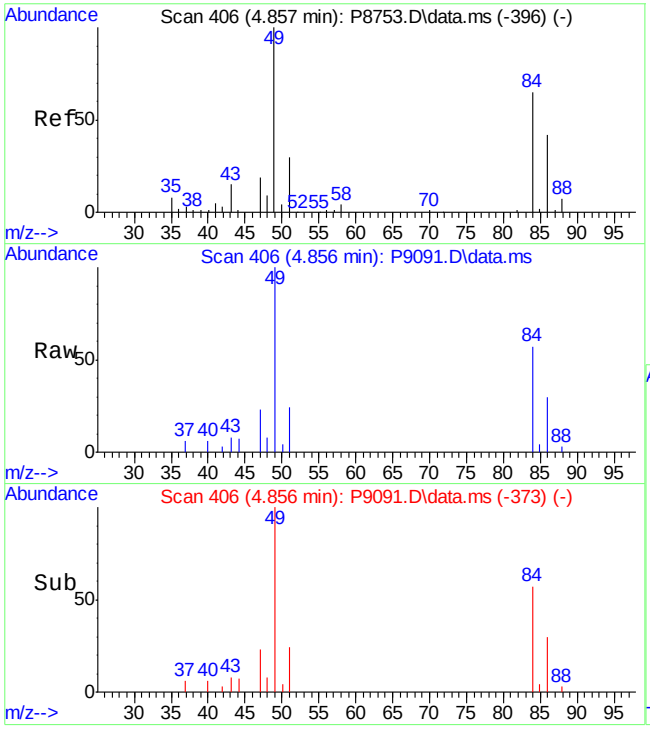
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9091.D
Acq On : 28 Jul 2012 8:14 pm
Operator : EileenG
Sample : F95274-7A,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:40:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

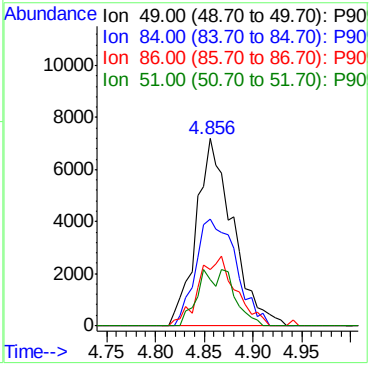


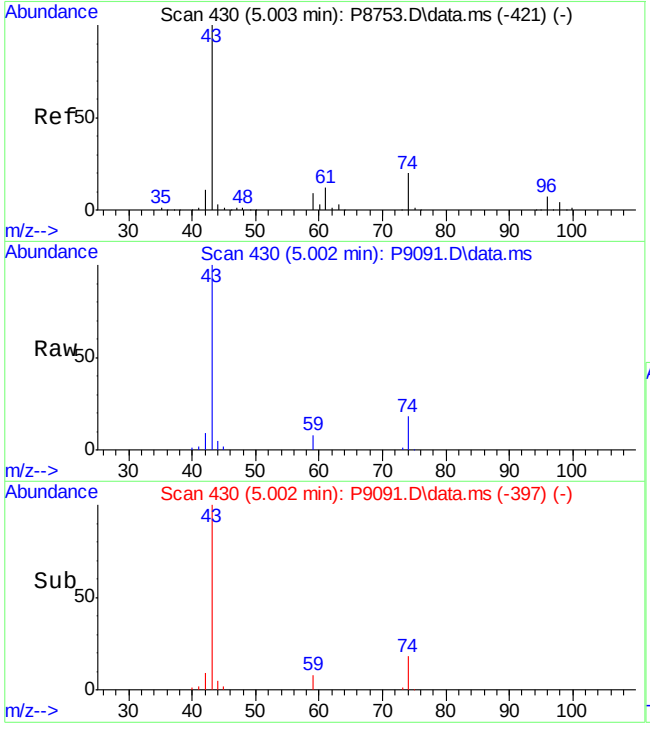


#14
Methylene Chloride
Concen: 3.35 ug/L
RT: 4.856 min Scan# 406
Delta R.T. -0.000 min
Lab File: P9091.D
Acq: 28 Jul 2012 8:14 pm

Tgt Ion: 49 Resp: 18623

Ion	Ratio	Lower	Upper
49	100		
84	57.0	34.9	94.9
86	29.8	11.8	71.8
51	24.3	0.4	60.4

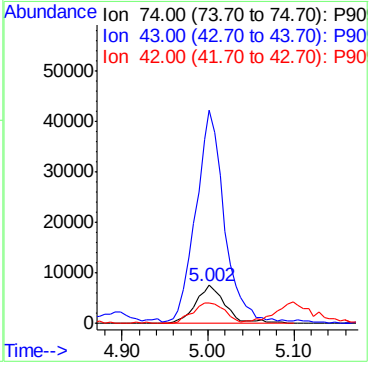


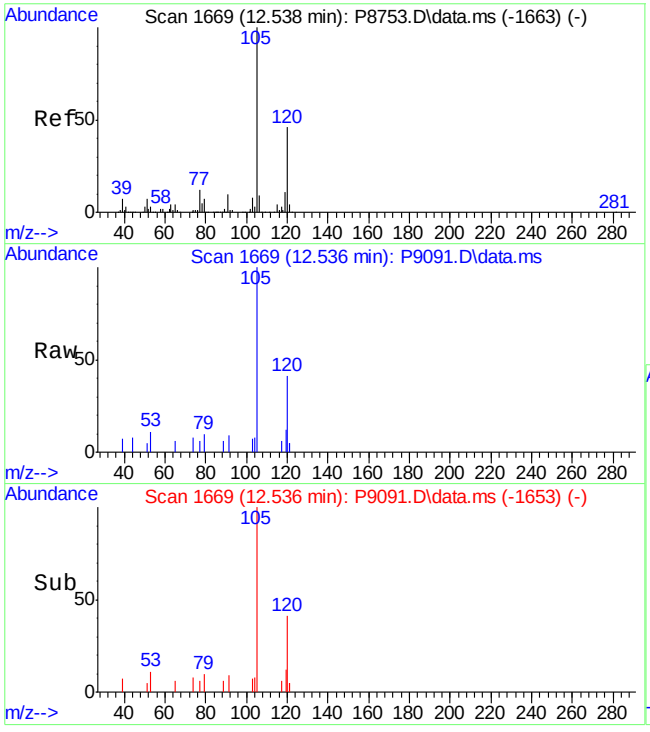


#16
Methyl acetate
Concen: 37.57 ug/L
RT: 5.002 min Scan# 430
Delta R.T. -0.001 min
Lab File: P9091.D
Acq: 28 Jul 2012 8:14 pm

Tgt Ion: 74 Resp: 18316

Ion	Ratio	Lower	Upper
74	100		
43	556.9	487.3	527.3#
42	53.0	34.4	74.4

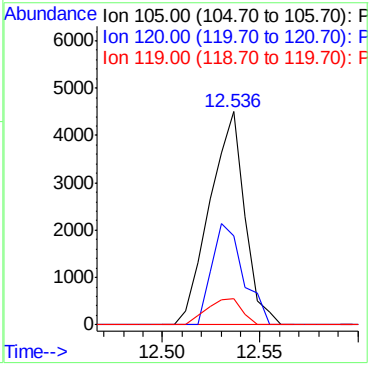


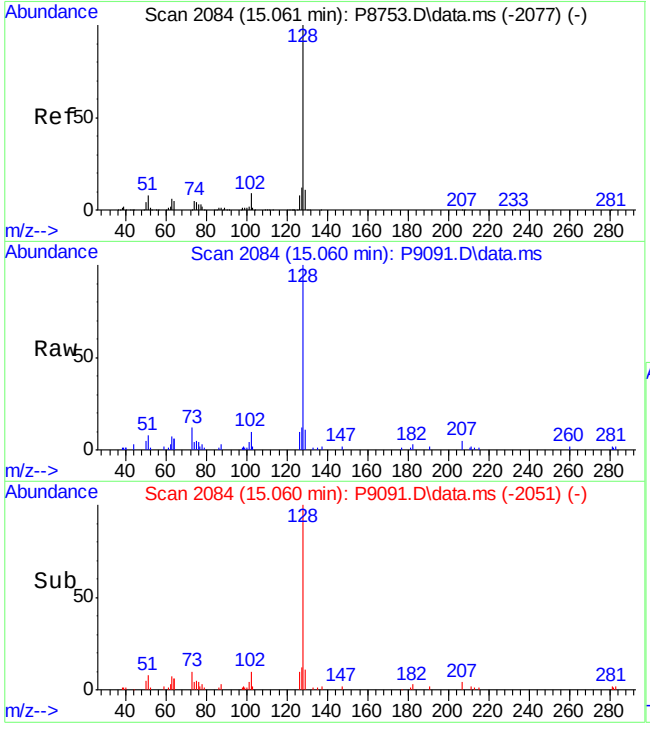


#80
1,2,4-Trimethylbenzene
Concen: 0.36 ug/L
RT: 12.536 min Scan# 1669
Delta R.T. -0.001 min
Lab File: P9091.D
Acq: 28 Jul 2012 8:14 pm

Tgt Ion:105 Resp: 5634

Ion	Ratio	Lower	Upper
105	100		
120	41.5	16.2	76.2
119	12.2	0.0	41.7

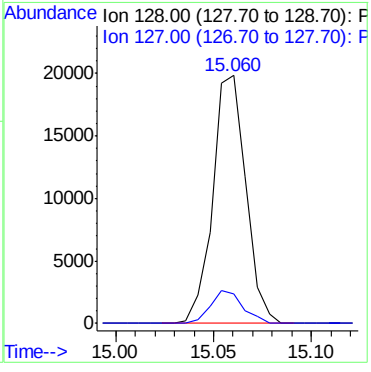




#91
Naphthalene
Concen: 1.78 ug/L
RT: 15.060 min Scan# 2084
Delta R.T. -0.001 min
Lab File: P9091.D
Acq: 28 Jul 2012 8:14 pm

Tgt Ion:128 Resp: 23460

Ion	Ratio	Lower	Upper
128	100		
127	11.9	0.0	42.2



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077069.D Vial: 10
Acq On : 27 Jul 2012 4:02 pm Operator: ericp
Sample : MB Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:41:50 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1081632	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.37	117	690607	50.00	ug/Kg	0.01
76) 1,4-Dichlorobenzene-d4	15.79	152	297165	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.35	65	39955	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	9.46	113	215804	43.54	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 87.08%			
44) 1,2-Dichloroethane-d4	9.87	65	248621	47.11	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 94.22%			
55) Toluene-d8	11.80	98	1023258	47.80	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.60%			
77) 4-Bromofluorobenzene	14.57	174	285342	48.64	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 97.28%			
Target Compounds						Qvalue
15) Methylene Chloride	7.44	49	11854	1.19	ug/Kg	87

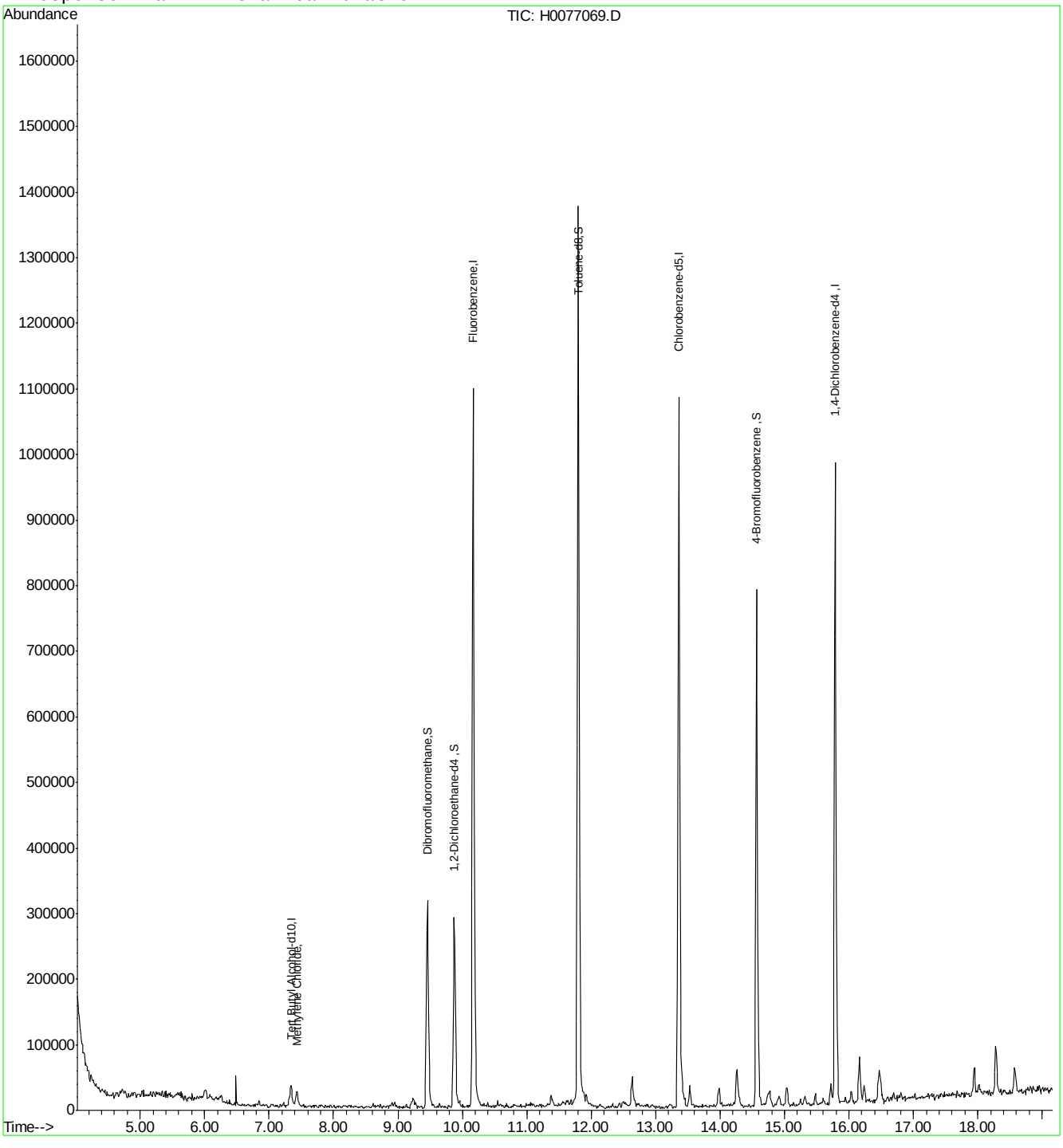
(#) = qualifier out of range (m) = manual integration (+) = signals summed

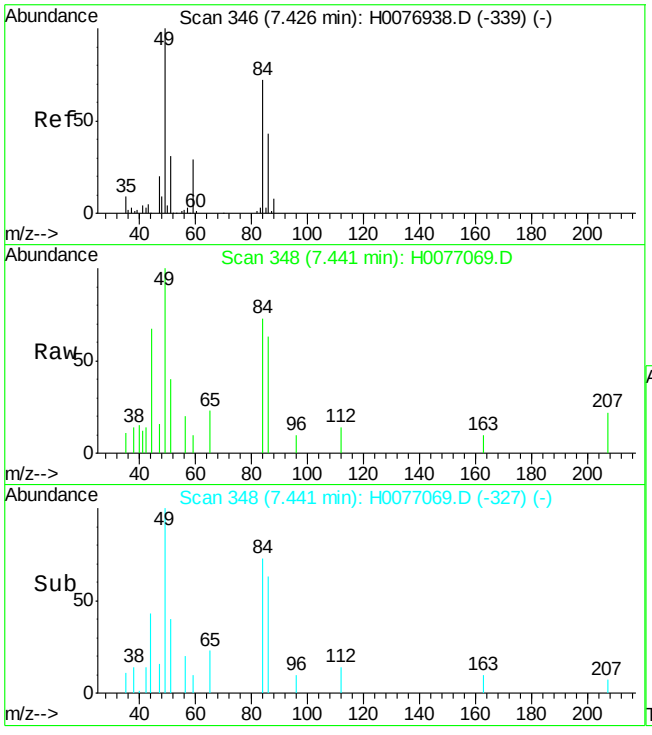
Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077069.D
Acq On : 27 Jul 2012 4:02 pm
Sample : MB
Misc : ms21569,vh2862,5.00,,,,,
MS Integration Params: rteint.p
Quant Time: Jul 30 6:46 2012

Vial: 10
Operator: ericp
Inst : MSVOA3
Multiplr: 1.00
Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration

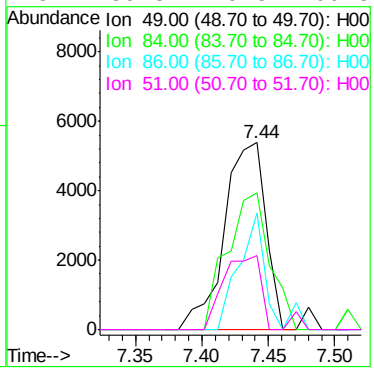




#15
Methylene Chloride
Concen: 1.19 ug/Kg
RT: 7.44 min Scan# 348
Delta R.T. 0.02 min
Lab File: H0077069.D
Acq: 27 Jul 2012 4:02 pm

Tgt Ion: 49 Resp: 11854

Ion	Ratio	Lower	Upper
49	100		
84	73.4	42.1	102.1
86	62.5	13.5	73.5
51	39.5	0.8	60.8



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9085.D
Acq On : 28 Jul 2012 5:53 pm
Operator : EileenG
Sample : OP42837-LB,10X
Misc : OP42837,VP367,,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 30 09:09:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

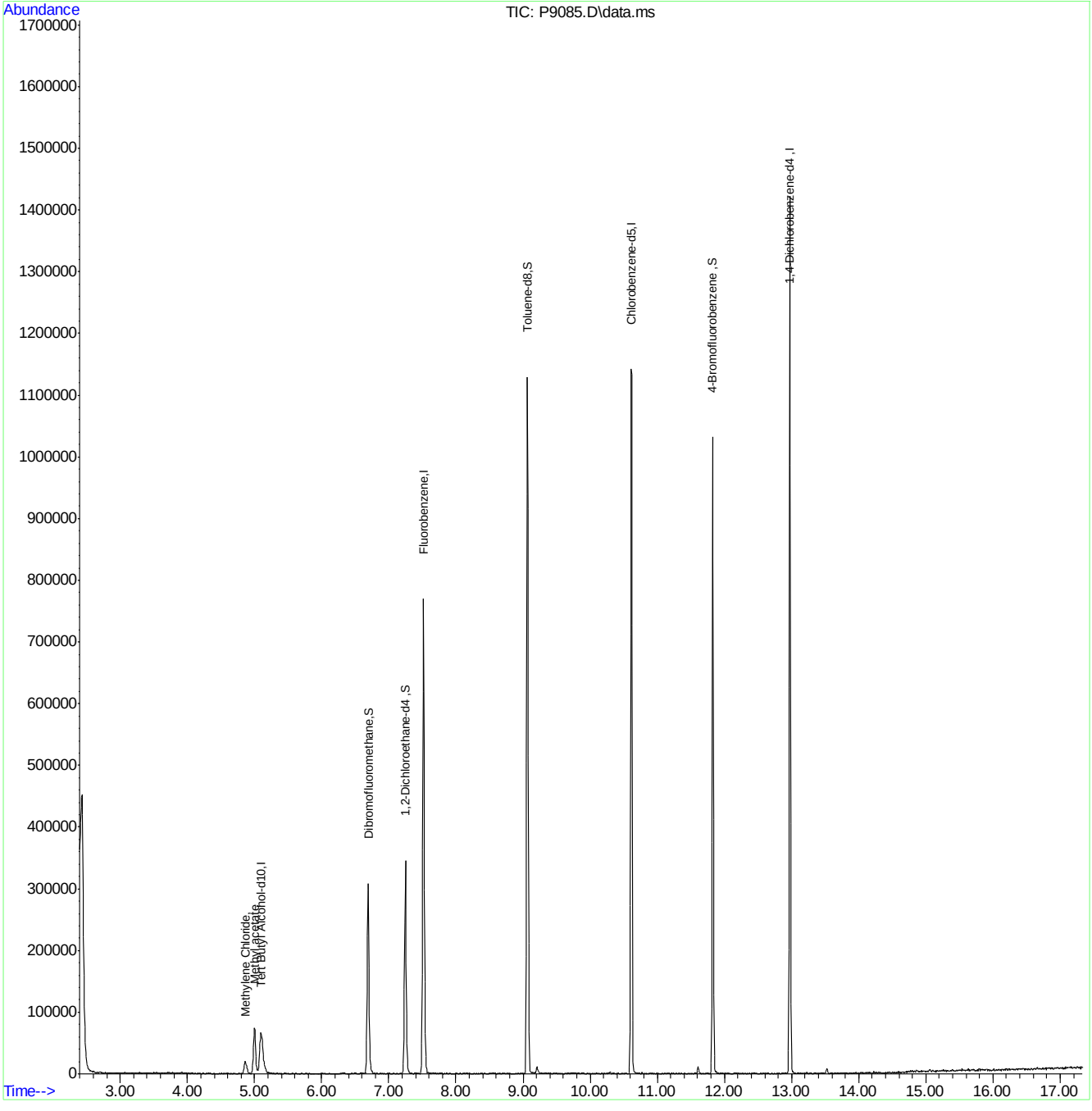
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.515	96	604670	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	513793	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.976	152	292581	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.094	65	121257	250.00	ug/L	-0.01
System Monitoring Compounds						
31) Dibromofluoromethane	6.694	113	181943	54.75	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 109.50%			
38) 1,2-Dichloroethane-d4	7.247	65	251246	62.40	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 124.80%			
48) Toluene-d8	9.065	98	590795	47.64	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 95.28%			
69) 4-Bromofluorobenzene	11.826	95	266638	50.00	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
14) Methylene Chloride	4.857	49	17835	3.13	ug/L	91
16) Methyl acetate	5.003	74	22261	44.49	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

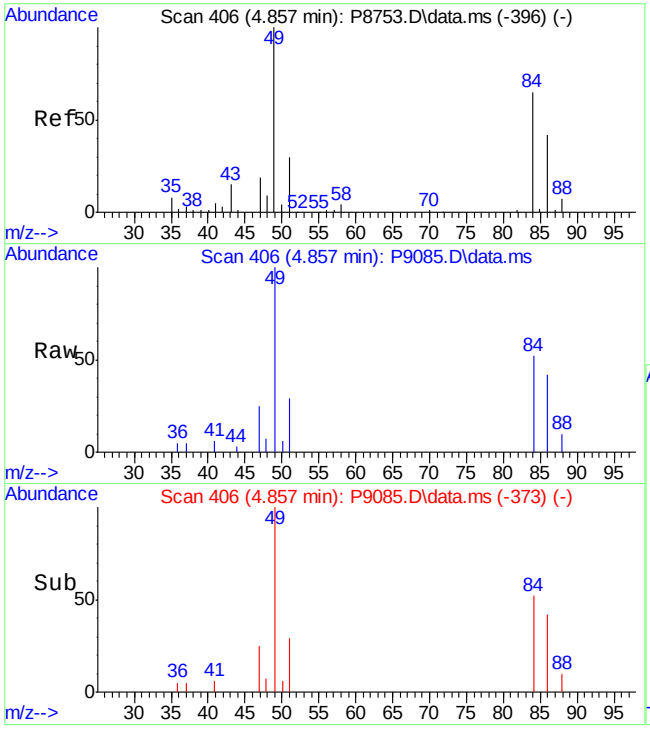
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9085.D
Acq On : 28 Jul 2012 5:53 pm
Operator : EileenG
Sample : OP42837-LB,10X
Misc : OP42837,VP367,,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 30 09:09:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



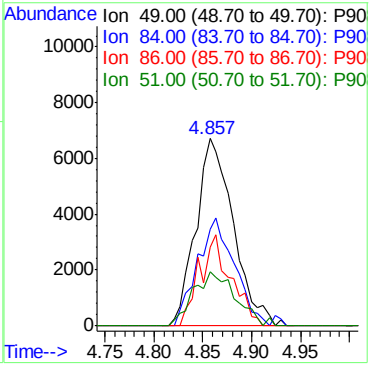
ACCUTEST LABORATORIES F95274

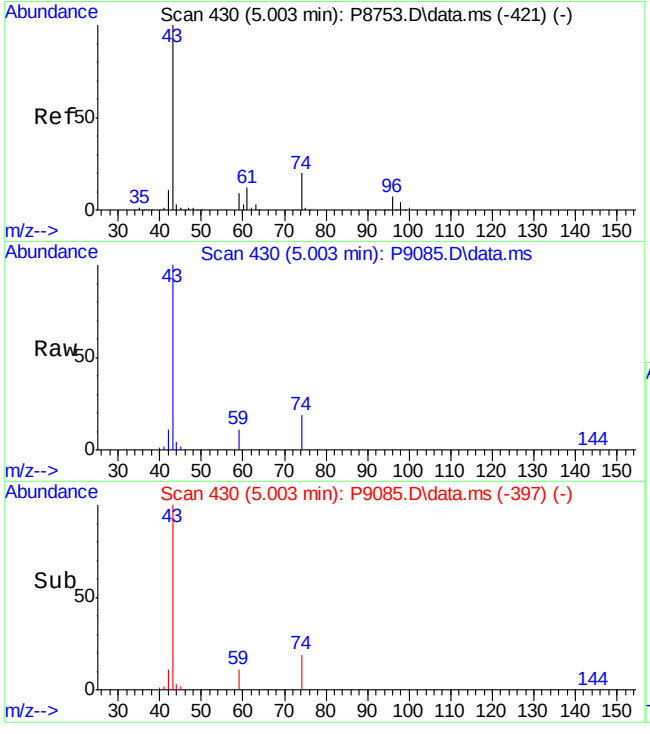


#14
Methylene Chloride
Concen: 3.13 ug/L
RT: 4.857 min Scan# 406
Delta R.T. 0.001 min
Lab File: P9085.D
Acq: 28 Jul 2012 5:53 pm

Tgt Ion: 49 Resp: 17835

Ion	Ratio	Lower	Upper
49	100		
84	51.6	34.9	94.9
86	41.9	11.8	71.8
51	28.7	0.4	60.4

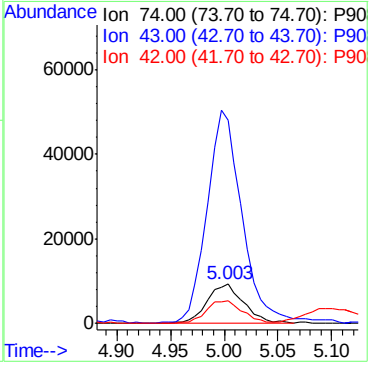




#16
Methyl acetate
Concen: 44.49 ug/L
RT: 5.003 min Scan# 430
Delta R.T. 0.000 min
Lab File: P9085.D
Acq: 28 Jul 2012 5:53 pm

Tgt Ion: 74 Resp: 22261

Ion	Ratio	Lower	Upper
74	100		
43	514.5	487.3	527.3
42	56.6	34.4	74.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9126.D
Acq On : 30 Jul 2012 9:01 pm
Operator : EileenG
Sample : OP42837-LB,10X
Misc : OP42837,VP370,,,,,10
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 31 09:28:54 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 17:57:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.515	96	391555	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	285766	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.976	152	145925	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.095	65	54907	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.694	113	96024	50.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 100.46%			
38) 1,2-Dichloroethane-d4	7.241	65	124492	49.58	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 99.16%			
48) Toluene-d8	9.066	98	378294	50.78	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 101.56%			
69) 4-Bromofluorobenzene	11.827	95	135436	50.27	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 100.54%			
Target Compounds						Qvalue
14) Methylene Chloride	4.851	49	57443	12.76	ug/L	97
16) Methyl acetate	4.997	74	11769	31.60	ug/L #	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

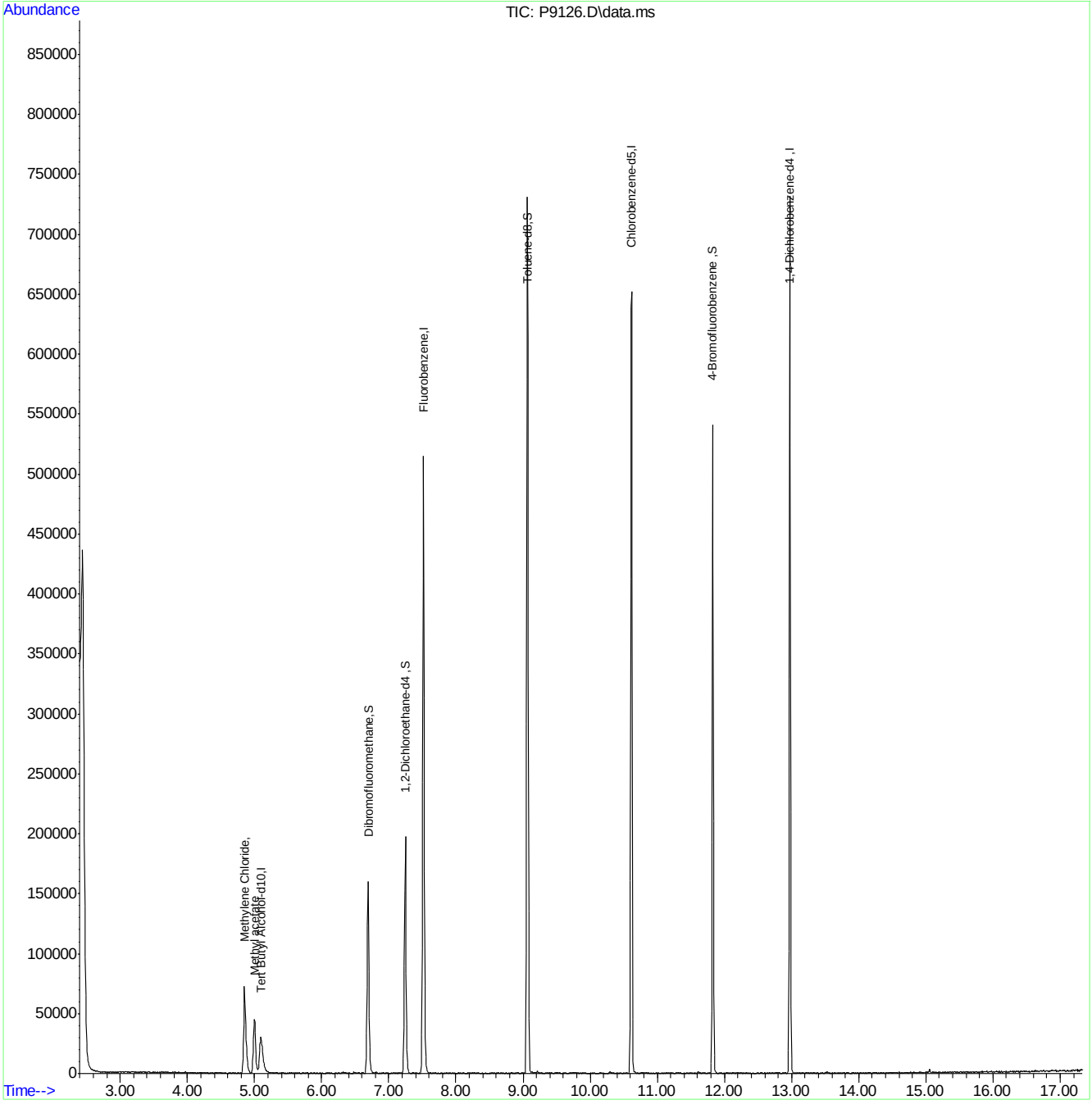
7.3.2

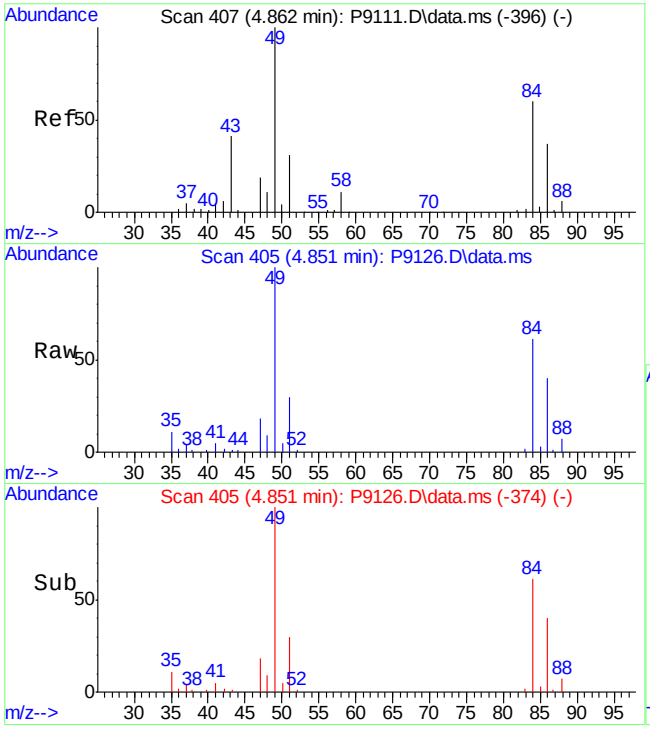
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9126.D
Acq On : 30 Jul 2012 9:01 pm
Operator : EileenG
Sample : OP42837-LB,10X
Misc : OP42837,VP370,,,,,10
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 31 09:28:54 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 17:57:13 2012
Response via : Initial Calibration

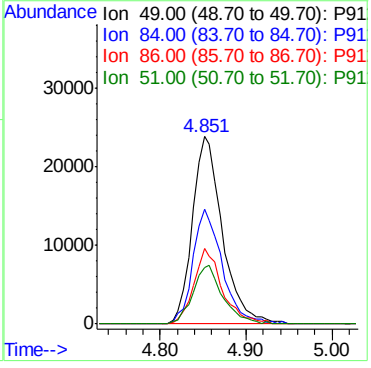


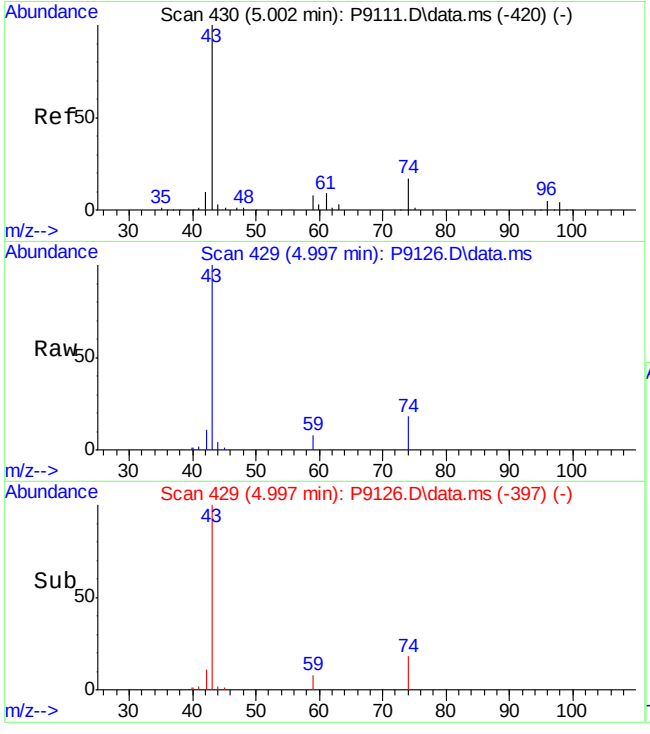


#14
Methylene Chloride
Concen: 12.76 ug/L
RT: 4.851 min Scan# 405
Delta R.T. -0.010 min
Lab File: P9126.D
Acq: 30 Jul 2012 9:01 pm

Tgt Ion: 49 Resp: 57443

Ion	Ratio	Lower	Upper
49	100		
84	61.2	29.5	89.5
86	40.0	7.3	67.3
51	29.8	0.5	60.5

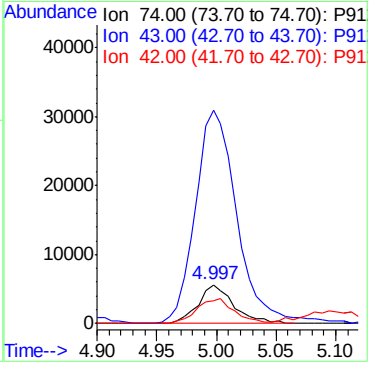




#16
Methyl acetate
Concen: 31.60 ug/L
RT: 4.997 min Scan# 429
Delta R.T. -0.004 min
Lab File: P9126.D
Acq: 30 Jul 2012 9:01 pm

Tgt Ion: 74 Resp: 11769

Ion	Ratio	Lower	Upper
74	100		
43	546.3	558.2	598.2#
42	59.9	40.2	80.2



7.3.2

7

ACCUTEST LABORATORIES F95274

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077068.D Vial: 9
Acq On : 27 Jul 2012 3:36 pm Operator: ericp
Sample : BS Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:41:11 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1111349	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	708349	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	324009	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	49928	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.46	113	234473	46.04	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 92.08%			
44) 1,2-Dichloroethane-d4	9.87	65	246296	45.43	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 90.86%			
55) Toluene-d8	11.80	98	1079366	49.16	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 98.32%			
77) 4-Bromofluorobenzene	14.57	174	320464	50.10	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 100.20%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.20	85	327085	59.11	ug/Kg	98
3) Chloromethane	4.58	50	478696	57.53	ug/Kg	99
4) Vinyl Chloride	4.79	62	414959	56.66	ug/Kg	92
5) Bromomethane	5.43	94	220626	54.61	ug/Kg	95
6) Chloroethane	5.58	64	225460	51.54	ug/Kg	95
7) Trichlorofluoromethane	5.93	101	455649	55.11	ug/Kg	99
8) Ethyl Ether	6.33	59	228546	49.83	ug/Kg	92
9) 1,2-Dichlorotrifluoroethan	6.39	67	446949	45.01	ug/Kg	95
10) 1,1-Dichloroethene	6.73	61	578091	52.20	ug/Kg	97
11) Freon 113	6.65	101	326285	48.12	ug/Kg	96
12) Carbon Disulfide	7.11	76	1019377	46.59	ug/Kg	97
13) Iodomethane	7.02	142	551782	46.92	ug/Kg	99
14) Allyl chloride	7.23	41	717886	56.11	ug/Kg	97
15) Methylene Chloride	7.43	49	495950	48.48	ug/Kg	94
16) Acetone	6.84	43	316439	249.43	ug/Kg	98
17) Methyl acetate	7.20	43	828301	255.75	ug/Kg	96
18) trans-1,2-Dichloroethene	7.72	61	609504	51.01	ug/Kg	93
19) Hexane	7.92	56	308844	52.54	ug/Kg	86
20) Methyl Tert Butyl Ether	7.65	73	674346	50.41	ug/Kg	96
21) Acetonitrile	7.31	41	190297	437.30	ug/Kg	98
22) Di-isopropyl ether	8.16	45	1372220	50.83	ug/Kg	97
23) Chloroprene	8.34	53	752339	56.61	ug/Kg	93
24) 1,1-Dichloroethane	8.28	63	734585	51.45	ug/Kg	97
25) Acrylonitrile	7.79	53	287003	269.29	ug/Kg	93
26) ETBE	8.58	59	1022890	49.12	ug/Kg	96
27) Vinyl acetate	8.23	43	1779470	227.74	ug/Kg	99
28) cis-1,2-Dichloroethene	8.96	96	382160	50.41	ug/Kg	95
29) 2,2-Dichloropropane	8.93	77	532180	53.24	ug/Kg	99
30) Bromochloromethane	9.24	128	146384	49.48	ug/Kg#	83
31) Cyclohexane	9.49	56	723515	51.43	ug/Kg	98
32) Chloroform	9.27	83	637835	51.14	ug/Kg	98
33) Ethyl acetate	8.89	70	107093	259.93	ug/Kg	98
34) Tetrahydrofuran	9.26	42	196141	51.63	ug/Kg#	53
36) Carbon Tetrachloride	9.64	117	443856	51.03	ug/Kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077068.D Vial: 9
Acq On : 27 Jul 2012 3:36 pm Operator: ericp
Sample : BS Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:41:11 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.48	97	531906	50.55 ug/Kg	95
38) 2-Butanone	8.92	72	96847	275.64 ug/Kg	90
39) 1,1-Dichloropropene	9.64	75	547306	52.17 ug/Kg	99
40) Propionitrile	9.08	54	236264	559.61 ug/Kg	97
41) Methacrylonitrile	9.21	41	1382550	554.49 ug/Kg	98
42) Benzene	9.88	78	1481387	51.11 ug/Kg	98
43) TAME	9.87	73	761999	49.11 ug/Kg	97
45) 1,2-Dichloroethane	9.96	62	393076	50.22 ug/Kg	97
46) Trichloroethene	10.54	95	389773	50.64 ug/Kg	95
47) Methylcyclohexane	10.70	83	656200	56.32 ug/Kg	95
48) Dibromomethane	10.99	93	132125	49.30 ug/Kg	94
49) 1,2-Dichloropropane	10.84	63	355378	50.84 ug/Kg	97
50) Bromodichloromethane	11.09	83	392504	50.55 ug/Kg	90
51) Methyl methacrylate	10.80	41	205300	52.45 ug/Kg	92
52) 2-Chloroethyl vinyl ether	11.33	63	463314	219.45 ug/Kg	96
53) cis-1,3-Dichloropropene	11.54	75	483367	53.28 ug/Kg	94
56) Toluene	11.87	91	1570126	53.14 ug/Kg	99
57) 2-Nitropropane	11.38	41	253125	235.15 ug/Kg	92
58) 4-Methyl-2-pentanone	11.63	43	1026534	279.03 ug/Kg	97
59) trans-1,3-Dichloropropene	12.13	75	385573	55.31 ug/Kg	95
60) Tetrachloroethene	12.44	166	517353	48.70 ug/Kg	95
61) Ethyl methacrylate	12.06	69	246310	44.35 ug/Kg	98
62) 1,1,2-Trichloroethane	12.33	83	175113	52.34 ug/Kg	97
63) Dibromochloromethane	12.76	129	227120	52.43 ug/Kg	92
64) 1,3-Dichloropropane	12.53	76	377858	51.59 ug/Kg	78
65) 1,2-Dibromoethane	12.94	107	181098	53.48 ug/Kg	85
66) 2-hexanone	12.48	43	676052	234.20 ug/Kg	99
67) 1-Chlorohexane	13.23	91	527654	54.80 ug/Kg	86
68) Ethylbenzene	13.41	91	1767433	53.01 ug/Kg	97
69) Chlorobenzene	13.39	112	908526	51.69 ug/Kg	95
70) 1,1,1,2-Tetrachloroethane	13.45	131	300795	52.43 ug/Kg	87
71) m,p-Xylene	13.52	91	2822868	105.59 ug/Kg	98
72) o-Xylene	13.97	91	1373126	53.30 ug/Kg	96
73) Styrene	13.99	104	905057	54.09 ug/Kg	98
74) Bromoform	14.28	173	124866	48.89 ug/Kg	90
75) Isopropylbenzene	14.31	105	1618659	62.29 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.45	53	74508	70.72 ug/Kg#	71
79) n-Propylbenzene	14.73	91	1877413	54.33 ug/Kg	99
80) Bromobenzene	14.77	156	358351	49.49 ug/Kg	92
81) 1,1,2,2-Tetrachloroethane	14.68	83	195954	51.47 ug/Kg	88
82) 1,3,5-Trimethylbenzene	14.90	105	1294588	51.25 ug/Kg	99
83) 2-Chlorotoluene	14.92	91	1296539	53.52 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	14.74	53	67657	54.88 ug/Kg#	72
85) 1,2,3-Trichloropropane	14.77	110	54605	51.56 ug/Kg	85
86) Cyclohexanone	14.56	55	29418	260.97 ug/Kg	89
87) 4-Chlorotoluene	15.03	91	1162389	55.15 ug/Kg	99
88) tert-Butylbenzene	15.25	91	836411	55.25 ug/Kg	98
89) 1,2,4-Trimethylbenzene	15.31	105	1276154	52.84 ug/Kg	99
90) Pentachloroethane	15.37	167	195413	77.33 ug/Kg	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077068.D Vial: 9
Acq On : 27 Jul 2012 3:36 pm Operator: ericp
Sample : BS Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:41:11 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:41:04 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

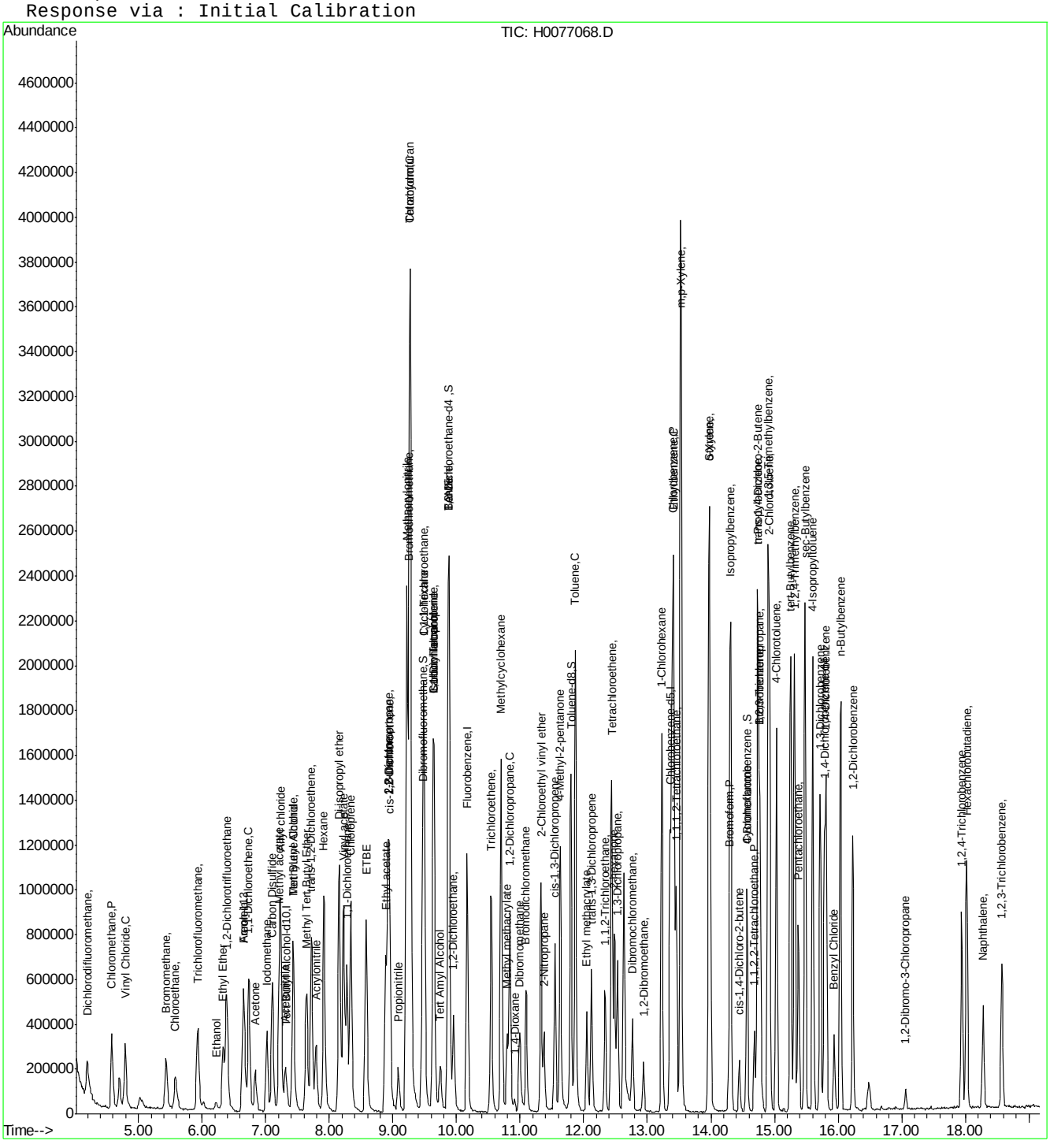
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	1710714	56.35	ug/Kg	97
92)	4-Isopropyltoluene	15.60	119	1264919	55.61	ug/Kg	96
93)	1,3-Dichlorobenzene	15.72	146	651555	51.05	ug/Kg	96
94)	1,4-Dichlorobenzene	15.82	146	661433	52.92	ug/Kg	99
95)	n-Butylbenzene	16.04	92	665025	54.47	ug/Kg	97
96)	Benzyl Chloride	15.94	126	54033	59.78	ug/Kg#	88
97)	1,2-Dichlorobenzene	16.23	146	573054	51.97	ug/Kg	99
98)	1,2-Dibromo-3-Chloropropan	17.07	75	24864	58.72	ug/Kg	81
99)	Hexachlorobutadiene	18.02	225	335383	55.67	ug/Kg	97
100)	1,2,4-Trichlorobenzene	17.94	180	346648	51.82	ug/Kg	96
101)	Naphthalene	18.28	128	444382	54.45	ug/Kg	91
102)	1,2,3-Trichlorobenzene	18.57	180	276807	51.41	ug/Kg	96
104)	Ethanol	6.22	45	44596	1228.79	ug/Kg	89
105)	Acrolein	6.65	56	87518	345.60	ug/Kg	81
106)	Tert Butyl Alcohol	7.44	59	251510	536.69	ug/Kg	81
107)	Isobutyl alcohol	9.64	42	91783	1167.67	ug/Kg#	58
108)	Tert Amyl Alcohol	9.74	59	136661	530.27	ug/Kg	85
109)	1,4-Dioxane	10.91	88	32138	1098.24	ug/Kg#	63

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077068.D Vial: 9
Acq On : 27 Jul 2012 3:36 pm Operator: ericp
Sample : BS Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:44 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 15:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 09:06:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	624281	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	538631	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	315484	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.106	65	126397	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.699	113	187809	54.74	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 109.48%			
38) 1,2-Dichloroethane-d4	7.247	65	253562	60.99	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 121.98%			
48) Toluene-d8	9.071	98	641561	49.35	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 98.70%			
69) 4-Bromofluorobenzene	11.826	95	276216	48.03	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 96.06%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.625	85	100650	24.98	ug/L	97
3) Chloromethane	2.862	50	117749	21.72	ug/L	95
4) Vinyl Chloride	2.996	62	103775	25.66	ug/L	93
5) Bromomethane	3.367	94	57366	23.94	ug/L	96
6) Chloroethane	3.495	64	56471	24.28	ug/L	91
7) Trichlorofluoromethane	3.695	101	141043m	26.64	ug/L	
8) Ethyl Ether	3.969	59	85809	26.00	ug/L	97
9) 1,2-Dichlorotrifluoroe...	4.212	67	105319	25.93	ug/L	98
10) 1,1-Dichloroethene	4.255	61	151916	30.73	ug/L	95
11) Freon 113	4.291	101	102914	28.57	ug/L	94
12) Carbon Disulfide	4.328	76	206819	18.96	ug/L	92
13) Iodomethane	4.431	142	157348	25.31	ug/L	93
14) Methylene Chloride	4.869	49	164213	28.41	ug/L	95
15) Acetone	4.893	58	46968	120.78	ug/L #	71
16) Methyl acetate	5.003	74	101283	196.06	ug/L	100
17) trans-1,2-Dichloroethene	5.027	61	145408	28.25	ug/L	94
18) Hexane	5.082	56	95457	25.99	ug/L	95
19) Methyl Tert Butyl Ether	5.131	73	312258	28.77	ug/L	94
20) Di-isopropyl ether	5.495	45	346996	24.81	ug/L	94
21) 1,1-Dichloroethane	5.678	63	178287	29.33	ug/L	99
22) Acrylonitrile	5.726	53	173567	139.76	ug/L	93
23) ETBE	5.891	59	344629	26.73	ug/L	98
24) Vinyl acetate	5.891	43	819197	148.14	ug/L	99
25) cis-1,2-Dichloroethene	6.243	96	96798	27.30	ug/L	98
26) 2,2-Dichloropropane	6.365	77	156195	30.21	ug/L	96
27) Bromochloromethane	6.450	128	52130	26.08	ug/L	86
28) Cyclohexane	6.474	56	188216	26.57	ug/L	97
29) Chloroform	6.505	83	185450	30.99	ug/L	99
30) Tetrahydrofuran	6.687	42	35511	30.70	ug/L	93
32) Carbon Tetrachloride	6.681	117	177334	34.22	ug/L	96
33) 1,1,1-Trichloroethane	6.748	97	183931	33.79	ug/L	97
34) 2-Butanone	6.809	43	272400	153.92	ug/L	96
35) 1,1-Dichloropropene	6.864	75	133854	30.57	ug/L	98
36) Benzene	7.119	78	347162	26.77	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 09:06:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.198	73	288374	27.11 ug/L	95
39) 1,2-Dichloroethane	7.320	62	162535	32.54 ug/L	97
40) Trichloroethene	7.691	95	100922	29.70 ug/L	95
41) Methylcyclohexane	7.697	83	168095	27.42 ug/L	99
42) Dibromomethane	8.123	93	62859	29.73 ug/L	96
43) 1,2-Dichloropropane	8.214	63	91879	25.88 ug/L	85
44) Bromodichloromethane	8.256	83	139439	29.50 ug/L	98
45) 2-Chloroethyl vinyl ether	8.791	63	260129	153.47 ug/L	97
46) cis-1,3-Dichloropropene	8.877	75	156261	27.70 ug/L	95
49) Toluene	9.120	91	397815	26.44 ug/L	99
50) 2-Nitropropane	9.345	41	182043	180.44 ug/L	98
51) 4-Methyl-2-pentanone	9.466	43	607980	158.61 ug/L	98
52) trans-1,3-Dichloropropene	9.515	75	157500	29.70 ug/L	98
53) Tetrachloroethene	9.509	166	115920	29.86 ug/L	96
54) 1,1,2-Trichloroethane	9.679	83	72467	26.70 ug/L	96
55) Dibromochloromethane	9.868	129	118536	28.50 ug/L	92
56) 1,3-Dichloropropane	9.959	76	149950	26.30 ug/L	89
57) 1,2-Dibromoethane	10.129	107	99462	27.89 ug/L	98
58) 2-hexanone	10.281	43	456271	166.74 ug/L	94
59) 1-Chlorohexane	10.573	91	140489	25.46 ug/L	93
60) Ethylbenzene	10.634	91	492379	27.87 ug/L	100
61) Chlorobenzene	10.634	112	288071	27.74 ug/L	98
62) 1,1,1,2-Tetrachloroethane	10.683	131	118191	28.91 ug/L	97
63) m,p-Xylene	10.774	91	777132	58.49 ug/L	98
64) o-Xylene	11.212	91	401963	28.58 ug/L	93
65) Styrene	11.267	104	309213	26.85 ug/L	98
66) Bromoform	11.315	173	83028	30.14 ug/L	97
67) Isopropylbenzene	11.522	105	531265	33.97 ug/L	99
70) n-Propylbenzene	11.942	91	597648	27.92 ug/L	99
71) Bromobenzene	11.954	156	138513	26.77 ug/L	90
72) 1,1,2,2-Tetrachloroethane	12.002	83	125007	26.67 ug/L	95
73) 1,3,5-Trimethylbenzene	12.124	105	468278	27.60 ug/L	94
74) 2-Chlorotoluene	12.124	91	412301	27.67 ug/L	99
75) trans-1,4-Dichloro-2-B...	12.191	53	21366	28.59 ug/L #	85
76) 1,2,3-Trichloropropane	12.167	110	45950	30.89 ug/L	95
77) Cyclohexanone	12.234	55	19231	141.17 ug/L	95
78) 4-Chlorotoluene	12.288	91	385074	28.15 ug/L	99
79) tert-Butylbenzene	12.465	91	275384	30.67 ug/L	99
80) 1,2,4-Trimethylbenzene	12.531	105	473571	27.83 ug/L	94
81) sec-Butylbenzene	12.647	105	607373	29.22 ug/L	99
82) 4-Isopropyltoluene	12.781	119	504885	30.09 ug/L	96
83) 1,3-Dichlorobenzene	12.902	146	269751	27.41 ug/L	97
84) 1,4-Dichlorobenzene	12.994	146	281740	27.45 ug/L	98
85) n-Butylbenzene	13.219	92	267324	27.63 ug/L	92
86) Benzyl Chloride	13.237	126	55778	24.55 ug/L #	89
87) 1,2-Dichlorobenzene	13.425	146	264245	27.95 ug/L	97
88) 1,2-Dibromo-3-Chloropr...	14.180	75	29003	32.04 ug/L	96
89) Hexachlorobutadiene	14.733	225	99792	32.07 ug/L	97
90) 1,2,4-Trichlorobenzene	14.776	180	189216	28.64 ug/L	95
91) Naphthalene	15.055	128	447168	30.99 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 09:06:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	171935	29.75 ug/L	97
94) acrolein	4.601	56	33226	137.09 ug/L	98
95) Tert Butyl Alcohol	5.185	59	167341	258.56 ug/L	79
96) tert Amyl alcohol	7.350	59	129055	254.18 ug/L	94
97) 1,4-Dioxane	8.451	88	24293	409.02 ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

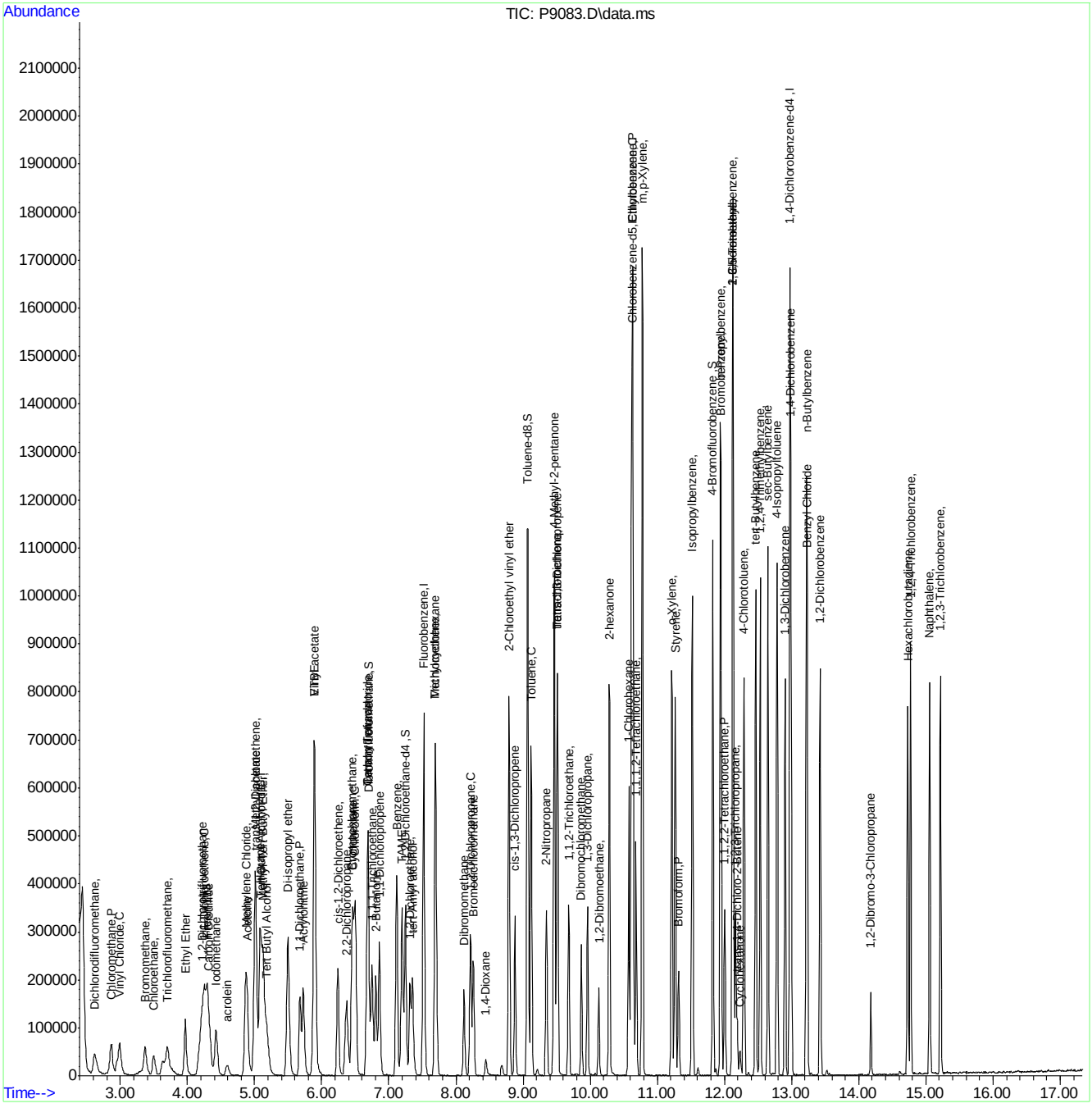
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 09:06:44 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

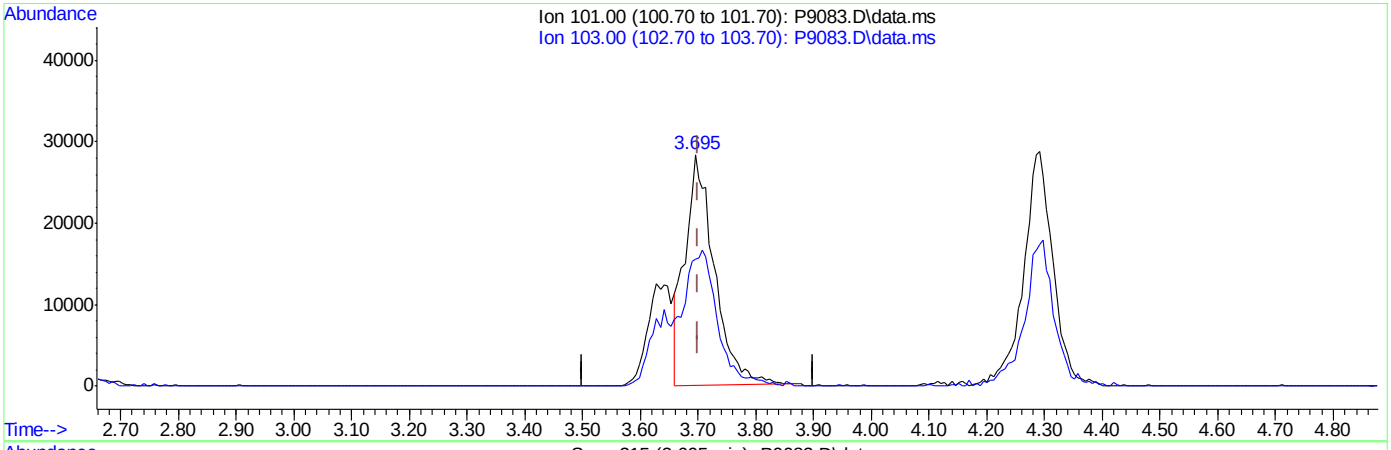
Sample Number:	VP367-BS	**Method:**	SW846 8260B
Lab FileID:	P9083.D	**Analyst approved:**	07/30/12 13:59 Eileen Grekoski
Injection Time:	07/28/12 17:06	**Supervisor approved:**	07/30/12 15:17 Juan Garcia

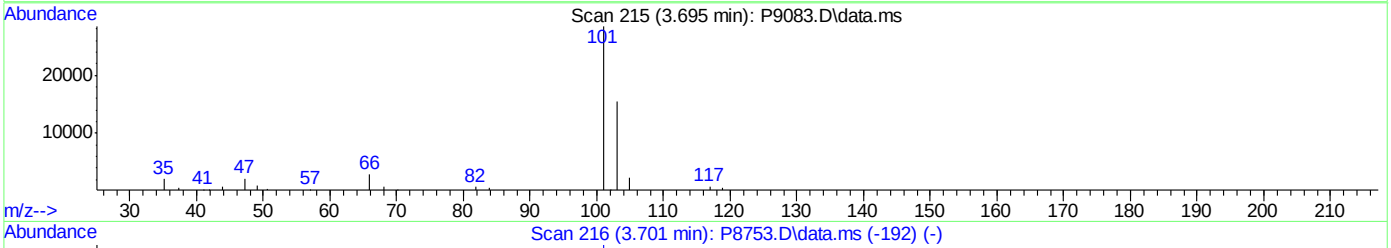
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

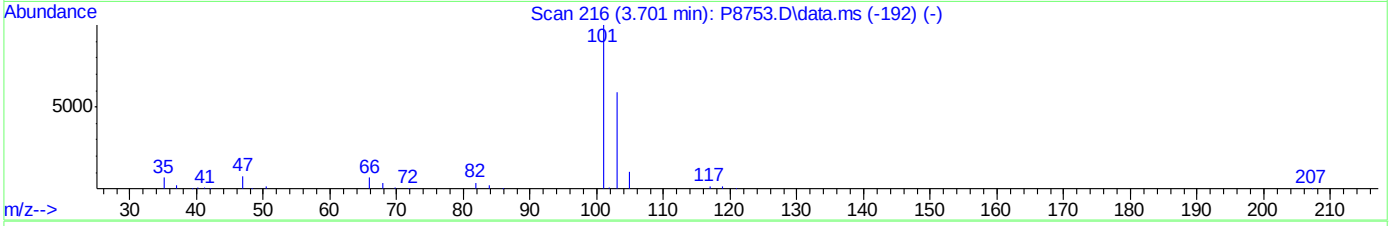
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:21:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration







TIC: P9083.D\data.ms

(7) Trichlorofluoromethane ( )

3.695min (-0.006) 18.81ug/L

response 99307

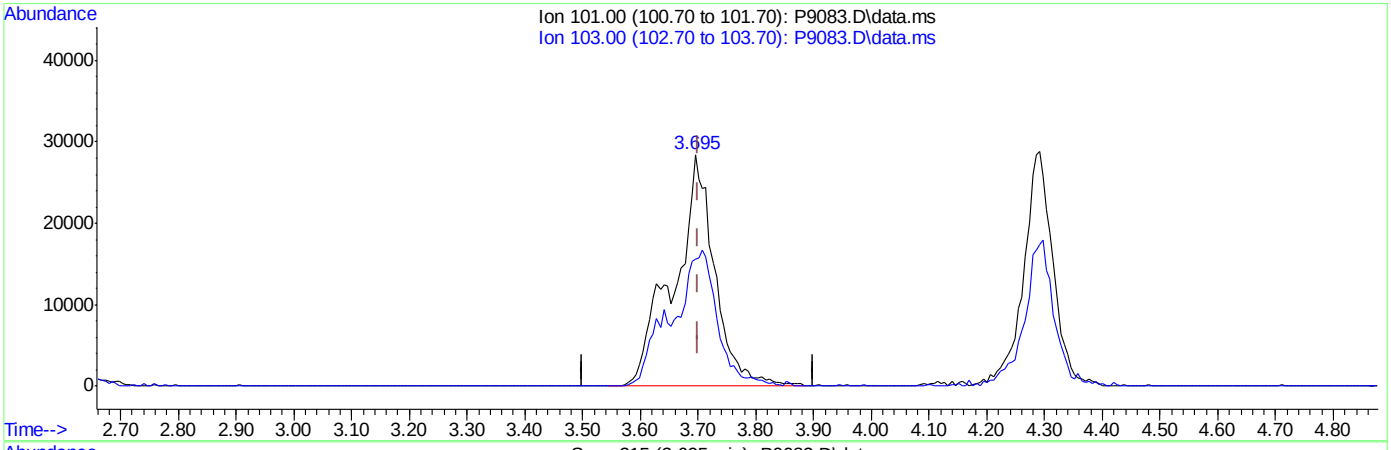
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	55.37
0.00	0.00	0.00
0.00	0.00	0.00

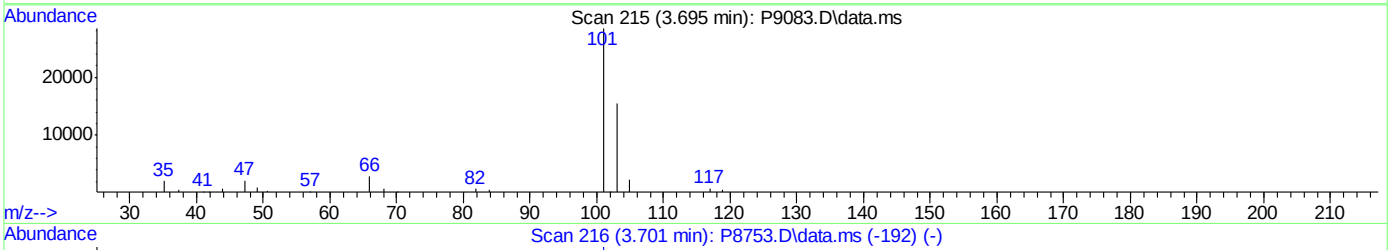
ACCUTEST LABORATORIES F95274

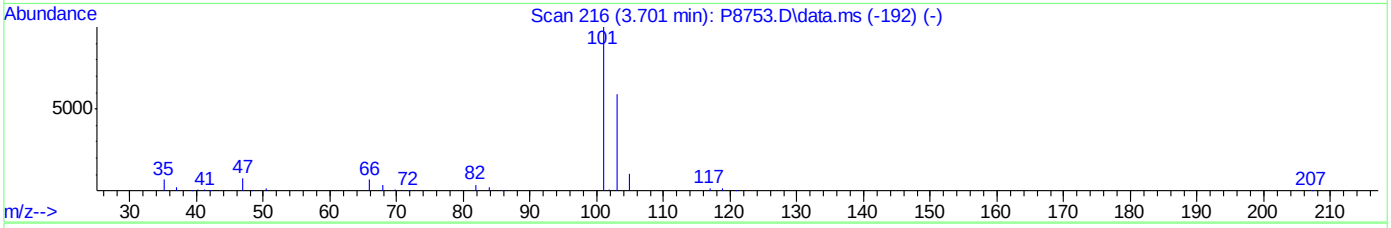
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9083.D
Acq On : 28 Jul 2012 5:06 pm
Operator : EileenG
Sample : BS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:21:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration







TIC: P9083.D\data.ms

(7) Trichlorofluoromethane ( )

3.695min (-0.006) 26.64ug/L m

response 141043

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	54.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077076.D Vial: 17
Acq On : 27 Jul 2012 7:06 pm Operator: ericp
Sample : F95274-4MS Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:45:56 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1259795	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	852883	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	413777	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	79510	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.46	113	291318	50.46	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 100.92%			
44) 1,2-Dichloroethane-d4	9.87	65	330437	53.76	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 107.52%			
55) Toluene-d8	11.80	98	1199006	45.35	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 90.70%			
77) 4-Bromofluorobenzene	14.57	174	381888	46.75	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 93.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.19	85	290062	46.24	ug/Kg	96
3) Chloromethane	4.59	50	417111	44.22	ug/Kg	91
4) Vinyl Chloride	4.79	62	351982	42.40	ug/Kg	95
5) Bromomethane	5.44	94	224315	48.98	ug/Kg	97
6) Chloroethane	5.60	64	203404	41.02	ug/Kg	95
7) Trichlorofluoromethane	5.93	101	419193	44.72	ug/Kg	98
8) Ethyl Ether	6.33	59	254960	49.04	ug/Kg	83
9) 1,2-Dichlorotrifluoroethan	6.39	67	405745	36.05	ug/Kg	94
10) 1,1-Dichloroethene	6.73	61	498960	39.75	ug/Kg	97
11) Freon 113	6.66	101	287501	37.41	ug/Kg	92
12) Carbon Disulfide	7.11	76	928122	37.42	ug/Kg	98
13) Iodomethane	7.02	142	571941	42.90	ug/Kg	97
14) Allyl chloride	7.24	41	613872	42.33	ug/Kg	93
15) Methylene Chloride	7.43	49	612746	52.84	ug/Kg	94
16) Acetone	6.84	43	421086	292.80	ug/Kg	100
17) Methyl acetate	7.22	43	1090594	297.05	ug/Kg	98
18) trans-1,2-Dichloroethene	7.72	61	550313	40.63	ug/Kg	96
19) Hexane	7.91	56	236653	35.52	ug/Kg	88
20) Methyl Tert Butyl Ether	7.65	73	780325	51.46	ug/Kg	99
21) Acetonitrile	7.31	41	225008	456.13	ug/Kg	95
22) Di-isopropyl ether	8.16	45	1299870	42.47	ug/Kg	97
23) Chloroprene	8.34	53	645027	42.82	ug/Kg	97
24) 1,1-Dichloroethane	8.28	63	671353	41.48	ug/Kg	98
25) Acrylonitrile	7.80	53	379986	314.52	ug/Kg	96
26) ETBE	8.58	59	1046090	44.32	ug/Kg	97
27) Vinyl acetate	8.23	43	1803624	203.63	ug/Kg	99
28) cis-1,2-Dichloroethene	8.95	96	385044	44.80	ug/Kg	97
29) 2,2-Dichloropropane	8.93	77	451437	39.84	ug/Kg	99
30) Bromochloromethane	9.23	128	181101	54.01	ug/Kg#	83
31) Cyclohexane	9.49	56	565106	35.44	ug/Kg	96
32) Chloroform	9.27	83	654491	46.29	ug/Kg	98
33) Ethyl acetate	8.88	70	142446	305.00	ug/Kg	97
34) Tetrahydrofuran	9.23	42	115483	26.82	ug/Kg#	80
36) Carbon Tetrachloride	9.64	117	419408	42.54	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077076.D Vial: 17
Acq On : 27 Jul 2012 7:06 pm Operator: ericp
Sample : F95274-4MS Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:45:56 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.48	97	493611	41.39 ug/Kg	95
38) 2-Butanone	8.92	72	130579	327.85 ug/Kg	85
39) 1,1-Dichloropropene	9.65	75	497112	41.80 ug/Kg	98
40) Propionitrile	9.09	54	318387	665.26 ug/Kg	99
41) Methacrylonitrile	9.21	41	1754259	620.66 ug/Kg	96
42) Benzene	9.88	78	1385233	42.16 ug/Kg	98
43) TAME	9.87	73	873663	49.67 ug/Kg	95
45) 1,2-Dichloroethane	9.95	62	458660	51.69 ug/Kg	96
46) Trichloroethene	10.55	95	360346	41.30 ug/Kg	95
47) Methylcyclohexane	10.70	83	494531	37.45 ug/Kg	97
48) Dibromomethane	11.00	93	164231	54.06 ug/Kg	92
49) 1,2-Dichloropropane	10.84	63	347259	43.82 ug/Kg	95
50) Bromodichloromethane	11.09	83	444280	50.48 ug/Kg	97
51) Methyl methacrylate	10.80	41	249639	56.26 ug/Kg	94
52) 2-Chloroethyl vinyl ether	11.33	63	671445	280.55 ug/Kg	97
53) cis-1,3-Dichloropropene	11.55	75	509535	49.54 ug/Kg	99
56) Toluene	11.87	91	1492362	41.95 ug/Kg	99
57) 2-Nitropropane	11.38	41	338590	261.24 ug/Kg	82
58) 4-Methyl-2-pentanone	11.63	43	1330027	300.25 ug/Kg	99
59) trans-1,3-Dichloropropene	12.13	75	429594	51.18 ug/Kg	96
60) Tetrachloroethene	12.44	166	513103	40.12 ug/Kg	96
61) Ethyl methacrylate	12.05	69	294206	44.00 ug/Kg	97
62) 1,1,2-Trichloroethane	12.33	83	209271	51.95 ug/Kg	90
63) Dibromochloromethane	12.77	129	279628	53.61 ug/Kg	86
64) 1,3-Dichloropropane	12.53	76	462032	52.39 ug/Kg#	70
65) 1,2-Dibromoethane	12.94	107	223291	54.77 ug/Kg	85
66) 2-hexanone	12.48	43	877208	252.39 ug/Kg	98
67) 1-Chlorohexane	13.23	91	442906	38.20 ug/Kg	96
68) Ethylbenzene	13.42	91	1658885	41.32 ug/Kg	97
69) Chlorobenzene	13.40	112	940686	44.45 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.46	131	323347	46.81 ug/Kg	93
71) m,p-Xylene	13.52	91	2670629	82.96 ug/Kg	97
72) o-Xylene	13.97	91	1326994	42.78 ug/Kg	97
73) Styrene	13.99	104	939798	46.65 ug/Kg	99
74) Bromoform	14.28	173	167634	54.51 ug/Kg	97
75) Isopropylbenzene	14.31	105	1444152	46.16 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.45	53	80567	59.88 ug/Kg	91
79) n-Propylbenzene	14.73	91	1703931	38.61 ug/Kg	96
80) Bromobenzene	14.77	156	400217	43.28 ug/Kg	90
81) 1,1,2,2-Tetrachloroethane	14.69	83	270794	55.70 ug/Kg	88
82) 1,3,5-Trimethylbenzene	14.90	105	1227580	38.05 ug/Kg	98
83) 2-Chlorotoluene	14.92	91	1242374	40.16 ug/Kg	94
84) trans-1,4-Dichloro-2-Buten	14.74	53	88853	56.43 ug/Kg	99
85) 1,2,3-Trichloropropane	14.78	110	78412	57.98 ug/Kg#	78
86) Cyclohexanone	14.56	55	34326	238.45 ug/Kg#	82
87) 4-Chlorotoluene	15.03	91	1119767	41.60 ug/Kg	99
88) tert-Butylbenzene	15.26	91	731104	37.82 ug/Kg	95
89) 1,2,4-Trimethylbenzene	15.32	105	1210093	39.24 ug/Kg	99
90) Pentachloroethane	15.37	167	200601	62.16 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077076.D Vial: 17
Acq On : 27 Jul 2012 7:06 pm Operator: ericp
Sample : F95274-4MS Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:45:56 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

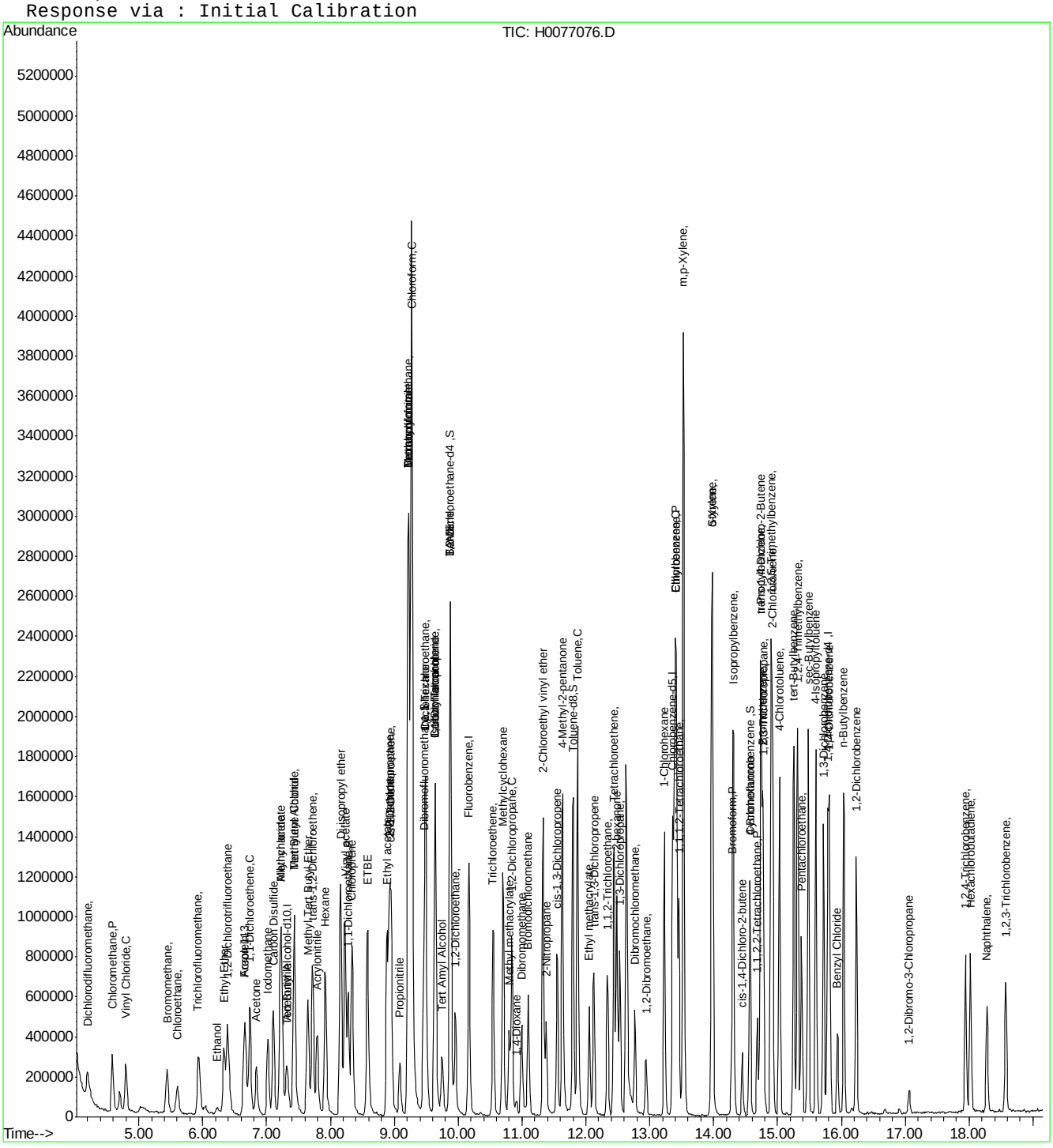
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	1469654	37.91	ug/Kg	100
92)	4-Isopropyltoluene	15.60	119	1112455	38.30	ug/Kg	99
93)	1,3-Dichlorobenzene	15.72	146	689593	42.30	ug/Kg	96
94)	1,4-Dichlorobenzene	15.82	146	706159	44.24	ug/Kg	98
95)	n-Butylbenzene	16.03	92	554276	35.55	ug/Kg	94
96)	Benzyl Chloride	15.95	126	61703	53.45	ug/Kg	91
97)	1,2-Dichlorobenzene	16.23	146	607710	43.16	ug/Kg	98
98)	1,2-Dibromo-3-Chloropropan	17.06	75	30382	56.18	ug/Kg	86
99)	Hexachlorobutadiene	18.02	225	234314	30.46	ug/Kg	98
100)	1,2,4-Trichlorobenzene	17.94	180	325983	38.16	ug/Kg	89
101)	Naphthalene	18.28	128	497349	47.72	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.57	180	274647	39.94	ug/Kg	93
104)	Ethanol	6.23	45	50400	872.03	ug/Kg	91
105)	Acrolein	6.65	56	101261	251.09	ug/Kg	97
106)	Tert Butyl Alcohol	7.44	59	310589	416.18	ug/Kg	90
107)	Isobutyl alcohol	9.64	42	132349	1057.31	ug/Kg	93
108)	Tert Amyl Alcohol	9.76	59	179808	438.11	ug/Kg	92
109)	1,4-Dioxane	10.92	88	48257	1035.53	ug/Kg	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077076.D Vial: 17
Acq On : 27 Jul 2012 7:06 pm Operator: ericp
Sample : F95274-4MS Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 6:49 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077077.D Vial: 18
Acq On : 27 Jul 2012 7:32 pm Operator: ericp
Sample : F95274-4MSD Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:46:15 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1077306	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	735369	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	333804	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	49859	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.46	113	234535	47.51	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 95.02%			
44) 1,2-Dichloroethane-d4	9.87	65	247589	47.11	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 94.22%			
55) Toluene-d8	11.80	98	1075890	47.20	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 94.40%			
77) 4-Bromofluorobenzene	14.57	174	302565	45.91	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 91.82%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.19	85	252743	47.12	ug/Kg	94
3) Chloromethane	4.58	50	373615	46.32	ug/Kg	93
4) Vinyl Chloride	4.79	62	336436	47.39	ug/Kg	96
5) Bromomethane	5.43	94	199084	50.83	ug/Kg	97
6) Chloroethane	5.58	64	182058	42.94	ug/Kg	99
7) Trichlorofluoromethane	5.94	101	380704	47.50	ug/Kg	91
8) Ethyl Ether	6.33	59	186842	42.02	ug/Kg	94
9) 1,2-Dichlorotrifluoroethan	6.39	67	385087	40.01	ug/Kg	93
10) 1,1-Dichloroethene	6.73	61	465697	43.38	ug/Kg	96
11) Freon 113	6.65	101	259713	39.52	ug/Kg	94
12) Carbon Disulfide	7.11	76	843284	39.76	ug/Kg	100
13) Iodomethane	7.02	142	473996	41.58	ug/Kg	97
14) Allyl chloride	7.23	41	530688	42.79	ug/Kg	96
15) Methylene Chloride	7.43	49	474090	47.81	ug/Kg	94
16) Acetone	6.84	43	253315	205.98	ug/Kg	97
17) Methyl acetate	7.21	43	620647	197.69	ug/Kg	98
18) trans-1,2-Dichloroethene	7.72	61	466376	40.26	ug/Kg	99
19) Hexane	7.91	56	216729	38.03	ug/Kg	90
20) Methyl Tert Butyl Ether	7.65	73	537598	41.46	ug/Kg	97
21) Acetonitrile	7.31	41	154304	365.79	ug/Kg	87
22) Di-isopropyl ether	8.16	45	1050547	40.14	ug/Kg	99
23) Chloroprene	8.34	53	569684	44.22	ug/Kg	95
24) 1,1-Dichloroethane	8.28	63	583885	42.19	ug/Kg	99
25) Acrylonitrile	7.80	53	212615	205.80	ug/Kg	85
26) ETBE	8.58	59	811120	40.19	ug/Kg	96
27) Vinyl acetate	8.23	43	1252926	165.42	ug/Kg	98
28) cis-1,2-Dichloroethene	8.95	96	296520	40.35	ug/Kg	97
29) 2,2-Dichloropropane	8.93	77	430522	44.43	ug/Kg	95
30) Bromochloromethane	9.24	128	124747	43.50	ug/Kg	98
31) Cyclohexane	9.49	56	507026	37.18	ug/Kg	97
32) Chloroform	9.26	83	523883	43.33	ug/Kg	96
33) Ethyl acetate	8.88	70	86359	216.23	ug/Kg	89
34) Tetrahydrofuran	9.26	42	157140	42.67	ug/Kg#	57
36) Carbon Tetrachloride	9.63	117	380394	45.12	ug/Kg	89

(#) = qualifier out of range (m) = manual integration
H0077077.D 072712APP9-H.M Mon Jul 30 08:44:31 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077077.D Vial: 18
Acq On : 27 Jul 2012 7:32 pm Operator: ericp
Sample : F95274-4MSD Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:46:15 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	1,1,1-Trichloroethane	9.48	97	458867	44.99 ug/Kg	92
38)	2-Butanone	8.92	72	72873	213.96 ug/Kg	89
39)	1,1-Dichloropropene	9.65	75	426417	41.93 ug/Kg	94
40)	Propionitrile	9.08	54	181268	442.91 ug/Kg	89
41)	Methacrylonitrile	9.21	41	1077783	445.92 ug/Kg	99
42)	Benzene	9.88	78	1221273	43.47 ug/Kg	98
43)	TAME	9.87	73	606738	40.34 ug/Kg	95
45)	1,2-Dichloroethane	9.96	62	340812	44.92 ug/Kg	96
46)	Trichloroethene	10.54	95	318066	42.63 ug/Kg	97
47)	Methylcyclohexane	10.70	83	441692	39.11 ug/Kg	98
48)	Dibromomethane	10.99	93	115201	44.35 ug/Kg	93
49)	1,2-Dichloropropane	10.84	63	283296	41.81 ug/Kg	96
50)	Bromodichloromethane	11.09	83	324893	43.17 ug/Kg	94
51)	Methyl methacrylate	10.80	41	150549	39.68 ug/Kg	95
52)	2-Chloroethyl vinyl ether	11.33	63	372509	182.01 ug/Kg	98
53)	cis-1,3-Dichloropropene	11.56	75	386700	43.97 ug/Kg	96
56)	Toluene	11.87	91	1282000	41.79 ug/Kg	99
57)	2-Nitropropane	11.38	41	193461	173.12 ug/Kg	92
58)	4-Methyl-2-pentanone	11.63	43	799945	209.45 ug/Kg	97
59)	trans-1,3-Dichloropropene	12.13	75	288031	39.80 ug/Kg	92
60)	Tetrachloroethene	12.44	166	447359	40.56 ug/Kg	99
61)	Ethyl methacrylate	12.06	69	192535	33.39 ug/Kg	97
62)	1,1,2-Trichloroethane	12.33	83	140553	40.47 ug/Kg	95
63)	Dibromochloromethane	12.77	129	189601	42.16 ug/Kg	90
64)	1,3-Dichloropropane	12.53	76	320275	42.12 ug/Kg	88
65)	1,2-Dibromoethane	12.94	107	139599	39.71 ug/Kg	81
66)	2-hexanone	12.48	43	506793	169.12 ug/Kg	99
67)	1-Chlorohexane	13.23	91	398779	39.90 ug/Kg	94
68)	Ethylbenzene	13.42	91	1432440	41.38 ug/Kg	99
69)	Chlorobenzene	13.40	112	756130	41.44 ug/Kg	97
70)	1,1,1,2-Tetrachloroethane	13.45	131	250044	41.98 ug/Kg	89
71)	m,p-Xylene	13.52	91	2311092	83.27 ug/Kg	99
72)	o-Xylene	13.97	91	1070334	40.02 ug/Kg	100
73)	Styrene	13.99	104	722323	41.58 ug/Kg	98
74)	Bromoform	14.28	173	105030	39.61 ug/Kg	94
75)	Isopropylbenzene	14.31	105	1262593	46.80 ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	14.46	53	50886	46.88 ug/Kg#	70
79)	n-Propylbenzene	14.73	91	1489615	41.84 ug/Kg	98
80)	Bromobenzene	14.76	156	302795	40.59 ug/Kg	88
81)	1,1,2,2-Tetrachloroethane	14.68	83	172195	43.90 ug/Kg	83
82)	1,3,5-Trimethylbenzene	14.90	105	1030707	39.60 ug/Kg	98
83)	2-Chlorotoluene	14.92	91	1041835	41.74 ug/Kg	99
84)	trans-1,4-Dichloro-2-Buten	14.73	53	52306	41.18 ug/Kg#	73
85)	1,2,3-Trichloropropane	14.77	110	47386	43.43 ug/Kg	90
86)	Cyclohexanone	14.56	55	21875	188.36 ug/Kg#	67
87)	4-Chlorotoluene	15.03	91	893737	41.16 ug/Kg	99
88)	tert-Butylbenzene	15.26	91	629629	40.37 ug/Kg	96
89)	1,2,4-Trimethylbenzene	15.31	105	1008359	40.53 ug/Kg	99
90)	Pentachloroethane	15.37	167	133157	51.15 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077077.D Vial: 18
Acq On : 27 Jul 2012 7:32 pm Operator: ericp
Sample : F95274-4MSD Inst : MSVOA3
Misc : ms21691,vh2862,5.12,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 30 06:46:15 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:45:49 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	1217566	38.93	ug/Kg	100
92)	4-Isopropyltoluene	15.60	119	958925	40.92	ug/Kg	99
93)	1,3-Dichlorobenzene	15.72	146	531824	40.44	ug/Kg	98
94)	1,4-Dichlorobenzene	15.82	146	508969	39.53	ug/Kg	97
95)	n-Butylbenzene	16.03	92	451028	35.86	ug/Kg	97
96)	Benzyl Chloride	15.94	126	35152	37.75	ug/Kg#	85
97)	1,2-Dichlorobenzene	16.23	146	449207	39.55	ug/Kg	98
98)	1,2-Dibromo-3-Chloropropan	17.06	75	18396	42.17	ug/Kg	82
99)	Hexachlorobutadiene	18.02	225	187518	30.21	ug/Kg	93
100)	1,2,4-Trichlorobenzene	17.94	180	225081	32.66	ug/Kg	91
101)	Naphthalene	18.28	128	314288	37.38	ug/Kg	100
102)	1,2,3-Trichlorobenzene	18.57	180	188677	34.01	ug/Kg	97
104)	Ethanol	6.23	45	36289	1001.28	ug/Kg	79
105)	Acrolein	6.65	56	54159	214.16	ug/Kg	96
106)	Tert Butyl Alcohol	7.44	59	211785	452.55	ug/Kg	97
107)	Isobutyl alcohol	9.64	42	65739	837.49	ug/Kg#	26
108)	Tert Amyl Alcohol	9.75	59	108742	422.52	ug/Kg	82
109)	1,4-Dioxane	10.92	88	26727	914.60	ug/Kg	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

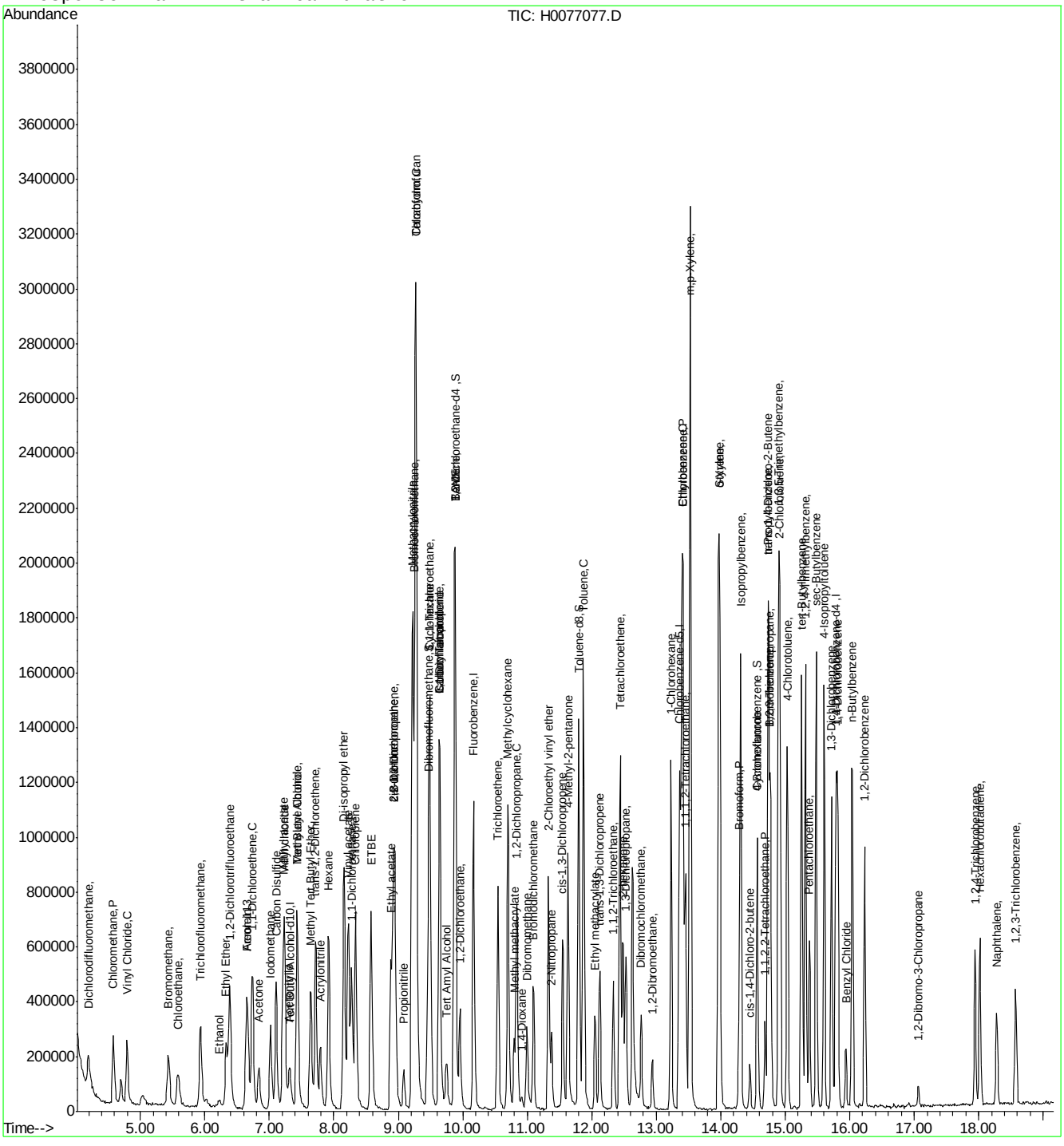
Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077077.D
Acq On : 27 Jul 2012 7:32 pm
Sample : F95274-4MSD
Misc : ms21691,vh2862,5.12,,,,,
MS Integration Params: rteint.p
Quant Time: Jul 30 6:49 2012

Vial: 18
Operator: ericp
Inst : MSVOA3
Multiplr: 1.00

Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 15:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:41:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	7.519	96	603139	50.00 ug/L	0.00
47) Chlorobenzene-d5	10.615	117	517318	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.974	152	304168	50.00 ug/L	0.00
93) Tert Butyl Alcohol-d10	5.111	65	122021	250.00 ug/L	0.00

System Monitoring Compounds					
31) Dibromofluoromethane	6.698	113	180377	54.42 ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 108.84%		
38) 1,2-Dichloroethane-d4	7.252	65	251067	62.51 ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 125.02%		
48) Toluene-d8	9.070	98	610930	48.93 ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 97.86%		
69) 4-Bromofluorobenzene	11.825	95	272327	49.12 ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 98.24%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.624	85	96617	24.82 ug/L	99
3) Chloromethane	2.867	50	117808	22.49 ug/L	98
4) Vinyl Chloride	2.995	62	96203	24.62 ug/L	94
5) Bromomethane	3.366	94	51549	22.27 ug/L	98
6) Chloroethane	3.494	64	52878	23.53 ug/L	97
7) Trichlorofluoromethane	3.700	101	136126m	26.62 ug/L	
8) Ethyl Ether	3.974	59	71164	22.32 ug/L	94
9) 1,2-Dichlorotrifluoroe...	4.205	67	86841	22.13 ug/L	91
10) 1,1-Dichloroethene	4.248	61	129240	27.06 ug/L	90
11) Freon 113	4.296	101	86430	24.84 ug/L	95
12) Carbon Disulfide	4.327	76	207784	19.72 ug/L	97
13) Iodomethane	4.424	142	139306	23.19 ug/L	95
14) Methylene Chloride	4.862	49	142658	25.49 ug/L	97
15) Acetone	4.898	58	44972	119.70 ug/L	87
16) Methyl acetate	5.008	74	84541	169.39 ug/L #	87
17) trans-1,2-Dichloroethene	5.026	61	124301	25.00 ug/L	98
18) Hexane	5.081	56	82743	23.32 ug/L #	88
19) Methyl Tert Butyl Ether	5.129	73	272477	25.98 ug/L	98
20) Di-isopropyl ether	5.500	45	294550	21.79 ug/L	99
21) 1,1-Dichloroethane	5.677	63	152697	26.00 ug/L	99
22) Acrylonitrile	5.725	53	201053	167.56 ug/L	97
23) ETBE	5.883	59	296594	23.81 ug/L	94
24) Vinyl acetate	5.896	43	884250	165.50 ug/L	98
25) cis-1,2-Dichloroethene	6.242	96	83315	24.32 ug/L	92
26) 2,2-Dichloropropane	6.364	77	94882	18.99 ug/L	97
27) Bromochloromethane	6.455	128	46934	24.30 ug/L	90
28) Cyclohexane	6.479	56	158295	23.13 ug/L	93
29) Chloroform	6.504	83	159994	27.68 ug/L	96
30) Tetrahydrofuran	6.680	42	31118	27.86 ug/L	96
32) Carbon Tetrachloride	6.680	117	152947	30.55 ug/L	93
33) 1,1,1-Trichloroethane	6.753	97	157399	29.93 ug/L	98
34) 2-Butanone	6.808	43	235682	137.87 ug/L	100
35) 1,1-Dichloropropene	6.863	75	113690	26.87 ug/L	94
36) Benzene	7.118	78	291581	23.27 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:41:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.197	73	241264	23.47 ug/L	93
39) 1,2-Dichloroethane	7.319	62	141979	29.42 ug/L	98
40) Trichloroethene	7.690	95	87041	26.51 ug/L	94
41) Methylcyclohexane	7.702	83	141364	23.87 ug/L	99
42) Dibromomethane	8.121	93	54451	26.66 ug/L	89
43) 1,2-Dichloropropane	8.219	63	78015	22.75 ug/L	93
44) Bromodichloromethane	8.261	83	122101	26.73 ug/L	90
45) 2-Chloroethyl vinyl ether	8.790	63	223099	136.24 ug/L	94
46) cis-1,3-Dichloropropene	8.882	75	125692	23.06 ug/L	96
49) Toluene	9.119	91	326966	22.63 ug/L	96
50) 2-Nitropropane	9.350	41	153800	158.73 ug/L	97
51) 4-Methyl-2-pentanone	9.465	43	525670	142.79 ug/L	98
52) trans-1,3-Dichloropropene	9.514	75	129166	25.36 ug/L	95
53) Tetrachloroethene	9.508	166	97260	26.09 ug/L	96
54) 1,1,2-Trichloroethane	9.678	83	59286	22.74 ug/L	89
55) Dibromochloromethane	9.867	129	102452	25.65 ug/L	99
56) 1,3-Dichloropropane	9.958	76	125880	22.99 ug/L	90
57) 1,2-Dibromoethane	10.128	107	84254	24.60 ug/L	96
58) 2-hexanone	10.280	43	375739	142.97 ug/L	96
59) 1-Chlorohexane	10.572	91	115956	21.88 ug/L	93
60) Ethylbenzene	10.633	91	415942	24.51 ug/L	97
61) Chlorobenzene	10.633	112	242277	24.29 ug/L	94
62) 1,1,1,2-Tetrachloroethane	10.688	131	99591	25.37 ug/L	96
63) m,p-Xylene	10.773	91	651586	51.06 ug/L	96
64) o-Xylene	11.211	91	333191	24.67 ug/L	96
65) Styrene	11.265	104	252130	22.80 ug/L	99
66) Bromoform	11.314	173	74521	28.16 ug/L	93
67) Isopropylbenzene	11.521	105	446646	29.74 ug/L	99
70) n-Propylbenzene	11.940	91	501050	24.28 ug/L	100
71) Bromobenzene	11.953	156	116639	23.38 ug/L	97
72) 1,1,2,2-Tetrachloroethane	12.001	83	108753	24.06 ug/L	98
73) 1,3,5-Trimethylbenzene	12.129	105	394913	24.14 ug/L	94
74) 2-Chlorotoluene	12.123	91	349728	24.34 ug/L	97
75) trans-1,4-Dichloro-2-B...	12.190	53	21166	29.25 ug/L	93
76) 1,2,3-Trichloropropane	12.165	110	39120	27.28 ug/L	95
77) Cyclohexanone	12.232	55	21682	165.09 ug/L	95
78) 4-Chlorotoluene	12.287	91	324984	24.64 ug/L	99
79) tert-Butylbenzene	12.463	91	230981	26.69 ug/L	98
80) 1,2,4-Trimethylbenzene	12.530	105	405456	24.71 ug/L	98
81) sec-Butylbenzene	12.646	105	509102	25.40 ug/L	100
82) 4-Isopropyltoluene	12.786	119	425227	26.29 ug/L	97
83) 1,3-Dichlorobenzene	12.901	146	230201	24.26 ug/L	98
84) 1,4-Dichlorobenzene	12.993	146	237716	24.03 ug/L	98
85) n-Butylbenzene	13.224	92	214832	23.03 ug/L	94
86) Benzyl Chloride	13.236	126	33485	15.28 ug/L #	81
87) 1,2-Dichlorobenzene	13.424	146	225711	24.77 ug/L	95
88) 1,2-Dibromo-3-Chloropr...	14.178	75	28276	32.39 ug/L	90
89) Hexachlorobutadiene	14.732	225	87985	29.32 ug/L	97
90) 1,2,4-Trichlorobenzene	14.774	180	166532	26.14 ug/L	97
91) Naphthalene	15.060	128	413489	29.72 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:41:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.218	180	148503	26.66 ug/L	98
94) acrolein	4.594	56	37267	159.87 ug/L	93
95) Tert Butyl Alcohol	5.184	59	139179	222.76 ug/L	82
96) tert Amyl alcohol	7.355	59	109555	223.51 ug/L	99
97) 1,4-Dioxane	8.444	88	18404	320.90 ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

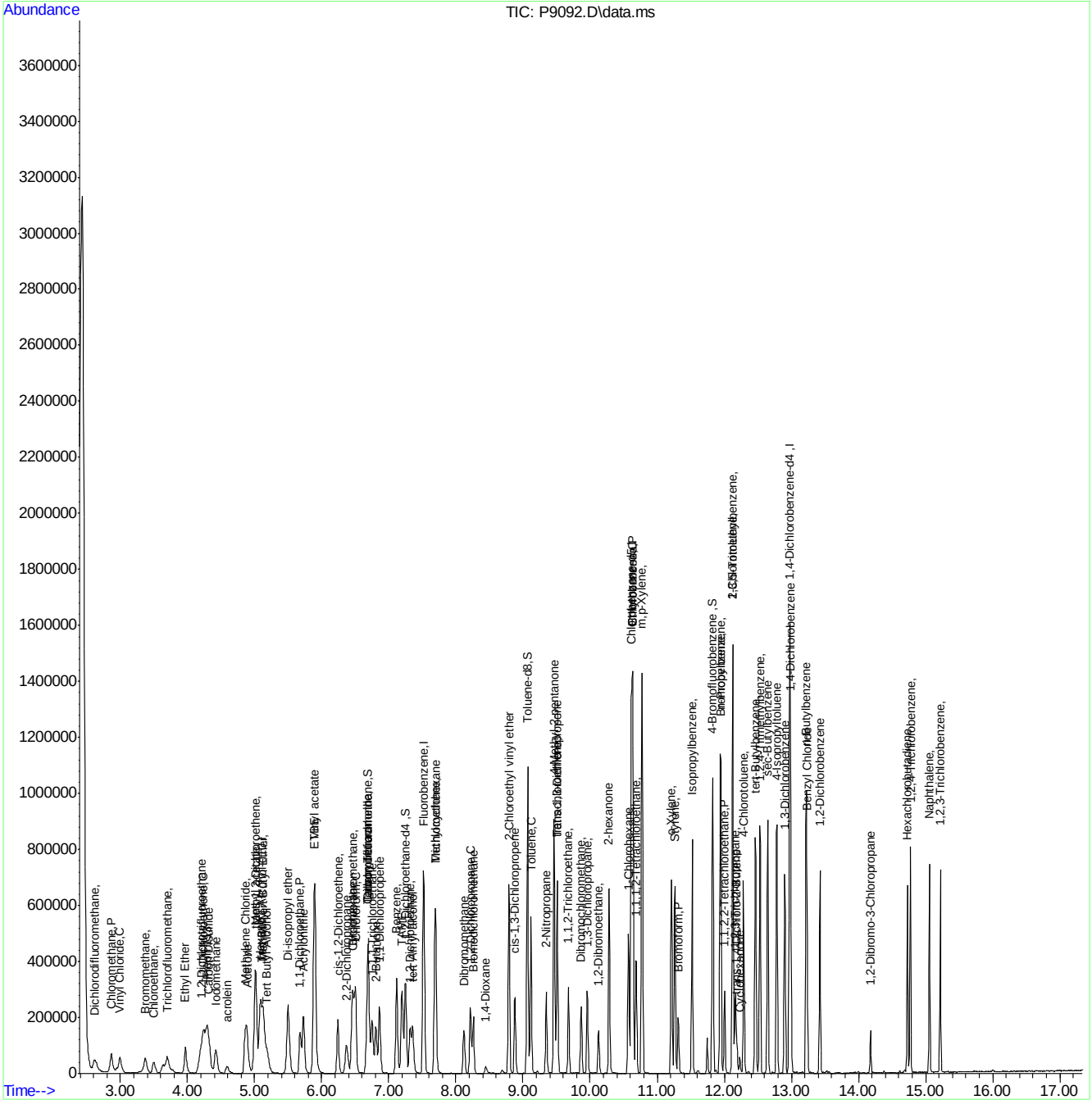
7.5.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:41:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



Manual Integration Approval Summary

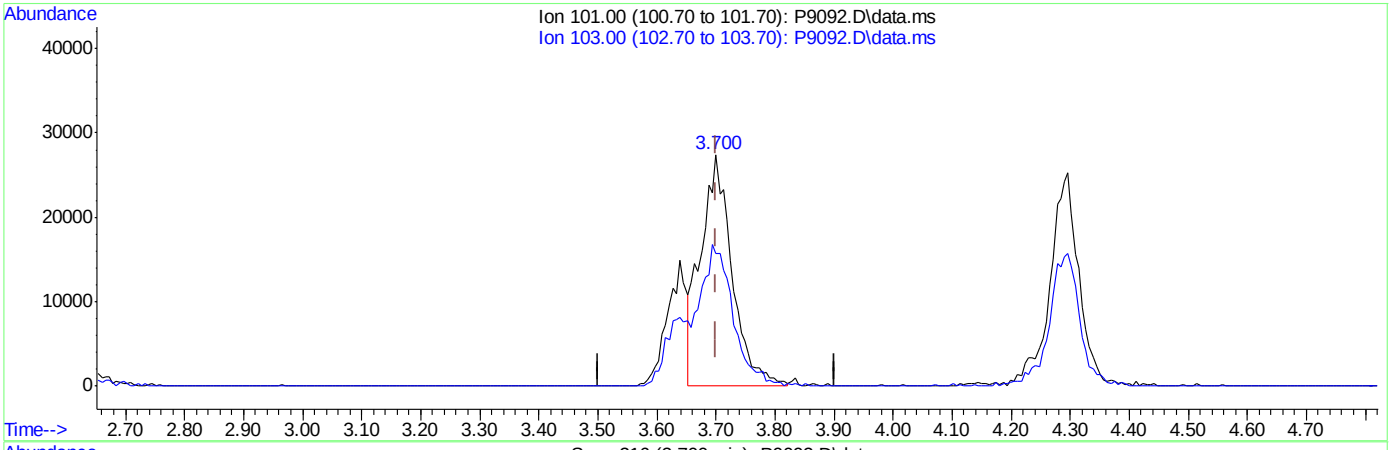
Sample Number:	F95274-7AMS	**Method:**	SW846 8260B
Lab FileID:	P9092.D	**Analyst approved:**	07/30/12 13:59 Eileen Grekoski
Injection Time:	07/28/12 20:38	**Supervisor approved:**	07/30/12 15:17 Juan Garcia

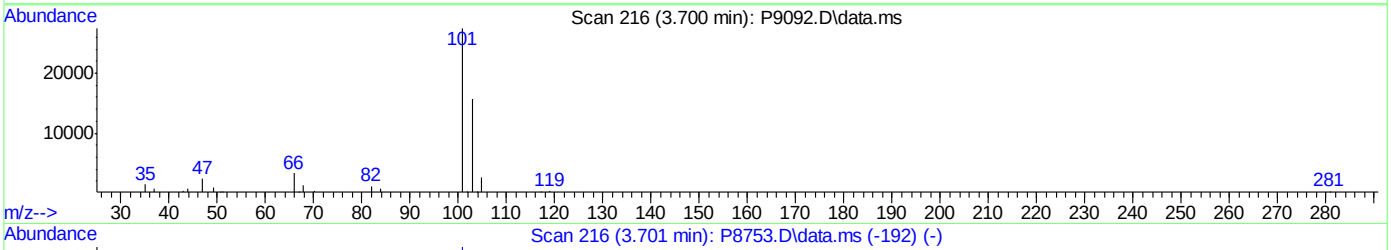
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

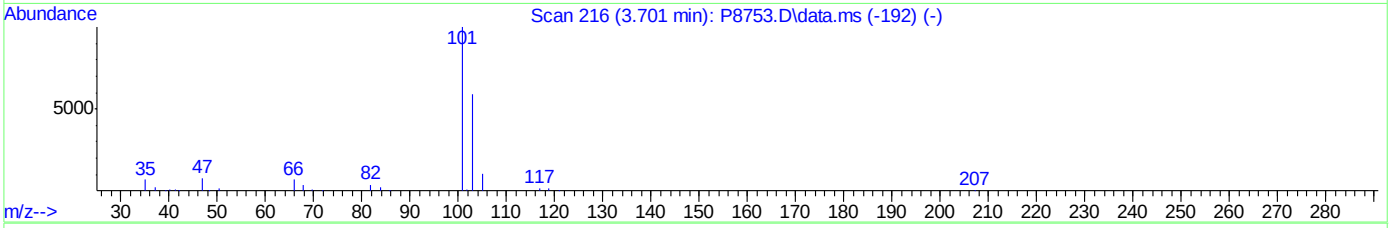
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 07:21:42 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration







TIC: P9092.D\data.ms

(7) Trichlorofluoromethane ( )

3.700min (-0.001) 19.99ug/L

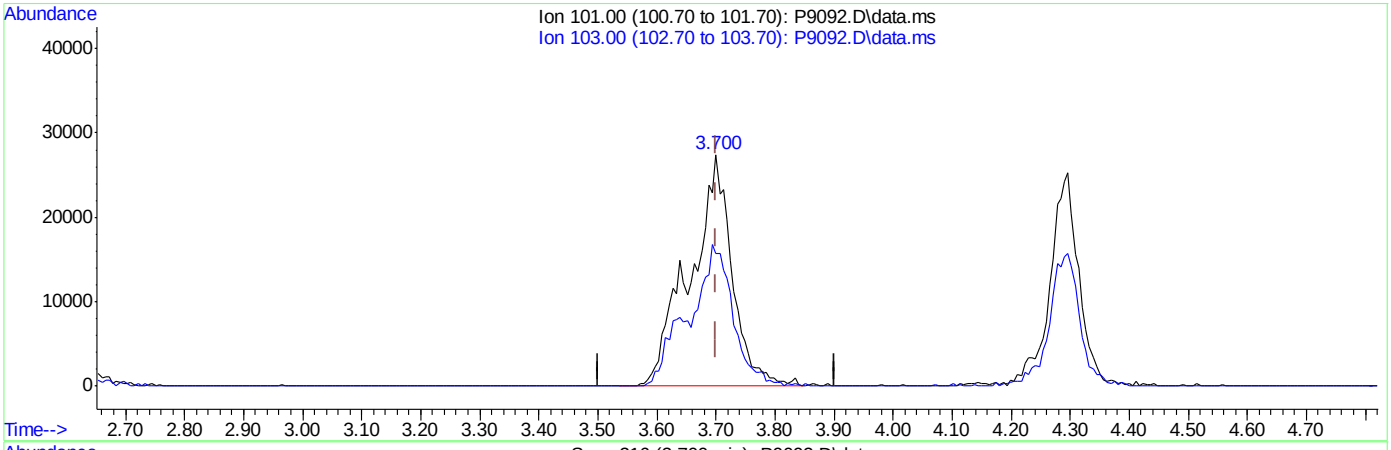
response 101990

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	56.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9092.D
Acq On : 28 Jul 2012 8:38 pm
Operator : EileenG
Sample : F95274-7AMS,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 07:21:42 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



TIC: P9092.D\data.ms

(7) Trichlorofluoromethane ( )

3.700min (-0.001) 26.62ug/L m

response 136126

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	57.17
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 15:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:42:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.521	96	607032	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	535013	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.976	152	314016	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.107	65	133019	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.694	113	182450	54.69	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 109.38%			
38) 1,2-Dichloroethane-d4	7.247	65	258120	63.85	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 127.70%#			
48) Toluene-d8	9.066	98	637264	49.35	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 98.70%			
69) 4-Bromofluorobenzene	11.826	95	280516	49.01	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 98.02%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.613	85	94410	24.09	ug/L	99
3) Chloromethane	2.869	50	112434	21.33	ug/L	100
4) Vinyl Chloride	2.996	62	92033	23.40	ug/L	97
5) Bromomethane	3.367	94	51346	22.04	ug/L	95
6) Chloroethane	3.495	64	49746	21.99	ug/L	91
7) Trichlorofluoromethane	3.702	101	126138m	24.52	ug/L	
8) Ethyl Ether	3.963	59	73220	22.82	ug/L	99
9) 1,2-Dichlorotrifluoroe...	4.207	67	84775	21.46	ug/L	92
10) 1,1-Dichloroethene	4.249	61	130544	27.16	ug/L	97
11) Freon 113	4.298	101	80692	23.04	ug/L	92
12) Carbon Disulfide	4.334	76	190026	17.92	ug/L	90
13) Iodomethane	4.426	142	134785	22.30	ug/L	99
14) Methylene Chloride	4.869	49	143633	25.50	ug/L	96
15) Acetone	4.894	58	47136	124.66	ug/L #	80
16) Methyl acetate	5.003	74	89172	177.52	ug/L	94
17) trans-1,2-Dichloroethene	5.021	61	122875	24.55	ug/L	95
18) Hexane	5.082	56	79516	22.27	ug/L	90
19) Methyl Tert Butyl Ether	5.131	73	272369	25.81	ug/L	96
20) Di-isopropyl ether	5.502	45	297135	21.85	ug/L	96
21) 1,1-Dichloroethane	5.678	63	147358	24.93	ug/L	100
22) Acrylonitrile	5.727	53	206912	171.34	ug/L	94
23) ETBE	5.891	59	294404	23.48	ug/L	99
24) Vinyl acetate	5.897	43	872113	162.19	ug/L	99
25) cis-1,2-Dichloroethene	6.244	96	81360	23.60	ug/L	94
26) 2,2-Dichloropropane	6.372	77	91686	18.23	ug/L	97
27) Bromochloromethane	6.457	128	44492	22.89	ug/L #	85
28) Cyclohexane	6.475	56	155703	22.61	ug/L	93
29) Chloroform	6.505	83	154232	26.51	ug/L	95
30) Tetrahydrofuran	6.682	42	32172	28.62	ug/L	98
32) Carbon Tetrachloride	6.682	117	143231	28.43	ug/L	96
33) 1,1,1-Trichloroethane	6.749	97	149995	28.34	ug/L	95
34) 2-Butanone	6.809	43	248916	144.67	ug/L	100
35) 1,1-Dichloropropene	6.858	75	110189	25.88	ug/L	93
36) Benzene	7.113	78	286244	22.70	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:42:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.199	73	247265	23.90 ug/L	98
39) 1,2-Dichloroethane	7.314	62	141949	29.22 ug/L	94
40) Trichloroethene	7.685	95	84404	25.54 ug/L	94
41) Methylcyclohexane	7.697	83	139679	23.43 ug/L	97
42) Dibromomethane	8.123	93	52055	25.32 ug/L	98
43) 1,2-Dichloropropane	8.214	63	80138	23.22 ug/L	84
44) Bromodichloromethane	8.263	83	114085	24.82 ug/L	92
45) 2-Chloroethyl vinyl ether	8.792	63	226503	137.43 ug/L	97
46) cis-1,3-Dichloropropene	8.877	75	117964	21.51 ug/L	93
49) Toluene	9.120	91	329388	22.04 ug/L	100
50) 2-Nitropropane	9.345	41	160544	160.21 ug/L	98
51) 4-Methyl-2-pentanone	9.467	43	539772	141.77 ug/L	97
52) trans-1,3-Dichloropropene	9.516	75	123604	23.47 ug/L	96
53) Tetrachloroethene	9.509	166	99313	25.76 ug/L	98
54) 1,1,2-Trichloroethane	9.680	83	62249	23.09 ug/L	89
55) Dibromochloromethane	9.868	129	100148	24.24 ug/L	98
56) 1,3-Dichloropropane	9.960	76	129707	22.90 ug/L	89
57) 1,2-Dibromoethane	10.130	107	84684	23.90 ug/L	99
58) 2-hexanone	10.282	43	403290	148.38 ug/L	98
59) 1-Chlorohexane	10.574	91	118164	21.56 ug/L	94
60) Ethylbenzene	10.635	91	417709	23.80 ug/L	98
61) Chlorobenzene	10.635	112	247651	24.00 ug/L	98
62) 1,1,1,2-Tetrachloroethane	10.683	131	95918	23.62 ug/L	96
63) m,p-Xylene	10.774	91	656874	49.78 ug/L	96
64) o-Xylene	11.212	91	333462	23.87 ug/L	98
65) Styrene	11.267	104	260125	22.74 ug/L	97
66) Bromoform	11.316	173	73903	27.01 ug/L	98
67) Isopropylbenzene	11.522	105	450796	29.02 ug/L	99
70) n-Propylbenzene	11.942	91	493515	23.16 ug/L	99
71) Bromobenzene	11.954	156	117329	22.78 ug/L	95
72) 1,1,2,2-Tetrachloroethane	12.003	83	111087	23.81 ug/L	98
73) 1,3,5-Trimethylbenzene	12.124	105	402187	23.82 ug/L	93
74) 2-Chlorotoluene	12.124	91	347022	23.40 ug/L	98
75) trans-1,4-Dichloro-2-B...	12.185	53	20780	28.05 ug/L	89
76) 1,2,3-Trichloropropane	12.167	110	42111	28.44 ug/L	94
77) Cyclohexanone	12.228	55	24000	177.01 ug/L	95
78) 4-Chlorotoluene	12.289	91	322219	23.67 ug/L	98
79) tert-Butylbenzene	12.465	91	228054	25.52 ug/L	97
80) 1,2,4-Trimethylbenzene	12.532	105	406292	23.98 ug/L	95
81) sec-Butylbenzene	12.647	105	516540	24.96 ug/L	97
82) 4-Isopropyltoluene	12.781	119	422744	25.31 ug/L	96
83) 1,3-Dichlorobenzene	12.903	146	226303	23.11 ug/L	99
84) 1,4-Dichlorobenzene	12.994	146	234278	22.94 ug/L	98
85) n-Butylbenzene	13.219	92	219190	22.76 ug/L	92
86) Benzyl Chloride	13.237	126	30291	13.39 ug/L	95
87) 1,2-Dichlorobenzene	13.426	146	223534	23.76 ug/L	97
88) 1,2-Dibromo-3-Chloropr...	14.180	75	27475	30.49 ug/L	94
89) Hexachlorobutadiene	14.733	225	89180	28.79 ug/L	97
90) 1,2,4-Trichlorobenzene	14.776	180	164685	25.04 ug/L	95
91) Naphthalene	15.056	128	426775	29.71 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:42:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.220	180	155756	27.08 ug/L	98
94) acrolein	4.590	56	36344	142.61 ug/L #	70
95) Tert Butyl Alcohol	5.186	59	145602	213.77 ug/L	79
96) tert Amyl alcohol	7.357	59	118572	221.90 ug/L	97
97) 1,4-Dioxane	8.445	88	21797	348.66 ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

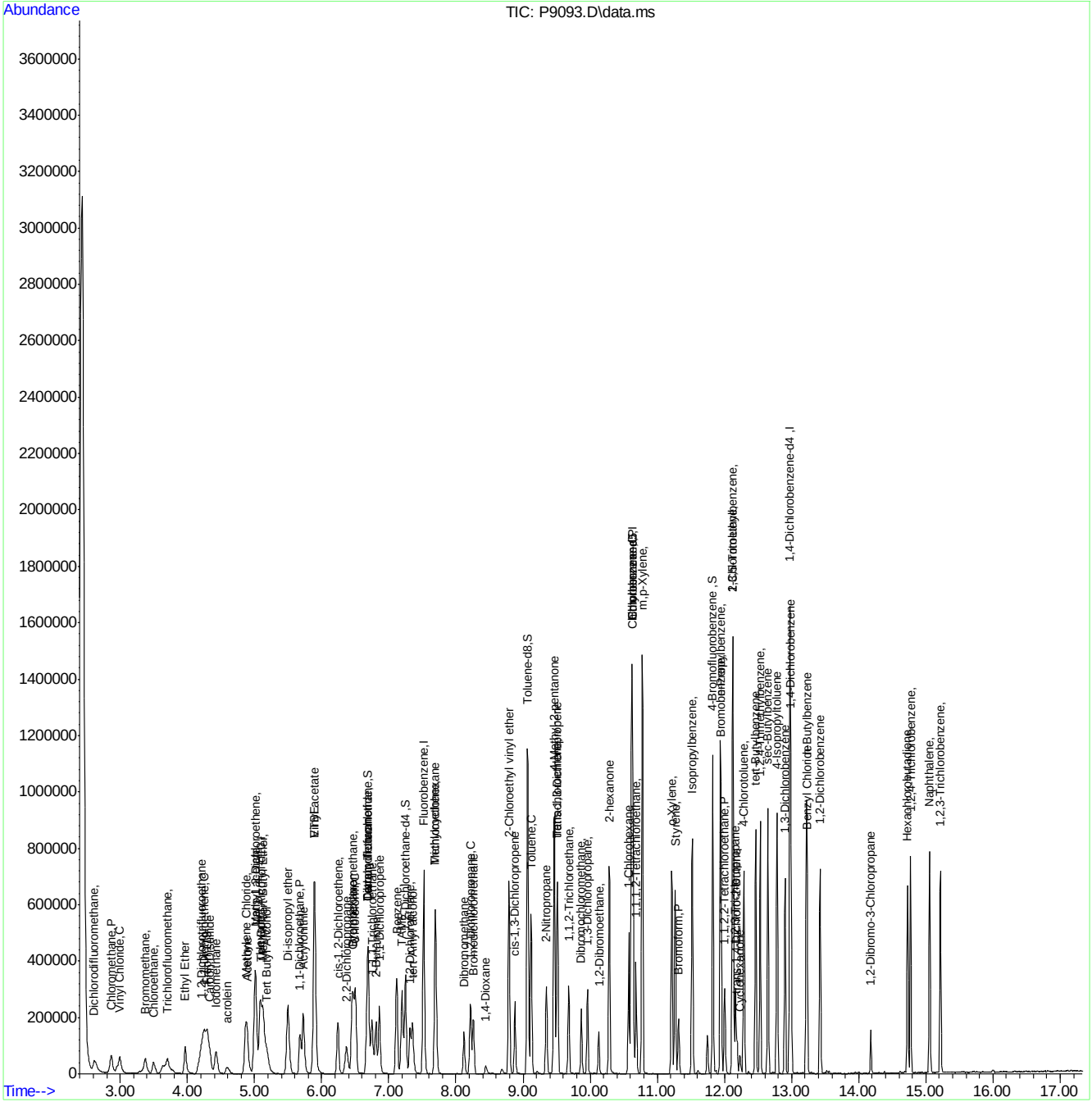
7.5.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:42:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



Manual Integration Approval Summary

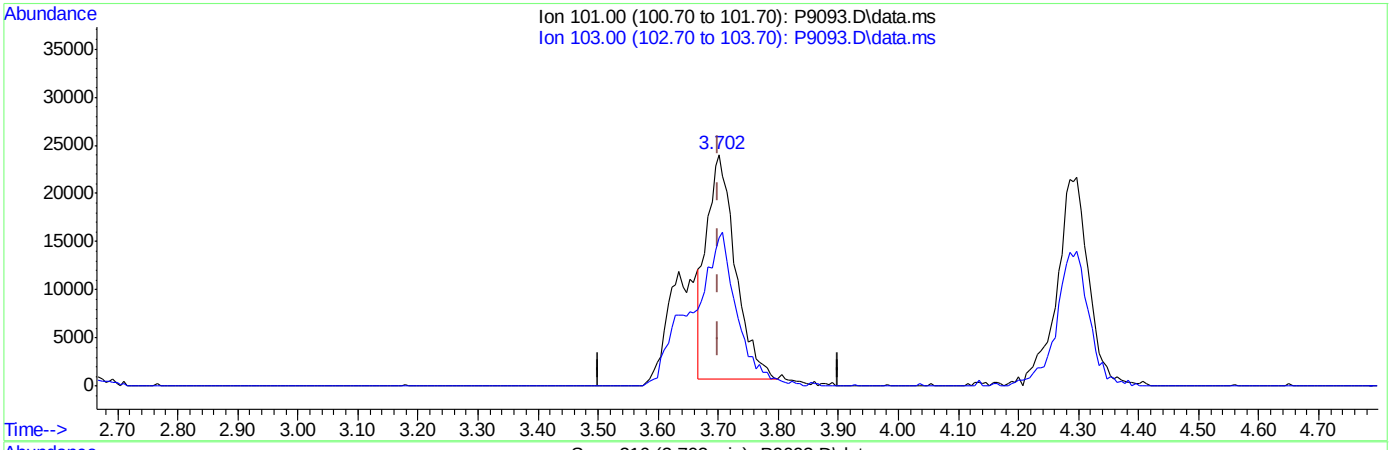
Sample Number:	F95274-7AMSD	**Method:**	SW846 8260B
Lab FileID:	P9093.D	**Analyst approved:**	07/30/12 13:59 Eileen Grekoski
Injection Time:	07/28/12 21:01	**Supervisor approved:**	07/30/12 15:17 Juan Garcia

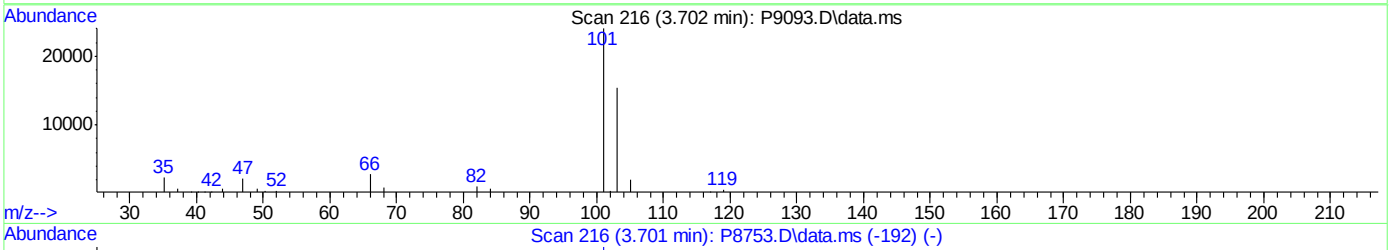
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

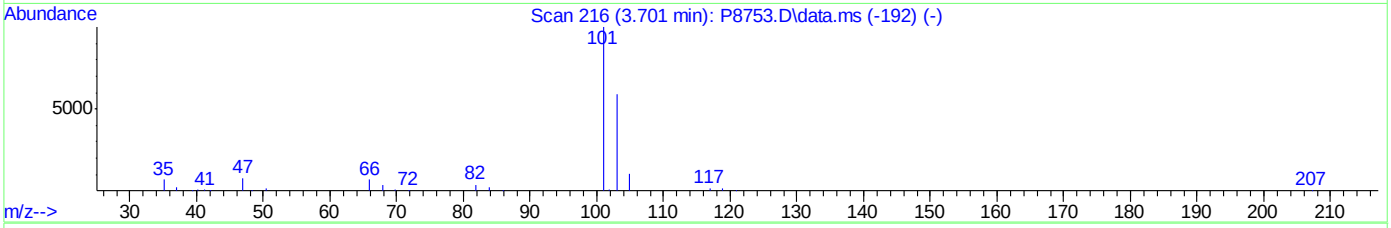
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 07:21:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration







TIC: P9093.D\data.ms

(7) Trichlorofluoromethane ( )

3.702min (+0.001) 15.28ug/L

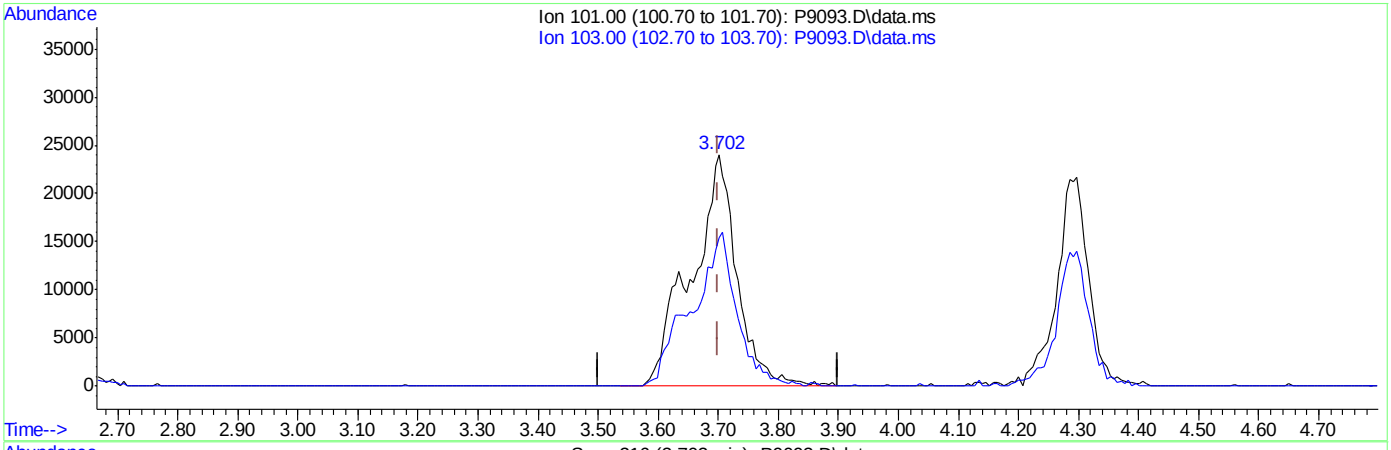
response 78314

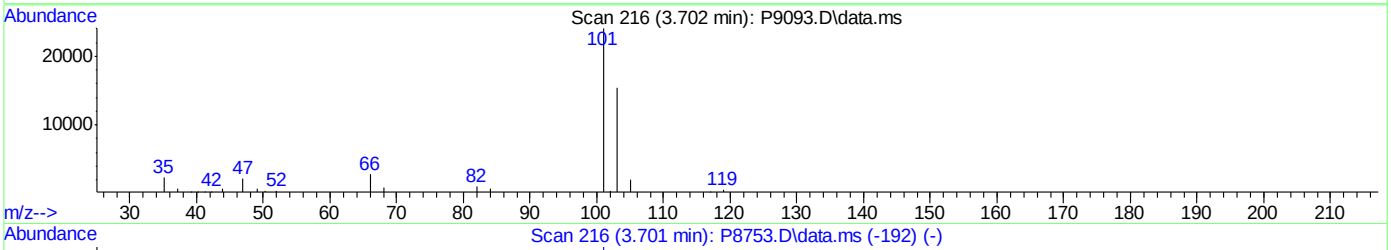
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	62.76
0.00	0.00	0.00
0.00	0.00	0.00

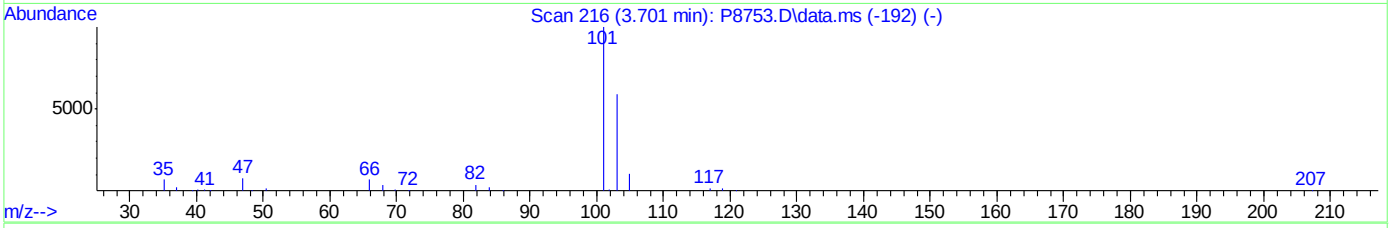
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9093.D
Acq On : 28 Jul 2012 9:01 pm
Operator : EileenG
Sample : F95274-7AMSD,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 07:21:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration







TIC: P9093.D\data.ms

(7) Trichlorofluoromethane ( )

3.702min (+0.001) 24.52ug/L m

response 126138

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	64.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9087.D
Acq On : 28 Jul 2012 6:40 pm
Operator : EileenG
Sample : F95305-1DUP,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 09:14:46 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.514	96	591332	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	506551	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	294336	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.100	65	122259	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	183554	56.48	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 112.96%			
38) 1,2-Dichloroethane-d4	7.247	65	250920	63.72	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 127.44%#			
48) Toluene-d8	9.065	98	601406	49.19	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 98.38%			
69) 4-Bromofluorobenzene	11.826	95	258207	48.13	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 96.26%			

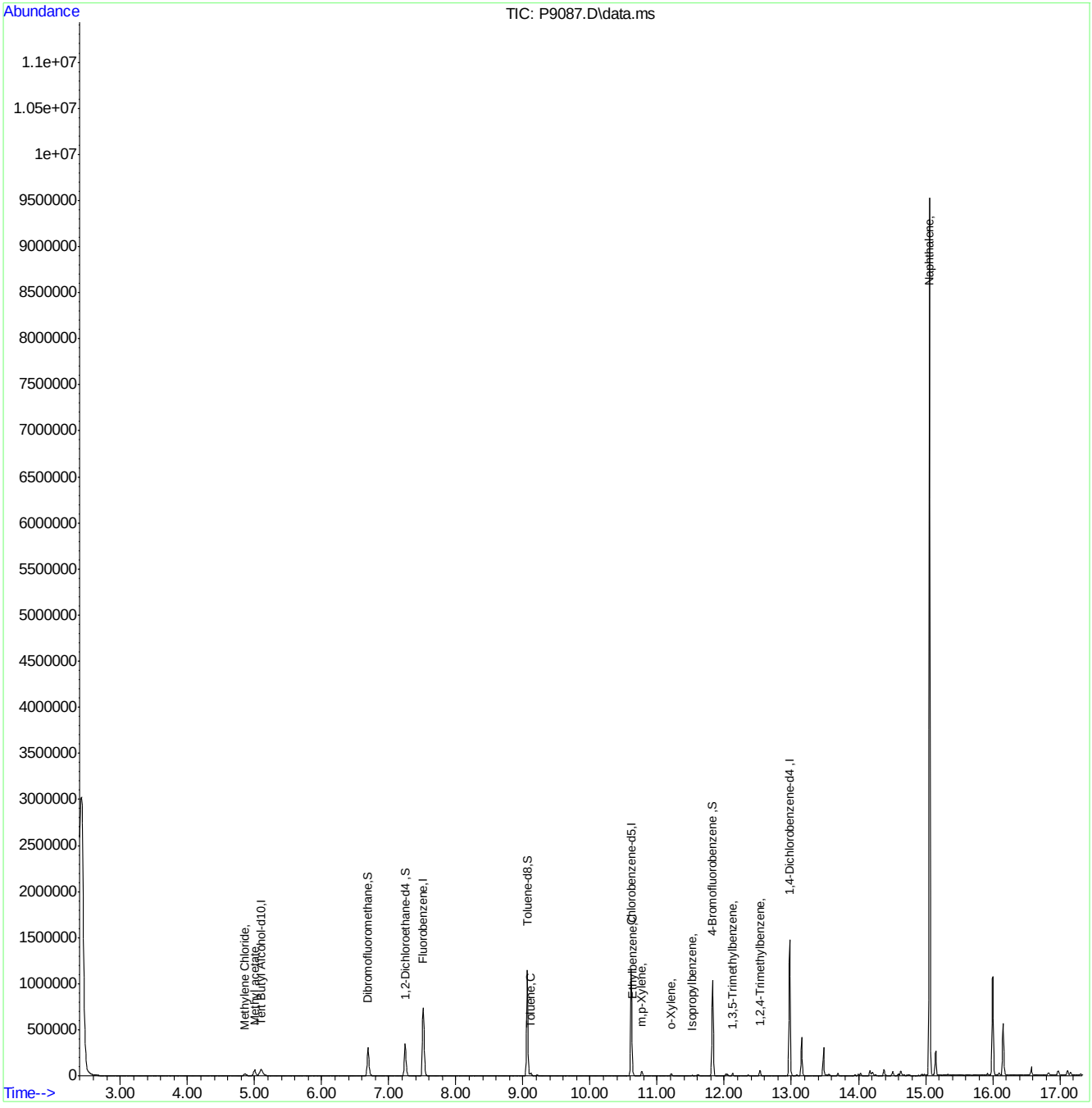
Target Compounds						Qvalue
14) Methylene Chloride	4.857	49	18353	3.29	ug/L	90
16) Methyl acetate	5.003	74	21109	43.14	ug/L #	90
49) Toluene	9.120	91	20140	1.42	ug/L	84
60) Ethylbenzene	10.634	91	13286	0.80	ug/L	85
63) m,p-Xylene	10.774	91	21142	1.69	ug/L	96
64) o-Xylene	11.212	91	11721	0.89	ug/L	95
67) Isopropylbenzene	11.522	105	2943	0.20	ug/L	83
73) 1,3,5-Trimethylbenzene	12.124	105	11656	0.74	ug/L	90
80) 1,2,4-Trimethylbenzene	12.531	105	26293	1.66	ug/L	90
91) Naphthalene	15.061	128	4616805	342.94	ug/L	82

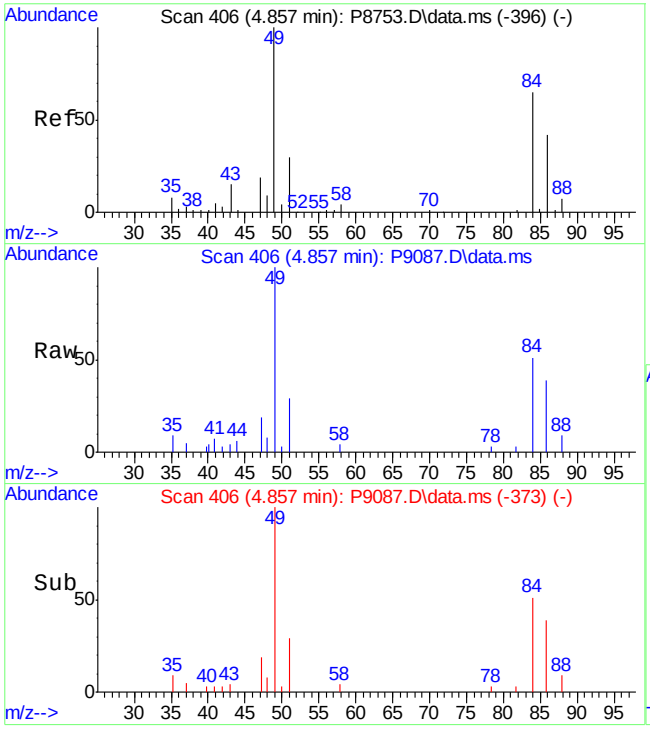
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9087.D
Acq On : 28 Jul 2012 6:40 pm
Operator : EileenG
Sample : F95305-1DUP,10X
Misc : MS21694,VP367,,,,,10
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 09:14:46 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

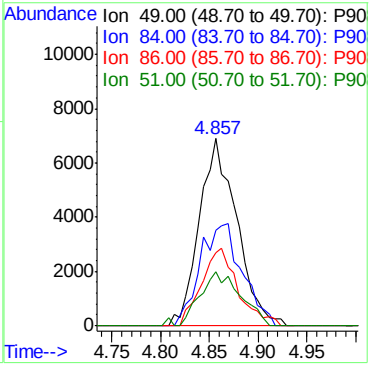


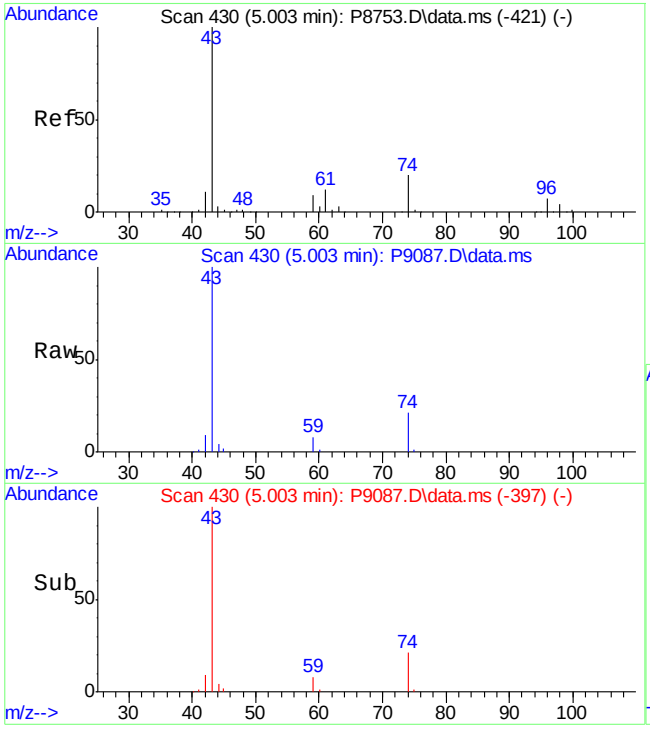


#14
Methylene Chloride
Concen: 3.29 ug/L
RT: 4.857 min Scan# 406
Delta R.T. 0.001 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion: 49 Resp: 18353

Ion	Ratio	Lower	Upper
49	100		
84	51.0	34.9	94.9
86	39.2	11.8	71.8
51	28.9	0.4	60.4

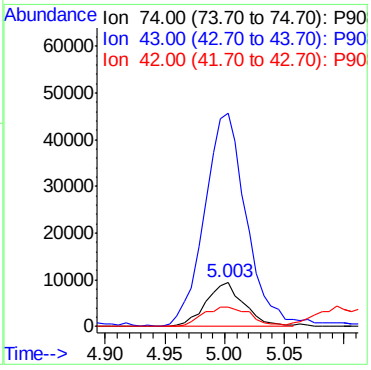


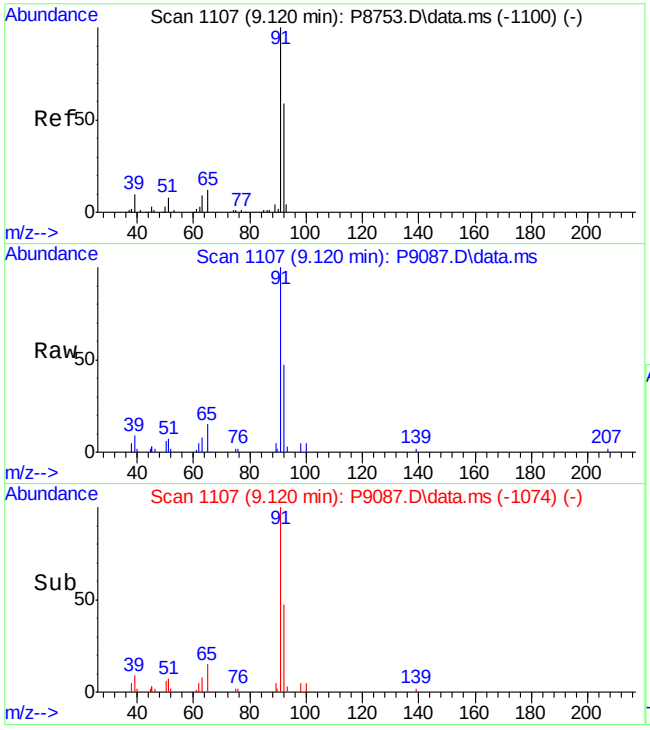


#16
Methyl acetate
Concen: 43.14 ug/L
RT: 5.003 min Scan# 430
Delta R.T. -0.000 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion: 74 Resp: 21109

Ion	Ratio	Lower	Upper
74	100		
43	480.3	487.3	527.3#
42	43.3	34.4	74.4

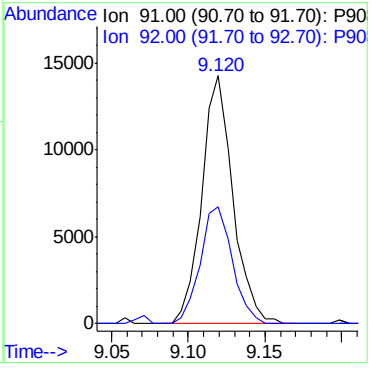


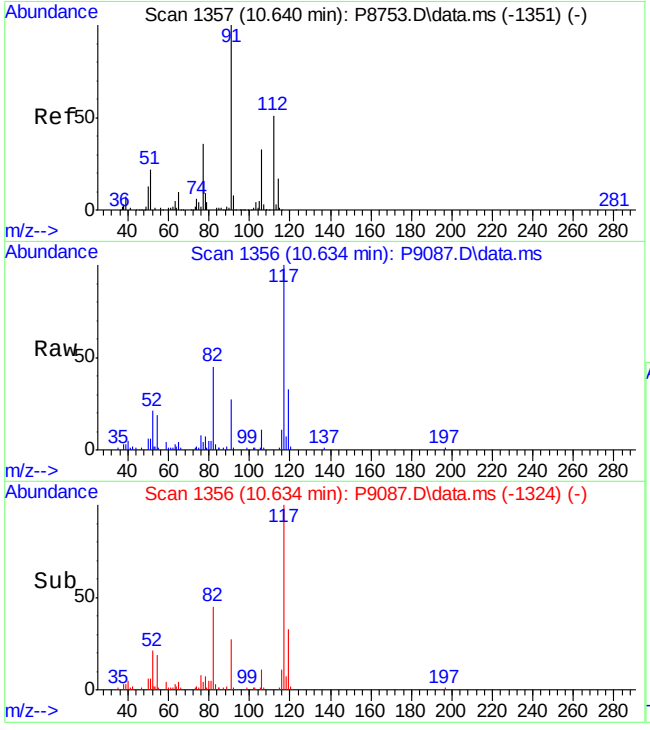


#49
Toluene
Concen: 1.42 ug/L
RT: 9.120 min Scan# 1107
Delta R.T. -0.000 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion: 91 Resp: 20140

Ion	Ratio	Lower	Upper
91	100		
92	47.2	29.4	89.4

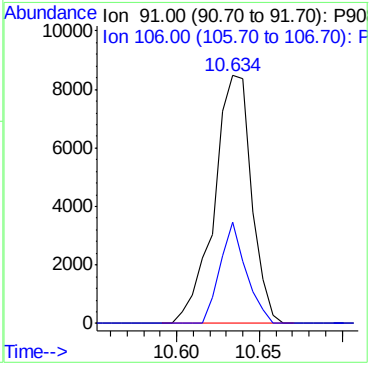


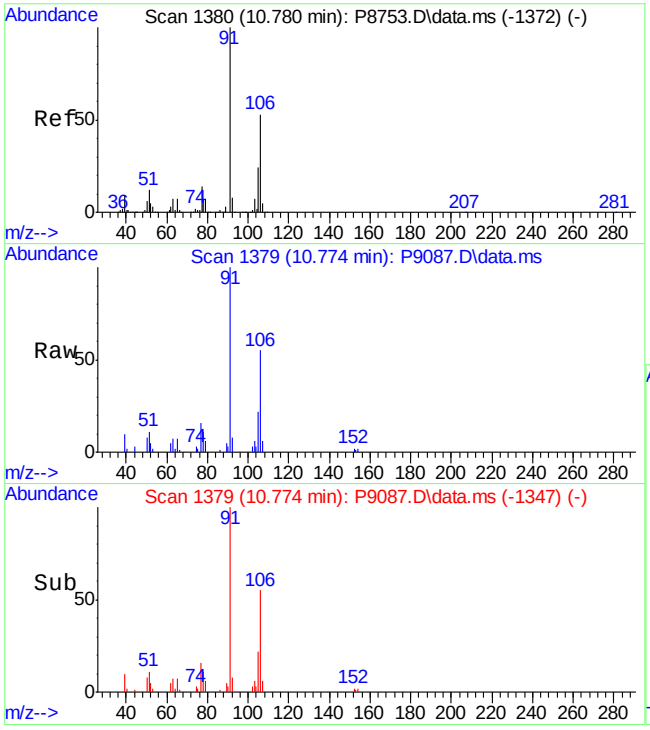


#60
Ethylbenzene
Concen: 0.80 ug/L
RT: 10.634 min Scan# 1356
Delta R.T. -0.006 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion: 91 Resp: 13286

Ion	Ratio	Lower	Upper
91	100		
106	41.0	2.7	62.7

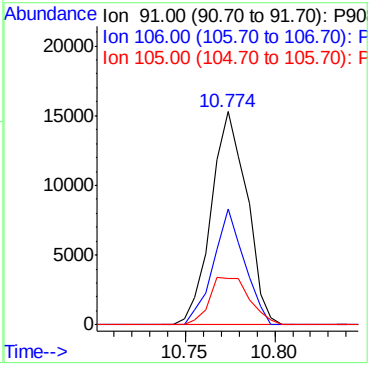


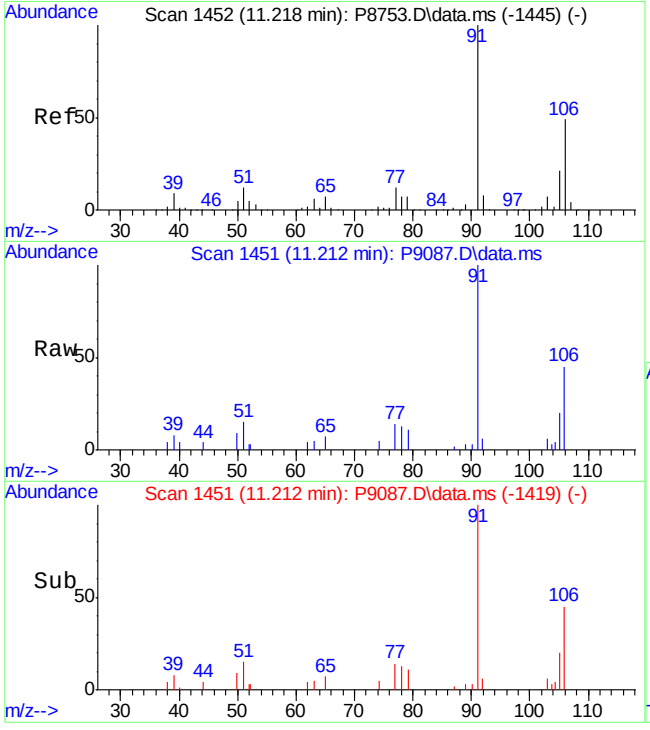


#63
m,p-Xylene
Concen: 1.69 ug/L
RT: 10.774 min Scan# 1379
Delta R.T. -0.006 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion: 91 Resp: 21142

Ion	Ratio	Lower	Upper
91	100		
106	54.6	22.5	82.5
105	21.6	0.0	54.1

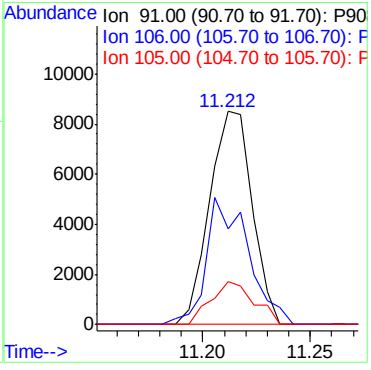




#64
o-Xylene
Concen: 0.89 ug/L
RT: 11.212 min Scan# 1451
Delta R.T. -0.006 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

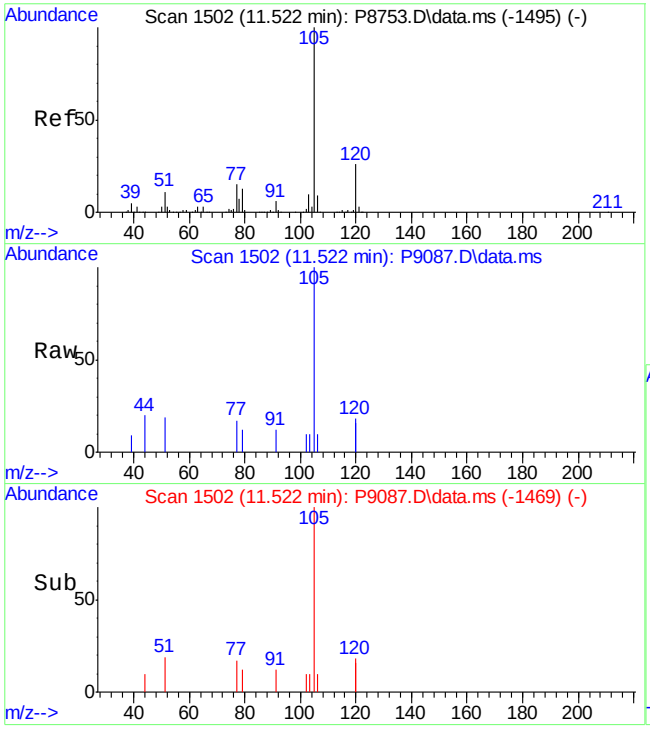
Tgt Ion: 91 Resp: 11721

Ion	Ratio	Lower	Upper
91	100		
106	45.0	19.2	79.2
105	20.2	0.0	50.7



7.6.1

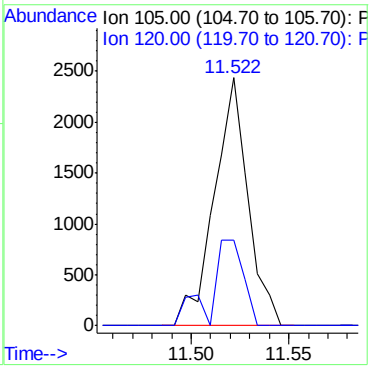
7

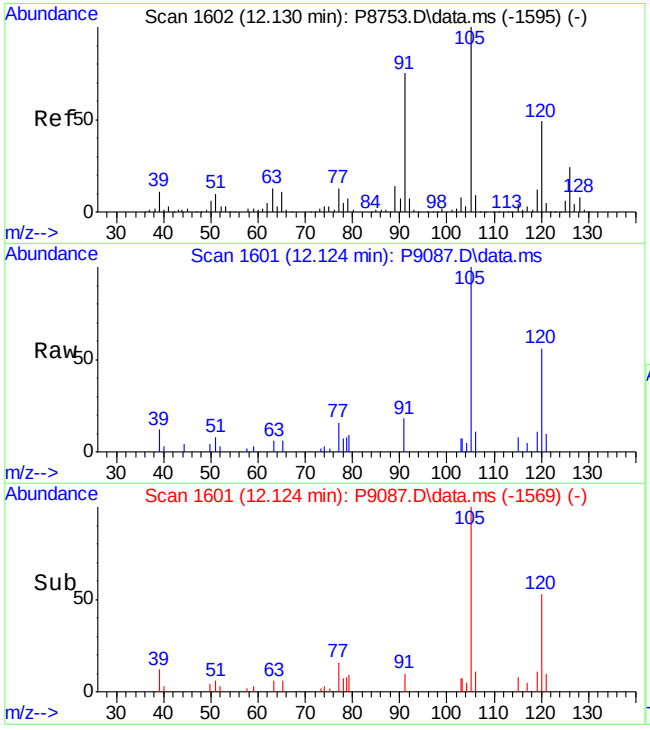


#67
Isopropylbenzene
Concen: 0.20 ug/L
RT: 11.522 min Scan# 1502
Delta R.T. -0.000 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion:105 Resp: 2943

Ion	Ratio	Lower	Upper
105	100		
120	34.4	0.0	55.8

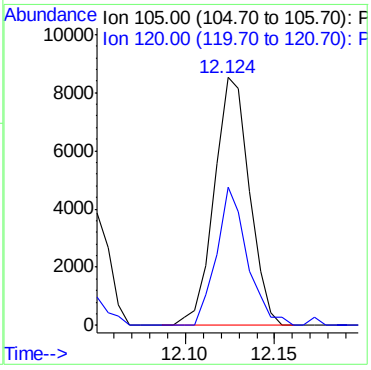


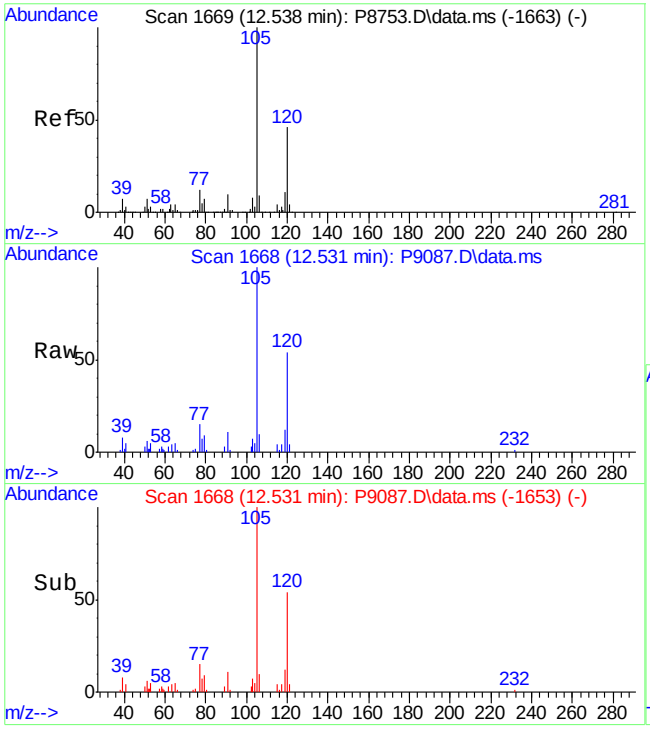


#73
1,3,5-Trimethylbenzene
Concen: 0.74 ug/L
RT: 12.124 min Scan# 1601
Delta R.T. -0.006 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion:105 Resp: 11656

Ion	Ratio	Lower	Upper
105	100		
120	55.8	18.9	78.9

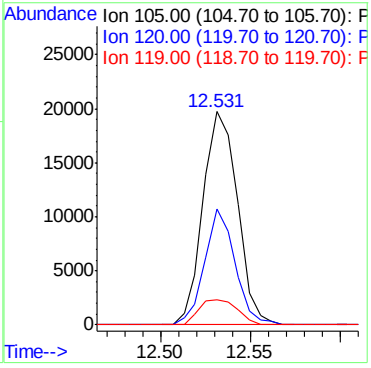


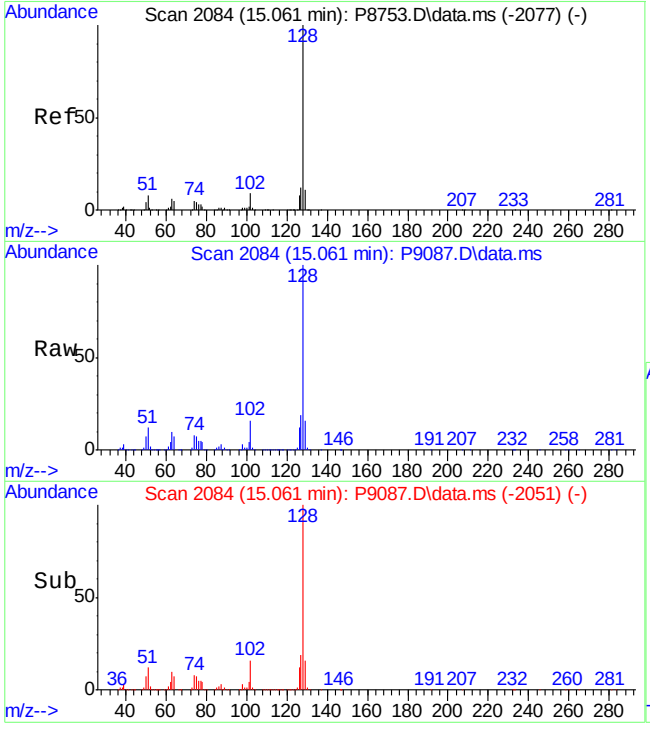


#80
1,2,4-Trimethylbenzene
Concen: 1.66 ug/L
RT: 12.531 min Scan# 1668
Delta R.T. -0.006 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

Tgt Ion:105 Resp: 26293

Ion	Ratio	Lower	Upper
105	100		
120	54.3	16.2	76.2
119	11.7	0.0	41.7

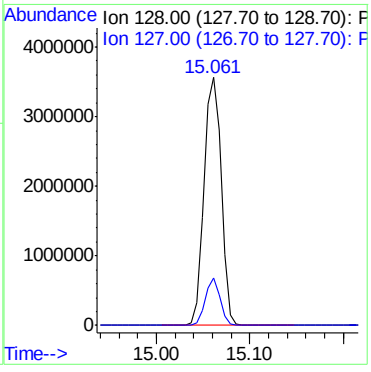




#91
Naphthalene
Concen: 342.94 ug/L
RT: 15.061 min Scan# 2084
Delta R.T. -0.000 min
Lab File: P9087.D
Acq: 28 Jul 2012 6:40 pm

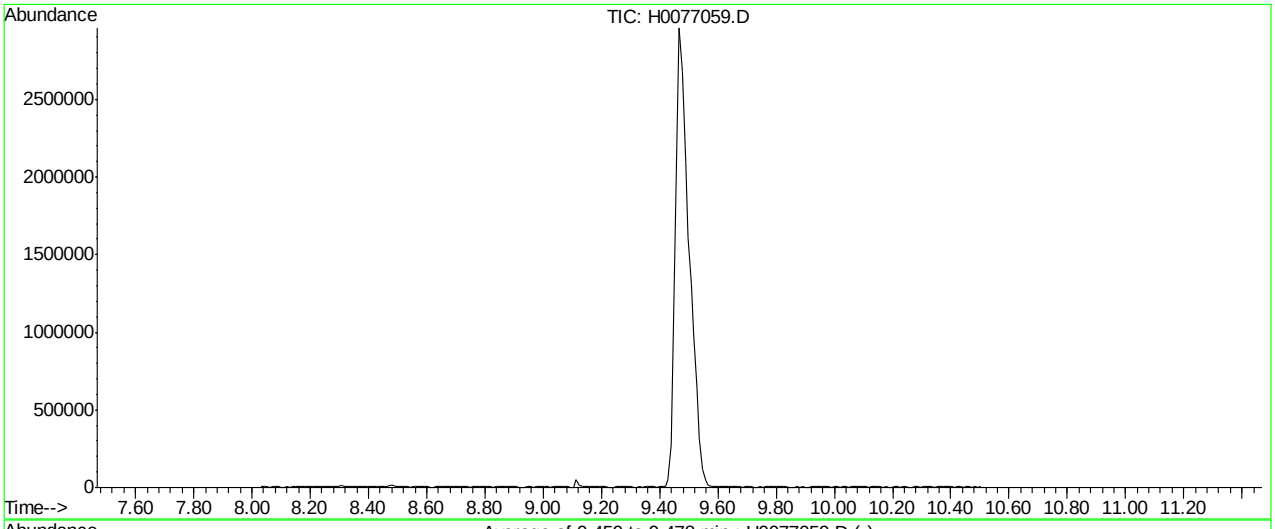
Tgt Ion:128 Resp: 4616805

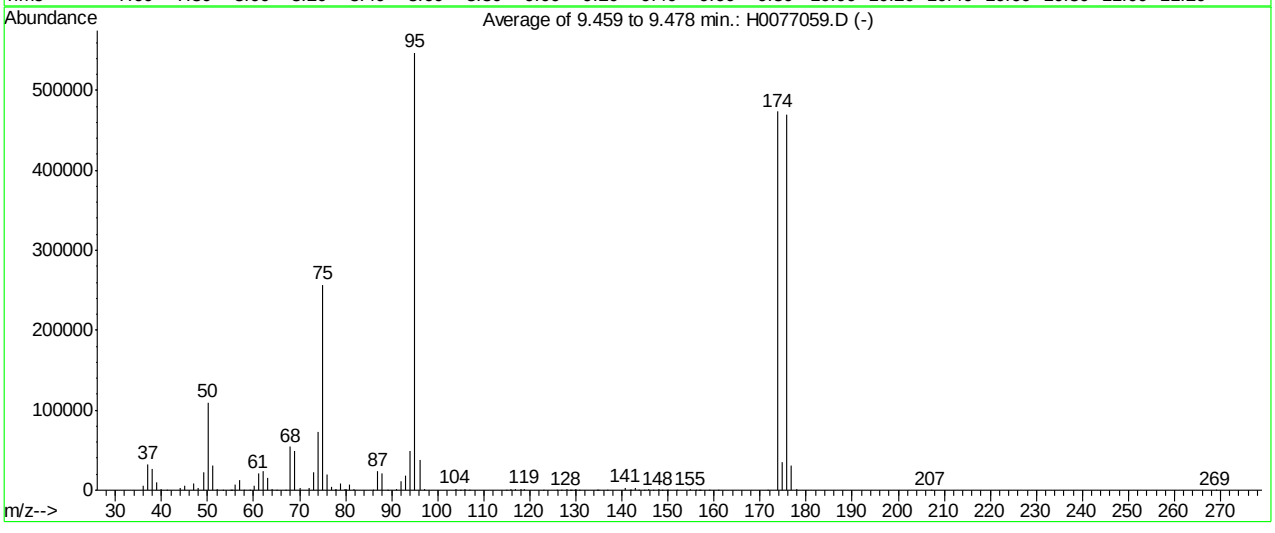
Ion	Ratio	Lower	Upper
128	100		
127	19.3	0.0	42.2



Methods: SW-846 8260B

Data File : H:\1\DATA\072712\H0077059.D Vial: 100
Acq On : 27 Jul 2012 11:31 am Operator: ericp
Sample : BFB Inst : MSVOA3
Misc : ms21534,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 9.459 to 9.478 min.

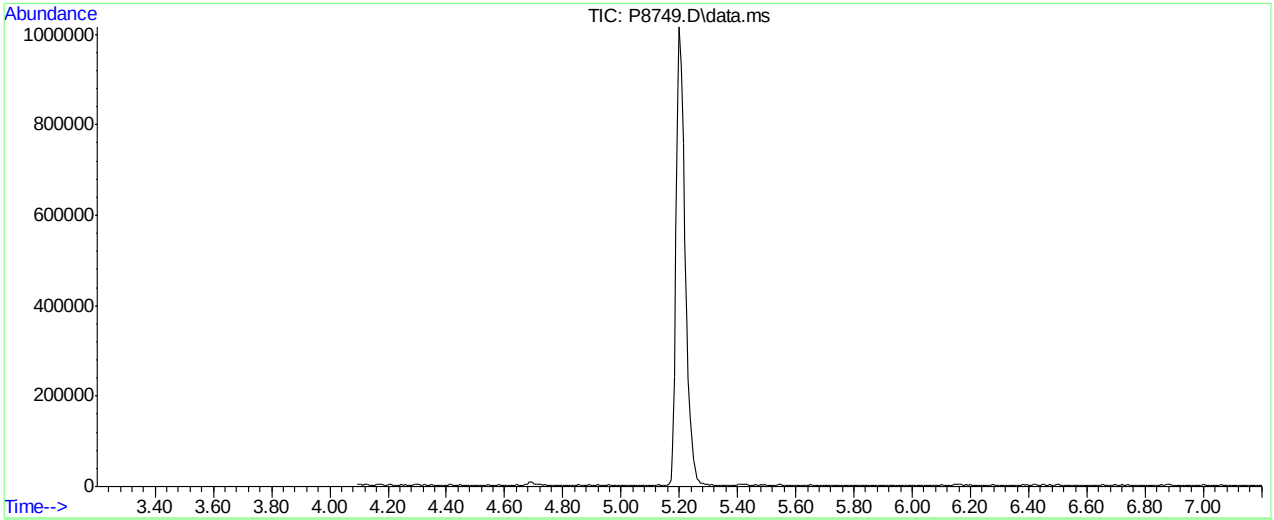
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	109528	PASS
75	95	30	60	46.9	256682	PASS
95	95	100	100	100.0	547392	PASS
96	95	5	9	6.9	37858	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.6	473792	PASS
175	174	5	9	7.4	35149	PASS
176	174	95	101	99.0	469013	PASS
177	176	5	9	6.5	30661	PASS

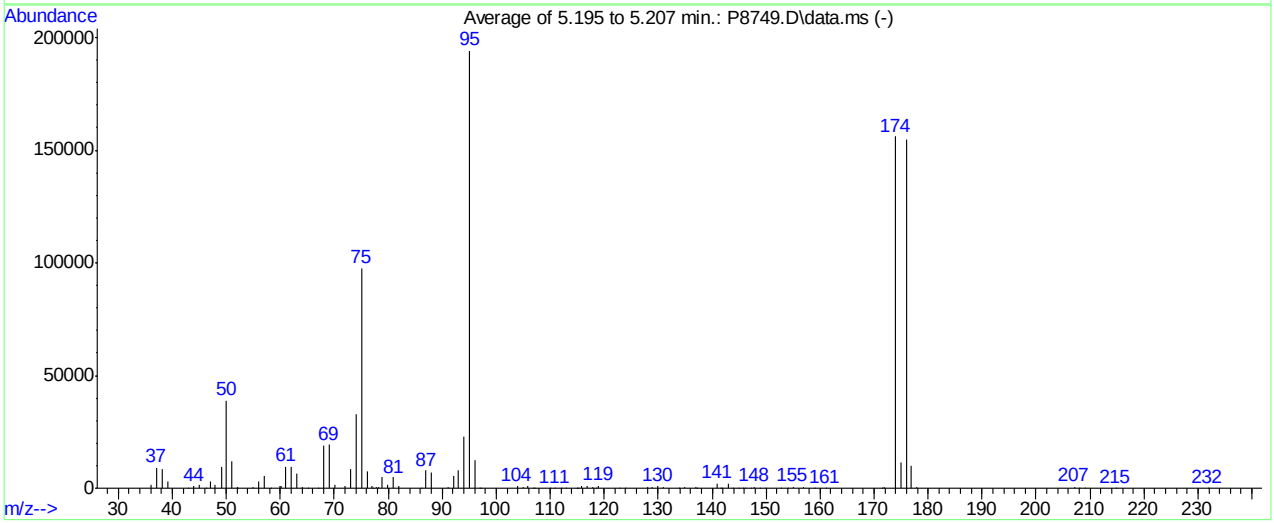
H0077059.D 072712APP9-H.M Mon Jul 30 06:56:17 2012

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\071612\P8749.D            Vial: 100
Acq On    : 16 Jul 2012  10:13 am                   Operator: EileenG
Sample    : BFB                                     Inst    : MSVOA13
Misc      : MS21485,VP354,,,,,                      Multiplr: 1.00
MS Integration Params: tiny.p

Method    : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 182, 183, 184; Background Corrected with Scan 174

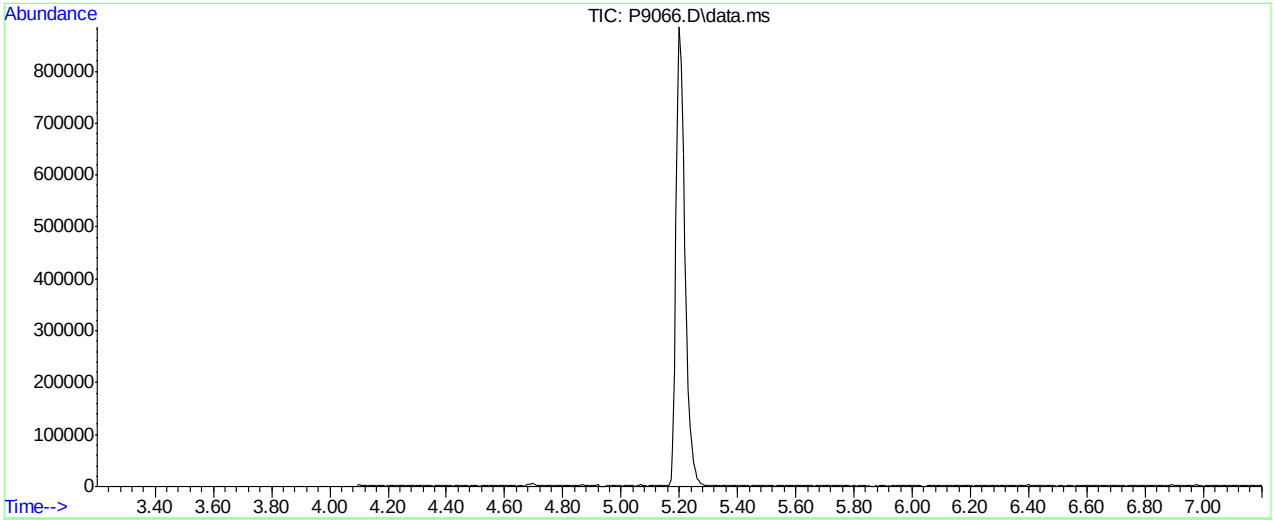
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	39002	PASS
75	95	30	60	50.3	97733	PASS
95	95	100	100	100.0	194261	PASS
96	95	5	9	6.3	12219	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.3	156010	PASS
175	174	5	9	7.5	11644	PASS
176	174	95	101	99.3	154901	PASS
177	176	5	9	6.5	10067	PASS

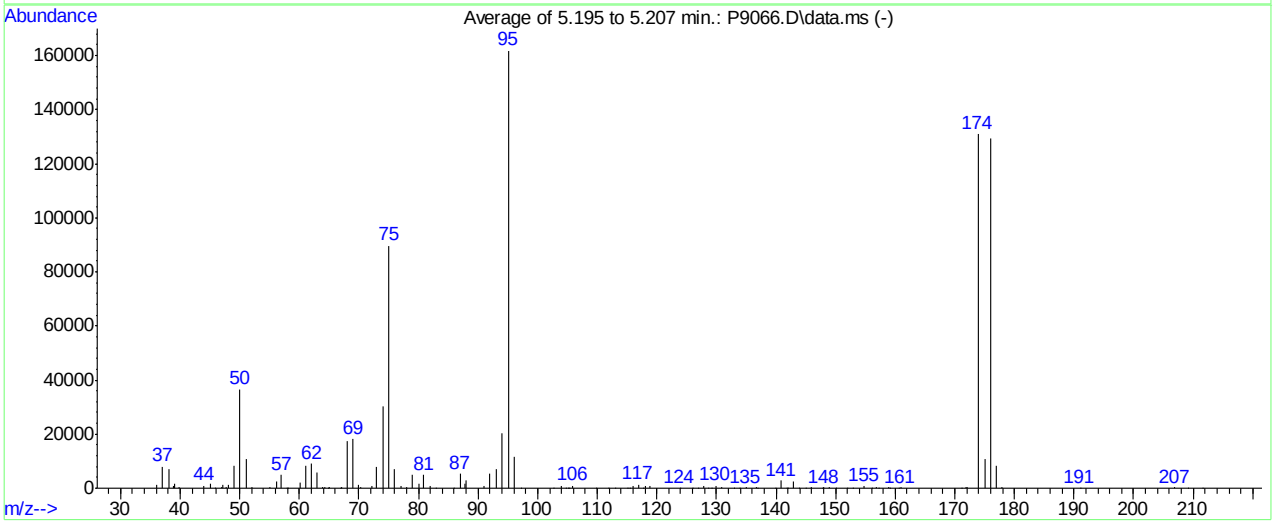
P8749.D 8260P.m Tue Jul 17 09:35:42 2012

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\072812\P9066.D Vial: 100
Acq On : 28 Jul 2012 9:58 am Operator: EileenG
Sample : BFB Inst : MSVOA13
Misc : MS21485,VP366,,,,, Multiplr: 1.00
MS Integration Params: tiny.p

Method : C:\msdchem\1\METHODS\8260P.m (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 182, 183, 184; Background Corrected with Scan 174

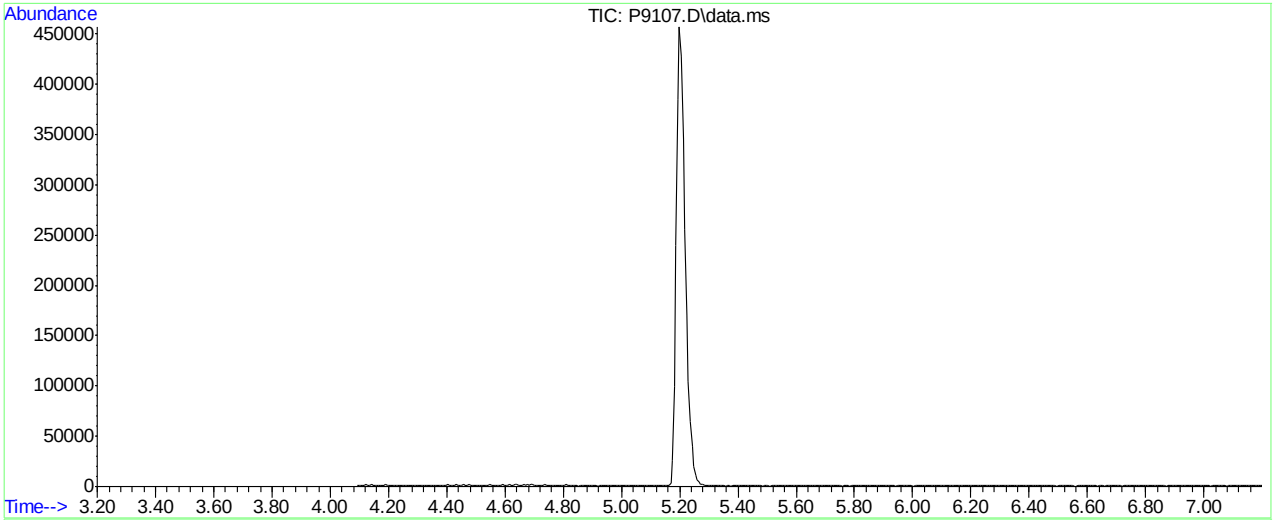
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.6	36586	PASS
75	95	30	60	55.4	89738	PASS
95	95	100	100	100.0	161877	PASS
96	95	5	9	7.1	11570	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.9	130970	PASS
175	174	5	9	8.2	10714	PASS
176	174	95	101	98.9	129477	PASS
177	176	5	9	6.5	8415	PASS

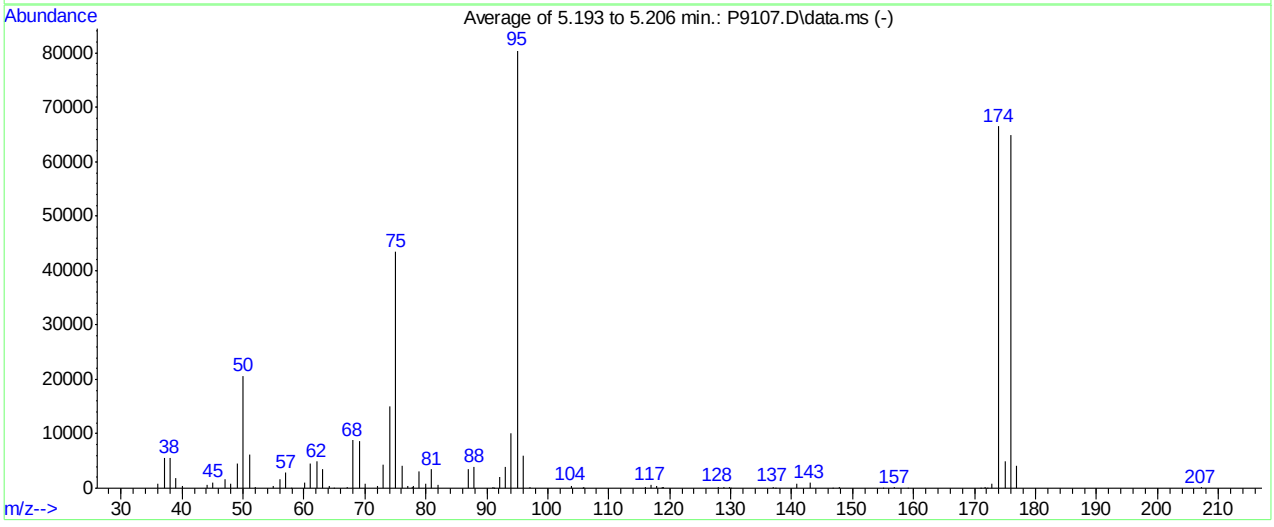
P9066.D 8260P.m Mon Jul 30 10:44:23 2012

Methods: SW-846 8260B

Data File : C:\MSDCHEM\1\DATA\073012\P9107.D Vial: 100
Acq On : 30 Jul 2012 1:12 pm Operator: EileenG
Sample : BFB Inst : MSVOA13
Misc : MS21485,VP369,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title :





AutoFind: Scans 182, 183, 184; Background Corrected with Scan 175

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.7	20658	PASS
75	95	30	60	53.9	43389	PASS
95	95	100	100	100.0	80458	PASS
96	95	5	9	7.5	6057	PASS
173	174	0.00	2	1.1	762	PASS
174	95	50	100	82.6	66477	PASS
175	174	5	9	7.5	5009	PASS
176	174	95	101	97.8	64984	PASS
177	176	5	9	6.4	4174	PASS

P9107.D BFB.M Mon Jul 30 13:20:40 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077060.D Vial: 1
Acq On : 27 Jul 2012 11:58 am Operator: ericp
Sample : IC2862-1 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:57:42 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:57:38 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.16	96	1134342	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	740830	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	346945	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.34	65	47066	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	242942	45.68	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 91.36%			
44) 1,2-Dichloroethane-d4	9.86	65	256781	42.88	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 85.76%			
55) Toluene-d8	11.79	98	1060924	47.87	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 95.74%			
77) 4-Bromofluorobenzene	14.57	174	319585	47.02	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 94.04%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.19	85	23715	4.80	ug/Kg	86
3) Chloromethane	4.58	50	46114	5.61	ug/Kg	96
4) Vinyl Chloride	4.78	62	37778	5.56	ug/Kg	81
5) Bromomethane	5.43	94	19992	5.47	ug/Kg	84
6) Chloroethane	5.58	64	25335	6.56	ug/Kg	90
7) Trichlorofluoromethane	5.93	101	42241	5.91	ug/Kg	93
8) Ethyl Ether	6.33	59	22140	4.07	ug/Kg	88
9) 1,2-Dichlorotrifluoroethan	6.38	67	51237	5.50	ug/Kg	92
10) 1,1-Dichloroethene	6.73	61	55233	5.08	ug/Kg	96
11) Freon 113	6.65	101	35477	5.67	ug/Kg	93
12) Carbon Disulfide	7.10	76	100999	4.70	ug/Kg	89
13) Iodomethane	7.01	142	60227	5.23	ug/Kg	94
14) Allyl chloride	7.23	41	62154	4.76	ug/Kg	81
15) Methylene Chloride	7.42	49	66287	6.22	ug/Kg	92
16) Acetone	6.83	43	37895	31.56	ug/Kg	96
17) Methyl acetate	7.20	43	108363	29.46	ug/Kg	98
18) trans-1,2-Dichloroethene	7.71	61	58374	4.94	ug/Kg	86
19) Hexane	7.91	56	28053	4.78	ug/Kg#	82
20) Methyl Tert Butyl Ether	7.64	73	59301	3.64	ug/Kg	93
21) Acetonitrile	7.30	41	13339	29.49	ug/Kg	93
22) Di-isopropyl ether	8.15	45	130825	4.27	ug/Kg	93
23) Chloroprene	8.34	53	59454	4.62	ug/Kg	89
24) 1,1-Dichloroethane	8.27	63	72246	5.04	ug/Kg	92
25) Acrylonitrile	7.79	53	20850	16.20	ug/Kg	94
26) ETBE	8.57	59	98362	4.05	ug/Kg	89
27) Vinyl acetate	8.23	43	32160	4.11	ug/Kg	93
28) cis-1,2-Dichloroethene	8.94	96	42594	5.72	ug/Kg	81
29) 2,2-Dichloropropane	8.92	77	56167	6.45	ug/Kg	92
30) Bromochloromethane	9.23	128	14018	4.24	ug/Kg#	67
31) Cyclohexane	9.48	56	76211	5.58	ug/Kg	95
32) Chloroform	9.26	83	66887	5.27	ug/Kg	91
33) Ethyl acetate	8.88	70	8588	18.85	ug/Kg#	54
34) Tetrahydrofuran	9.23	42	17596	8.09	ug/Kg#	1
36) Carbon Tetrachloride	9.63	117	42507	5.26	ug/Kg	91

(#) = qualifier out of range (m) = manual integration
H0077060.D 072712APP9-H.M Mon Jul 30 07:00:44 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077060.D Vial: 1
Acq On : 27 Jul 2012 11:58 am Operator: ericp
Sample : IC2862-1 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:57:42 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:57:38 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.47	97	49570	5.03 ug/Kg	84
38) 2-Butanone	8.92	72	7770	20.85 ug/Kg	77
39) 1,1-Dichloropropene	9.64	75	53440	5.50 ug/Kg	95
40) Propionitrile	9.08	54	17194	34.29 ug/Kg	89
41) Methacrylonitrile	9.21	41	108368	37.24 ug/Kg	92
42) Benzene	9.87	78	152724	5.42 ug/Kg#	14
43) TAME	9.86	73	77385	4.20 ug/Kg	93
45) 1,2-Dichloroethane	9.95	62	40361	5.27 ug/Kg	91
46) Trichloroethene	10.54	95	40982	5.53 ug/Kg	96
47) Methylcyclohexane	10.70	83	56071	4.88 ug/Kg	93
48) Dibromomethane	10.98	93	11871	3.96 ug/Kg	83
49) 1,2-Dichloropropane	10.84	63	35075	4.72 ug/Kg	90
50) Bromodichloromethane	11.09	83	34780	4.27 ug/Kg	97
51) Methyl methacrylate	10.79	41	18485	4.21 ug/Kg	80
52) 2-Chloroethyl vinyl ether	11.33	63	33038	12.06 ug/Kg#	63
53) cis-1,3-Dichloropropene	11.54	75	39952	3.71 ug/Kg	86
56) Toluene	11.86	91	152515	5.29 ug/Kg	93
57) 2-Nitropropane	11.38	41	18260	15.70 ug/Kg	79
58) 4-Methyl-2-pentanone	11.62	43	81193	18.05 ug/Kg	91
59) trans-1,3-Dichloropropene	12.12	75	26715	3.44 ug/Kg	94
60) Tetrachloroethene	12.43	166	60726	5.99 ug/Kg	95
61) Ethyl methacrylate	12.05	69	9488	1.66 ug/Kg	90
62) 1,1,2-Trichloroethane	12.32	83	19139	4.96 ug/Kg	83
63) Dibromochloromethane	12.77	129	19191	3.83 ug/Kg	87
64) 1,3-Dichloropropane	12.52	76	37767	4.40 ug/Kg	96
65) 1,2-Dibromoethane	12.94	107	15622	3.93 ug/Kg#	67
66) 2-hexanone	12.48	43	50024	16.48 ug/Kg	90
67) 1-Chlorohexane	13.22	91	46668	4.90 ug/Kg	93
68) Ethylbenzene	13.40	91	178362	5.60 ug/Kg	98
69) Chlorobenzene	13.39	112	104569	6.10 ug/Kg	93
70) 1,1,1,2-Tetrachloroethane	13.44	131	27795	4.78 ug/Kg	91
71) m,p-Xylene	13.52	91	273955	10.90 ug/Kg	97
72) o-Xylene	13.96	91	124099	4.95 ug/Kg	97
73) Styrene	13.99	104	75002	4.26 ug/Kg	84
74) Bromoform	14.27	173	8928	3.03 ug/Kg	91
75) Isopropylbenzene	14.30	105	119234	4.51 ug/Kg	96
78) cis-1,4-Dichloro-2-butene	14.44	53	3630	2.69 ug/Kg#	47
79) n-Propylbenzene	14.73	91	166593	5.09 ug/Kg	99
80) Bromobenzene	14.76	156	44185	6.09 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	14.68	83	19867	4.88 ug/Kg	87
82) 1,3,5-Trimethylbenzene	14.89	105	128050	5.16 ug/Kg	94
83) 2-Chlorotoluene	14.91	91	130833	5.20 ug/Kg	99
84) trans-1,4-Dichloro-2-Buten	14.73	53	5504	3.43 ug/Kg#	73
85) 1,2,3-Trichloropropane	14.77	110	5882	5.47 ug/Kg#	72
86) Cyclohexanone	14.56	55	4102	32.65 ug/Kg#	1
87) 4-Chlorotoluene	15.03	91	111939	5.23 ug/Kg	94
88) tert-Butylbenzene	15.25	91	69042	4.71 ug/Kg	83
89) 1,2,4-Trimethylbenzene	15.30	105	113150	4.60 ug/Kg	91
90) Pentachloroethane	15.37	167	8843	3.34 ug/Kg#	72

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077060.D Vial: 1
Acq On : 27 Jul 2012 11:58 am Operator: ericp
Sample : IC2862-1 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:57:42 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:57:38 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.47	105	145151	5.06	ug/Kg	99
92)	4-Isopropyltoluene	15.60	119	103098	4.60	ug/Kg	94
93)	1,3-Dichlorobenzene	15.72	146	69750	5.36	ug/Kg	87
94)	1,4-Dichlorobenzene	15.82	146	69383	5.12	ug/Kg	94
95)	n-Butylbenzene	16.03	92	61849	5.22	ug/Kg	97
96)	Benzyl Chloride	15.94	126	2730	2.01	ug/Kg	91
97)	1,2-Dichlorobenzene	16.23	146	66000	5.65	ug/Kg	90
98)	1,2-Dibromo-3-Chloropropan	17.05	75	1940	3.60	ug/Kg#	54
99)	Hexachlorobutadiene	18.01	225	37856	6.48	ug/Kg	88
100)	1,2,4-Trichlorobenzene	17.94	180	42488	5.40	ug/Kg	91
101)	Naphthalene	18.28	128	50695	5.44	ug/Kg	91
102)	1,2,3-Trichlorobenzene	18.57	180	33955	6.00	ug/Kg	94
104)	Ethanol	6.20	45	9997	363.36	ug/Kg	63
105)	Acrolein	6.64	56	4418	16.53	ug/Kg	95
106)	Tert Butyl Alcohol	7.43	59	23338	76.75	ug/Kg	83
107)	Isobutyl alcohol	9.64	42	6198	77.76	ug/Kg#	1
108)	Tert Amyl Alcohol	9.73	59	7523	31.36	ug/Kg	85
109)	1,4-Dioxane	10.91	88	4481	158.67	ug/Kg#	64

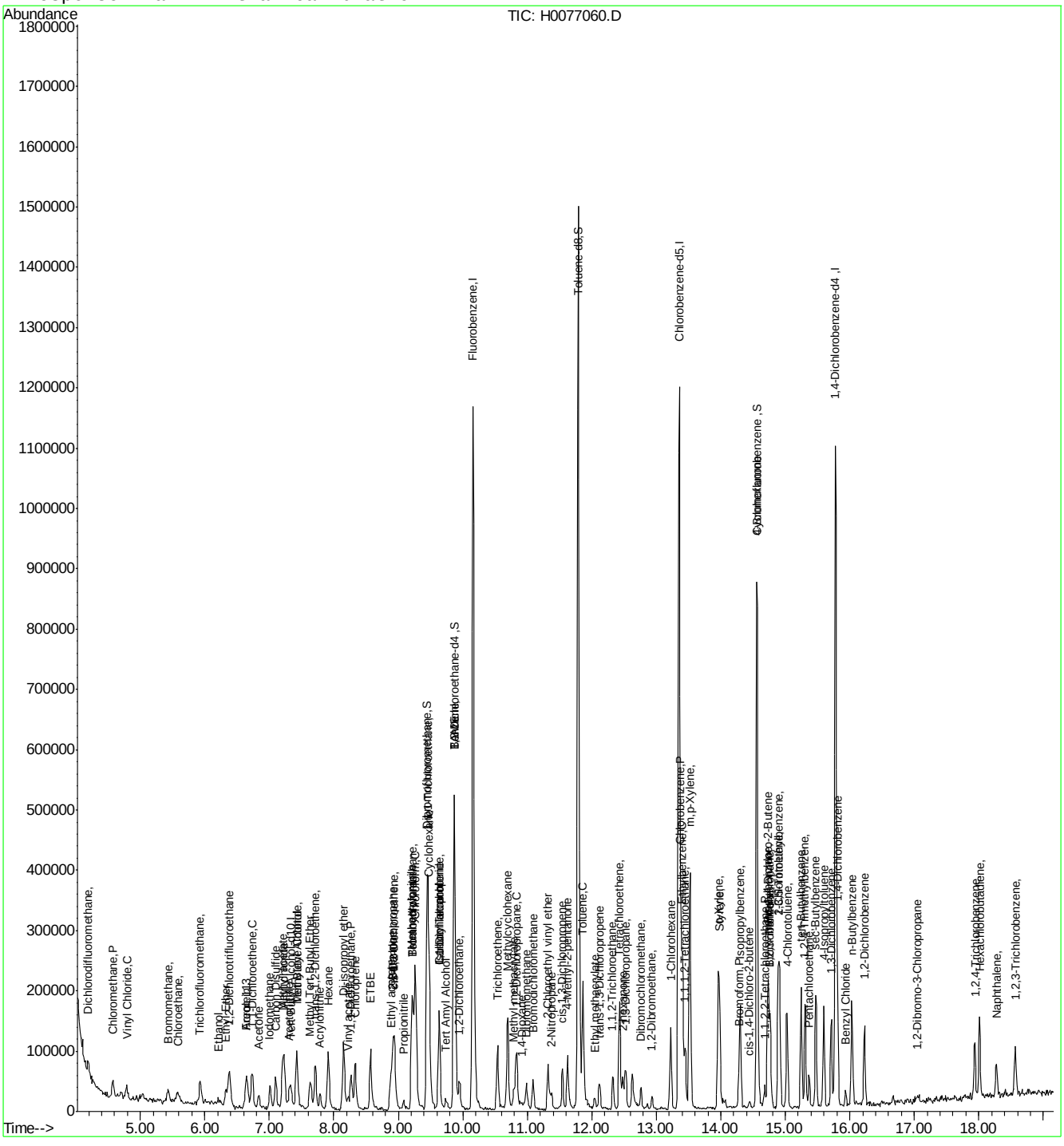
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES F95274

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077060.D Vial: 1
Acq On : 27 Jul 2012 11:58 am Operator: ericp
Sample : IC2862-1 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:01 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077061.D Vial: 2
Acq On : 27 Jul 2012 12:24 pm Operator: ericp
Sample : IC2862-2 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:58:33 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:22 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.16	96	1147537	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	749615	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.78	152	341602	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	49085	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	368503	74.97	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 149.94%#			
44) 1,2-Dichloroethane-d4	9.86	65	398230	76.65	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 153.30%#			
55) Toluene-d8	11.79	98	1579907	73.59	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 147.18%#			
77) 4-Bromofluorobenzene	14.57	174	464614	73.83	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 147.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.19	85	61385	12.79	ug/Kg	99
3) Chloromethane	4.58	50	85004	9.11	ug/Kg	96
4) Vinyl Chloride	4.78	62	75872	9.93	ug/Kg	96
5) Bromomethane	5.43	94	42926	10.61	ug/Kg	95
6) Chloroethane	5.58	64	46126	9.00	ug/Kg	86
7) Trichlorofluoromethane	5.92	101	86979	10.18	ug/Kg	91
8) Ethyl Ether	6.32	59	47843	10.68	ug/Kg	84
9) 1,2-Dichlorotrifluoroethan	6.38	67	106322	10.26	ug/Kg	91
10) 1,1-Dichloroethene	6.73	61	112844	10.10	ug/Kg	97
11) Freon 113	6.65	101	73290	10.21	ug/Kg	91
12) Carbon Disulfide	7.10	76	213081	10.43	ug/Kg	98
13) Iodomethane	7.02	142	121316	9.96	ug/Kg	90
14) Allyl chloride	7.22	41	121895	9.69	ug/Kg	97
15) Methylene Chloride	7.42	49	108075	8.06	ug/Kg	97
16) Acetone	6.84	43	64000	41.74	ug/Kg	86
17) Methyl acetate	7.20	43	223809	51.04	ug/Kg	98
18) trans-1,2-Dichloroethene	7.71	61	120751	10.22	ug/Kg	90
19) Hexane	7.90	56	59734	10.52	ug/Kg	91
20) Methyl Tert Butyl Ether	7.64	73	135245	11.27	ug/Kg	99
21) Acetonitrile	7.30	41	39483	146.30	ug/Kg	84
22) Di-isopropyl ether	8.15	45	254269	9.61	ug/Kg	97
23) Chloroprene	8.34	53	125656	10.45	ug/Kg	91
24) 1,1-Dichloroethane	8.27	63	141926	9.71	ug/Kg	95
25) Acrylonitrile	7.78	53	51728	61.31	ug/Kg	90
26) ETBE	8.57	59	209101	10.51	ug/Kg	95
27) Vinyl acetate	8.23	43	52681	40.48	ug/Kg	98
28) cis-1,2-Dichloroethene	8.95	96	74631	8.66	ug/Kg	91
29) 2,2-Dichloropropane	8.92	77	92225	8.12	ug/Kg	94
30) Bromochloromethane	9.23	128	34726	12.24	ug/Kg	93
31) Cyclohexane	9.48	56	136449	8.85	ug/Kg	89
32) Chloroform	9.26	83	132087	9.76	ug/Kg	94
33) Ethyl acetate	8.88	70	19932	57.36	ug/Kg	83
34) Tetrahydrofuran	9.21	42	19688	5.53	ug/Kg#	52
36) Carbon Tetrachloride	9.63	117	82719	9.62	ug/Kg	97

(#) = qualifier out of range (m) = manual integration
H0077061.D 072712APP9-H.M Mon Jul 30 07:01:02 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077061.D Vial: 2
Acq On : 27 Jul 2012 12:24 pm Operator: ericp
Sample : IC2862-2 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:58:33 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:22 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.47	97	111822	11.15 ug/Kg	97
38) 2-Butanone	8.92	72	15360	48.85 ug/Kg	68
39) 1,1-Dichloropropene	9.64	75	111117	10.28 ug/Kg	92
40) Propionitrile	9.07	54	42832	123.12 ug/Kg	84
41) Methacrylonitrile	9.21	41	253239	115.50 ug/Kg	97
42) Benzene	9.87	78	298253	9.65 ug/Kg#	30
43) TAME	9.86	73	160646	10.26 ug/Kg	96
45) 1,2-Dichloroethane	9.95	62	80601	9.87 ug/Kg	92
46) Trichloroethene	10.53	95	78648	9.49 ug/Kg	91
47) Methylcyclohexane	10.70	83	113806	10.03 ug/Kg	97
48) Dibromomethane	10.98	93	28046	11.68 ug/Kg	87
49) 1,2-Dichloropropane	10.84	63	72747	10.25 ug/Kg	95
50) Bromodichloromethane	11.09	83	76909	10.93 ug/Kg#	77
51) Methyl methacrylate	10.79	41	35274	9.43 ug/Kg	93
52) 2-Chloroethyl vinyl ether	11.33	63	76739	57.40 ug/Kg	94
53) cis-1,3-Dichloropropene	11.54	75	82384	10.19 ug/Kg	75
56) Toluene	11.86	91	320702	10.39 ug/Kg	100
57) 2-Nitropropane	11.37	41	37278	50.44 ug/Kg	88
58) 4-Methyl-2-pentanone	11.62	43	183333	55.79 ug/Kg	92
59) trans-1,3-Dichloropropene	12.12	75	55772	10.32 ug/Kg	93
60) Tetrachloroethene	12.43	166	111359	9.06 ug/Kg	97
61) Ethyl methacrylate	12.05	69	21413	11.15 ug/Kg	94
62) 1,1,2-Trichloroethane	12.33	83	36950	9.54 ug/Kg	91
63) Dibromochloromethane	12.75	129	39336	10.13 ug/Kg	95
64) 1,3-Dichloropropane	12.53	76	77400	10.13 ug/Kg	84
65) 1,2-Dibromoethane	12.93	107	35560	11.25 ug/Kg	91
66) 2-hexanone	12.48	43	116842	57.71 ug/Kg	91
67) 1-Chlorohexane	13.23	91	91498	9.69 ug/Kg	98
68) Ethylbenzene	13.40	91	339072	9.39 ug/Kg	94
69) Chlorobenzene	13.38	112	186752	8.82 ug/Kg	95
70) 1,1,1,2-Tetrachloroethane	13.44	131	61679	10.97 ug/Kg	93
71) m,p-Xylene	13.52	91	562234	20.28 ug/Kg	97
72) o-Xylene	13.97	91	269116	10.72 ug/Kg	93
73) Styrene	13.99	104	170550	11.24 ug/Kg	90
74) Bromoform	14.28	173	23061	12.76 ug/Kg	83
75) Isopropylbenzene	14.30	105	262484	10.88 ug/Kg	100
78) cis-1,4-Dichloro-2-butene	14.45	53	11010	15.40 ug/Kg#	71
79) n-Propylbenzene	14.73	91	349874	10.67 ug/Kg	94
80) Bromobenzene	14.76	156	80179	9.22 ug/Kg	94
81) 1,1,2,2-Tetrachloroethane	14.67	83	39601	10.12 ug/Kg	91
82) 1,3,5-Trimethylbenzene	14.89	105	261689	10.38 ug/Kg	85
83) 2-Chlorotoluene	14.91	91	253536	9.84 ug/Kg	93
84) trans-1,4-Dichloro-2-Buten	14.73	53	13410	12.37 ug/Kg	82
85) 1,2,3-Trichloropropane	14.76	110	12566	10.85 ug/Kg#	77
86) Cyclohexanone	14.56	55	6728	41.65 ug/Kg#	1
87) 4-Chlorotoluene	15.03	91	219340	9.95 ug/Kg	97
88) tert-Butylbenzene	15.24	91	157750	11.60 ug/Kg	92
89) 1,2,4-Trimethylbenzene	15.30	105	261584	11.74 ug/Kg	85
90) Pentachloroethane	15.37	167	26226	15.06 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077061.D Vial: 2
Acq On : 27 Jul 2012 12:24 pm Operator: ericp
Sample : IC2862-2 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 12:58:33 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:22 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

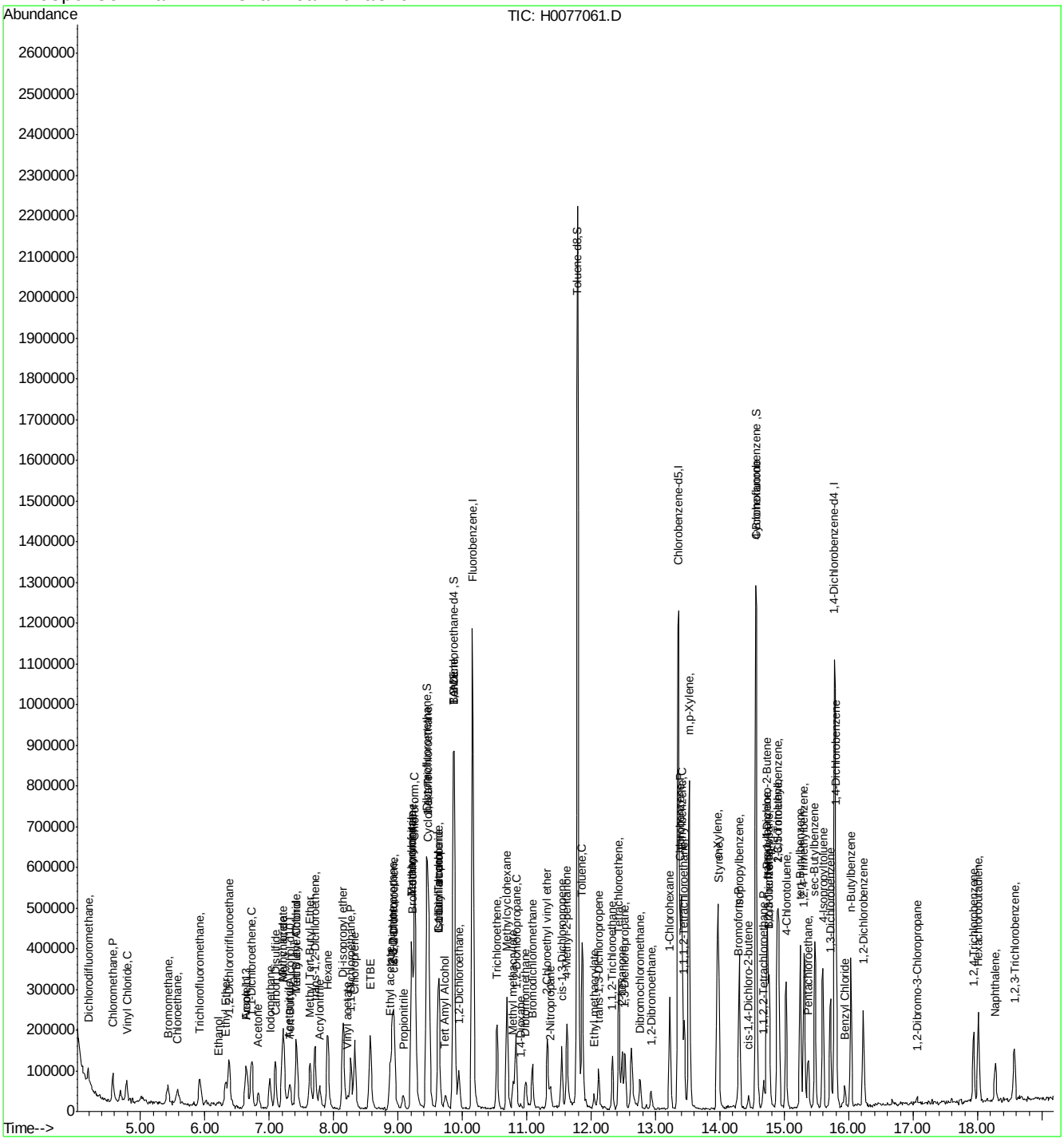
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.47	105	315216	11.03	ug/Kg	96
92)	4-Isopropyltoluene	15.60	119	229425	11.30	ug/Kg	98
93)	1,3-Dichlorobenzene	15.72	146	139008	10.12	ug/Kg	99
94)	1,4-Dichlorobenzene	15.81	146	135090	9.89	ug/Kg	94
95)	n-Butylbenzene	16.03	92	117180	9.62	ug/Kg	87
96)	Benzyl Chloride	15.93	126	7009	13.04	ug/Kg#	66
97)	1,2-Dichlorobenzene	16.23	146	121315	9.33	ug/Kg	99
98)	1,2-Dibromo-3-Chloropropan	17.06	75	3704	9.70	ug/Kg	86
99)	Hexachlorobutadiene	18.01	225	68286	9.16	ug/Kg	94
100)	1,2,4-Trichlorobenzene	17.94	180	73617	8.80	ug/Kg	95
101)	Naphthalene	18.28	128	83972	8.41	ug/Kg	93
102)	1,2,3-Trichlorobenzene	18.57	180	57633	8.62	ug/Kg	89
104)	Ethanol	6.21	45	12526	120.14	ug/Kg	63
105)	Acrolein	6.64	56	11725	63.62	ug/Kg	99
106)	Tert Butyl Alcohol	7.43	59	47435	97.45	ug/Kg	86
107)	Isobutyl alcohol	9.64	42	15719	243.18	ug/Kg#	1
108)	Tert Amyl Alcohol	9.74	59	21706	138.33	ug/Kg	84
109)	1,4-Dioxane	10.90	88	6572	140.63	ug/Kg	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077061.D Vial: 2
Acq On : 27 Jul 2012 12:24 pm Operator: ericp
Sample : IC2862-2 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:02 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 16:19

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:08:43 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:56 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1129921	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	756161	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.78	152	340103	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	42185	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	495714	98.91	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 197.82%#			
44) 1,2-Dichloroethane-d4	9.86	65	511784	95.51	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 191.02%#			
55) Toluene-d8	11.79	98	2100264	94.55	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 189.10%#			
77) 4-Bromofluorobenzene	14.57	174	620528	96.40	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 192.80%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.19	85	117962	21.91	ug/Kg	92
3) Chloromethane	4.58	50	167871	19.12	ug/Kg	94
4) Vinyl Chloride	4.79	62	157074	20.95	ug/Kg	92
5) Bromomethane	5.43	94	83998	20.46	ug/Kg	98
6) Chloroethane	5.57	64	91312	19.05	ug/Kg	93
7) Trichlorofluoromethane	5.94	101	176672	20.81	ug/Kg	93
8) Ethyl Ether	6.32	59	89723	19.67	ug/Kg	94
9) 1,2-Dichlorotrifluoroethan	6.38	67	214969	20.79	ug/Kg	96
10) 1,1-Dichloroethene	6.72	61	229210	20.73	ug/Kg	91
11) Freon 113	6.65	101	139862	19.58	ug/Kg	95
12) Carbon Disulfide	7.11	76	443742	21.59	ug/Kg	95
13) Iodomethane	7.01	142	234889	19.62	ug/Kg	97
14) Allyl chloride	7.23	41	251127	20.60	ug/Kg	93
15) Methylene Chloride	7.42	49	203544	17.07	ug/Kg	98
16) Acetone	6.84	43	126072	91.02	ug/Kg	92
17) Methyl acetate	7.20	43	320959	73.57	ug/Kg	97
18) trans-1,2-Dichloroethene	7.72	61	242178	20.59	ug/Kg	95
19) Hexane	7.91	56	119162	20.78	ug/Kg#	76
20) Methyl Tert Butyl Ether	7.64	73	261665	20.82	ug/Kg	93
21) Acetonitrile	7.31	41	78892	241.07	ug/Kg	78
22) Di-isopropyl ether	8.15	45	531530	20.80	ug/Kg	99
23) Chloroprene	8.34	53	273008	22.55	ug/Kg	97
24) 1,1-Dichloroethane	8.27	63	297143	20.95	ug/Kg	98
25) Acrylonitrile	7.79	53	106958	115.67	ug/Kg	90
26) ETBE	8.57	59	403416	20.08	ug/Kg	97
27) Vinyl acetate	8.22	43	548983	473.50	ug/Kg	100
28) cis-1,2-Dichloroethene	8.95	96	155299	19.62	ug/Kg	93
29) 2,2-Dichloropropane	8.92	77	210571	20.78	ug/Kg	94
30) Bromochloromethane	9.23	128	59337	19.10	ug/Kg#	73
31) Cyclohexane	9.49	56	292411	20.44	ug/Kg	95
32) Chloroform	9.26	83	265042	20.13	ug/Kg	98
33) Ethyl acetate	8.88	70	38824	105.69	ug/Kg	87
34) Tetrahydrofuran	9.27	42	75465	27.72	ug/Kg#	31
36) Carbon Tetrachloride	9.63	117	184243	22.18	ug/Kg	98

(#) = qualifier out of range (m) = manual integration
H0077062.D 072712APP9-H.M Mon Jul 30 07:01:17 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:08:43 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:56 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.47	97	226178	21.66 ug/Kg	90
38) 2-Butanone	8.92	72	37116	121.28 ug/Kg	81
39) 1,1-Dichloropropene	9.64	75	222821	20.64 ug/Kg	94
40) Propionitrile	9.08	54	87389	228.68 ug/Kg	96
41) Methacrylonitrile	9.21	41	450217	193.54 ug/Kg	98
42) Benzene	9.87	78	600330	20.08 ug/Kg	48
43) TAME	9.86	73	308477	19.75 ug/Kg	98
45) 1,2-Dichloroethane	9.95	62	165528	20.72 ug/Kg	97
46) Trichloroethene	10.54	95	160386	20.16 ug/Kg	96
47) Methylcyclohexane	10.70	83	236281	21.12 ug/Kg	95
48) Dibromomethane	10.98	93	55900	21.81 ug/Kg	85
49) 1,2-Dichloropropane	10.84	63	137651	19.46 ug/Kg	91
50) Bromodichloromethane	11.09	83	154925	21.37 ug/Kg	91
51) Methyl methacrylate	10.83	41	102260m	28.58 ug/Kg	
52) 2-Chloroethyl vinyl ether	11.33	63	170025	120.26 ug/Kg	92
53) cis-1,3-Dichloropropene	11.55	75	174152	21.67 ug/Kg	95
56) Toluene	11.87	91	628978	19.82 ug/Kg	97
57) 2-Nitropropane	11.37	41	78978	105.47 ug/Kg	96
58) 4-Methyl-2-pentanone	11.62	43	344501	98.24 ug/Kg	98
59) trans-1,3-Dichloropropene	12.12	75	123087	22.22 ug/Kg	94
60) Tetrachloroethene	12.43	166	227970	19.30 ug/Kg	90
61) Ethyl methacrylate	12.05	69	76661	37.42 ug/Kg	80
62) 1,1,2-Trichloroethane	12.33	83	63932	16.75 ug/Kg	94
63) Dibromochloromethane	12.77	129	83683	21.22 ug/Kg	87
64) 1,3-Dichloropropane	12.53	76	153166	19.74 ug/Kg	93
65) 1,2-Dibromoethane	12.93	107	68814	20.31 ug/Kg	99
66) 2-hexanone	12.48	43	222611	101.20 ug/Kg	95
67) 1-Chlorohexane	13.23	91	201179	21.45 ug/Kg	94
68) Ethylbenzene	13.41	91	713795	20.22 ug/Kg	98
69) Chlorobenzene	13.39	112	365208	18.18 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	13.45	131	120137	20.20 ug/Kg	88
71) m,p-Xylene	13.52	91	1154316	40.99 ug/Kg	96
72) o-Xylene	13.97	91	543888	20.73 ug/Kg	98
73) Styrene	13.99	104	337393	20.75 ug/Kg	98
74) Bromoform	14.28	173	43440	20.94 ug/Kg	92
75) Isopropylbenzene	14.30	105	557913	21.96 ug/Kg	99
78) cis-1,4-Dichloro-2-butene	14.45	53	17382	19.23 ug/Kg#	75
79) n-Propylbenzene	14.73	91	738380	21.88 ug/Kg	96
80) Bromobenzene	14.76	156	154672	18.58 ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	14.68	83	78371	20.00 ug/Kg	94
82) 1,3,5-Trimethylbenzene	14.89	105	535540	20.94 ug/Kg	96
83) 2-Chlorotoluene	14.91	91	510480	20.06 ug/Kg	98
84) trans-1,4-Dichloro-2-Buten	14.73	53	24978	20.69 ug/Kg#	75
85) 1,2,3-Trichloropropane	14.77	110	21046	17.51 ug/Kg	88
86) Cyclohexanone	14.55	55	9663	65.55 ug/Kg#	1
87) 4-Chlorotoluene	15.03	91	443872	20.28 ug/Kg	97
88) tert-Butylbenzene	15.25	91	334553	22.88 ug/Kg	94
89) 1,2,4-Trimethylbenzene	15.30	105	515328	21.37 ug/Kg	96
90) Pentachloroethane	15.37	167	49077	22.59 ug/Kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:08:43 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 12:58:56 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

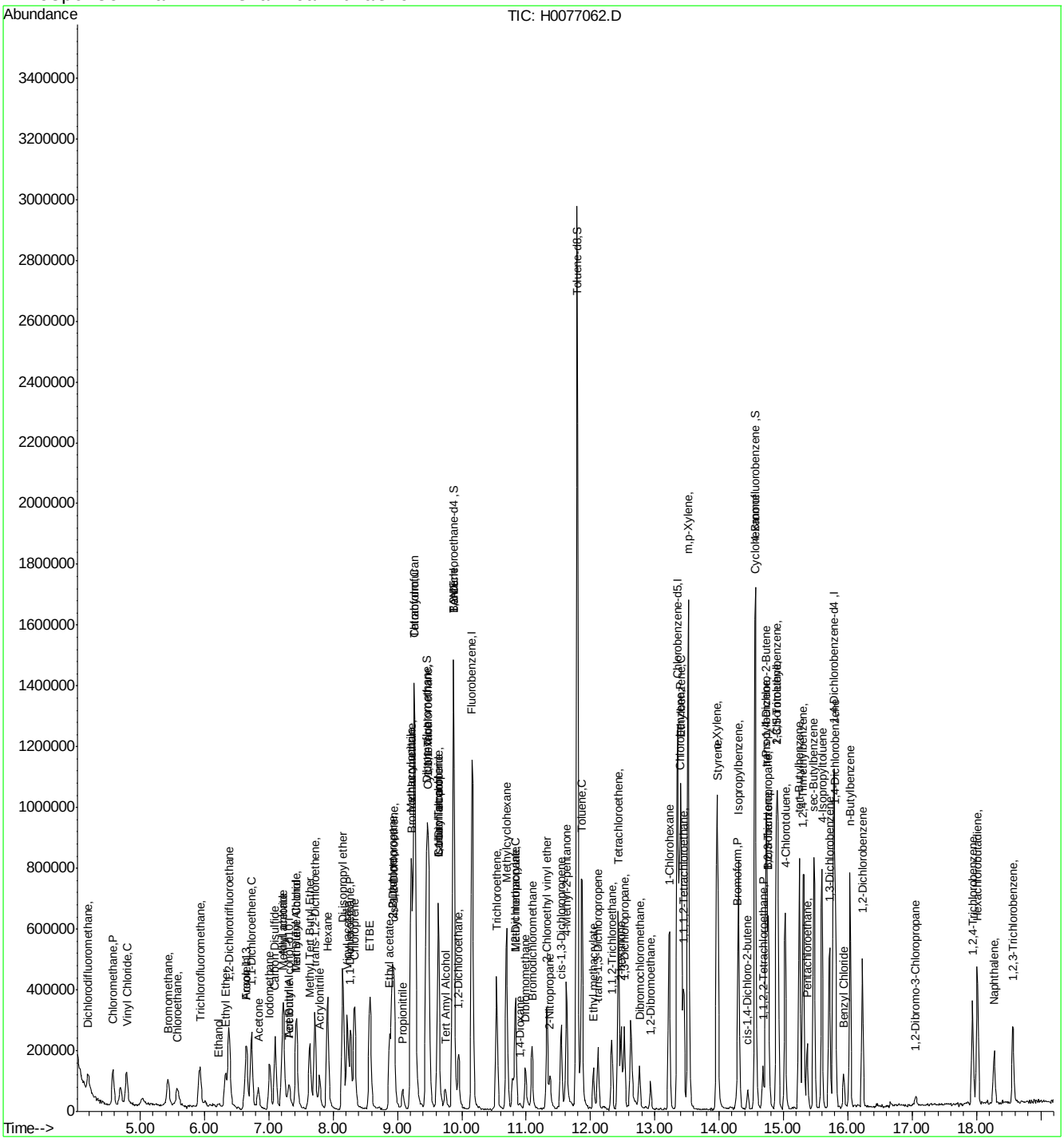
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.47	105	658714	22.02	ug/Kg	100
92)	4-Isopropyltoluene	15.60	119	489111	22.72	ug/Kg	94
93)	1,3-Dichlorobenzene	15.72	146	269918	19.62	ug/Kg	95
94)	1,4-Dichlorobenzene	15.81	146	275086	20.34	ug/Kg	97
95)	n-Butylbenzene	16.03	92	244066	20.52	ug/Kg	90
96)	Benzyl Chloride	15.93	126	14533	23.57	ug/Kg#	70
97)	1,2-Dichlorobenzene	16.23	146	226717	18.12	ug/Kg	92
98)	1,2-Dibromo-3-Chloropropan	17.06	75	8952	23.90	ug/Kg	87
99)	Hexachlorobutadiene	18.02	225	128497	18.07	ug/Kg	93
100)	1,2,4-Trichlorobenzene	17.94	180	141871	18.12	ug/Kg	95
101)	Naphthalene	18.28	128	158142	17.28	ug/Kg	97
102)	1,2,3-Trichlorobenzene	18.56	180	111653	18.02	ug/Kg	92
104)	Ethanol	6.21	45	17265	240.75	ug/Kg	69
105)	Acrolein	6.64	56	22983	127.71	ug/Kg	89
106)	Tert Butyl Alcohol	7.43	59	86463	209.35	ug/Kg	78
107)	Isobutyl alcohol	9.64	42	24144	392.27	ug/Kg#	1
108)	Tert Amyl Alcohol	9.74	59	41277	256.85	ug/Kg#	64
109)	1,4-Dioxane	10.92	88	12625	369.13	ug/Kg	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:47 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integration Approval Summary

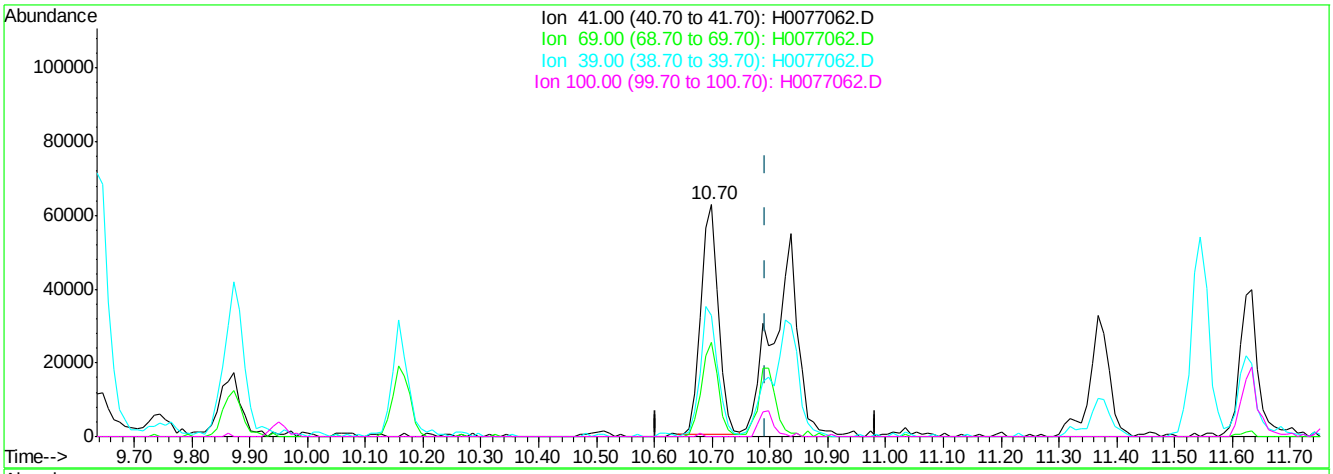
Sample Number:	VH2862-IC2862	**Method:**	SW846 8260B
Lab FileID:	H0077062.D	**Analyst approved:**	07/30/12 11:48 Eric Parrish
Injection Time:	07/27/12 12:50	**Supervisor approved:**	07/30/12 16:19 Juan Garcia

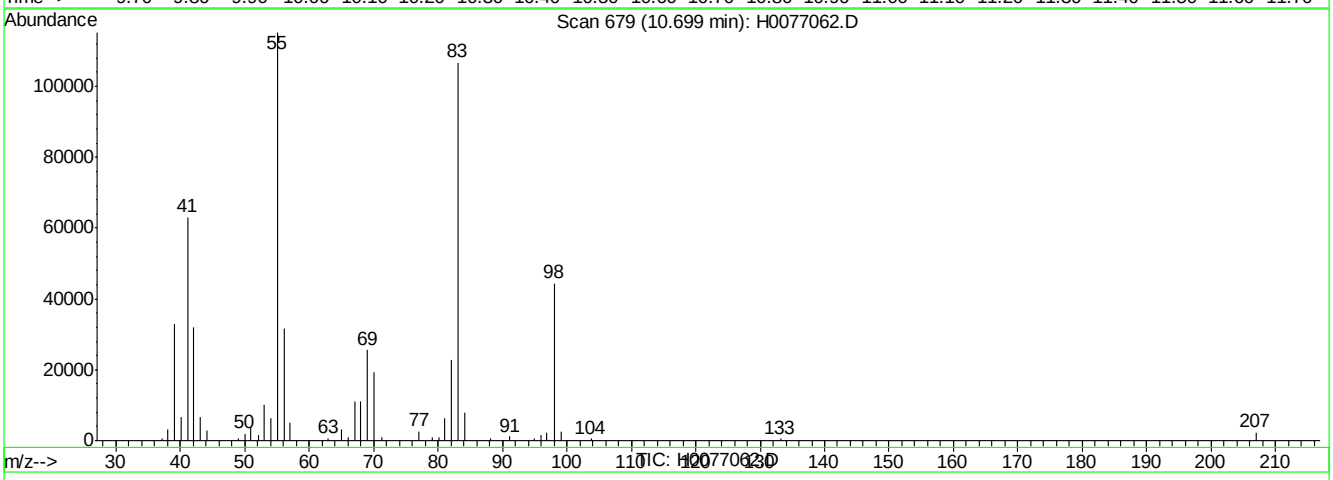
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl methacrylate	80-62-6		10.83	Poor instrument integration

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:12 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:42:08 2012
Response via : Multiple Level Calibration





(51) Methyl methacrylate

10.70min (-0.093) 37.32ug/Kg

response 133544

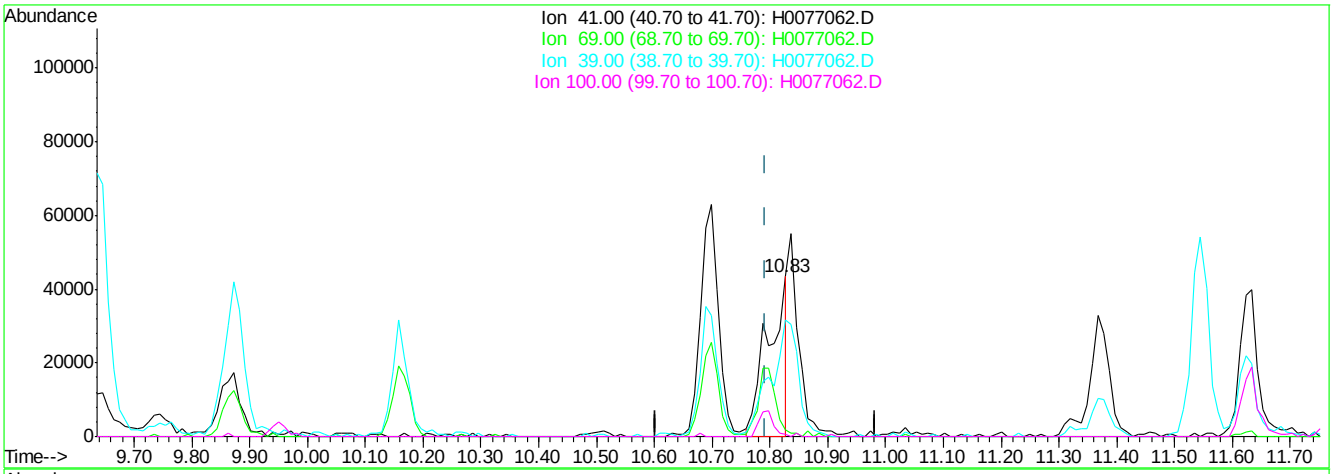
Ion	Exp%	Act%
41.00	100	100
69.00	67.30	40.81
39.00	50.30	52.55
100.00	24.30	0.00

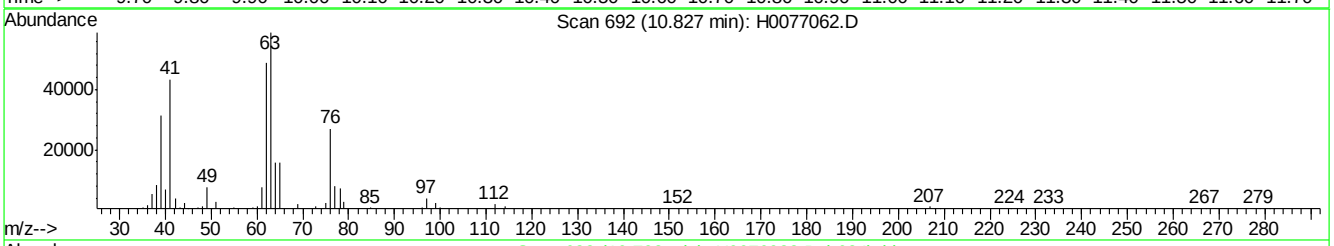
H0077062.D 072712APP9-H.M Fri Jul 27 14:43:04 2012

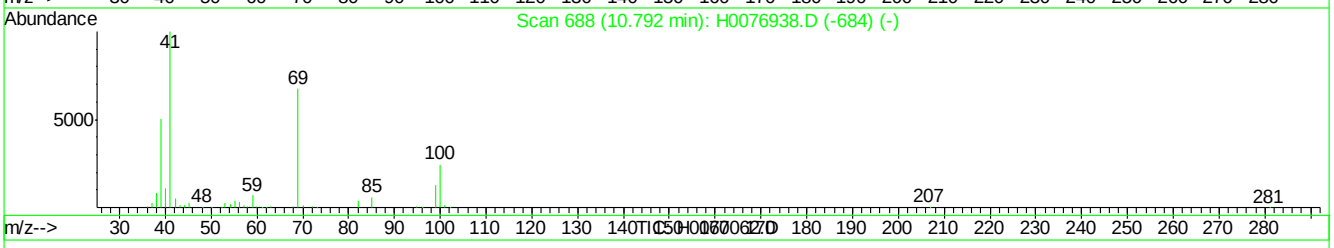
Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077062.D Vial: 3
Acq On : 27 Jul 2012 12:50 pm Operator: ericp
Sample : IC2862-3 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:47 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:42:08 2012
Response via : Multiple Level Calibration







(51) Methyl methacrylate

10.83min (+0.035) 28.58ug/Kg m

response 102260

Ion	Exp%	Act%
41.00	100	100
69.00	67.30	4.41#
39.00	50.30	72.64
100.00	24.30	1.66

H0077062.D 072712APP9-H.M Fri Jul 27 14:43:47 2012

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 16:19

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:47:26 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:09:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.16	96	1134143	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.35	117	753861	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.78	152	355235	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	54511	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	235729	45.36	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 90.72%			
44) 1,2-Dichloroethane-d4	9.87	65	267066	48.66	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 97.32%			
55) Toluene-d8	11.80	98	1099236	48.82	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 97.64%			
77) 4-Bromofluorobenzene	14.56	174	340098	49.41	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 98.82%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.20	85	299607	53.73	ug/Kg	94
3) Chloromethane	4.58	50	435619	50.17	ug/Kg	99
4) Vinyl Chloride	4.79	62	397782	52.03	ug/Kg	99
5) Bromomethane	5.44	94	219062	52.76	ug/Kg	88
6) Chloroethane	5.59	64	227240	47.98	ug/Kg	91
7) Trichlorofluoromethane	5.93	101	443294	51.33	ug/Kg	99
8) Ethyl Ether	6.32	59	245533	53.93	ug/Kg	86
9) 1,2-Dichlorotrifluoroethan	6.37	67	514355	48.92	ug/Kg	96
10) 1,1-Dichloroethene	6.73	61	591281	52.64	ug/Kg	96
11) Freon 113	6.65	101	365445	51.33	ug/Kg	95
12) Carbon Disulfide	7.10	76	1212245	57.25	ug/Kg	95
13) Iodomethane	7.01	142	634157	53.11	ug/Kg	99
14) Allyl chloride	7.23	41	683586	55.31	ug/Kg	96
15) Methylene Chloride	7.43	49	513658	45.12	ug/Kg	95
16) Acetone	6.84	43	318659	236.28	ug/Kg	94
17) Methyl acetate	7.20	43	824801	206.56	ug/Kg	97
18) trans-1,2-Dichloroethene	7.71	61	640295	53.71	ug/Kg	97
19) Hexane	7.91	56	315040	54.03	ug/Kg	88
20) Methyl Tert Butyl Ether	7.63	73	707792	55.36	ug/Kg	97
21) Acetonitrile	7.31	41	187775	535.03	ug/Kg	96
22) Di-isopropyl ether	8.15	45	1408837	54.21	ug/Kg	99
23) Chloroprene	8.33	53	710864	56.11	ug/Kg	97
24) 1,1-Dichloroethane	8.27	63	780218	53.95	ug/Kg	89
25) Acrylonitrile	7.79	53	281993	288.74	ug/Kg	95
26) ETBE	8.58	59	1082639	53.61	ug/Kg	96
27) Vinyl acetate	8.22	43	1689441	646.65	ug/Kg	99
28) cis-1,2-Dichloroethene	8.95	96	403635	51.12	ug/Kg	93
29) 2,2-Dichloropropane	8.92	77	530023	51.43	ug/Kg	99
30) Bromochloromethane	9.24	128	160043	52.11	ug/Kg	94
31) Cyclohexane	9.48	56	739927	51.15	ug/Kg	94
32) Chloroform	9.27	83	670124	50.60	ug/Kg	98
33) Ethyl acetate	8.88	70	106648	283.86	ug/Kg	98
34) Tetrahydrofuran	9.27	42	205329	66.58	ug/Kg#	28
36) Carbon Tetrachloride	9.63	117	493776	57.15	ug/Kg	96

(#) = qualifier out of range (m) = manual integration
H0077063.D 072712APP9-H.M Mon Jul 30 07:01:37 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:47:26 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:09:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.47	97	577081	53.57 ug/Kg	95
38) 2-Butanone	8.91	72	94447	287.10 ug/Kg	99
39) 1,1-Dichloropropene	9.64	75	557089	50.87 ug/Kg	91
40) Propionitrile	9.08	54	222076	552.56 ug/Kg	95
41) Methacrylonitrile	9.21	41	1315824	569.68 ug/Kg	99
42) Benzene	9.88	78	1558458	51.86 ug/Kg	100
43) TAME	9.87	73	806530	51.66 ug/Kg	99
45) 1,2-Dichloroethane	9.96	62	408551	50.35 ug/Kg	94
46) Trichloroethene	10.55	95	409188	51.11 ug/Kg	98
47) Methylcyclohexane	10.69	83	626596	54.78 ug/Kg	95
48) Dibromomethane	10.98	93	140299	52.94 ug/Kg#	78
49) 1,2-Dichloropropane	10.83	63	368802	52.41 ug/Kg	96
50) Bromodichloromethane	11.10	83	420397	56.48 ug/Kg	94
51) Methyl methacrylate	10.79	41	182570	39.45 ug/Kg	91
52) 2-Chloroethyl vinyl ether	11.32	63	487302	321.67 ug/Kg	98
53) cis-1,3-Dichloropropene	11.54	75	503717	60.76 ug/Kg	96
56) Toluene	11.87	91	1626636	51.56 ug/Kg	97
57) 2-Nitropropane	11.36	41	255942	336.71 ug/Kg	93
58) 4-Methyl-2-pentanone	11.63	43	990212	284.90 ug/Kg	97
59) trans-1,3-Dichloropropene	12.12	75	332452	58.05 ug/Kg	95
60) Tetrachloroethene	12.44	166	583937	50.16 ug/Kg	97
61) Ethyl methacrylate	12.04	69	253956	96.37 ug/Kg	95
62) 1,1,2-Trichloroethane	12.33	83	178199	49.51 ug/Kg	91
63) Dibromochloromethane	12.76	129	245566	61.22 ug/Kg	83
64) 1,3-Dichloropropane	12.52	76	397400	51.60 ug/Kg	74
65) 1,2-Dibromoethane	12.94	107	184180	54.25 ug/Kg	100
66) 2-hexanone	12.48	43	679668	308.68 ug/Kg	95
67) 1-Chlorohexane	13.22	91	558822	58.36 ug/Kg	91
68) Ethylbenzene	13.41	91	1852561	52.44 ug/Kg	100
69) Chlorobenzene	13.39	112	961686	49.51 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.45	131	324966	54.62 ug/Kg	97
71) m,p-Xylene	13.52	91	3001836	106.05 ug/Kg	99
72) o-Xylene	13.96	91	1469866	55.51 ug/Kg	98
73) Styrene	13.98	104	960139	58.50 ug/Kg	96
74) Bromoform	14.29	173	137251	65.34 ug/Kg	86
75) Isopropylbenzene	14.31	105	1503075	57.46 ug/Kg	95
78) cis-1,4-Dichloro-2-butene	14.44	53	54882	58.89 ug/Kg	92
79) n-Propylbenzene	14.73	91	1993232	54.83 ug/Kg	100
80) Bromobenzene	14.77	156	395825	46.63 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	14.68	83	209468	51.18 ug/Kg	78
82) 1,3,5-Trimethylbenzene	14.90	105	1455454	53.64 ug/Kg	99
83) 2-Chlorotoluene	14.92	91	1404082	52.77 ug/Kg	98
84) trans-1,4-Dichloro-2-Buten	14.74	53	71614	56.15 ug/Kg	85
85) 1,2,3-Trichloropropane	14.77	110	59336	49.30 ug/Kg	84
86) Cyclohexanone	14.55	55	27439	201.33 ug/Kg	89
87) 4-Chlorotoluene	15.02	91	1187055	51.68 ug/Kg	100
88) tert-Butylbenzene	15.25	91	899675	56.21 ug/Kg	94
89) 1,2,4-Trimethylbenzene	15.31	105	1406448	54.59 ug/Kg	97
90) Pentachloroethane	15.37	167	139820	59.07 ug/Kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:47:26 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:09:06 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	1765647	54.66	ug/Kg	96
92)	4-Isopropyltoluene	15.60	119	1347367	57.32	ug/Kg	96
93)	1,3-Dichlorobenzene	15.71	146	718995	50.36	ug/Kg	99
94)	1,4-Dichlorobenzene	15.81	146	704952	49.62	ug/Kg	98
95)	n-Butylbenzene	16.04	92	705192	56.27	ug/Kg	93
96)	Benzyl Chloride	15.93	126	49284	72.23	ug/Kg#	81
97)	1,2-Dichlorobenzene	16.23	146	608943	48.11	ug/Kg	97
98)	1,2-Dibromo-3-Chloropropan	17.05	75	25085	60.21	ug/Kg#	68
99)	Hexachlorobutadiene	18.02	225	358897	49.93	ug/Kg	95
100)	1,2,4-Trichlorobenzene	17.94	180	361449	45.63	ug/Kg	98
101)	Naphthalene	18.27	128	445086	48.78	ug/Kg	96
102)	1,2,3-Trichlorobenzene	18.57	180	308375	49.27	ug/Kg	95
104)	Ethanol	6.22	45	42897	533.74	ug/Kg	93
105)	Acrolein	6.65	56	71579	281.78	ug/Kg	92
106)	Tert Butyl Alcohol	7.44	59	231573	427.25	ug/Kg	82
107)	Isobutyl alcohol	9.63	42	82133	1039.38	ug/Kg#	37
108)	Tert Amyl Alcohol	9.74	59	121805	535.80	ug/Kg	93
109)	1,4-Dioxane	10.91	88	31959m	742.22	ug/Kg	

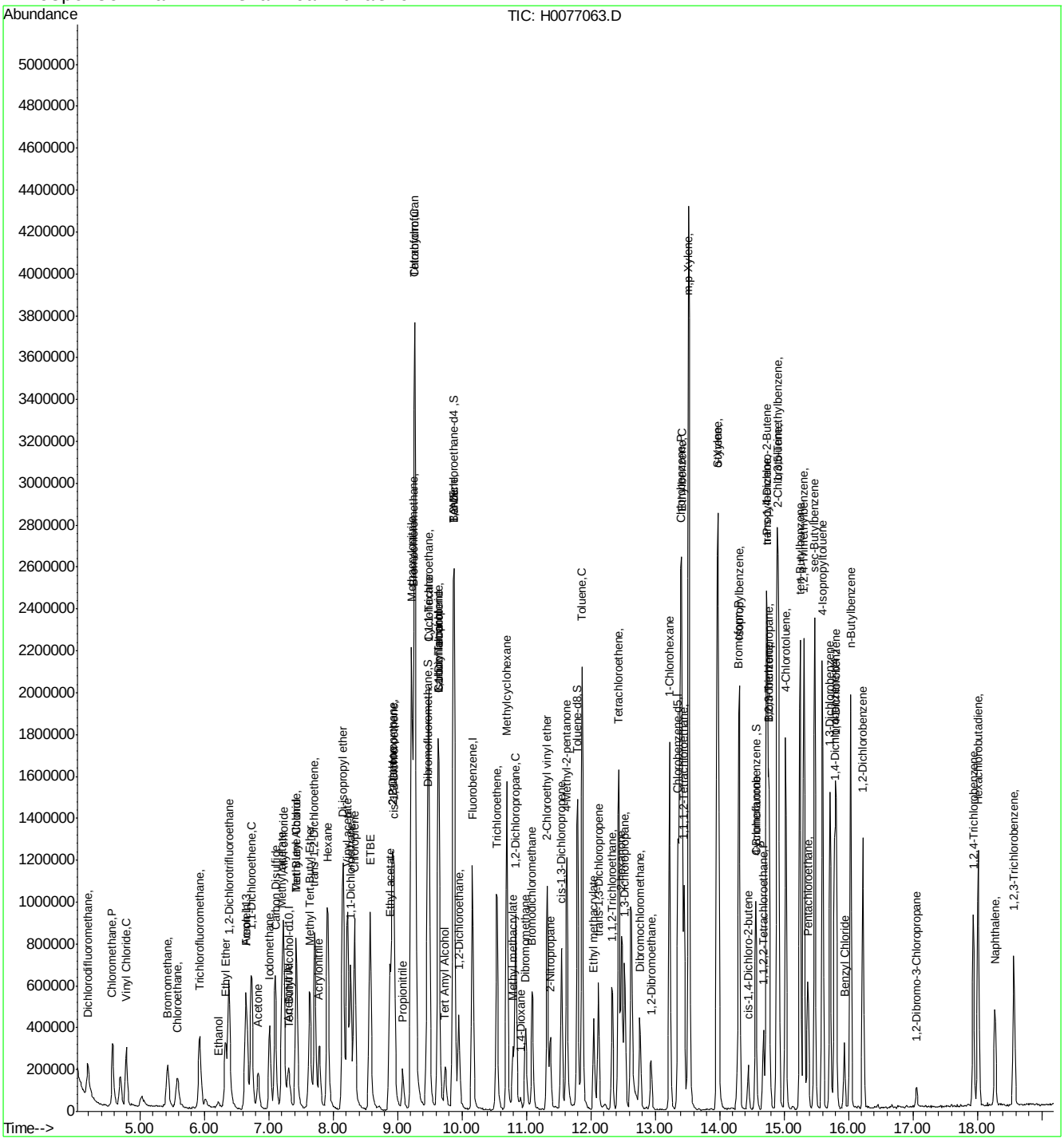
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES F95274

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:03 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integration Approval Summary

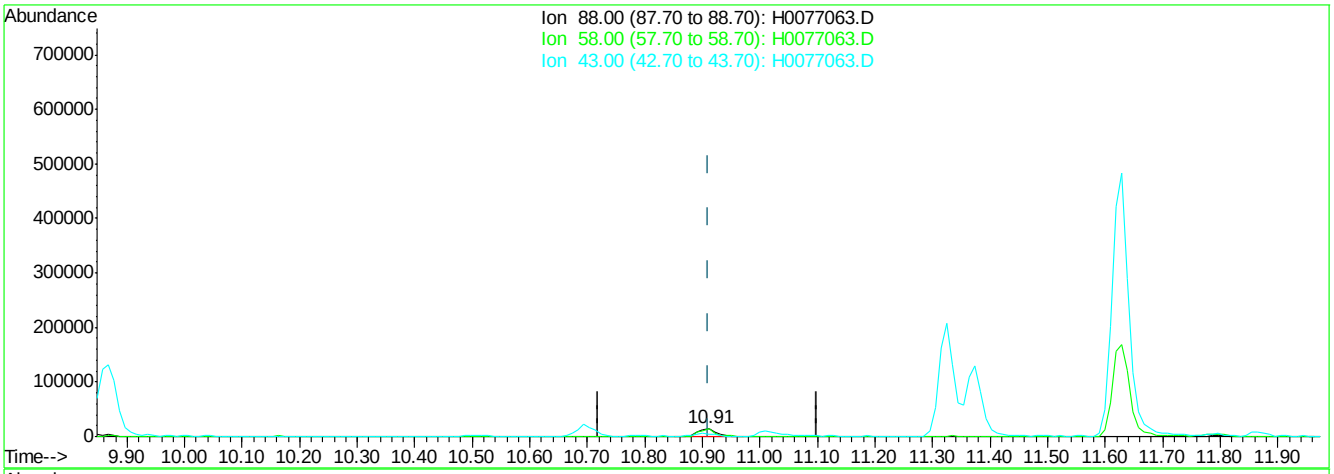
Sample Number:	VH2862-IC2862	**Method:**	SW846 8260B
Lab FileID:	H0077063.D	**Analyst approved:**	07/30/12 11:48 Eric Parrish
Injection Time:	07/27/12 13:17	**Supervisor approved:**	07/30/12 16:19 Juan Garcia

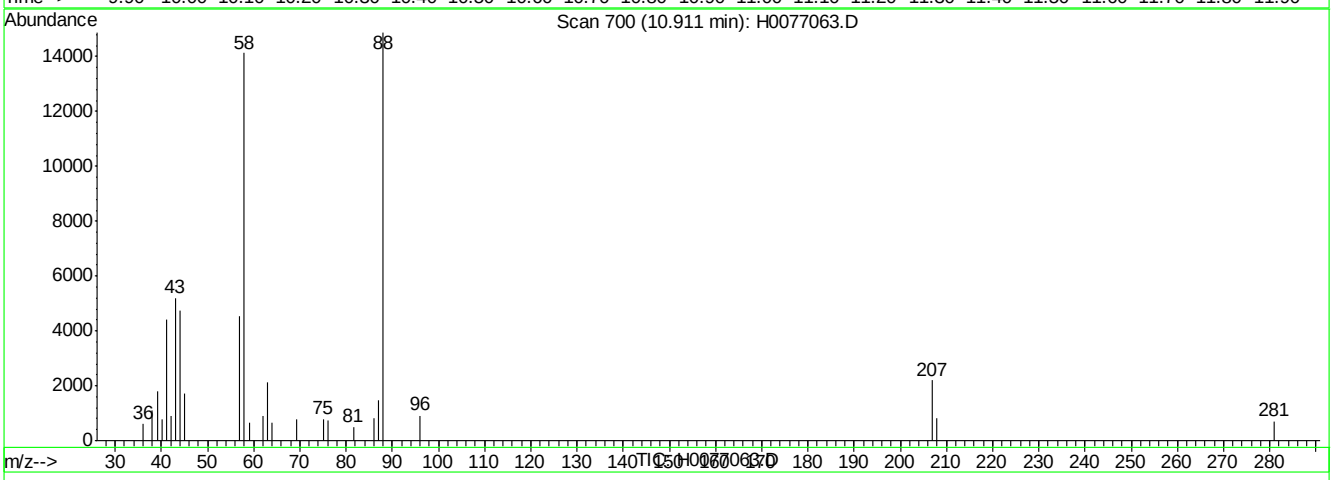
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		10.91	Poor instrument integration

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 13:51 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:56:00 2012
Response via : Multiple Level Calibration





(109) 1,4-Dioxane

10.91min (+0.001) 742.27ug/Kg

response 31961

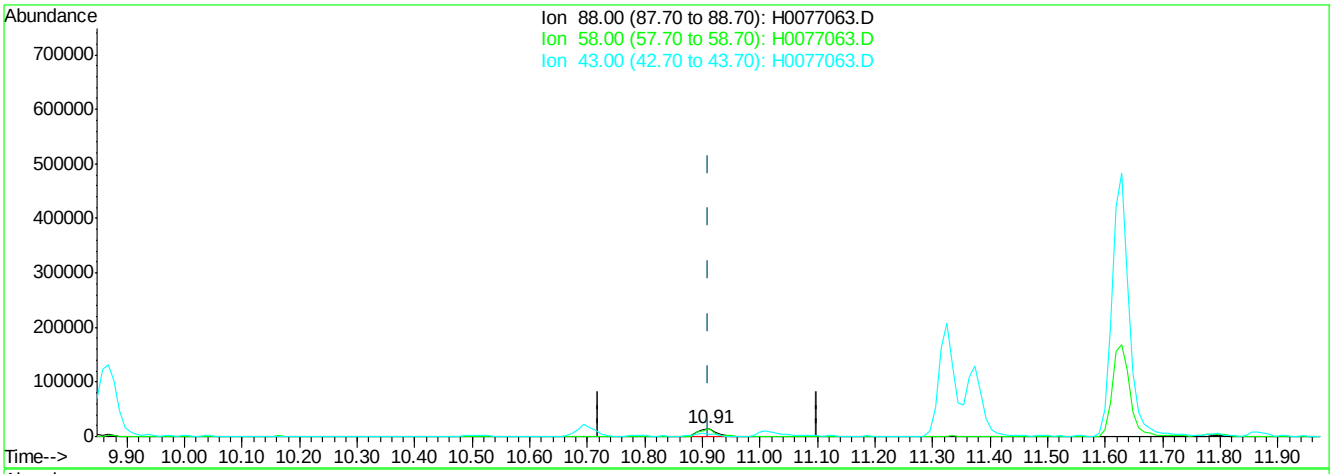
Ion	Exp%	Act%
88.00	100	100
58.00	74.20	95.11
43.00	34.30	34.95
0.00	0.00	0.00

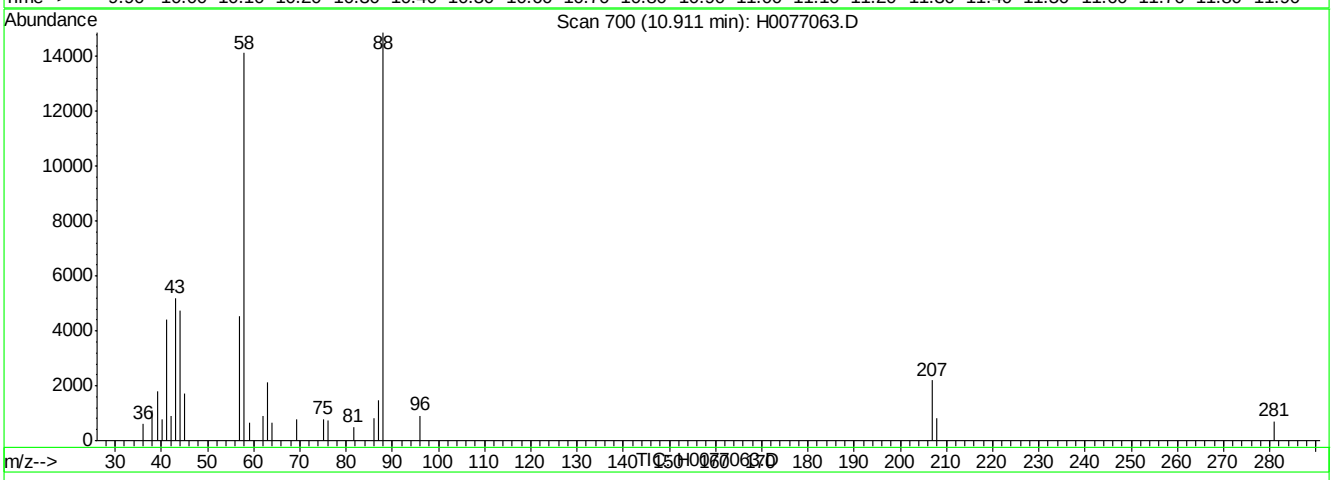
H0077063.D 072712APP9-H.M Fri Jul 27 14:59:44 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077063.D Vial: 4
Acq On : 27 Jul 2012 1:17 pm Operator: ericp
Sample : IC2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:03 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:56:00 2012
Response via : Multiple Level Calibration





(109) 1,4-Dioxane

10.91min (+0.001) 742.22ug/Kg m

response 31959

Ion	Exp%	Act%
88.00	100	100
58.00	74.20	95.11
43.00	34.30	34.95
0.00	0.00	0.00

H0077063.D 072712APP9-H.M Fri Jul 27 14:59:54 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077064.D Vial: 5
Acq On : 27 Jul 2012 1:43 pm Operator: ericp
Sample : ICC2862-5 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:07:16 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:50:10 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1161532	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.35	117	753942	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	360022	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	48394	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	527687	101.51	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 203.02%#			
44) 1,2-Dichloroethane-d4	9.87	65	562728	100.79	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 201.58%#			
55) Toluene-d8	11.80	98	2423677	108.26	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 216.52%#			
77) 4-Bromofluorobenzene	14.57	174	723447	104.02	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 208.04%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.20	85	558804	96.06	ug/Kg	99
3) Chloromethane	4.58	50	804819	90.43	ug/Kg	96
4) Vinyl Chloride	4.79	62	700837	88.61	ug/Kg	90
5) Bromomethane	5.43	94	397569	92.22	ug/Kg	91
6) Chloroethane	5.58	64	408710	85.12	ug/Kg	97
7) Trichlorofluoromethane	5.92	101	804289	90.33	ug/Kg	95
8) Ethyl Ether	6.33	59	459652	96.68	ug/Kg	91
9) 1,2-Dichlorotrifluoroethan	6.39	67	956318	89.29	ug/Kg	94
10) 1,1-Dichloroethene	6.73	61	1091237	93.62	ug/Kg	98
11) Freon 113	6.65	101	651481	88.76	ug/Kg	97
12) Carbon Disulfide	7.11	76	2206052	98.17	ug/Kg	96
13) Iodomethane	7.02	142	1171915	94.36	ug/Kg	98
14) Allyl chloride	7.23	41	1309229	100.76	ug/Kg	98
15) Methylene Chloride	7.43	49	937089	82.39	ug/Kg	96
16) Acetone	6.83	43	615372	451.72	ug/Kg	98
17) Methyl acetate	7.20	43	1575487	461.32	ug/Kg	97
18) trans-1,2-Dichloroethene	7.72	61	1190021	95.70	ug/Kg	97
19) Hexane	7.91	56	601931	98.80	ug/Kg	82
20) Methyl Tert Butyl Ether	7.64	73	1389377	103.34	ug/Kg	97
21) Acetonitrile	7.31	41	397439	1027.09	ug/Kg	86
22) Di-isopropyl ether	8.16	45	2808886	103.36	ug/Kg	96
23) Chloroprene	8.34	53	1370327	102.48	ug/Kg	97
24) 1,1-Dichloroethane	8.28	63	1411472	93.45	ug/Kg	99
25) Acrylonitrile	7.78	53	584040	562.13	ug/Kg	93
26) ETBE	8.57	59	2149302	102.08	ug/Kg	97
27) Vinyl acetate	8.22	43	3568812	548.02	ug/Kg	98
28) cis-1,2-Dichloroethene	8.95	96	747930	91.98	ug/Kg	99
29) 2,2-Dichloropropane	8.92	77	981753	92.36	ug/Kg	93
30) Bromochloromethane	9.24	128	299662	94.28	ug/Kg	94
31) Cyclohexane	9.49	56	1383409	92.84	ug/Kg	95
32) Chloroform	9.26	83	1214322	89.26	ug/Kg	93
33) Ethyl acetate	8.88	70	227642	572.23	ug/Kg	94
34) Tetrahydrofuran	9.27	42	384985	94.26	ug/Kg#	22
36) Carbon Tetrachloride	9.62	117	875992	95.58	ug/Kg	99

(#) = qualifier out of range (m) = manual integration
H0077064.D 072712APP9-H.M Mon Jul 30 07:01:53 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077064.D Vial: 5
Acq On : 27 Jul 2012 1:43 pm Operator: ericp
Sample : ICC2862-5 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:07:16 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:50:10 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	1,1,1-Trichloroethane	9.48	97	1036485	92.30 ug/Kg	96
38)	2-Butanone	8.92	72	188857	540.50 ug/Kg	90
39)	1,1-Dichloropropene	9.64	75	1016033	90.20 ug/Kg	98
40)	Propionitrile	9.08	54	436084	1032.33 ug/Kg	97
41)	Methacrylonitrile	9.21	41	2627310	1073.26 ug/Kg	98
42)	Benzene	9.88	78	2872137	92.47 ug/Kg	98
43)	TAME	9.87	73	1546650	95.94 ug/Kg	99
45)	1,2-Dichloroethane	9.95	62	769214	92.40 ug/Kg	96
46)	Trichloroethene	10.54	95	743394	90.17 ug/Kg	95
47)	Methylcyclohexane	10.70	83	1177129	98.13 ug/Kg	99
48)	Dibromomethane	10.99	93	273603	99.34 ug/Kg	94
49)	1,2-Dichloropropane	10.84	63	695623	95.37 ug/Kg	94
50)	Bromodichloromethane	11.09	83	796815	101.24 ug/Kg	94
51)	Methyl methacrylate	10.80	41	407840	90.83 ug/Kg	96
52)	2-Chloroethyl vinyl ether	11.33	63	995481	512.22 ug/Kg	96
53)	cis-1,3-Dichloropropene	11.54	75	953140	106.53 ug/Kg	96
56)	Toluene	11.87	91	3016184	94.86 ug/Kg	99
57)	2-Nitropropane	11.38	41	523344	533.35 ug/Kg	93
58)	4-Methyl-2-pentanone	11.62	43	2062681	573.40 ug/Kg	99
59)	trans-1,3-Dichloropropene	12.12	75	684871	114.94 ug/Kg	95
60)	Tetrachloroethene	12.44	166	1089201	93.48 ug/Kg	97
61)	Ethyl methacrylate	12.05	69	537911	112.28 ug/Kg	98
62)	1,1,2-Trichloroethane	12.33	83	341138	95.00 ug/Kg	94
63)	Dibromochloromethane	12.76	129	485063	114.50 ug/Kg	95
64)	1,3-Dichloropropane	12.53	76	757597	97.58 ug/Kg	94
65)	1,2-Dibromoethane	12.94	107	359392	103.64 ug/Kg	97
66)	2-hexanone	12.48	43	1407980	603.94 ug/Kg	97
67)	1-Chlorohexane	13.23	91	1031782	103.41 ug/Kg	89
68)	Ethylbenzene	13.41	91	3449455	96.46 ug/Kg	100
69)	Chlorobenzene	13.38	112	1756551	90.65 ug/Kg	98
70)	1,1,1,2-Tetrachloroethane	13.45	131	599867	98.54 ug/Kg	86
71)	m,p-Xylene	13.52	91	5598325	194.81 ug/Kg	99
72)	o-Xylene	13.96	91	2686723	98.74 ug/Kg	98
73)	Styrene	13.98	104	1830619	106.98 ug/Kg	98
74)	Bromoform	14.28	173	273993	103.51 ug/Kg	96
75)	Isopropylbenzene	14.31	105	2761298	101.75 ug/Kg	98
78)	cis-1,4-Dichloro-2-butene	14.45	53	119631	110.20 ug/Kg	86
79)	n-Propylbenzene	14.73	91	3818625	101.20 ug/Kg	99
80)	Bromobenzene	14.76	156	754638	89.23 ug/Kg	97
81)	1,1,2,2-Tetrachloroethane	14.68	83	410184	98.30 ug/Kg	84
82)	1,3,5-Trimethylbenzene	14.89	105	2740142	97.86 ug/Kg	95
83)	2-Chlorotoluene	14.92	91	2567744	93.93 ug/Kg	99
84)	trans-1,4-Dichloro-2-Buten	14.73	53	133677	100.34 ug/Kg#	75
85)	1,2,3-Trichloropropane	14.77	110	110281	90.73 ug/Kg	79
86)	Cyclohexanone	14.56	55	61356	550.03 ug/Kg#	78
87)	4-Chlorotoluene	15.03	91	2255877	96.09 ug/Kg	99
88)	tert-Butylbenzene	15.25	91	1640826	98.11 ug/Kg	96
89)	1,2,4-Trimethylbenzene	15.31	105	2616630	97.97 ug/Kg	99
90)	Pentachloroethane	15.37	167	262466	94.00 ug/Kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077064.D Vial: 5
Acq On : 27 Jul 2012 1:43 pm Operator: ericp
Sample : ICC2862-5 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:07:16 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 13:50:10 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

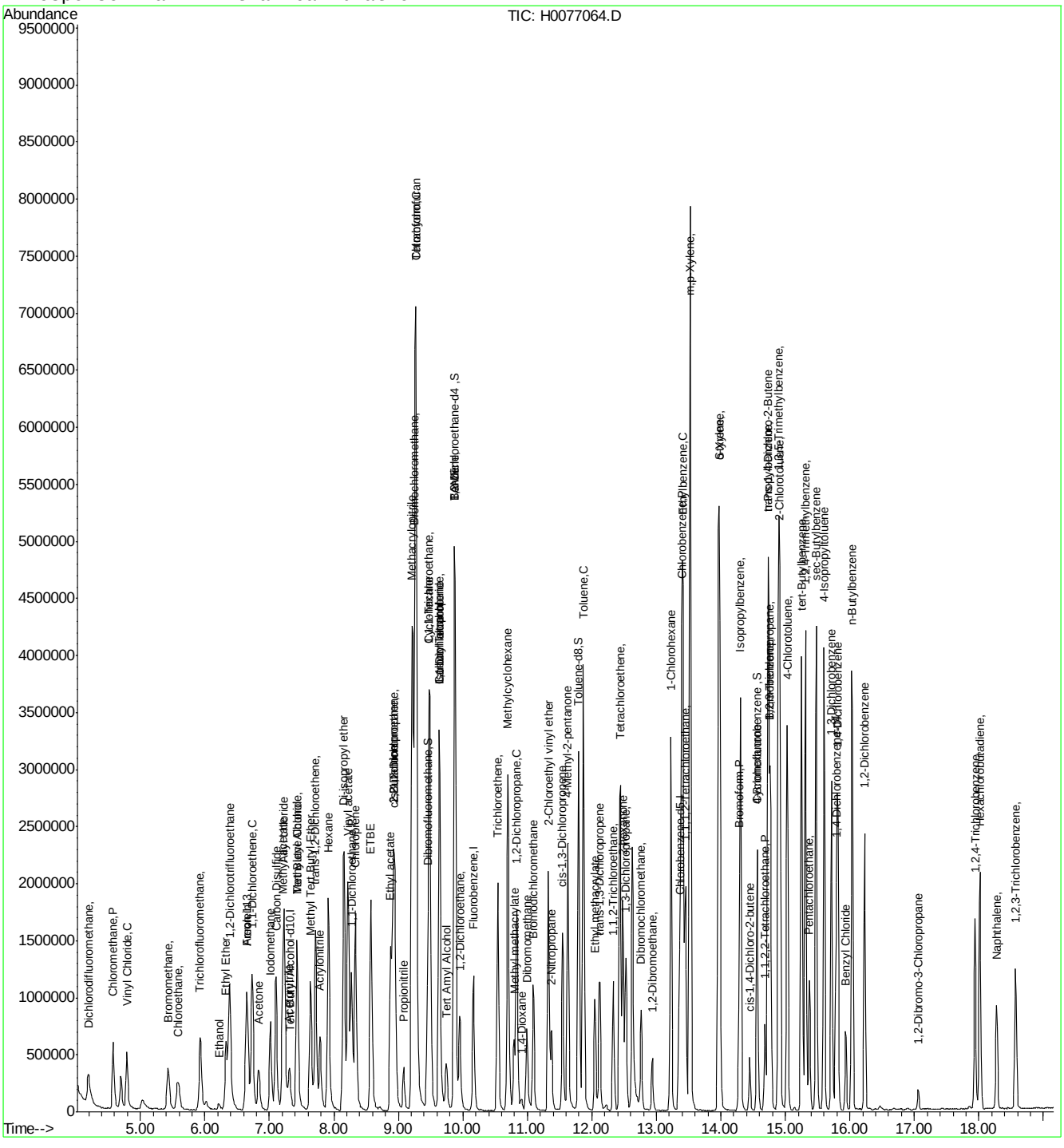
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	3299631	98.50	ug/Kg	97
92)	4-Isopropyltoluene	15.60	119	2544092	103.03	ug/Kg	98
93)	1,3-Dichlorobenzene	15.72	146	1340819	92.49	ug/Kg	98
94)	1,4-Dichlorobenzene	15.82	146	1301642	90.57	ug/Kg	97
95)	n-Butylbenzene	16.03	92	1377030	105.12	ug/Kg	96
96)	Benzyl Chloride	15.94	126	101889	106.53	ug/Kg#	72
97)	1,2-Dichlorobenzene	16.23	146	1143568	90.00	ug/Kg	99
98)	1,2-Dibromo-3-Chloropropan	17.06	75	50807	114.48	ug/Kg	89
99)	Hexachlorobutadiene	18.02	225	600994	82.53	ug/Kg	95
100)	1,2,4-Trichlorobenzene	17.94	180	676270	86.12	ug/Kg	98
101)	Naphthalene	18.28	128	844953	91.94	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.57	180	550456	87.09	ug/Kg	98
104)	Ethanol	6.22	45	64415	1574.48	ug/Kg	88
105)	Acrolein	6.65	56	137819	542.42	ug/Kg	98
106)	Tert Butyl Alcohol	7.44	59	470130	1013.91	ug/Kg	93
107)	Isobutyl alcohol	9.63	42	171238	2417.10	ug/Kg#	45
108)	Tert Amyl Alcohol	9.74	59	250356	1146.33	ug/Kg	90
109)	1,4-Dioxane	10.91	88	63376	1772.08	ug/Kg	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077064.D Vial: 5
Acq On : 27 Jul 2012 1:43 pm Operator: ericp
Sample : ICC2862-5 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:10 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 16:19

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:40:23 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:09:48 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1153715	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	762444	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	354593	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.33	65	55266	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.46	113	836565	161.53	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery	= 323.06%#		
44) 1,2-Dichloroethane-d4	9.87	65	868213	156.31	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery	= 312.62%#		
55) Toluene-d8	11.79	98	3742281	162.61	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery	= 325.22%#		
77) 4-Bromofluorobenzene	14.57	174	1086474	157.34	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery	= 314.68%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.19	85	870455	151.84	ug/Kg	100
3) Chloromethane	4.58	50	1274363	146.97	ug/Kg	99
4) Vinyl Chloride	4.79	62	1132801	147.55	ug/Kg	93
5) Bromomethane	5.43	94	622955	147.78	ug/Kg	98
6) Chloroethane	5.58	64	664992	143.72	ug/Kg	91
7) Trichlorofluoromethane	5.93	101	1270227	146.46	ug/Kg	93
8) Ethyl Ether	6.33	59	714665	152.35	ug/Kg	96
9) 1,2-Dichlorotrifluoroethan	6.38	67	1509358	144.99	ug/Kg	98
10) 1,1-Dichloroethene	6.73	61	1752689	153.34	ug/Kg	99
11) Freon 113	6.65	101	1033098	144.97	ug/Kg	98
12) Carbon Disulfide	7.10	76	3571745	160.60	ug/Kg	98
13) Iodomethane	7.02	142	1834607	150.42	ug/Kg	99
14) Allyl chloride	7.23	41	2111131	163.32	ug/Kg	98
15) Methylene Chloride	7.43	49	1479706	135.75	ug/Kg	96
16) Acetone	6.83	43	934731	704.40	ug/Kg	96
17) Methyl acetate	7.21	43	2424804	759.95	ug/Kg	97
18) trans-1,2-Dichloroethene	7.72	61	1929451	157.57	ug/Kg	97
19) Hexane	7.91	56	965080	159.87	ug/Kg	92
20) Methyl Tert Butyl Ether	7.64	73	2207673	164.21	ug/Kg	99
21) Acetonitrile	7.30	41	672939	1715.17	ug/Kg	90
22) Di-isopropyl ether	8.15	45	4447022	163.64	ug/Kg	96
23) Chloroprene	8.34	53	2241044	167.90	ug/Kg	94
24) 1,1-Dichloroethane	8.28	63	2210149	149.28	ug/Kg	97
25) Acrylonitrile	7.80	53	894509	845.77	ug/Kg	98
26) ETBE	8.57	59	3398976	161.85	ug/Kg	99
27) Vinyl acetate	8.22	43	6067080	873.55	ug/Kg	98
28) cis-1,2-Dichloroethene	8.95	96	1150752	144.80	ug/Kg	90
29) 2,2-Dichloropropane	8.93	77	1567115	150.73	ug/Kg	97
30) Bromochloromethane	9.23	128	450446	144.33	ug/Kg	84
31) Cyclohexane	9.49	56	2209537	151.45	ug/Kg	99
32) Chloroform	9.26	83	1856985	140.44	ug/Kg	96
33) Ethyl acetate	8.88	70	347665	855.15	ug/Kg	99
34) Tetrahydrofuran	9.26	42	585410m	150.95	ug/Kg	
36) Carbon Tetrachloride	9.64	117	1367865	151.59	ug/Kg	98

(#) = qualifier out of range (m) = manual integration
H0077065.D 072712APP9-H.M Mon Jul 30 07:02:12 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:40:23 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:09:48 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	1,1,1-Trichloroethane	9.48	97	1622189	147.72 ug/Kg	97
38)	2-Butanone	8.92	72	295018	836.50 ug/Kg	98
39)	1,1-Dichloropropene	9.65	75	1612399	147.00 ug/Kg	97
40)	Propionitrile	9.08	54	699330	1656.01 ug/Kg	98
41)	Methacrylonitrile	9.21	41	4188040	1697.54 ug/Kg	98
42)	Benzene	9.88	78	4416870	145.35 ug/Kg	98
43)	TAME	9.87	73	2451691	154.36 ug/Kg	98
45)	1,2-Dichloroethane	9.95	62	1220593	149.89 ug/Kg	98
46)	Trichloroethene	10.54	95	1195649	148.93 ug/Kg	97
47)	Methylcyclohexane	10.70	83	1929353	162.54 ug/Kg	97
48)	Dibromomethane	10.99	93	435404	159.37 ug/Kg	98
49)	1,2-Dichloropropane	10.84	63	1123974	156.59 ug/Kg	95
50)	Bromodichloromethane	11.09	83	1286391	164.15 ug/Kg	97
51)	Methyl methacrylate	10.80	41	633404	144.68 ug/Kg	94
52)	2-Chloroethyl vinyl ether	11.33	63	1614451	820.93 ug/Kg	96
53)	cis-1,3-Dichloropropene	11.55	75	1547514	171.88 ug/Kg	95
56)	Toluene	11.87	91	4778811	150.16 ug/Kg	99
57)	2-Nitropropane	11.38	41	846383	811.40 ug/Kg	89
58)	4-Methyl-2-pentanone	11.62	43	3267650	872.61 ug/Kg	98
59)	trans-1,3-Dichloropropene	12.13	75	1135889	183.04 ug/Kg	97
60)	Tetrachloroethene	12.44	166	1658267	142.60 ug/Kg	99
61)	Ethyl methacrylate	12.05	69	888863	167.66 ug/Kg	92
62)	1,1,2-Trichloroethane	12.33	83	528370	146.97 ug/Kg	94
63)	Dibromochloromethane	12.77	129	790853	179.39 ug/Kg	86
64)	1,3-Dichloropropane	12.53	76	1200031	153.58 ug/Kg	97
65)	1,2-Dibromoethane	12.93	107	587429	166.30 ug/Kg	97
66)	2-hexanone	12.48	43	2293107	933.82 ug/Kg	97
67)	1-Chlorohexane	13.23	91	1641974	161.63 ug/Kg	92
68)	Ethylbenzene	13.42	91	5440634	151.51 ug/Kg	96
69)	Chlorobenzene	13.39	112	2755622	143.30 ug/Kg	96
70)	1,1,1,2-Tetrachloroethane	13.45	131	937887	152.79 ug/Kg	97
71)	m,p-Xylene	13.52	91	8625763	298.36 ug/Kg	98
72)	o-Xylene	13.97	91	4298881	156.62 ug/Kg	99
73)	Styrene	13.99	104	2900684	165.32 ug/Kg	99
74)	Bromoform	14.28	173	454288	165.26 ug/Kg	97
75)	Isopropylbenzene	14.31	105	4405636	159.98 ug/Kg	98
78)	cis-1,4-Dichloro-2-butene	14.45	53	195317	169.41 ug/Kg	91
79)	n-Propylbenzene	14.73	91	5996088	160.96 ug/Kg	99
80)	Bromobenzene	14.76	156	1121390	137.59 ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	14.68	83	656203	160.21 ug/Kg	88
82)	1,3,5-Trimethylbenzene	14.90	105	4319024	157.28 ug/Kg	99
83)	2-Chlorotoluene	14.92	91	3998981	150.34 ug/Kg	99
84)	trans-1,4-Dichloro-2-Buten	14.74	53	203265	154.80 ug/Kg	96
85)	1,2,3-Trichloropropane	14.77	110	169922	144.62 ug/Kg	80
86)	Cyclohexanone	14.55	55	88800	750.58 ug/Kg#	75
87)	4-Chlorotoluene	15.03	91	3569992	155.62 ug/Kg	98
88)	tert-Butylbenzene	15.26	91	2585846	157.58 ug/Kg	99
89)	1,2,4-Trimethylbenzene	15.31	105	4099874	156.49 ug/Kg	98
90)	Pentachloroethane	15.37	167	429003	163.53 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:40:23 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:09:48 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

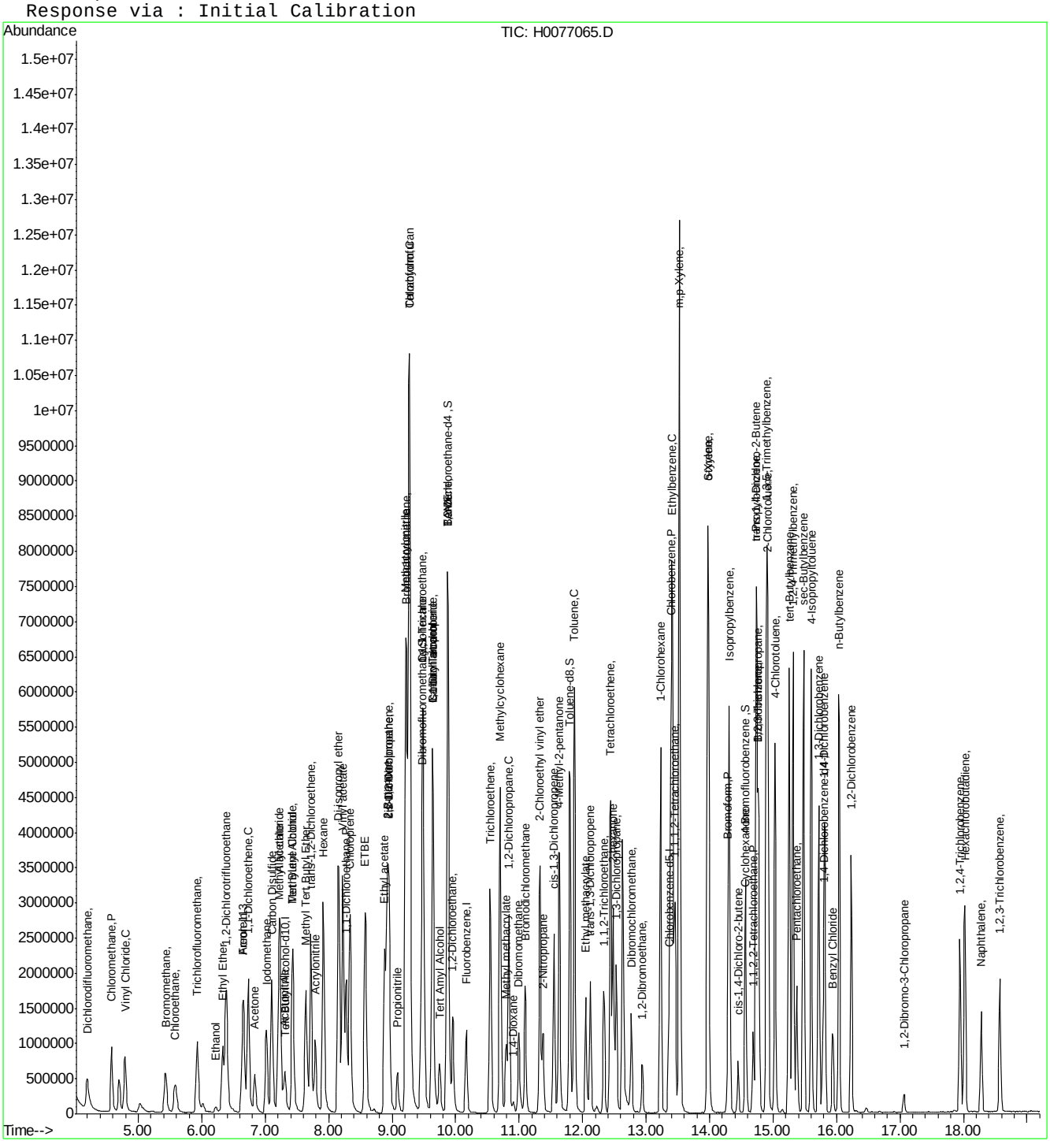
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	5213751	158.49	ug/Kg	99
92)	4-Isopropyltoluene	15.60	119	3984047	162.82	ug/Kg	96
93)	1,3-Dichlorobenzene	15.72	146	2099238	149.27	ug/Kg	98
94)	1,4-Dichlorobenzene	15.82	146	2002705	144.21	ug/Kg	97
95)	n-Butylbenzene	16.03	92	2192800	168.24	ug/Kg	99
96)	Benzyl Chloride	15.94	126	169408	171.25	ug/Kg#	80
97)	1,2-Dichlorobenzene	16.23	146	1747797	142.51	ug/Kg	98
98)	1,2-Dibromo-3-Chloropropan	17.06	75	72890	162.06	ug/Kg	82
99)	Hexachlorobutadiene	18.02	225	904059	130.61	ug/Kg	98
100)	1,2,4-Trichlorobenzene	17.94	180	1043365	138.75	ug/Kg	94
101)	Naphthalene	18.28	128	1341380	150.61	ug/Kg	98
102)	1,2,3-Trichlorobenzene	18.57	180	829130	136.72	ug/Kg	97
104)	Ethanol	6.22	45	121064	3097.08	ug/Kg	92
105)	Acrolein	6.64	56	229150	741.44	ug/Kg	94
106)	Tert Butyl Alcohol	7.44	59	726140	1367.50	ug/Kg	89
107)	Isobutyl alcohol	9.64	42	278837	3308.50	ug/Kg#	58
108)	Tert Amyl Alcohol	9.74	59	422249	1522.00	ug/Kg	97
109)	1,4-Dioxane	10.91	88	100962	2831.42	ug/Kg	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
H0077065.D 072712APP9-H.M Mon Jul 30 07:02:13 2012 Page 3

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:45 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integration Approval Summary

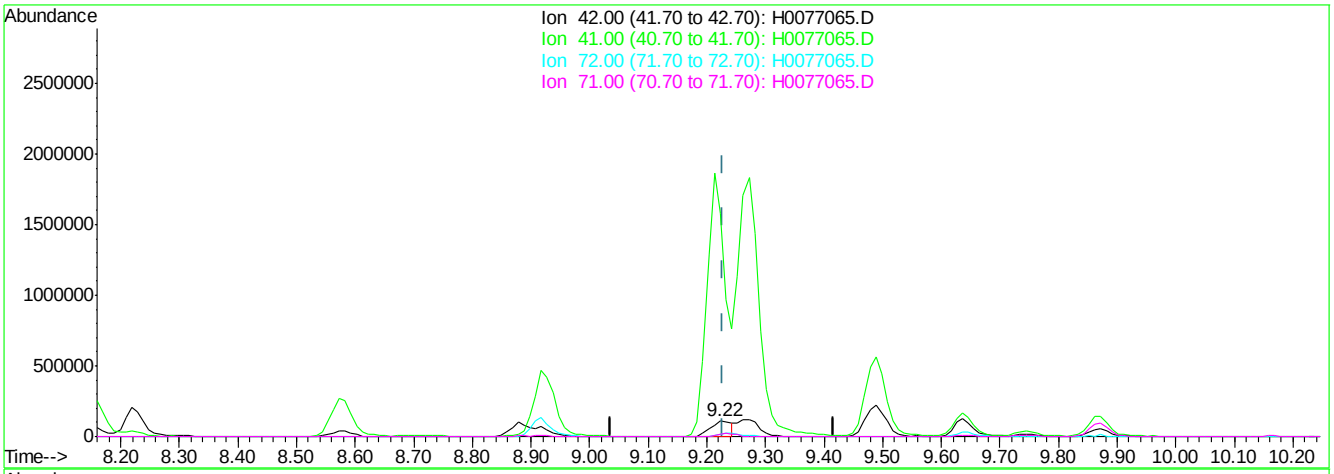
Sample Number:	VH2862-IC2862	**Method:**	SW846 8260B
Lab FileID:	H0077065.D	**Analyst approved:**	07/30/12 11:48 Eric Parrish
Injection Time:	07/27/12 14:09	**Supervisor approved:**	07/30/12 16:19 Juan Garcia

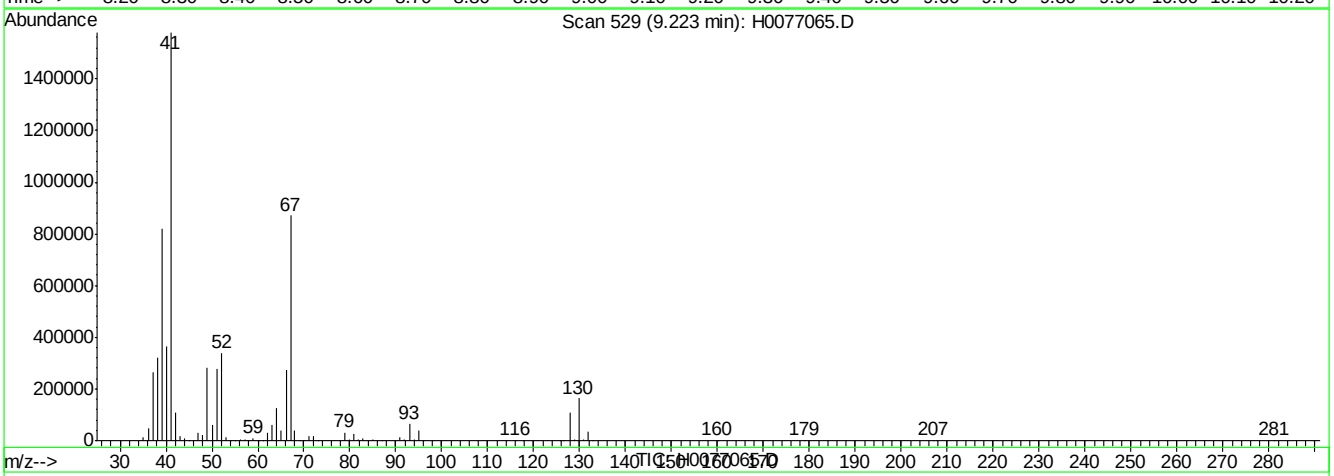
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		9.26	Poor instrument integration

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:43 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:40:50 2012
Response via : Multiple Level Calibration





(34) Tetrahydrofuran

9.22min (-0.004) 70.54ug/Kg

response 273539

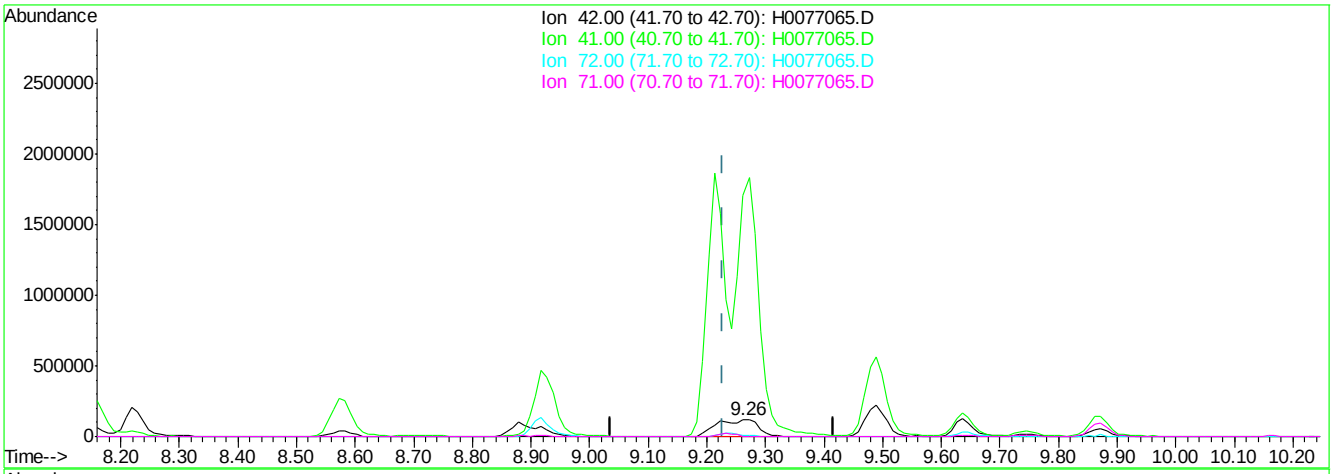
Ion	Exp%	Act%
42.00	100	100
41.00	1030.40	1449.41#
72.00	23.90	14.98
71.00	26.60	17.72

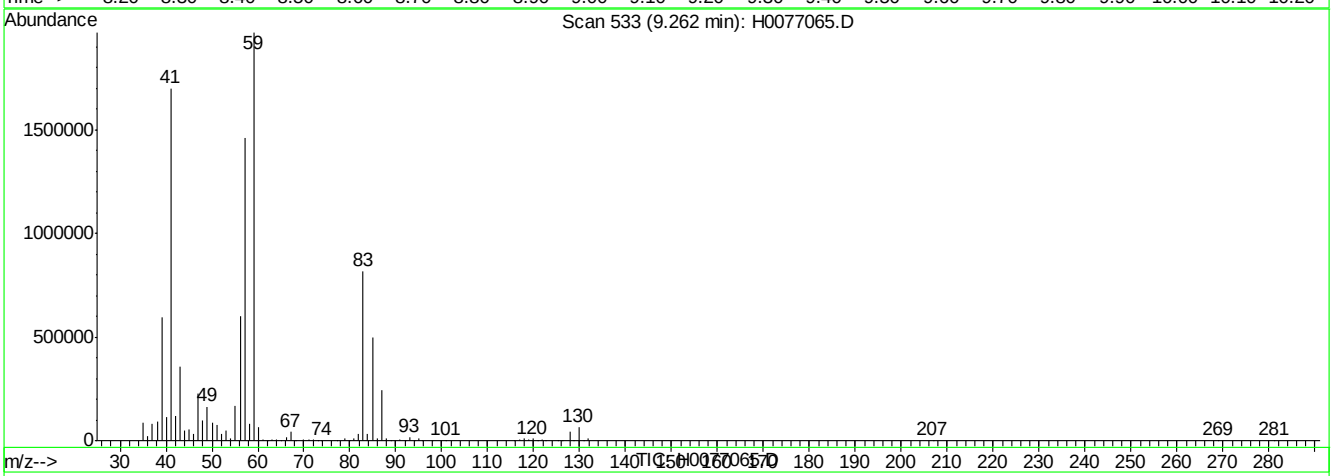
H0077065.D 072712APP9-H.M Fri Jul 27 14:41:55 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077065.D Vial: 6
Acq On : 27 Jul 2012 2:09 pm Operator: ericp
Sample : IC2862-6 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:45 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:40:50 2012
Response via : Multiple Level Calibration





(34) Tetrahydrofuran

9.26min (+0.035) 150.95ug/Kg m

response 585410

Ion	Exp%	Act%
42.00	100	100
41.00	1030.40	1452.36#
72.00	23.90	6.36
71.00	26.60	3.49

H0077065.D 072712APP9-H.M Fri Jul 27 14:42:02 2012

H0077066.D

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 16:19

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:54:25 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:45:23 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1163192	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	767510	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	365094	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.35	65	60892	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	9.45	113	1116386	211.09	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 422.18%#			
44) 1,2-Dichloroethane-d4	9.88	65	1177722	208.84	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 417.68%#			
55) Toluene-d8	11.79	98	5119414	217.93	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 435.86%#			
77) 4-Bromofluorobenzene	14.57	174	1489470	207.80	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 415.60%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.20	85	1158207	199.98	ug/Kg	94
3) Chloromethane	4.58	50	1738090	199.49	ug/Kg	99
4) Vinyl Chloride	4.79	62	1468970	190.30	ug/Kg	90
5) Bromomethane	5.43	94	832966	196.48	ug/Kg	98
6) Chloroethane	5.57	64	850511	183.59	ug/Kg	97
7) Trichlorofluoromethane	5.93	101	1664100	191.06	ug/Kg	88
8) Ethyl Ether	6.33	59	1030493	217.32	ug/Kg	89
9) 1,2-Dichlorotrifluoroethan	6.38	67	2025090	194.03	ug/Kg	96
10) 1,1-Dichloroethene	6.74	61	2346321	202.85	ug/Kg	99
11) Freon 113	6.65	101	1361261	190.53	ug/Kg	98
12) Carbon Disulfide	7.10	76	4837600	213.24	ug/Kg	98
13) Iodomethane	7.02	142	2470250	200.79	ug/Kg	98
14) Allyl chloride	7.23	41	2877370	217.57	ug/Kg	96
15) Methylene Chloride	7.42	49	2011231	185.96	ug/Kg	92
16) Acetone	6.83	43	1348903	1018.55	ug/Kg	100
17) Methyl acetate	7.21	43	3519408	1084.91	ug/Kg	96
18) trans-1,2-Dichloroethene	7.72	61	2570157	206.45	ug/Kg	97
19) Hexane	7.92	56	1229686	199.85	ug/Kg	85
20) Methyl Tert Butyl Ether	7.64	73	3080368	223.73	ug/Kg	97
21) Acetonitrile	7.31	41	953498	2209.69	ug/Kg	91
22) Di-isopropyl ether	8.15	45	6183468	222.32	ug/Kg	99
23) Chloroprene	8.34	53	3003702	218.85	ug/Kg	99
24) 1,1-Dichloroethane	8.27	63	3020902	202.54	ug/Kg	97
25) Acrylonitrile	7.79	53	1274414	1170.25	ug/Kg	92
26) ETBE	8.58	59	4769310	222.33	ug/Kg	94
27) Vinyl acetate	8.22	43	8573397	1108.68	ug/Kg	99
28) cis-1,2-Dichloroethene	8.95	96	1549781	194.54	ug/Kg	93
29) 2,2-Dichloropropane	8.92	77	2057831	196.16	ug/Kg	99
30) Bromochloromethane	9.24	128	582597	186.33	ug/Kg	83
31) Cyclohexane	9.49	56	2934896	199.21	ug/Kg	97
32) Chloroform	9.27	83	2447398	185.56	ug/Kg	96
33) Ethyl acetate	8.88	70	501736	1196.12	ug/Kg	100
34) Tetrahydrofuran	9.27	42	804177m	204.85	ug/Kg	
36) Carbon Tetrachloride	9.63	117	1808853	198.48	ug/Kg	97

(#) = qualifier out of range (m) = manual integration
H0077066.D 072712APP9-H.M Mon Jul 30 07:02:28 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:54:25 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:45:23 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	1,1,1-Trichloroethane	9.48	97	2164490	195.99 ug/Kg	96
38)	2-Butanone	8.92	72	399708	1102.90 ug/Kg	97
39)	1,1-Dichloropropene	9.64	75	2147092	194.80 ug/Kg	95
40)	Propionitrile	9.08	54	988722	2282.64 ug/Kg	99
41)	Methacrylonitrile	9.22	41	6031986	2372.95 ug/Kg	98
42)	Benzene	9.89	78	5897633	193.50 ug/Kg	96
43)	TAME	9.87	73	3426024	212.92 ug/Kg	96
45)	1,2-Dichloroethane	9.95	62	1618192	197.12 ug/Kg	98
46)	Trichloroethene	10.54	95	1576865	195.05 ug/Kg	96
47)	Methylcyclohexane	10.70	83	2510271	206.87 ug/Kg	98
48)	Dibromomethane	10.99	93	587031	210.92 ug/Kg	91
49)	1,2-Dichloropropane	10.84	63	1495502	205.15 ug/Kg	98
50)	Bromodichloromethane	11.10	83	1746084	217.57 ug/Kg	97
51)	Methyl methacrylate	10.79	41	792541	192.39 ug/Kg	94
52)	2-Chloroethyl vinyl ether	11.32	63	2305909	1097.25 ug/Kg	97
53)	cis-1,3-Dichloropropene	11.55	75	2136518	229.79 ug/Kg	96
56)	Toluene	11.87	91	6372302	198.87 ug/Kg	99
57)	2-Nitropropane	11.37	41	1221301	1105.76 ug/Kg	88
58)	4-Methyl-2-pentanone	11.63	43	4670326	1206.10 ug/Kg	99
59)	trans-1,3-Dichloropropene	12.12	75	1545743	238.68 ug/Kg	97
60)	Tetrachloroethene	12.43	166	2182385	187.97 ug/Kg	98
61)	Ethyl methacrylate	12.05	69	1253779	218.63 ug/Kg	95
62)	1,1,2-Trichloroethane	12.34	83	746639	207.01 ug/Kg	95
63)	Dibromochloromethane	12.77	129	1072016	233.92 ug/Kg	97
64)	1,3-Dichloropropane	12.53	76	1635199	207.07 ug/Kg	99
65)	1,2-Dibromoethane	12.94	107	792038	218.78 ug/Kg	94
66)	2-hexanone	12.48	43	3254682	1090.46 ug/Kg	98
67)	1-Chlorohexane	13.23	91	2175695	210.04 ug/Kg	93
68)	Ethylbenzene	13.42	91	7128530	196.88 ug/Kg	100
69)	Chlorobenzene	13.39	112	3608716	187.83 ug/Kg	98
70)	1,1,1,2-Tetrachloroethane	13.46	131	1265341	204.15 ug/Kg	94
71)	m,p-Xylene	13.53	91	11327019	389.56 ug/Kg	99
72)	o-Xylene	13.97	91	5679180	204.04 ug/Kg	99
73)	Styrene	13.99	104	3827048	213.05 ug/Kg	98
74)	Bromoform	14.28	173	637943	216.58 ug/Kg	97
75)	Isopropylbenzene	14.30	105	5783639	206.34 ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	14.45	53	279609	217.70 ug/Kg	91
79)	n-Propylbenzene	14.74	91	7924827	204.13 ug/Kg	99
80)	Bromobenzene	14.77	156	1491938	180.27 ug/Kg	97
81)	1,1,2,2-Tetrachloroethane	14.69	83	887636	208.12 ug/Kg	83
82)	1,3,5-Trimethylbenzene	14.89	105	5648187	198.17 ug/Kg	95
83)	2-Chlorotoluene	14.92	91	5340364	194.93 ug/Kg	99
84)	trans-1,4-Dichloro-2-Buten	14.74	53	313913	230.96 ug/Kg	83
85)	1,2,3-Trichloropropane	14.78	110	227661	189.32 ug/Kg	77
86)	Cyclohexanone	14.56	55	131591	1079.75 ug/Kg	86
87)	4-Chlorotoluene	15.03	91	4726304	198.85 ug/Kg	98
88)	tert-Butylbenzene	15.25	91	3434086	201.55 ug/Kg	95
89)	1,2,4-Trimethylbenzene	15.32	105	5492457	202.15 ug/Kg	98
90)	Pentachloroethane	15.38	167	568006	198.92 ug/Kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:54:25 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:45:23 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

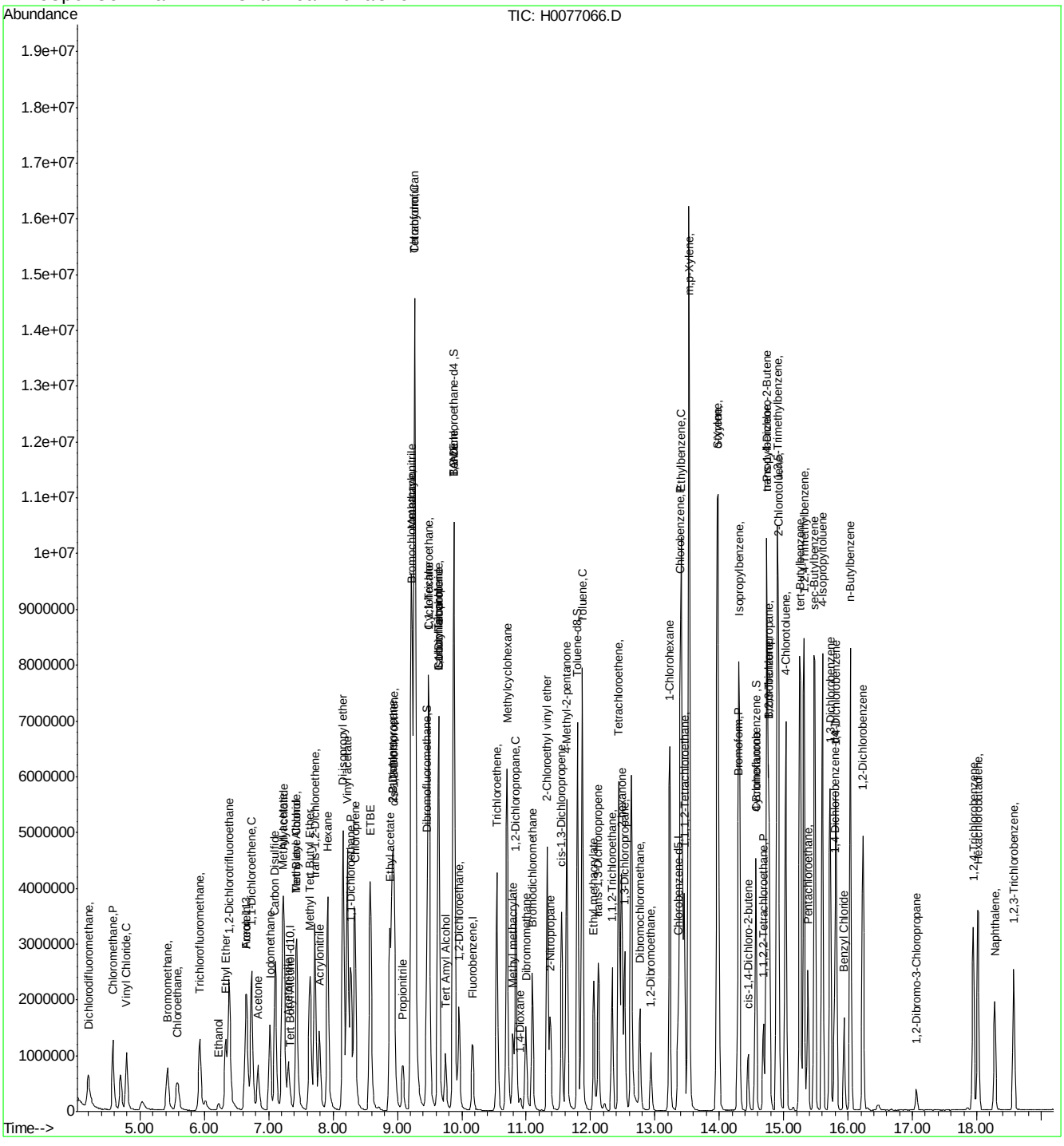
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.49	105	6860739	200.67	ug/Kg	98
92)	4-Isopropyltoluene	15.60	119	5218360	204.22	ug/Kg	96
93)	1,3-Dichlorobenzene	15.72	146	2774051	191.73	ug/Kg	97
94)	1,4-Dichlorobenzene	15.81	146	2667984	187.79	ug/Kg	97
95)	n-Butylbenzene	16.04	92	2829677	206.67	ug/Kg	98
96)	Benzyl Chloride	15.94	126	237380	213.87	ug/Kg#	65
97)	1,2-Dichlorobenzene	16.23	146	2365976	188.94	ug/Kg	98
98)	1,2-Dibromo-3-Chloropropan	17.06	75	104817	223.34	ug/Kg#	70
99)	Hexachlorobutadiene	18.02	225	1136034	162.91	ug/Kg	95
100)	1,2,4-Trichlorobenzene	17.95	180	1378384	180.28	ug/Kg	97
101)	Naphthalene	18.28	128	1862416	202.96	ug/Kg	99
102)	1,2,3-Trichlorobenzene	18.58	180	1111946	180.75	ug/Kg	97
104)	Ethanol	6.23	45	178154	4053.40	ug/Kg	82
105)	Acrolein	6.65	56	307346	994.34	ug/Kg	97
106)	Tert Butyl Alcohol	7.44	59	1084323	1881.07	ug/Kg	86
107)	Isobutyl alcohol	9.64	42	417410	4419.38	ug/Kg#	71
108)	Tert Amyl Alcohol	9.75	59	638939	2071.03	ug/Kg	97
109)	1,4-Dioxane	10.91	88	134941	3561.45	ug/Kg	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:59 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integration Approval Summary

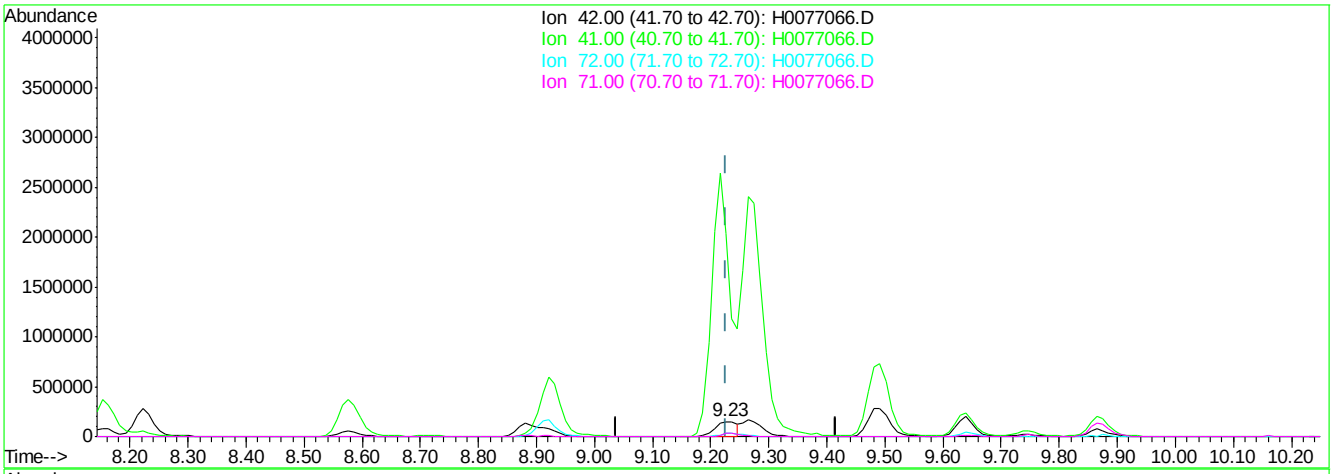
Sample Number:	VH2862-IC2862	**Method:**	SW846 8260B
Lab FileID:	H0077066.D	**Analyst approved:**	07/30/12 11:48 Eric Parrish
Injection Time:	07/27/12 14:35	**Supervisor approved:**	07/30/12 16:19 Juan Garcia

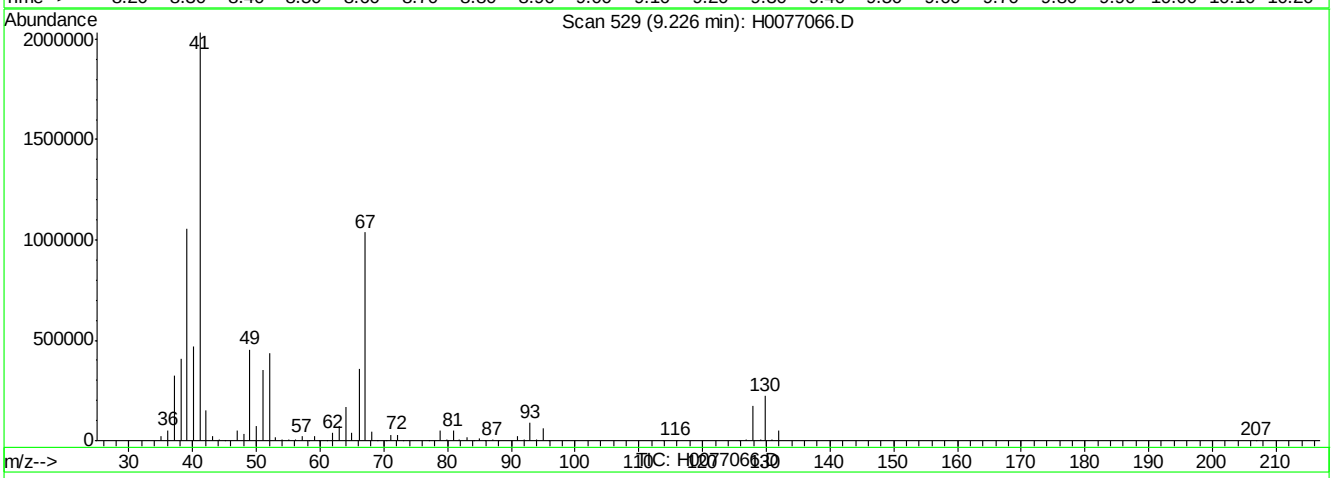
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		9.27	Poor instrument integration

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:58 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:54:45 2012
Response via : Multiple Level Calibration





(34) Tetrahydrofuran

9.23min (-0.001) 102.65ug/Kg

response 402952

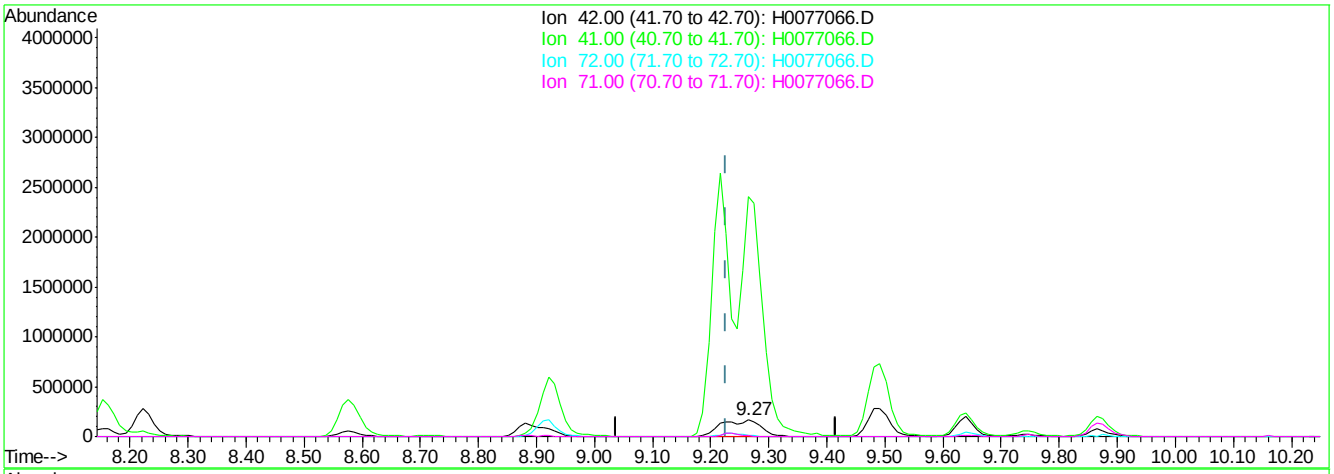
Ion	Exp%	Act%
42.00	100	100
41.00	1030.40	1359.56#
72.00	23.90	19.52
71.00	26.60	19.23

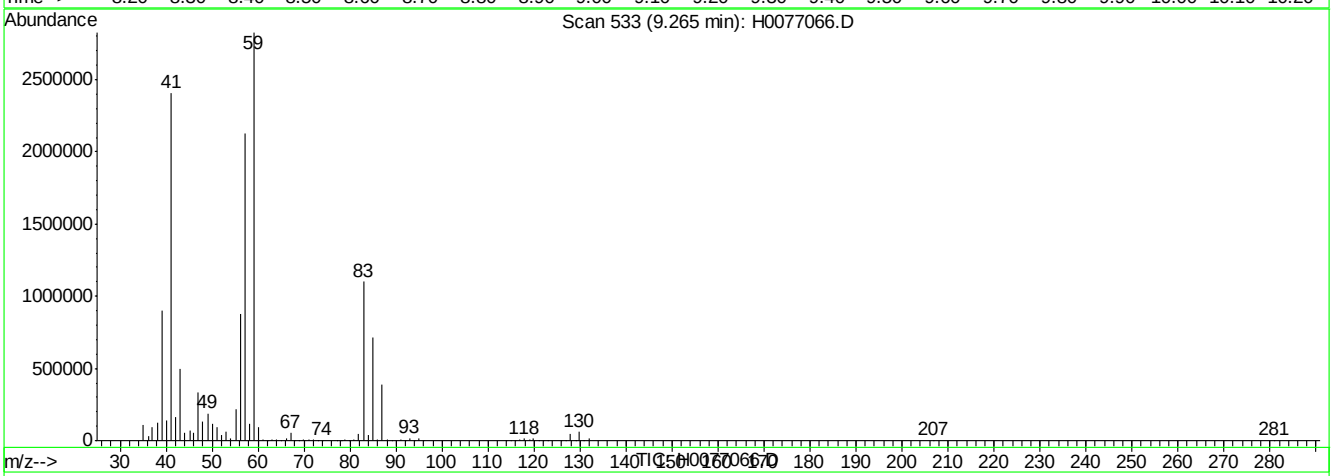
H0077066.D 072712APP9-H.M Fri Jul 27 14:55:45 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077066.D Vial: 7
Acq On : 27 Jul 2012 2:35 pm Operator: ericp
Sample : IC2862-7 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 14:59 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 14:54:45 2012
Response via : Multiple Level Calibration





(34) Tetrahydrofuran

9.27min (+0.038) 204.85ug/Kg m

response 804177

Ion	Exp%	Act%
42.00	100	100
41.00	1030.40	1463.45#
72.00	23.90	6.76
71.00	26.60	4.61

H0077066.D 072712APP9-H.M Fri Jul 27 14:55:53 2012

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 16:19

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:33:17 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.17	96	1149444	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	13.36	117	748559	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	15.79	152	339521	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	7.34	65	55691	250.00	ug/Kg	0.00

System Monitoring Compounds

35) Dibromofluoromethane	9.45	113	231082	43.87	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 121		Recovery = 87.74%			
44) 1,2-Dichloroethane-d4	9.88	65	259714	46.31	ug/Kg	0.00
Spiked Amount 50.000	Range 77 - 123		Recovery = 92.62%			
55) Toluene-d8	11.80	98	1088740	46.92	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 130		Recovery = 93.84%			
77) 4-Bromofluorobenzene	14.57	174	340662	50.82	ug/Kg	0.00
Spiked Amount 50.000	Range 59 - 148		Recovery = 101.64%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.20	85	313605	54.80	ug/Kg	96
3) Chloromethane	4.58	50	465835	54.13	ug/Kg	92
4) Vinyl Chloride	4.80	62	397394	52.46	ug/Kg	98
5) Bromomethane	5.44	94	218909	52.39	ug/Kg	89
6) Chloroethane	5.58	64	221262	48.91	ug/Kg	88
7) Trichlorofluoromethane	5.93	101	444408	51.97	ug/Kg	93
8) Ethyl Ether	6.33	59	231993	48.90	ug/Kg	95
9) 1,2-Dichlorotrifluoroethan	6.38	67	437297	42.58	ug/Kg	99
10) 1,1-Dichloroethene	6.74	61	561086	48.99	ug/Kg	99
11) Freon 113	6.66	101	304525	43.43	ug/Kg	89
12) Carbon Disulfide	7.11	76	1004952	44.41	ug/Kg	97
13) Iodomethane	7.02	142	544850	44.79	ug/Kg	98
14) Allyl chloride	7.24	41	685691	51.82	ug/Kg	99
15) Methylene Chloride	7.44	49	485609	45.90	ug/Kg	94
16) Acetone	6.84	43	317965	242.32	ug/Kg	99
17) Methyl acetate	7.21	43	818783	244.43	ug/Kg	97
18) trans-1,2-Dichloroethene	7.72	61	587348	47.52	ug/Kg	99
19) Hexane	7.92	56	293222	48.23	ug/Kg	80
20) Methyl Tert Butyl Ether	7.64	73	654322	47.29	ug/Kg	96
21) Acetonitrile	7.32	41	217234	482.65	ug/Kg	94
22) Di-isopropyl ether	8.15	45	1349529	48.33	ug/Kg	96
23) Chloroprene	8.34	53	749034	54.49	ug/Kg	96
24) 1,1-Dichloroethane	8.28	63	741194	50.20	ug/Kg	99
25) Acrylonitrile	7.79	53	293874	266.60	ug/Kg	94
26) ETBE	8.58	59	1010894	46.94	ug/Kg	97
27) Vinyl acetate	8.22	43	1735873	214.80	ug/Kg	98
28) cis-1,2-Dichloroethene	8.95	96	373886	47.68	ug/Kg	88
29) 2,2-Dichloropropane	8.93	77	533747	51.63	ug/Kg	93
30) Bromochloromethane	9.25	128	140513	45.93	ug/Kg	93
31) Cyclohexane	9.49	56	709149	48.74	ug/Kg	95
32) Chloroform	9.27	83	608894	47.20	ug/Kg	95
33) Ethyl acetate	8.88	70	118305	277.63	ug/Kg	78
34) Tetrahydrofuran	9.28	42	197711	50.32	ug/Kg#	47
36) Carbon Tetrachloride	9.64	117	436122	48.48	ug/Kg	94

(#) = qualifier out of range (m) = manual integration
H0077067.D 072712APP9-H.M Mon Jul 30 07:02:46 2012

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:33:17 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 1,1,1-Trichloroethane	9.48	97	514426	47.27 ug/Kg	97
38) 2-Butanone	8.92	72	92393	254.25 ug/Kg	86
39) 1,1-Dichloropropene	9.64	75	553622	51.02 ug/Kg	96
40) Propionitrile	9.09	54	239298	548.01 ug/Kg	91
41) Methacrylonitrile	9.22	41	1458684	565.63 ug/Kg	98
42) Benzene	9.89	78	1386373	46.25 ug/Kg	99
43) TAME	9.88	73	750605	46.77 ug/Kg	92
45) 1,2-Dichloroethane	9.96	62	373642	46.15 ug/Kg	97
46) Trichloroethene	10.55	95	378436	47.54 ug/Kg	96
47) Methylcyclohexane	10.70	83	602233	49.98 ug/Kg	95
48) Dibromomethane	10.99	93	126908	45.79 ug/Kg	98
49) 1,2-Dichloropropane	10.84	63	337439	46.67 ug/Kg	94
50) Bromodichloromethane	11.10	83	390129	48.58 ug/Kg	96
51) Methyl methacrylate	10.79	41	183444	45.31 ug/Kg	91
52) 2-Chloroethyl vinyl ether	11.32	63	455670	208.67 ug/Kg	99
53) cis-1,3-Dichloropropene	11.55	75	482264	51.40 ug/Kg	96
56) Toluene	11.88	91	1494683	47.87 ug/Kg	97
57) 2-Nitropropane	11.37	41	277464	243.91 ug/Kg	96
58) 4-Methyl-2-pentanone	11.63	43	1008955	259.52 ug/Kg	99
59) trans-1,3-Dichloropropene	12.12	75	363343	55.98 ug/Kg	97
60) Tetrachloroethene	12.44	166	531668	47.36 ug/Kg	96
61) Ethyl methacrylate	12.05	69	240058	40.90 ug/Kg	96
62) 1,1,2-Trichloroethane	12.34	83	175854	49.74 ug/Kg	92
63) Dibromochloromethane	12.77	129	222750	48.66 ug/Kg	91
64) 1,3-Dichloropropane	12.53	76	380344	49.14 ug/Kg	83
65) 1,2-Dibromoethane	12.94	107	175787	49.13 ug/Kg	85
66) 2-hexanone	12.49	43	690554	226.38 ug/Kg	99
67) 1-Chlorohexane	13.23	91	499072	49.05 ug/Kg	85
68) Ethylbenzene	13.41	91	1713795	48.64 ug/Kg	99
69) Chlorobenzene	13.39	112	903471	48.64 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	13.46	131	290107	47.85 ug/Kg	92
71) m,p-Xylene	13.53	91	2811787	99.52 ug/Kg	97
72) o-Xylene	13.96	91	1335486	49.05 ug/Kg	96
73) Styrene	13.98	104	899916	50.89 ug/Kg	94
74) Bromoform	14.29	173	122610	45.43 ug/Kg	91
75) Isopropylbenzene	14.31	105	1590326	57.91 ug/Kg	97
78) cis-1,4-Dichloro-2-butene	14.45	53	58953	53.40 ug/Kg	93
79) n-Propylbenzene	14.74	91	1902792	52.55 ug/Kg	99
80) Bromobenzene	14.77	156	357871	47.16 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	14.69	83	198372	49.73 ug/Kg	92
82) 1,3,5-Trimethylbenzene	14.90	105	1285684	48.57 ug/Kg	95
83) 2-Chlorotoluene	14.92	91	1265491	49.85 ug/Kg	96
84) trans-1,4-Dichloro-2-Buten	14.74	53	68786	53.24 ug/Kg#	77
85) 1,2,3-Trichloropropane	14.78	110	55955	50.42 ug/Kg	91
86) Cyclohexanone	14.56	55	28492	241.21 ug/Kg	88
87) 4-Chlorotoluene	15.03	91	1129851	51.16 ug/Kg	97
88) tert-Butylbenzene	15.25	91	816081	51.45 ug/Kg	98
89) 1,2,4-Trimethylbenzene	15.31	105	1250051	49.40 ug/Kg	98
90) Pentachloroethane	15.38	167	183301m	69.23 ug/Kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:33:17 2012 Quant Results File: 072712APP9-H.RES

Quant Method : C:\MSDCHEM\1...\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Initial Calibration
DataAcq Meth : 8260VMS

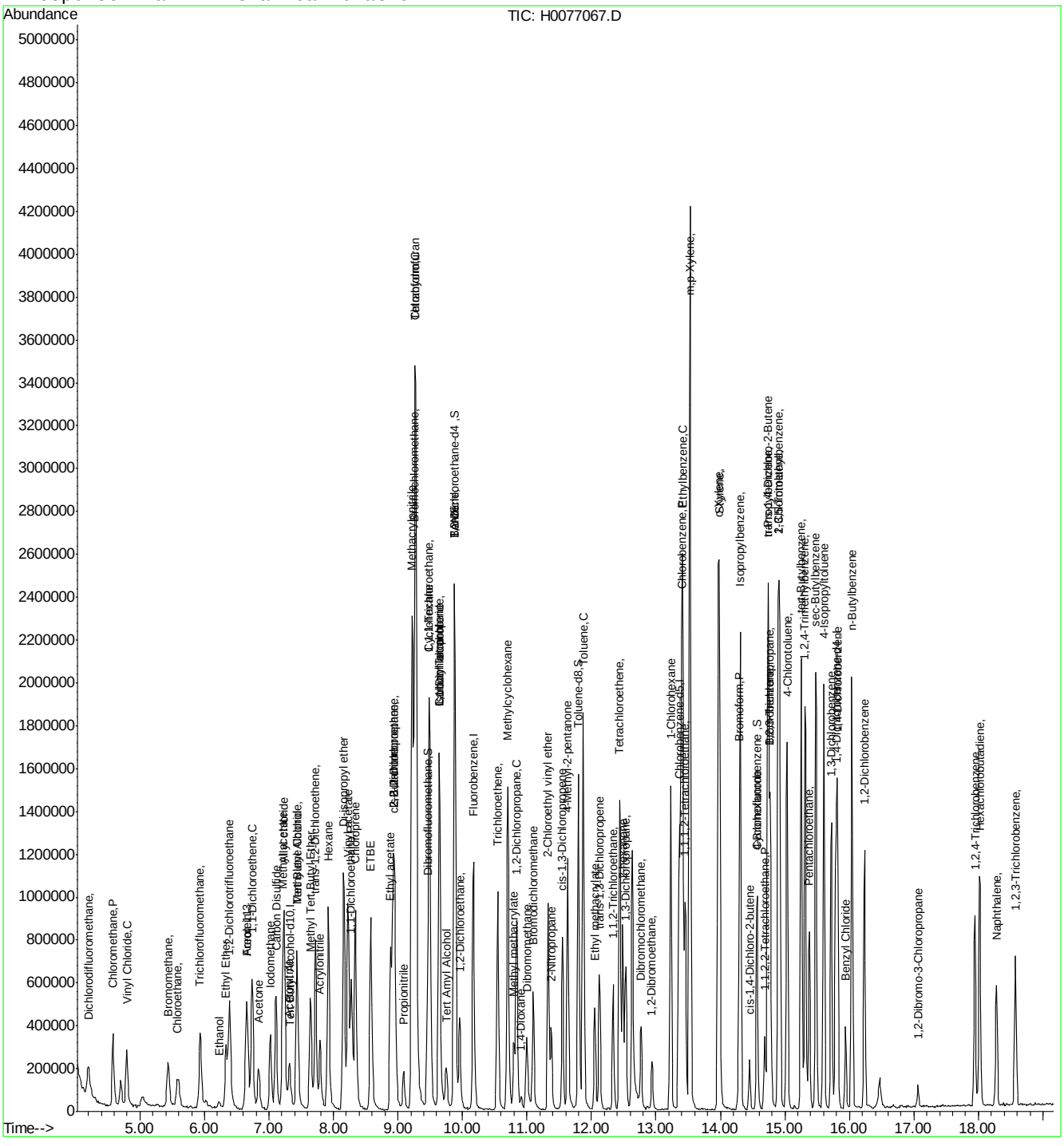
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	sec-Butylbenzene	15.48	105	1623001	51.02	ug/Kg	99
92)	4-Isopropyltoluene	15.61	119	1277027	53.58	ug/Kg	98
93)	1,3-Dichlorobenzene	15.72	146	664471	49.68	ug/Kg	97
94)	1,4-Dichlorobenzene	15.81	146	648169	49.49	ug/Kg	95
95)	n-Butylbenzene	16.04	92	661324	51.69	ug/Kg	92
96)	Benzyl Chloride	15.94	126	53106	56.07	ug/Kg#	34
97)	1,2-Dichlorobenzene	16.23	146	565476	48.94	ug/Kg	97
98)	1,2-Dibromo-3-Chloropropan	17.06	75	26547	59.83	ug/Kg	82
99)	Hexachlorobutadiene	18.03	225	334576	53.00	ug/Kg	97
100)	1,2,4-Trichlorobenzene	17.95	180	365936	52.20	ug/Kg	100
101)	Naphthalene	18.28	128	511927m	59.86	ug/Kg	
102)	1,2,3-Trichlorobenzene	18.58	180	316171	56.04	ug/Kg	93
104)	Ethanol	6.23	45	43803	1082.04	ug/Kg	88
105)	Acrolein	6.65	56	84457	299.00	ug/Kg	93
106)	Tert Butyl Alcohol	7.45	59	234598	448.80	ug/Kg	91
107)	Isobutyl alcohol	9.64	42	93013	1060.87	ug/Kg#	55
108)	Tert Amyl Alcohol	9.75	59	120524	419.26	ug/Kg	95
109)	1,4-Dioxane	10.91	88	29751	911.46	ug/Kg	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:38 2012 Quant Results File: 072712APP9-H.RES

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Jul 30 06:52:04 2012
Response via : Initial Calibration



Manual Integration Approval Summary

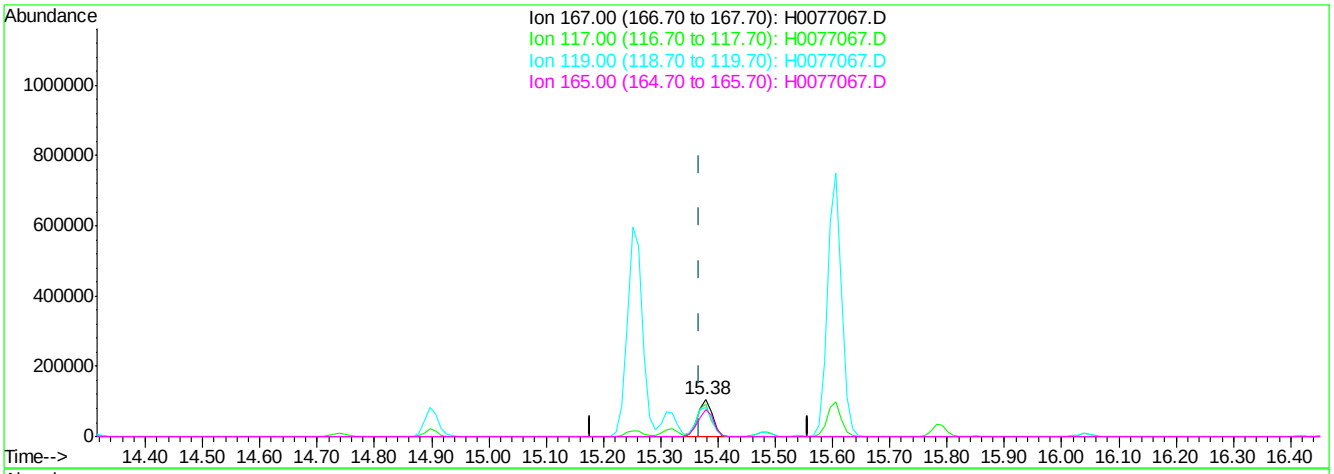
Sample Number:	VH2862-ICV2862	**Method:**	SW846 8260B
Lab FileID:	H0077067.D	**Analyst approved:**	07/30/12 11:48 Eric Parrish
Injection Time:	07/27/12 15:09	**Supervisor approved:**	07/30/12 16:19 Juan Garcia

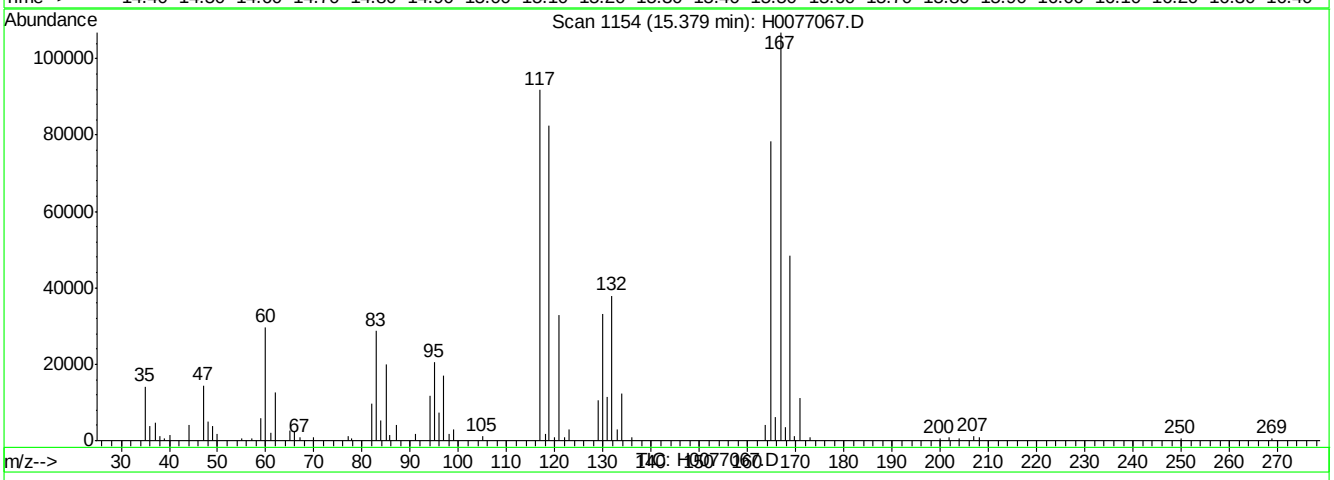
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pentachloroethane	76-01-7		15.38	Poor instrument integration
Naphthalene	91-20-3		18.28	Poor instrument integration

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:36 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Multiple Level Calibration





(90) Pentachloroethane ( )

15.38min (+0.011) 71.37ug/Kg

response 188983

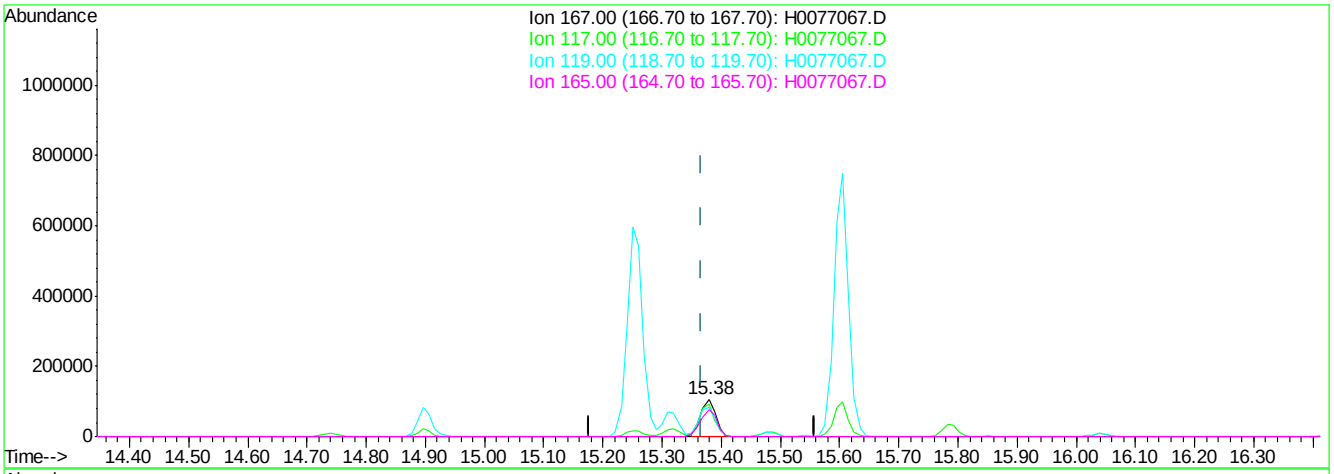
Ion	Exp%	Act%
167.00	100	100
117.00	90.80	85.42
119.00	85.30	76.26
165.00	83.80	73.29

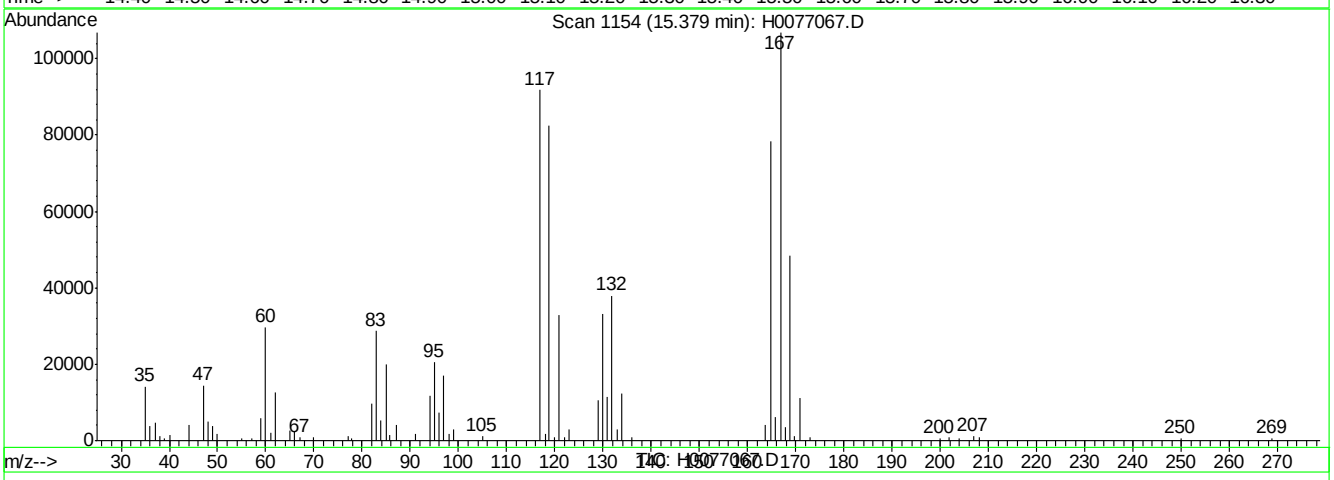
H0077067.D 072712APP9-H.M Fri Jul 27 15:34:29 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:38 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Multiple Level Calibration





(90) Pentachloroethane ( )

15.38min (+0.011) 69.23ug/Kg m

response 183301

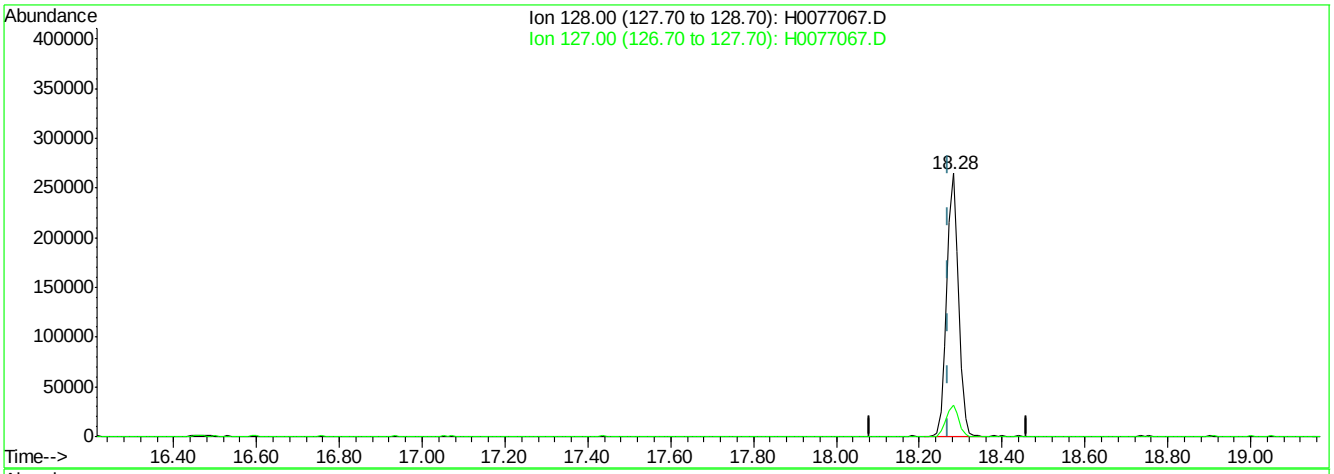
Ion	Exp%	Act%
167.00	100	100
117.00	90.80	85.89
119.00	85.30	77.29
165.00	83.80	73.29

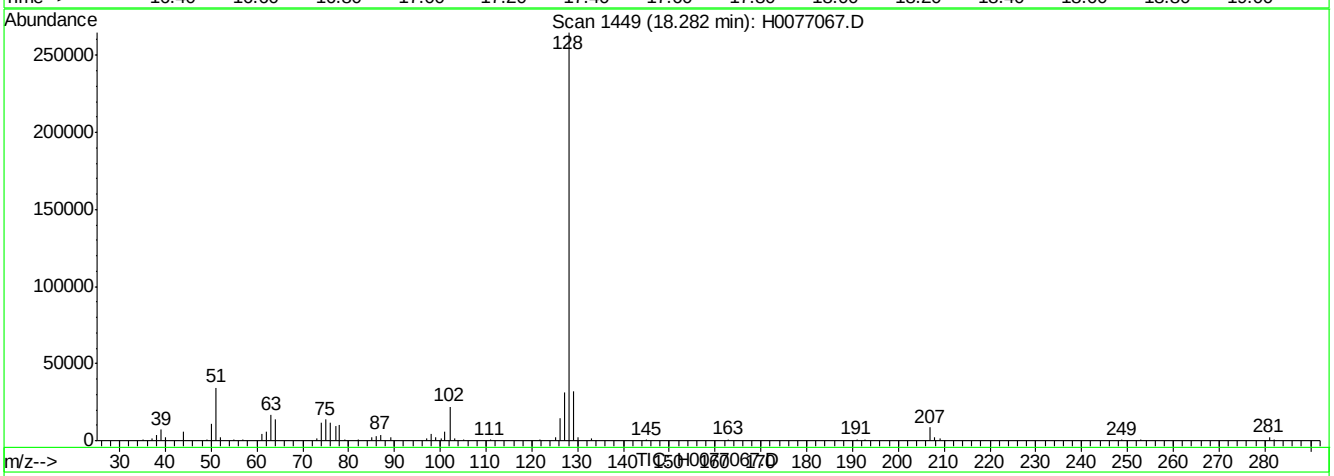
H0077067.D 072712APP9-H.M Fri Jul 27 15:34:56 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:38 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Multiple Level Calibration





(101) Naphthalene ( )

18.28min (+0.011) 60.73ug/Kg

response 519319

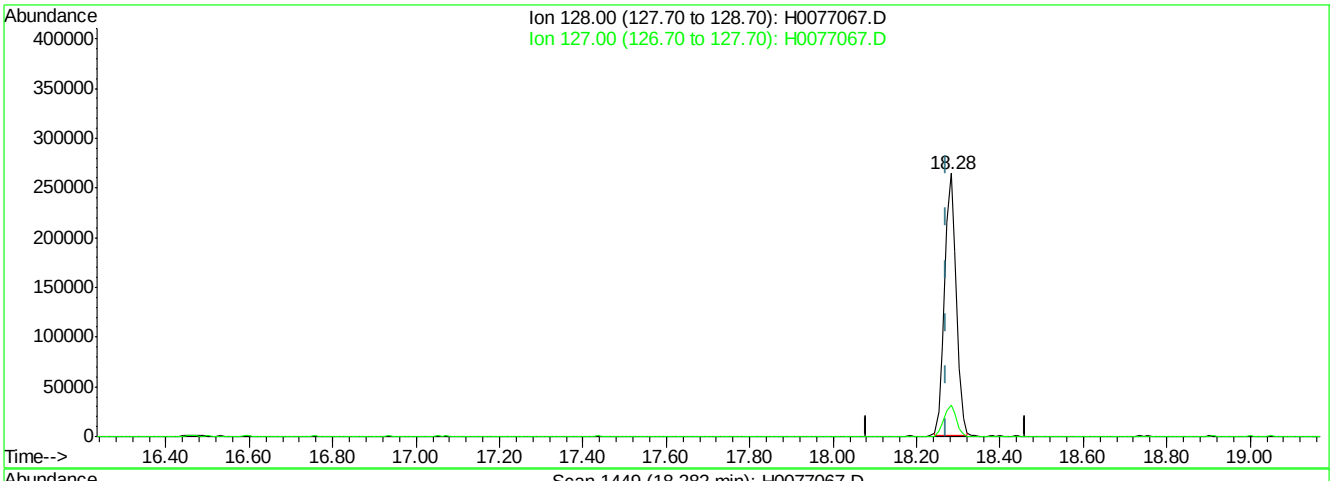
Ion	Exp%	Act%
128.00	100	100
127.00	11.60	11.80
0.00	0.00	0.00
0.00	0.00	0.00

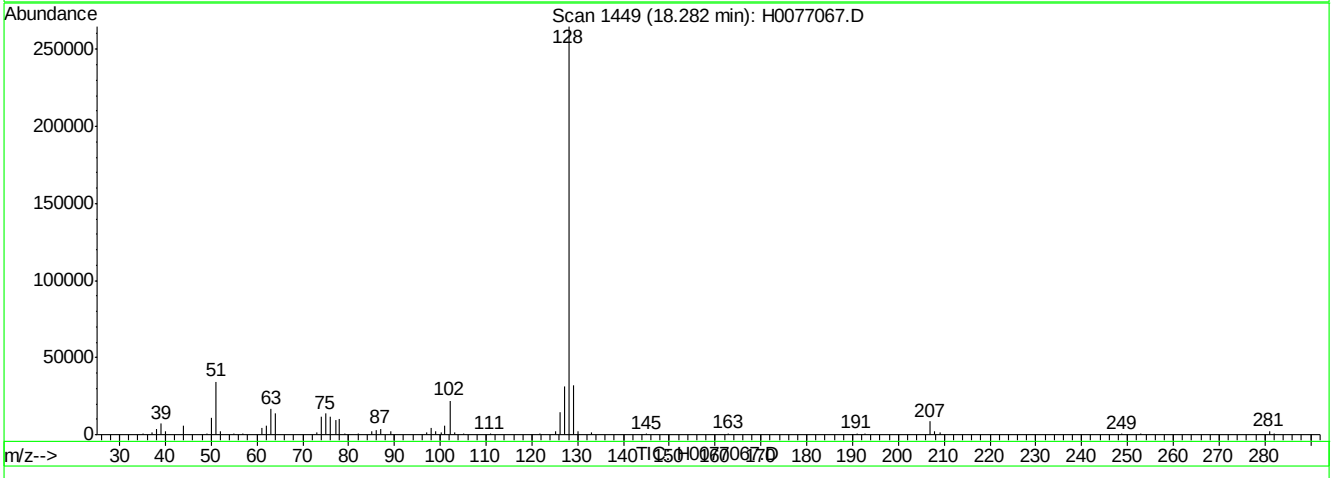
H0077067.D 072712APP9-H.M Fri Jul 27 15:35:12 2012

Quantitation Report (Qedit)

Data File : H:\1\DATA\072712\H0077067.D Vial: 8
Acq On : 27 Jul 2012 3:09 pm Operator: ericp
Sample : ICV2862-4 Inst : MSVOA3
Misc : ms21569,vh2862,5.00,,,,, Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 15:38 2012 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\072712APP9-H.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Jul 27 15:33:13 2012
Response via : Multiple Level Calibration





(101) Naphthalene ( )

18.28min (+0.011) 59.86ug/Kg m

response 511927

Ion	Exp%	Act%
128.00	100	100
127.00	11.60	11.80
0.00	0.00	0.00
0.00	0.00	0.00

H0077067.D 072712APP9-H.M Fri Jul 27 15:35:33 2012

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:46:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.521	96	795853	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	650714	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.976	152	349370	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.094	65	89211	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.694	113	217121	54.86	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 109.72%			
38) 1,2-Dichloroethane-d4	7.241	65	259471	58.88	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 117.76%			
48) Toluene-d8	9.071	98	793032	50.18	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 100.36%			
69) 4-Bromofluorobenzene	11.826	95	321743	48.98	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 97.96%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.613	85	3403	0.98	ug/L	91
3) Chloromethane	2.844	50	6745	1.14	ug/L	79
4) Vinyl Chloride	2.978	62	4250	0.85	ug/L	94
5) Bromomethane	3.349	94	3041	1.01	ug/L	70
6) Chloroethane	3.501	64	3146	1.11	ug/L	89
7) Trichlorofluoromethane	3.696	101	5106m	0.95	ug/L	
8) Ethyl Ether	3.963	59	4547	1.03	ug/L #	72
9) 1,2-Dichlorotrifluoroe...	4.206	67	5006m	0.99	ug/L	
10) 1,1-Dichloroethene	4.218	61	4977	0.82	ug/L	82
11) Freon 113	4.285	101	3581	0.88	ug/L #	85
12) Carbon Disulfide	4.285	76	13824	1.04	ug/L	89
13) Iodomethane	4.389	142	7605	1.02	ug/L	93
14) Methylene Chloride	4.845	49	16776	1.96	ug/L	92
15) Acetone	4.875	58	5920	13.82	ug/L #	62
16) Methyl acetate	4.991	74	3208	4.79	ug/L #	87
17) trans-1,2-Dichloroethene	5.015	61	5760	0.90	ug/L	83
18) Hexane	5.082	56	3945	0.88	ug/L #	60
19) Methyl Tert Butyl Ether	5.112	73	12230	0.94	ug/L	83
20) Di-isopropyl ether	5.489	45	17061	0.96	ug/L	93
21) 1,1-Dichloroethane	5.672	63	7101	0.92	ug/L	100
22) Acrylonitrile	5.715	53	7879	5.02	ug/L	81
23) ETBE	5.879	59	14859	0.92	ug/L	95
24) Vinyl acetate	5.891	43	33985	5.51	ug/L	95
25) cis-1,2-Dichloroethene	6.244	96	4319	0.94	ug/L	84
26) 2,2-Dichloropropane	6.371	77	5591	0.93	ug/L	77
27) Bromochloromethane	6.444	128	2853	1.21	ug/L #	65
28) Cyclohexane	6.469	56	7154	0.78	ug/L #	80
29) Chloroform	6.499	83	6503	0.90	ug/L	87
30) Tetrahydrofuran	6.675	42	2609	1.61	ug/L #	68
32) Carbon Tetrachloride	6.669	117	5538	0.97	ug/L	80
33) 1,1,1-Trichloroethane	6.754	97	5594	0.89	ug/L	76
34) 2-Butanone	6.803	43	15623	6.95	ug/L	99
35) 1,1-Dichloropropene	6.864	75	4373	0.82	ug/L	81
36) Benzene	7.113	78	15707	0.99	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:46:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.198	73	12720	0.94	ug/L		93
39) 1,2-Dichloroethane	7.308	62	5957	1.07	ug/L		90
40) Trichloroethene	7.685	95	3998	0.95	ug/L	#	78
41) Methylcyclohexane	7.691	83	6110	0.78	ug/L	#	85
42) Dibromomethane	8.111	93	2570	1.02	ug/L	#	74
43) 1,2-Dichloropropane	8.220	63	4109	0.90	ug/L		93
44) Bromodichloromethane	8.257	83	5712	1.06	ug/L	#	77
45) 2-Chloroethyl vinyl ether	8.792	63	9513	3.12	ug/L		90
46) cis-1,3-Dichloropropene	8.883	75	6655	0.95	ug/L		92
49) Toluene	9.120	91	18139	0.96	ug/L		97
50) 2-Nitropropane	9.345	41	6097	5.14	ug/L	#	80
51) 4-Methyl-2-pentanone	9.461	43	22902	4.99	ug/L		91
52) trans-1,3-Dichloropropene	9.509	75	6123	0.97	ug/L		84
53) Tetrachloroethene	9.509	166	4014	0.87	ug/L		89
54) 1,1,2-Trichloroethane	9.673	83	3325	1.06	ug/L	#	70
55) Dibromochloromethane	9.868	129	4989	1.08	ug/L		85
56) 1,3-Dichloropropane	9.959	76	6550	0.97	ug/L		77
57) 1,2-Dibromoethane	10.130	107	4187	1.05	ug/L		80
58) 2-hexanone	10.288	43	18163	5.92	ug/L		91
59) 1-Chlorohexane	10.573	91	6809	1.00	ug/L		98
60) Ethylbenzene	10.640	91	20459	0.94	ug/L		83
61) Chlorobenzene	10.634	112	11281	0.88	ug/L		85
62) 1,1,1,2-Tetrachloroethane	10.683	131	4949	1.05	ug/L		93
63) m,p-Xylene	10.780	91	29000	1.79	ug/L		94
64) o-Xylene	11.218	91	15512	0.89	ug/L		98
65) Styrene	11.267	104	12071	0.85	ug/L		96
66) Bromoform	11.321	173	2624	0.81	ug/L		93
67) Isopropylbenzene	11.522	105	16395	0.90	ug/L		88
70) n-Propylbenzene	11.942	91	21622	0.88	ug/L		97
71) Bromobenzene	11.954	156	5567	0.97	ug/L		98
72) 1,1,2,2-Tetrachloroethane	12.009	83	5702	1.12	ug/L		88
73) 1,3,5-Trimethylbenzene	12.130	105	17314	0.94	ug/L		84
74) 2-Chlorotoluene	12.124	91	15056	0.87	ug/L		96
75) trans-1,4-Dichloro-2-B...	12.191	53	1098	0.58	ug/L	#	84
76) 1,2,3-Trichloropropane	12.167	110	1673	1.11	ug/L		78
77) Cyclohexanone	12.234	55	636	3.27	ug/L	#	57
78) 4-Chlorotoluene	12.294	91	13036	0.83	ug/L		97
79) tert-Butylbenzene	12.471	91	8378	0.81	ug/L		82
80) 1,2,4-Trimethylbenzene	12.532	105	15840	0.85	ug/L		90
81) sec-Butylbenzene	12.647	105	20007	0.89	ug/L		95
82) 4-Isopropyltoluene	12.787	119	15368	0.80	ug/L		99
83) 1,3-Dichlorobenzene	12.909	146	10086	0.92	ug/L		91
84) 1,4-Dichlorobenzene	12.994	146	11352	0.99	ug/L		88
85) n-Butylbenzene	13.219	92	9291	0.83	ug/L	#	81
86) Benzyl Chloride	13.237	126	2163	0.83	ug/L	#	93
87) 1,2-Dichlorobenzene	13.426	146	10117	0.94	ug/L		92
88) 1,2-Dibromo-3-Chloropr...	14.186	75	1176	1.19	ug/L		84
89) Hexachlorobutadiene	14.727	225	3194	1.08	ug/L		80
90) 1,2,4-Trichlorobenzene	14.776	180	7125	1.01	ug/L		88
91) Naphthalene	15.062	128	16342	0.97	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:46:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.220	180	6450	1.02	ug/L	94
94) acrolein	4.571	56	1213	3.83	ug/L	94
95) Tert Butyl Alcohol	5.167	59	4933	10.69	ug/L	94
96) tert Amyl alcohol	7.350	59	3578	9.33	ug/L	93
97) 1,4-Dioxane	8.445	88	1776	43.47	ug/L #	61

(#) = qualifier out of range (m) = manual integration (+) = signals summed

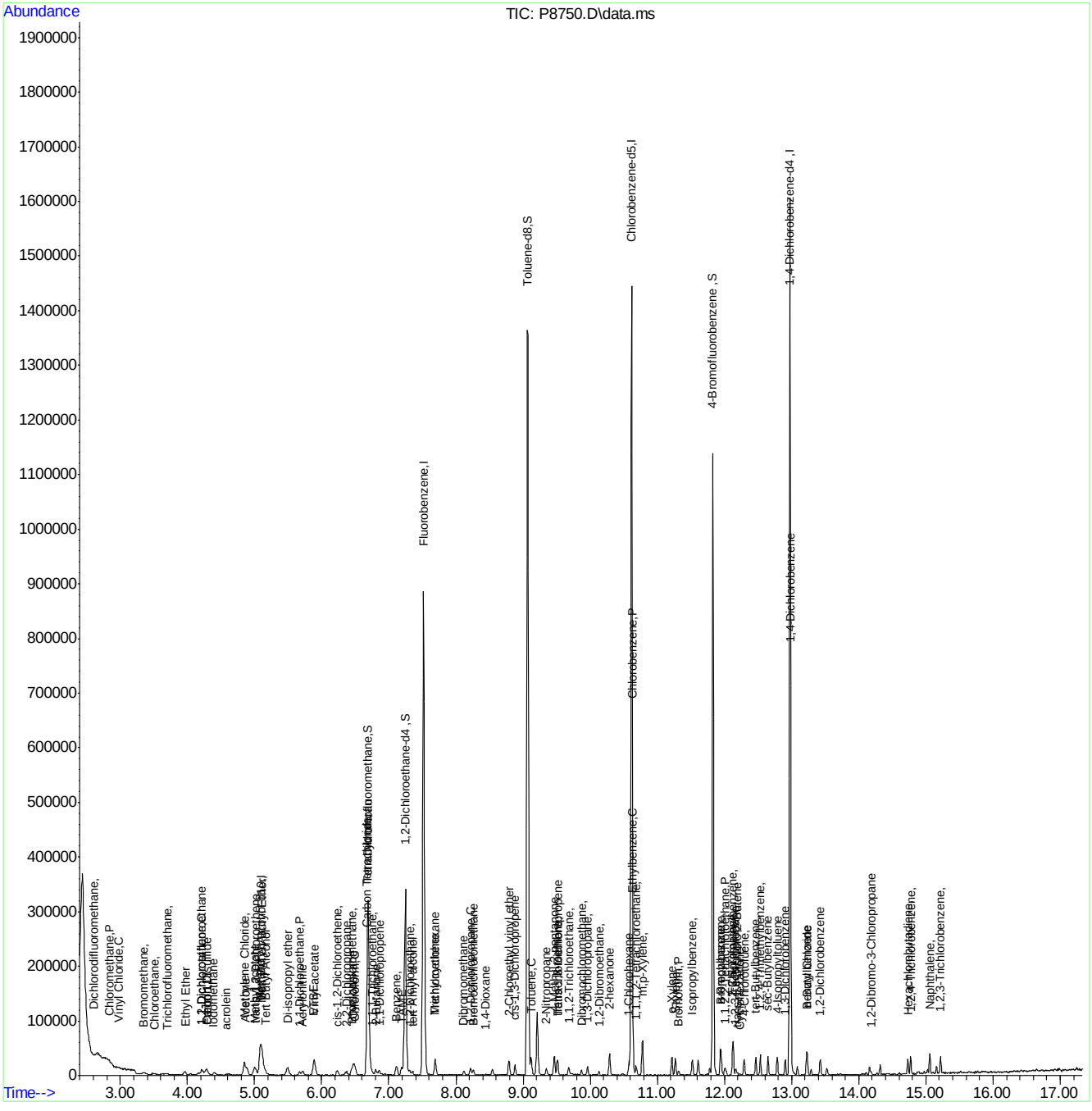
7.8.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:46:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



Manual Integration Approval Summary

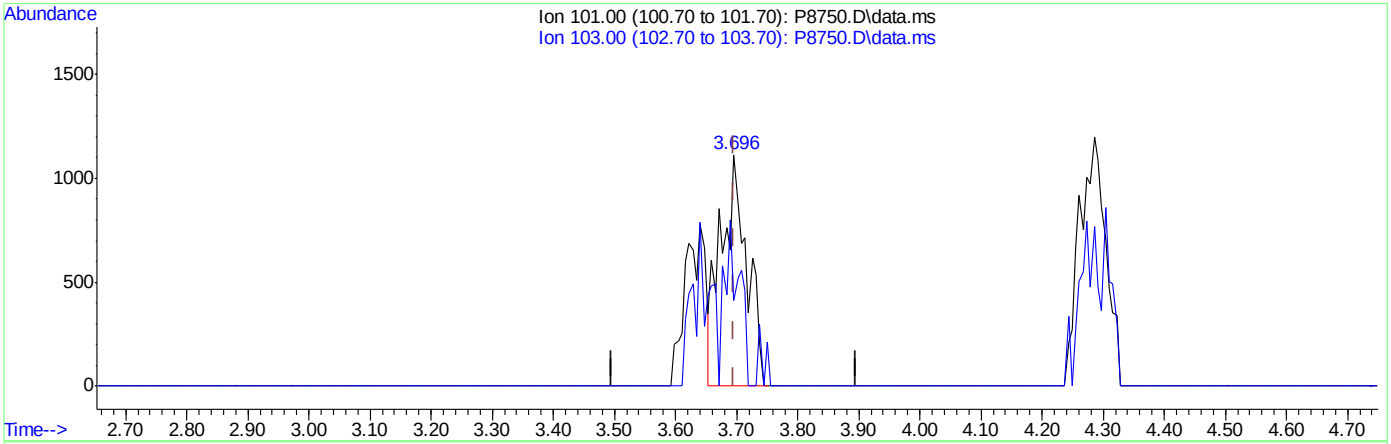
Sample Number:	VP354-IC354	**Method:**	SW846 8260B
Lab FileID:	P8750.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 10:36	**Supervisor approved:**	07/17/12 10:49 Karen Watson

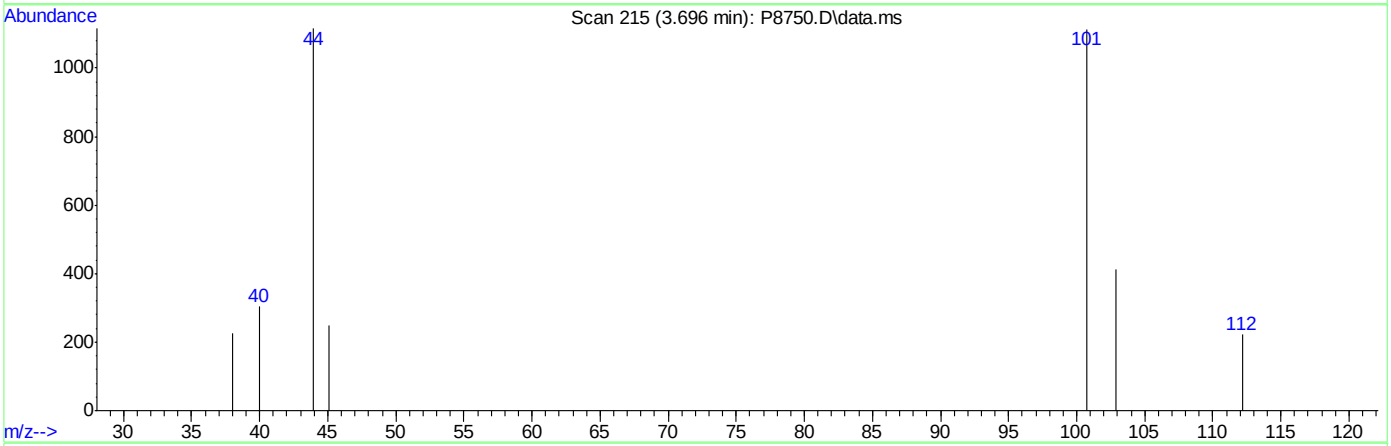
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak
1,2-Dichlorotrifluoroethane	354-23-4		4.21	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:43:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8750.D\data.ms

(7) Trichlorofluoromethane ( )

3.696min (+0.000) 0.61ug/L

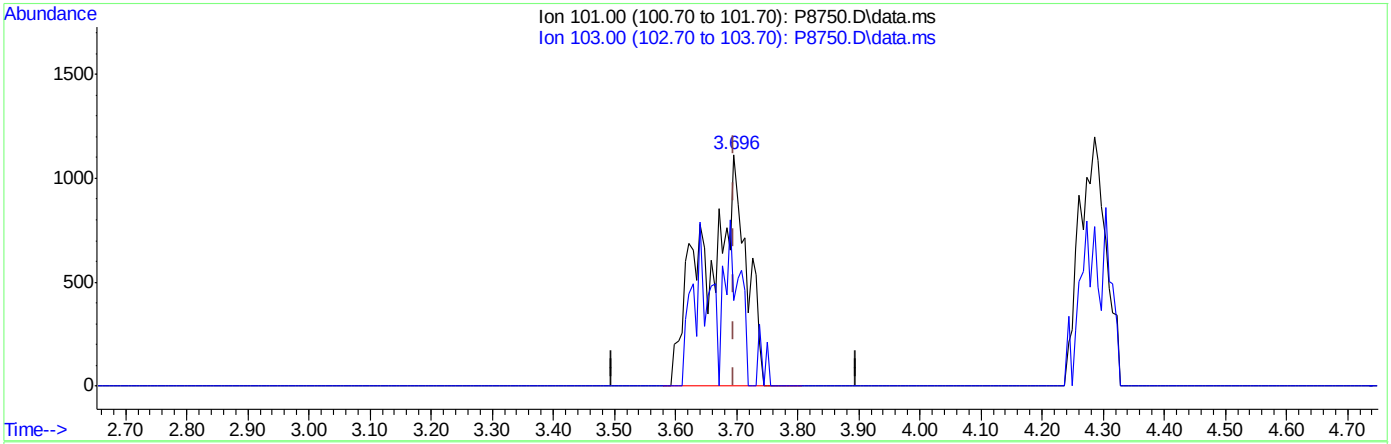
response 3312

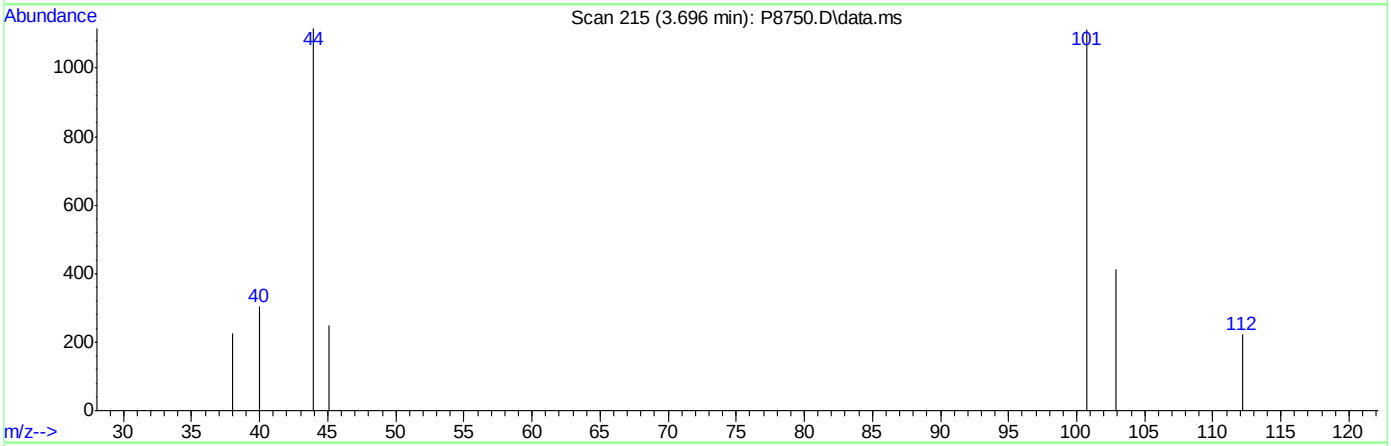
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	18.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:43:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8750.D\data.ms

(7) Trichlorofluoromethane ( )

3.696min (+0.000) 0.95ug/L m

response 5106

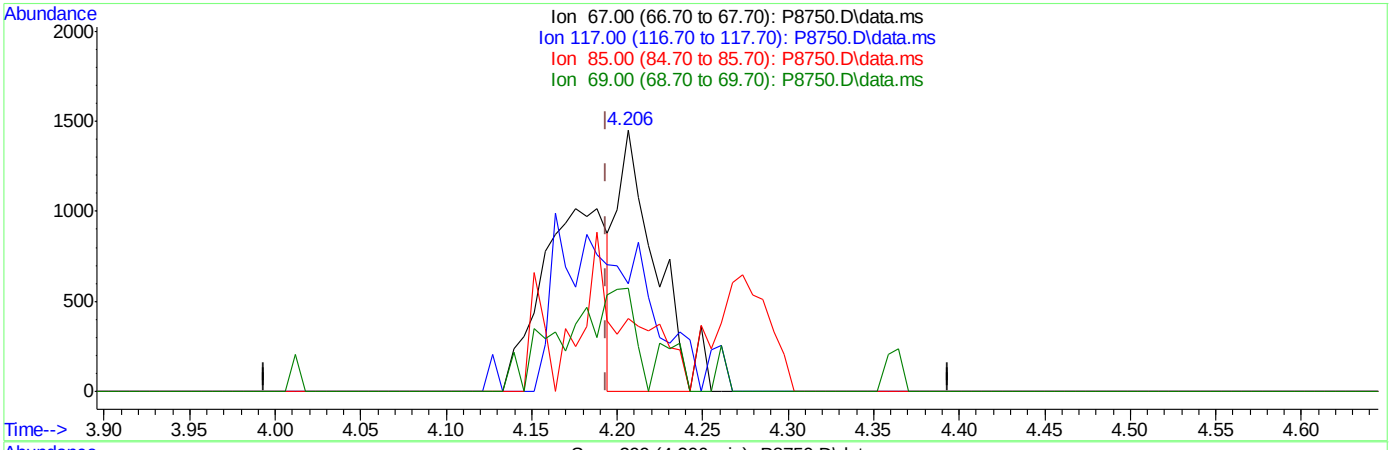
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	37.07
0.00	0.00	0.00
0.00	0.00	0.00

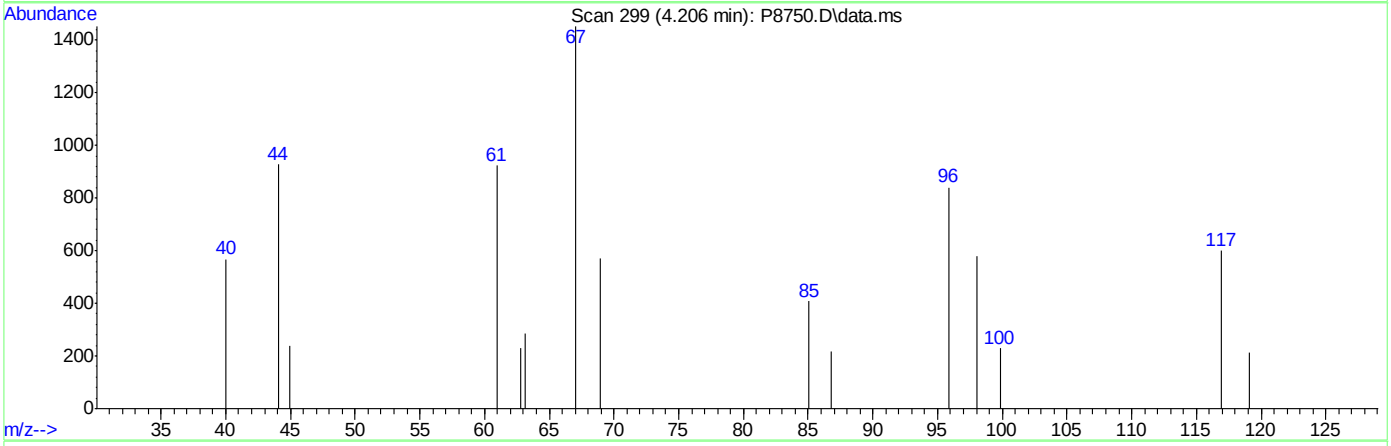
ACCUTEST LABORATORIES F95274

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On    : 16 Jul 2012  10:36 am
Operator  : EileenG
Sample    : ic354-1
Misc      : MS21485,VP354,,,,,
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 16 11:43:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title  : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration
```



TIC: P8750.D\data.ms

(9) 1,2-Dichlorotrifluoroethane

4.206min (+0.012) 0.43ug/L

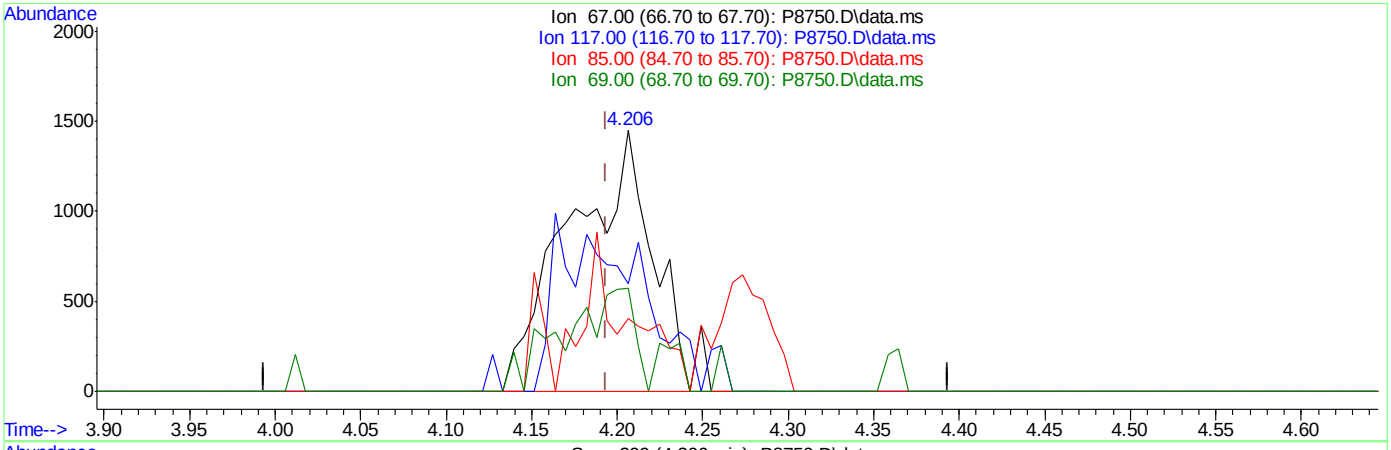
response 2160

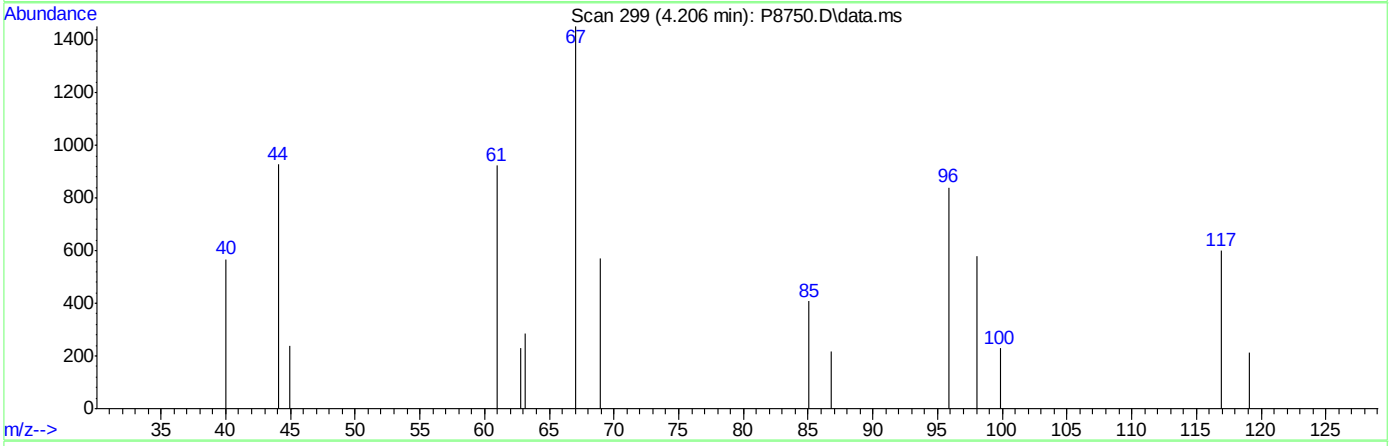
Ion	Exp%	Act%
67.00	100	100
117.00	73.20	21.69#
85.00	35.40	28.03
69.00	32.30	39.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8750.D
Acq On : 16 Jul 2012 10:36 am
Operator : EileenG
Sample : ic354-1
Misc : MS21485,VP354,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 16 11:43:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8750.D\data.ms

(9) 1,2-Dichlorotrifluoroethane

4.206min (+0.012) 0.99ug/L m

response 5006

Ion	Exp%	Act%
67.00	100	100
117.00	73.20	41.32#
85.00	35.40	28.03
69.00	32.30	39.33

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:47:57 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.519	96	775426	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	623226	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.974	152	346120	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.093	65	86340	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.692	113	297278	77.10	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 154.20%#			
38) 1,2-Dichloroethane-d4	7.246	65	358915	83.59	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 167.18%#			
48) Toluene-d8	9.070	98	1075656	71.06	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 142.12%#			
69) 4-Bromofluorobenzene	11.831	95	442092	67.94	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 135.88%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.630	85	20078	5.92	ug/L	85
3) Chloromethane	2.855	50	30149	5.22	ug/L	96
4) Vinyl Chloride	2.989	62	21401	4.38	ug/L	96
5) Bromomethane	3.360	94	13673	4.67	ug/L	97
6) Chloroethane	3.493	64	12800	4.63	ug/L	93
7) Trichlorofluoromethane	3.706	101	26489m	5.05	ug/L	
8) Ethyl Ether	3.968	59	20065	4.68	ug/L	95
9) 1,2-Dichlorotrifluoroe...	4.199	67	22360	4.53	ug/L #	81
10) 1,1-Dichloroethene	4.223	61	28391	4.77	ug/L	86
11) Freon 113	4.296	101	19796	4.97	ug/L	93
12) Carbon Disulfide	4.290	76	59134	4.56	ug/L	91
13) Iodomethane	4.412	142	36101	4.97	ug/L	98
14) Methylene Chloride	4.850	49	45641	5.48	ug/L	90
15) Acetone	4.898	58	10740	25.74	ug/L #	81
16) Methyl acetate	4.995	74	16079	24.67	ug/L #	90
17) trans-1,2-Dichloroethene	5.026	61	30036	4.80	ug/L	98
18) Hexane	5.081	56	21232	4.85	ug/L #	90
19) Methyl Tert Butyl Ether	5.123	73	65967	5.18	ug/L	86
20) Di-isopropyl ether	5.500	45	83248	4.80	ug/L	97
21) 1,1-Dichloroethane	5.671	63	34729	4.60	ug/L	97
22) Acrylonitrile	5.725	53	37381	24.45	ug/L	96
23) ETBE	5.883	59	77573	4.94	ug/L	99
24) Vinyl acetate	5.896	43	170941	28.42	ug/L	98
25) cis-1,2-Dichloroethene	6.236	96	19860	4.46	ug/L	97
26) 2,2-Dichloropropane	6.364	77	30300	5.20	ug/L	98
27) Bromochloromethane	6.449	128	11282	4.90	ug/L	95
28) Cyclohexane	6.479	56	38685	4.34	ug/L	93
29) Chloroform	6.504	83	34729	4.95	ug/L	88
30) Tetrahydrofuran	6.686	42	7321	4.63	ug/L	95
32) Carbon Tetrachloride	6.680	117	29915	5.37	ug/L	92
33) 1,1,1-Trichloroethane	6.747	97	31811	5.20	ug/L	97
34) 2-Butanone	6.808	43	52429	23.92	ug/L	98
35) 1,1-Dichloropropene	6.856	75	24917	4.80	ug/L	95
36) Benzene	7.118	78	77144	4.98	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:47:57 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.197	73	63633	4.83	ug/L		97
39) 1,2-Dichloroethane	7.319	62	29376	5.44	ug/L		94
40) Trichloroethene	7.690	95	19124	4.67	ug/L		97
41) Methylcyclohexane	7.702	83	33722	4.41	ug/L		95
42) Dibromomethane	8.121	93	12625	5.13	ug/L		97
43) 1,2-Dichloropropane	8.219	63	21941	4.92	ug/L		94
44) Bromodichloromethane	8.261	83	27522	5.26	ug/L		98
45) 2-Chloroethyl vinyl ether	8.790	63	50749	17.09	ug/L		92
46) cis-1,3-Dichloropropene	8.881	75	34046	5.01	ug/L		100
49) Toluene	9.125	91	83268	4.61	ug/L		97
50) 2-Nitropropane	9.350	41	28470	25.05	ug/L		93
51) 4-Methyl-2-pentanone	9.465	43	111738	25.44	ug/L		96
52) trans-1,3-Dichloropropene	9.514	75	29931	4.96	ug/L		97
53) Tetrachloroethene	9.514	166	21217	4.78	ug/L		96
54) 1,1,2-Trichloroethane	9.678	83	15181	5.04	ug/L		96
55) Dibromochloromethane	9.867	129	23778	5.39	ug/L		96
56) 1,3-Dichloropropane	9.958	76	34259	5.27	ug/L		96
57) 1,2-Dibromoethane	10.128	107	20404	5.36	ug/L		95
58) 2-hexanone	10.286	43	75169	25.57	ug/L		98
59) 1-Chlorohexane	10.572	91	27272	4.17	ug/L		87
60) Ethylbenzene	10.639	91	98995	4.76	ug/L		98
61) Chlorobenzene	10.633	112	58444	4.75	ug/L		95
62) 1,1,1,2-Tetrachloroethane	10.688	131	22205	4.91	ug/L		89
63) m,p-Xylene	10.779	91	147336	9.50	ug/L		97
64) o-Xylene	11.217	91	77704	4.66	ug/L		92
65) Styrene	11.265	104	62765	4.63	ug/L		97
66) Bromoform	11.320	173	15243	4.92	ug/L		94
67) Isopropylbenzene	11.521	105	84421	4.84	ug/L		89
70) n-Propylbenzene	11.940	91	111228	4.56	ug/L		96
71) Bromobenzene	11.953	156	27724	4.89	ug/L		96
72) 1,1,2,2-Tetrachloroethane	12.007	83	25246	5.02	ug/L		96
73) 1,3,5-Trimethylbenzene	12.129	105	88440	4.83	ug/L		96
74) 2-Chlorotoluene	12.123	91	78433	4.59	ug/L		94
75) trans-1,4-Dichloro-2-B...	12.190	53	2064	1.10	ug/L	#	81
76) 1,2,3-Trichloropropane	12.165	110	8057	5.37	ug/L		93
77) Cyclohexanone	12.232	55	3697	19.18	ug/L		87
78) 4-Chlorotoluene	12.293	91	75614	4.84	ug/L		95
79) tert-Butylbenzene	12.469	91	45944	4.51	ug/L		97
80) 1,2,4-Trimethylbenzene	12.536	105	89436	4.84	ug/L		95
81) sec-Butylbenzene	12.652	105	106168	4.79	ug/L		93
82) 4-Isopropyltoluene	12.786	119	86782	4.58	ug/L		95
83) 1,3-Dichlorobenzene	12.907	146	53467	4.93	ug/L		96
84) 1,4-Dichlorobenzene	12.992	146	55941	4.95	ug/L		94
85) n-Butylbenzene	13.224	92	47807	4.33	ug/L		90
86) Benzyl Chloride	13.236	126	12103	4.70	ug/L	#	54
87) 1,2-Dichlorobenzene	13.424	146	50969	4.78	ug/L		97
88) 1,2-Dibromo-3-Chloropr...	14.184	75	4687	4.77	ug/L		96
89) Hexachlorobutadiene	14.732	225	15403	5.27	ug/L		94
90) 1,2,4-Trichlorobenzene	14.774	180	35525	5.06	ug/L		98
91) Naphthalene	15.060	128	76984	4.62	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:47:57 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

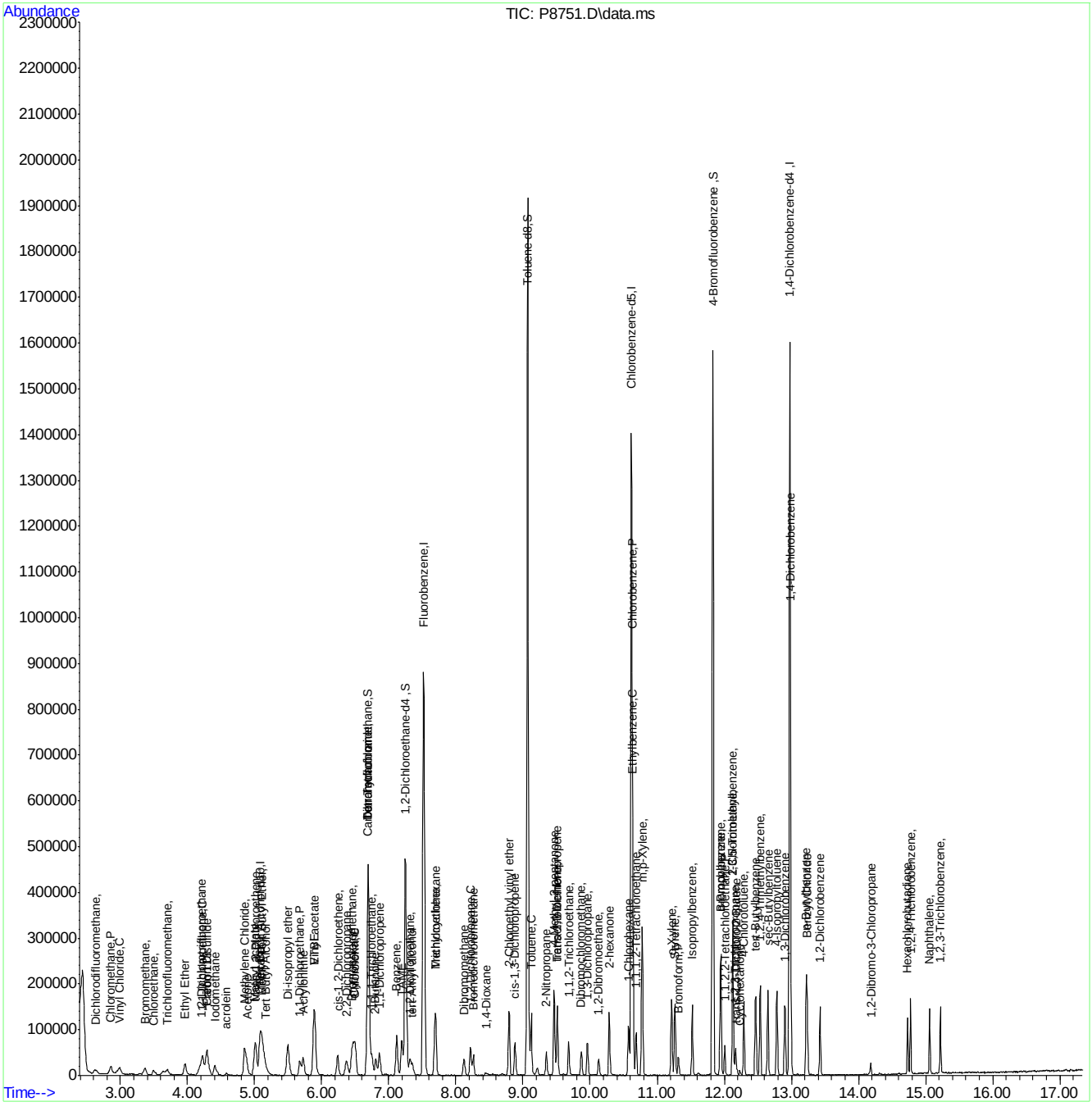
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.218	180	32153	5.12 ug/L	97
94) acrolein	4.582	56	4455	14.55 ug/L	83
95) Tert Butyl Alcohol	5.172	59	22565	50.54 ug/L	92
96) tert Amyl alcohol	7.349	59	17096	46.08 ug/L	87
97) 1,4-Dioxane	8.450	88	4191	105.99 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:47:57 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



Manual Integration Approval Summary

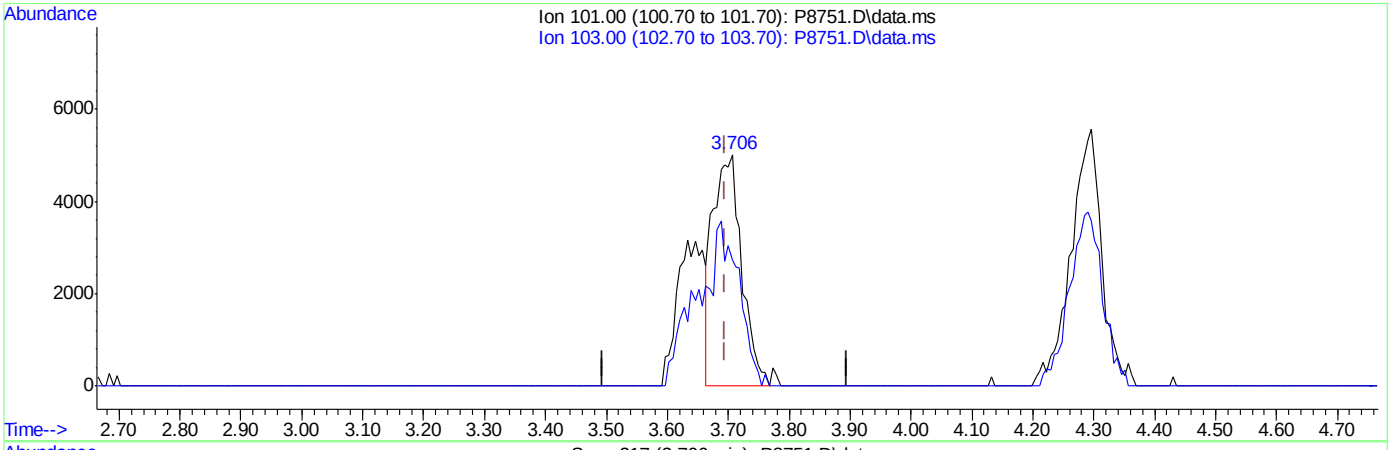
Sample Number:	VP354-IC354	**Method:**	SW846 8260B
Lab FileID:	P8751.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 10:59	**Supervisor approved:**	07/17/12 10:49 Karen Watson

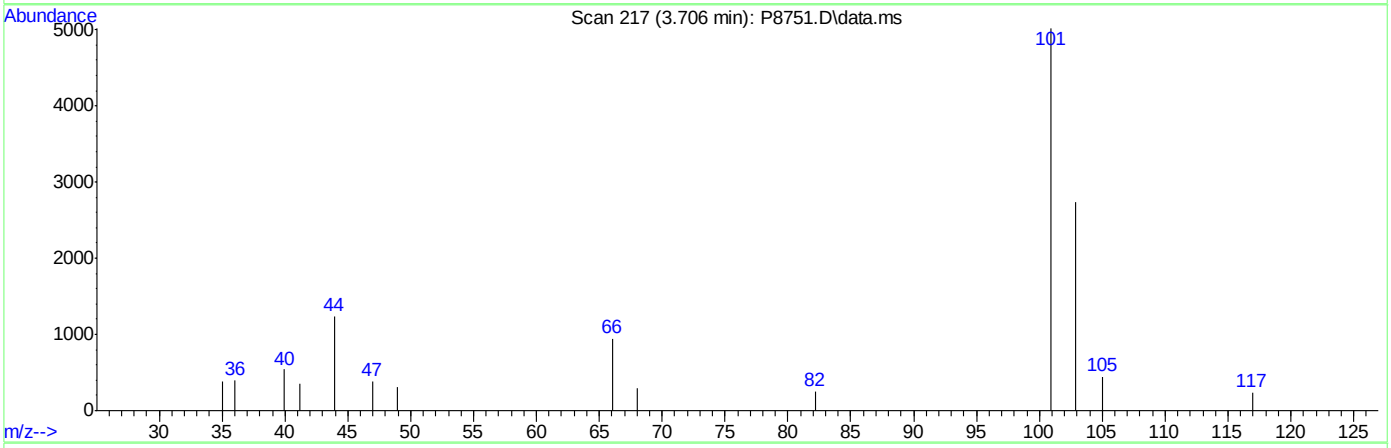
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.71	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:43:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8751.D\data.ms

(7) Trichlorofluoromethane ( )

3.706min (+0.011) 3.11ug/L

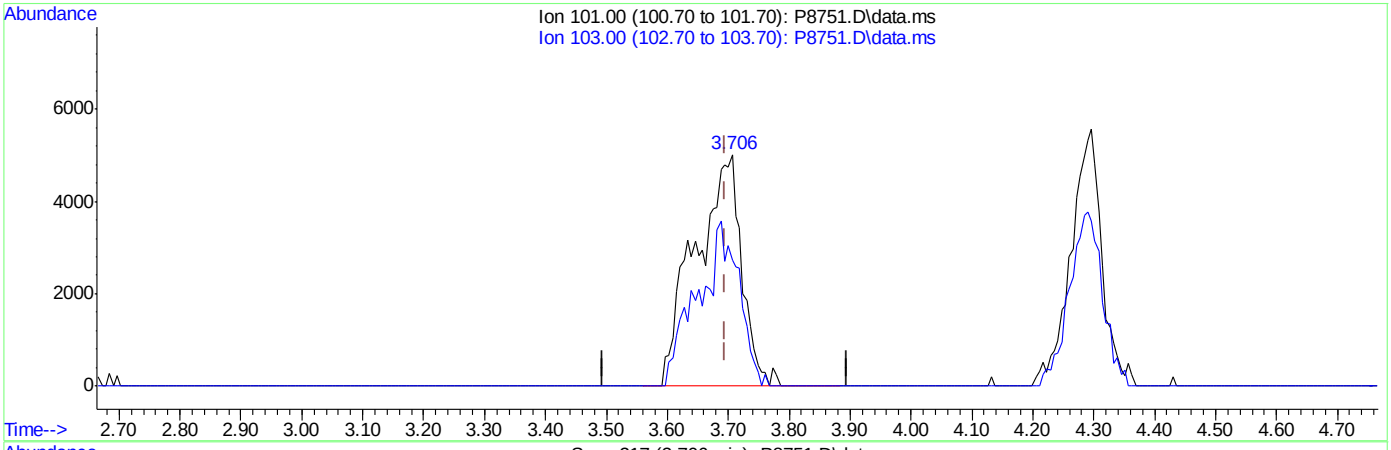
response 16338

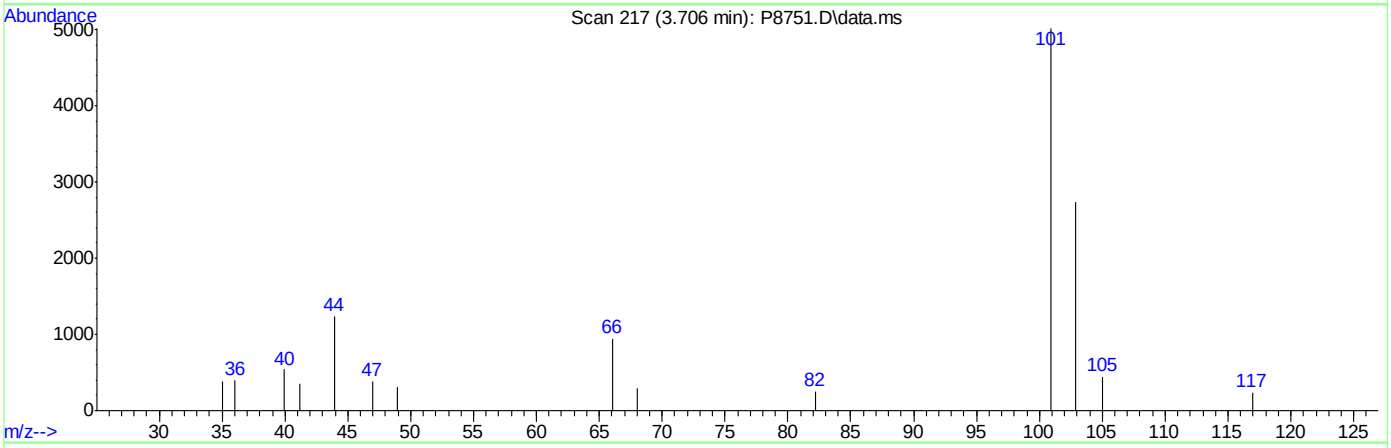
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	54.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8751.D
Acq On : 16 Jul 2012 10:59 am
Operator : EileenG
Sample : ic354-2
Misc : MS21485,VP354,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 11:43:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8751.D\data.ms

(7) Trichlorofluoromethane ( )

3.706min (+0.011) 5.05ug/L m

response 26489

Ion	Exp%	Act%
101.00	100	100
103.00	62.80	54.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:49:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	762976	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	630994	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	347997	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.094	65	86070	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	336946	88.81	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 177.62%#			
38) 1,2-Dichloroethane-d4	7.247	65	417030	98.71	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 197.42%#			
48) Toluene-d8	9.071	98	1211024	79.02	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 158.04%#			
69) 4-Bromofluorobenzene	11.826	95	514537	78.64	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 157.28%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.619	85	97973	29.37	ug/L	88
3) Chloromethane	2.862	50	137149	24.15	ug/L	97
4) Vinyl Chloride	2.996	62	105445	21.93	ug/L	98
5) Bromomethane	3.373	94	60449	20.97	ug/L	98
6) Chloroethane	3.494	64	57373	21.08	ug/L	95
7) Trichlorofluoromethane	3.701	101	132679m	25.69	ug/L	
8) Ethyl Ether	3.969	59	77084	18.29	ug/L	90
9) 1,2-Dichlorotrifluoroe...	4.200	67	104210	21.44	ug/L	98
10) 1,1-Dichloroethene	4.230	61	128037	21.87	ug/L	96
11) Freon 113	4.291	101	97407	24.86	ug/L	91
12) Carbon Disulfide	4.291	76	280601	21.99	ug/L	96
13) Iodomethane	4.407	142	154661	21.66	ug/L	90
14) Methylene Chloride	4.857	49	144517	17.63	ug/L	96
15) Acetone	4.887	58	49922	121.59	ug/L	96
16) Methyl acetate	5.003	74	62230	97.02	ug/L	99
17) trans-1,2-Dichloroethene	5.021	61	131793	21.42	ug/L	96
18) Hexane	5.088	56	95917	22.29	ug/L	94
19) Methyl Tert Butyl Ether	5.130	73	271984	21.69	ug/L	94
20) Di-isopropyl ether	5.495	45	349857	20.48	ug/L	97
21) 1,1-Dichloroethane	5.678	63	154413	20.80	ug/L	97
22) Acrylonitrile	5.726	53	149764	99.55	ug/L	97
23) ETBE	5.890	59	321236	20.81	ug/L	97
24) Vinyl acetate	5.897	43	700686	118.41	ug/L	100
25) cis-1,2-Dichloroethene	6.243	96	90922	20.74	ug/L	91
26) 2,2-Dichloropropane	6.371	77	135562	23.63	ug/L	95
27) Bromochloromethane	6.450	128	48864	21.58	ug/L	97
28) Cyclohexane	6.474	56	190740	21.73	ug/L	97
29) Chloroform	6.505	83	152981	22.17	ug/L	93
30) Tetrahydrofuran	6.675	42	28920	18.59	ug/L	95
32) Carbon Tetrachloride	6.681	117	132834	24.22	ug/L	97
33) 1,1,1-Trichloroethane	6.748	97	141410	23.51	ug/L	97
34) 2-Butanone	6.809	43	217486	100.86	ug/L	96
35) 1,1-Dichloropropene	6.863	75	117105	22.91	ug/L	97
36) Benzene	7.119	78	328568	21.56	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:49:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.192	73	261858	20.21 ug/L	98
39) 1,2-Dichloroethane	7.313	62	126462	23.79 ug/L	90
40) Trichloroethene	7.684	95	88064	21.85 ug/L	94
41) Methylcyclohexane	7.697	83	162332	21.56 ug/L	97
42) Dibromomethane	8.122	93	54332	22.44 ug/L	95
43) 1,2-Dichloropropane	8.220	63	88665	20.20 ug/L	96
44) Bromodichloromethane	8.262	83	120292	23.36 ug/L	96
45) 2-Chloroethyl vinyl ether	8.791	63	213039	72.91 ug/L	97
46) cis-1,3-Dichloropropene	8.882	75	140302	20.97 ug/L	96
49) Toluene	9.120	91	365701	19.98 ug/L	99
50) 2-Nitropropane	9.351	41	115432	100.33 ug/L	95
51) 4-Methyl-2-pentanone	9.466	43	451945	101.65 ug/L	98
52) trans-1,3-Dichloropropene	9.515	75	124868	20.45 ug/L	99
53) Tetrachloroethene	9.515	166	97431	21.68 ug/L	97
54) 1,1,2-Trichloroethane	9.679	83	64470	21.13 ug/L	97
55) Dibromochloromethane	9.868	129	98236	22.01 ug/L	99
56) 1,3-Dichloropropane	9.959	76	131065	19.93 ug/L	98
57) 1,2-Dibromoethane	10.129	107	83941	21.77 ug/L	96
58) 2-hexanone	10.287	43	312565	105.01 ug/L	96
59) 1-Chlorohexane	10.573	91	133941	20.25 ug/L	94
60) Ethylbenzene	10.640	91	429966	20.40 ug/L	95
61) Chlorobenzene	10.634	112	255946	20.54 ug/L	97
62) 1,1,1,2-Tetrachloroethane	10.689	131	95824	20.92 ug/L	98
63) m,p-Xylene	10.780	91	664285	42.30 ug/L	98
64) o-Xylene	11.218	91	342126	20.28 ug/L	97
65) Styrene	11.266	104	279073	20.35 ug/L	99
66) Bromoform	11.315	173	67048	21.37 ug/L	98
67) Isopropylbenzene	11.522	105	389036	22.01 ug/L	94
70) n-Propylbenzene	11.941	91	509244	20.78 ug/L	95
71) Bromobenzene	11.954	156	119355	20.93 ug/L	99
72) 1,1,2,2-Tetrachloroethane	12.008	83	103012	20.38 ug/L	98
73) 1,3,5-Trimethylbenzene	12.130	105	396146	21.52 ug/L	95
74) 2-Chlorotoluene	12.124	91	348632	20.28 ug/L	97
75) trans-1,4-Dichloro-2-B...	12.191	53	14602	7.76 ug/L	86
76) 1,2,3-Trichloropropane	12.166	110	32060	21.27 ug/L	97
77) Cyclohexanone	12.227	55	14807	76.39 ug/L	93
78) 4-Chlorotoluene	12.294	91	316170	20.11 ug/L	98
79) tert-Butylbenzene	12.470	91	212990	20.80 ug/L	99
80) 1,2,4-Trimethylbenzene	12.537	105	408389	21.99 ug/L	94
81) sec-Butylbenzene	12.653	105	500902	22.46 ug/L	98
82) 4-Isopropyltoluene	12.787	119	402534	21.11 ug/L	100
83) 1,3-Dichlorobenzene	12.902	146	223609	20.53 ug/L	98
84) 1,4-Dichlorobenzene	12.993	146	230154	20.24 ug/L	96
85) n-Butylbenzene	13.225	92	230276	20.72 ug/L	89
86) Benzyl Chloride	13.237	126	52076	20.12 ug/L #	64
87) 1,2-Dichlorobenzene	13.425	146	217998	20.35 ug/L	97
88) 1,2-Dibromo-3-Chloropr...	14.179	75	19816	20.06 ug/L	87
89) Hexachlorobutadiene	14.733	225	75888	25.85 ug/L	95
90) 1,2,4-Trichlorobenzene	14.775	180	154266	21.86 ug/L	97
91) Naphthalene	15.061	128	338832	20.24 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:49:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

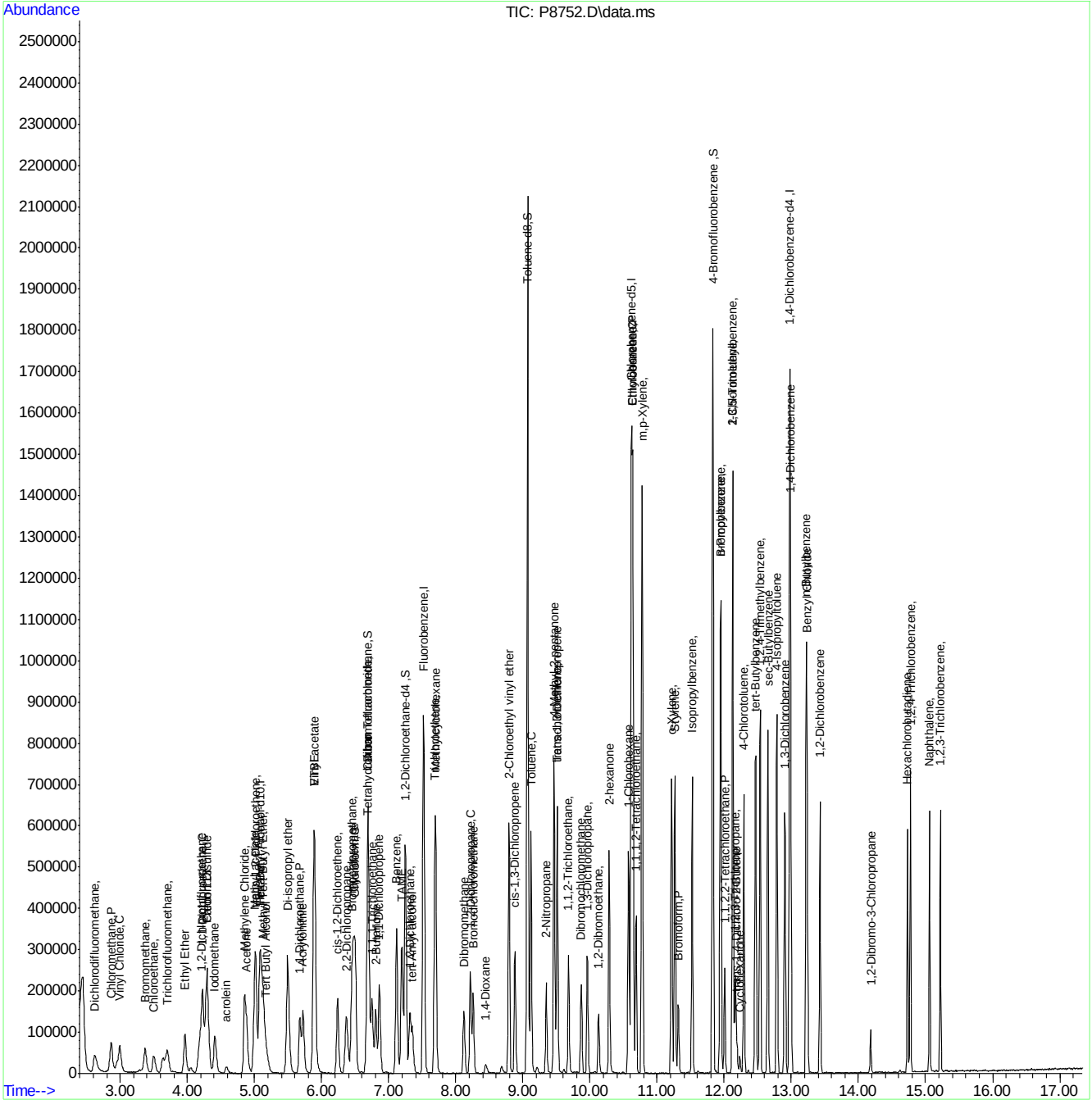
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	139036	22.03	ug/L	96
94) acrolein	4.577	56	16770	54.95	ug/L	95
95) Tert Butyl Alcohol	5.179	59	90213	202.71	ug/L	93
96) tert Amyl alcohol	7.356	59	70474	190.56	ug/L	95
97) 1,4-Dioxane	8.451	88	16236	411.88	ug/L	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:49:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

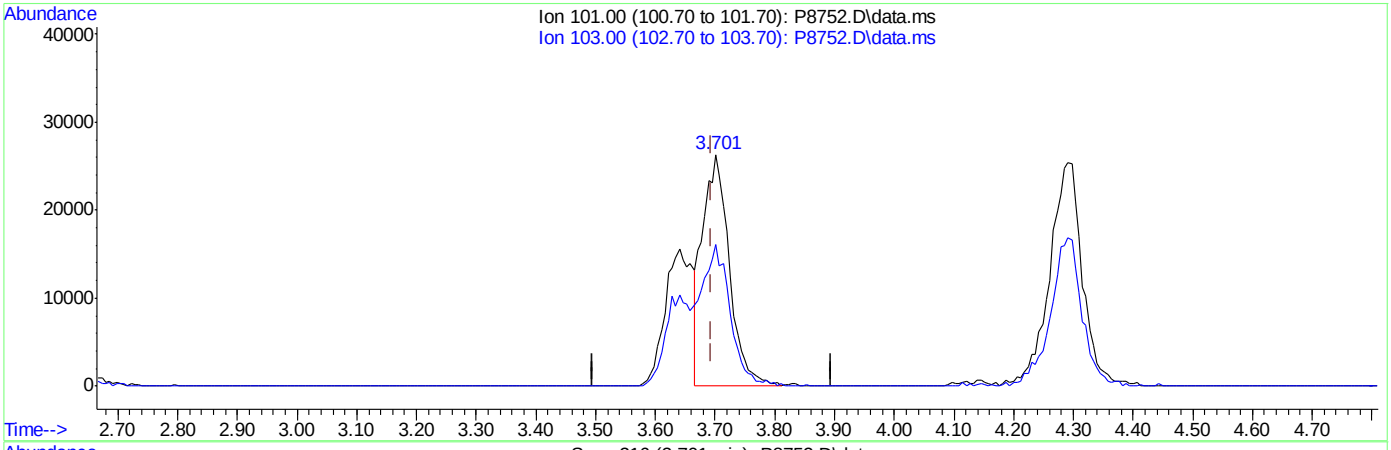
Sample Number:	VP354-IC354	**Method:**	SW846 8260B
Lab FileID:	P8752.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 11:22	**Supervisor approved:**	07/17/12 10:49 Karen Watson

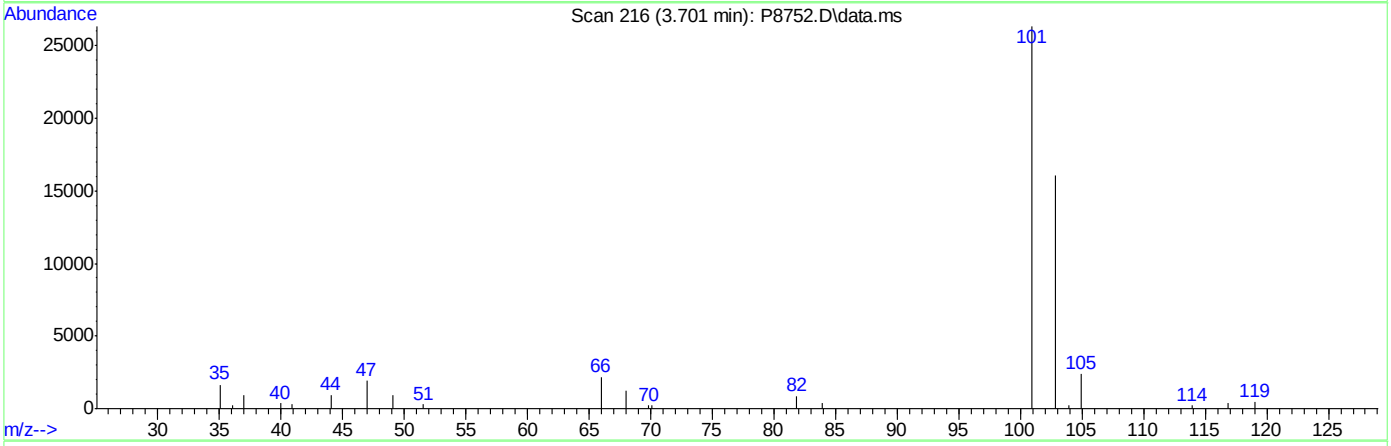
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:43:26 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8752.D\data.ms

(7) Trichlorofluoromethane ( )

3.701min (+0.006) 16.05ug/L

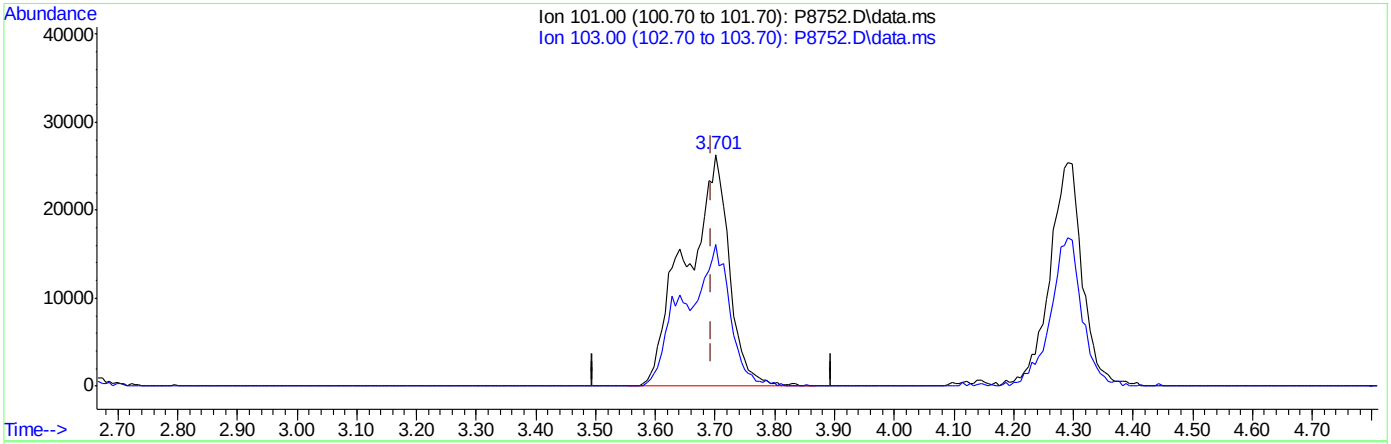
response 82901

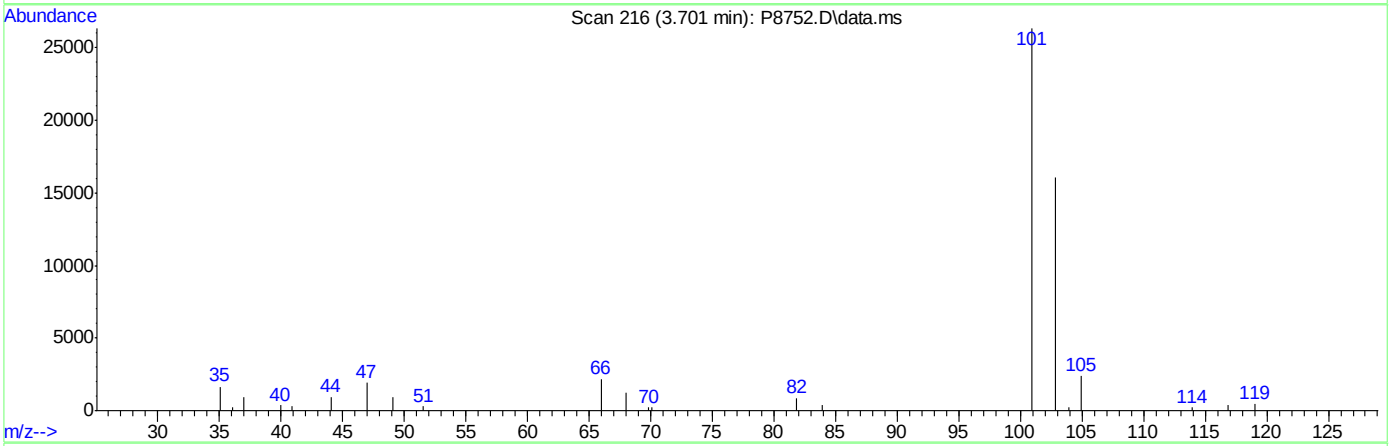
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	59.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8752.D
Acq On : 16 Jul 2012 11:22 am
Operator : EileenG
Sample : ic354-3
Misc : MS21485,VP354,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 11:43:26 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8752.D\data.ms

(7) Trichlorofluoromethane ( )

3.701min (+0.006) 25.69ug/L m

response 132679

Ion	Exp%	Act%
101.00	100	100
103.00	62.80	61.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:55 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	742970	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	608830	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	345325	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.106	65	89841	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	207934	56.28	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 112.56%			
38) 1,2-Dichloroethane-d4	7.247	65	246910	60.01	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 120.02%			
48) Toluene-d8	9.071	98	746949	50.51	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 101.02%			
69) 4-Bromofluorobenzene	11.826	95	309817	47.72	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 95.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.631	85	191724	59.03	ug/L	98
3) Chloromethane	2.880	50	271761	49.15	ug/L	99
4) Vinyl Chloride	3.002	62	208402	44.51	ug/L	100
5) Bromomethane	3.379	94	121401	43.24	ug/L	97
6) Chloroethane	3.507	64	116331	43.89	ug/L	93
7) Trichlorofluoromethane	3.701	101	245514m	48.82	ug/L	
8) Ethyl Ether	3.969	59	157162	38.30	ug/L	96
9) 1,2-Dichlorotrifluoroe...	4.206	67	199424	42.14	ug/L	96
10) 1,1-Dichloroethene	4.230	61	249923	43.84	ug/L	96
11) Freon 113	4.291	101	185511	48.62	ug/L	98
12) Carbon Disulfide	4.297	76	531180	42.75	ug/L	96
13) Iodomethane	4.419	142	305550	43.94	ug/L	92
14) Methylene Chloride	4.857	49	273453	34.25	ug/L	97
15) Acetone	4.887	58	95312	238.40	ug/L	94
16) Methyl acetate	5.003	74	123236	197.31	ug/L	98
17) trans-1,2-Dichloroethene	5.027	61	257210	42.94	ug/L	98
18) Hexane	5.082	56	184376	44.00	ug/L	96
19) Methyl Tert Butyl Ether	5.130	73	534019	43.74	ug/L	95
20) Di-isopropyl ether	5.501	45	685829	41.24	ug/L	97
21) 1,1-Dichloroethane	5.678	63	303166	41.93	ug/L	98
22) Acrylonitrile	5.726	53	304501	207.85	ug/L	97
23) ETBE	5.891	59	640438	42.60	ug/L	98
24) Vinyl acetate	5.897	43	1355257	235.20	ug/L	99
25) cis-1,2-Dichloroethene	6.243	96	176355	41.31	ug/L	98
26) 2,2-Dichloropropane	6.377	77	258340	46.24	ug/L	96
27) Bromochloromethane	6.450	128	94852	43.01	ug/L	95
28) Cyclohexane	6.481	56	354716	41.50	ug/L	98
29) Chloroform	6.505	83	304077	45.26	ug/L	98
30) Tetrahydrofuran	6.681	42	55124	36.39	ug/L	96
32) Carbon Tetrachloride	6.681	117	263347	49.31	ug/L	98
33) 1,1,1-Trichloroethane	6.754	97	274697	46.90	ug/L	98
34) 2-Butanone	6.809	43	418377	199.24	ug/L	99
35) 1,1-Dichloropropene	6.864	75	221339	44.47	ug/L	98
36) Benzene	7.119	78	632665	42.62	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:55 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.198	73	521567	41.35	ug/L		99
39) 1,2-Dichloroethane	7.320	62	246358	47.60	ug/L		92
40) Trichloroethene	7.691	95	169158	43.10	ug/L		97
41) Methylcyclohexane	7.703	83	313383	42.73	ug/L		99
42) Dibromomethane	8.122	93	101099	42.88	ug/L		98
43) 1,2-Dichloropropane	8.220	63	173303	40.55	ug/L		97
44) Bromodichloromethane	8.256	83	230041	45.87	ug/L		98
45) 2-Chloroethyl vinyl ether	8.791	63	414993	145.85	ug/L		98
46) cis-1,3-Dichloropropene	8.883	75	275927	42.36	ug/L		95
49) Toluene	9.120	91	695067	39.36	ug/L		100
50) 2-Nitropropane	9.351	41	231090	208.17	ug/L		96
51) 4-Methyl-2-pentanone	9.466	43	880510	205.25	ug/L		99
52) trans-1,3-Dichloropropene	9.515	75	244980	41.59	ug/L		99
53) Tetrachloroethene	9.509	166	184167	42.47	ug/L		98
54) 1,1,2-Trichloroethane	9.679	83	124401	42.26	ug/L		97
55) Dibromochloromethane	9.868	129	189186	43.94	ug/L		97
56) 1,3-Dichloropropane	9.965	76	263217	41.48	ug/L		96
57) 1,2-Dibromoethane	10.129	107	163305	43.90	ug/L		98
58) 2-hexanone	10.287	43	611130	212.80	ug/L		98
59) 1-Chlorohexane	10.573	91	255292	40.00	ug/L		95
60) Ethylbenzene	10.640	91	825517	40.59	ug/L		98
61) Chlorobenzene	10.634	112	490317	40.79	ug/L		98
62) 1,1,1,2-Tetrachloroethane	10.689	131	191160	43.26	ug/L		96
63) m,p-Xylene	10.780	91	1274897	84.14	ug/L		98
64) o-Xylene	11.218	91	666540	40.95	ug/L		97
65) Styrene	11.267	104	550578	41.60	ug/L		99
66) Bromoform	11.321	173	132714	43.83	ug/L		99
67) Isopropylbenzene	11.522	105	752473	44.13	ug/L		94
70) n-Propylbenzene	11.942	91	970980	39.94	ug/L		98
71) Bromobenzene	11.954	156	227837	40.27	ug/L		95
72) 1,1,2,2-Tetrachloroethane	12.008	83	202038	40.28	ug/L		99
73) 1,3,5-Trimethylbenzene	12.130	105	774354	42.40	ug/L		96
74) 2-Chlorotoluene	12.124	91	676536	39.66	ug/L		98
75) trans-1,4-Dichloro-2-B...	12.191	53	37305	19.99	ug/L	#	86
76) 1,2,3-Trichloropropane	12.167	110	65756	43.96	ug/L		96
77) Cyclohexanone	12.233	55	31735	165.00	ug/L		97
78) 4-Chlorotoluene	12.294	91	623871	39.98	ug/L		99
79) tert-Butylbenzene	12.465	91	414991	40.83	ug/L		98
80) 1,2,4-Trimethylbenzene	12.538	105	787654	42.75	ug/L		97
81) sec-Butylbenzene	12.653	105	966529	43.68	ug/L		97
82) 4-Isopropyltoluene	12.787	119	792810	41.90	ug/L		99
83) 1,3-Dichlorobenzene	12.902	146	444379	41.11	ug/L		98
84) 1,4-Dichlorobenzene	12.994	146	454286	40.25	ug/L		98
85) n-Butylbenzene	13.225	92	447455	40.58	ug/L		92
86) Benzyl Chloride	13.237	126	104026	40.51	ug/L	#	65
87) 1,2-Dichlorobenzene	13.425	146	425458	40.03	ug/L		95
88) 1,2-Dibromo-3-Chloropr...	14.179	75	39796	40.59	ug/L		88
89) Hexachlorobutadiene	14.733	225	151559	52.02	ug/L		94
90) 1,2,4-Trichlorobenzene	14.775	180	311063	44.41	ug/L		94
91) Naphthalene	15.061	128	687620	41.40	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:55 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	276987	44.23	ug/L	97
94) acrolein	4.595	56	34413	108.03	ug/L	83
95) Tert Butyl Alcohol	5.173	59	176383	379.69	ug/L	85
96) tert Amyl alcohol	7.356	59	141409	366.31	ug/L	93
97) 1,4-Dioxane	8.445	88	33799	821.43	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

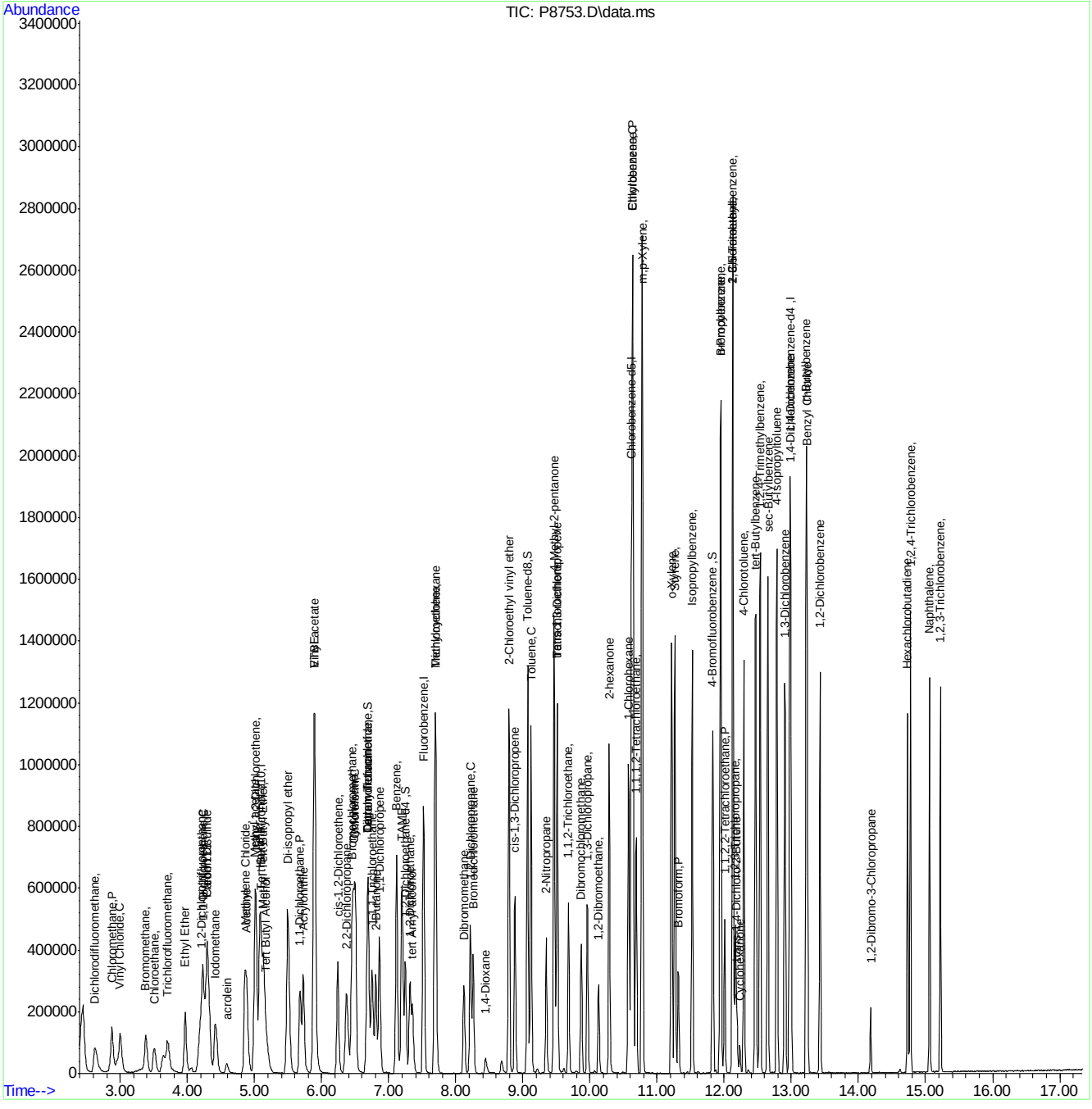
7.8.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:55 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



Manual Integration Approval Summary

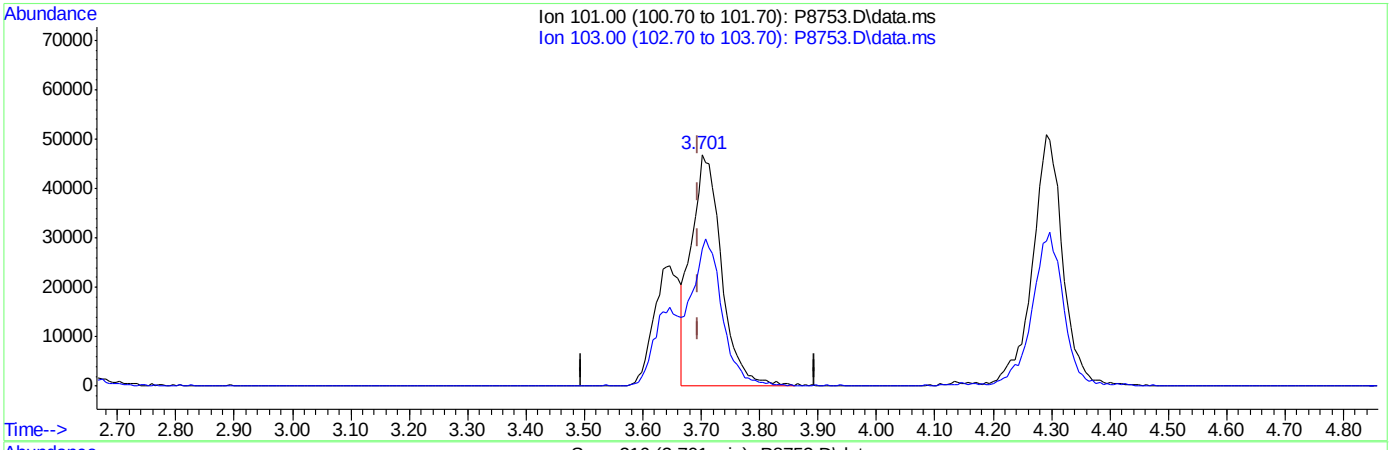
Sample Number:	VP354-ICC354	**Method:**	SW846 8260B
Lab FileID:	P8753.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 11:44	**Supervisor approved:**	07/17/12 10:49 Karen Watson

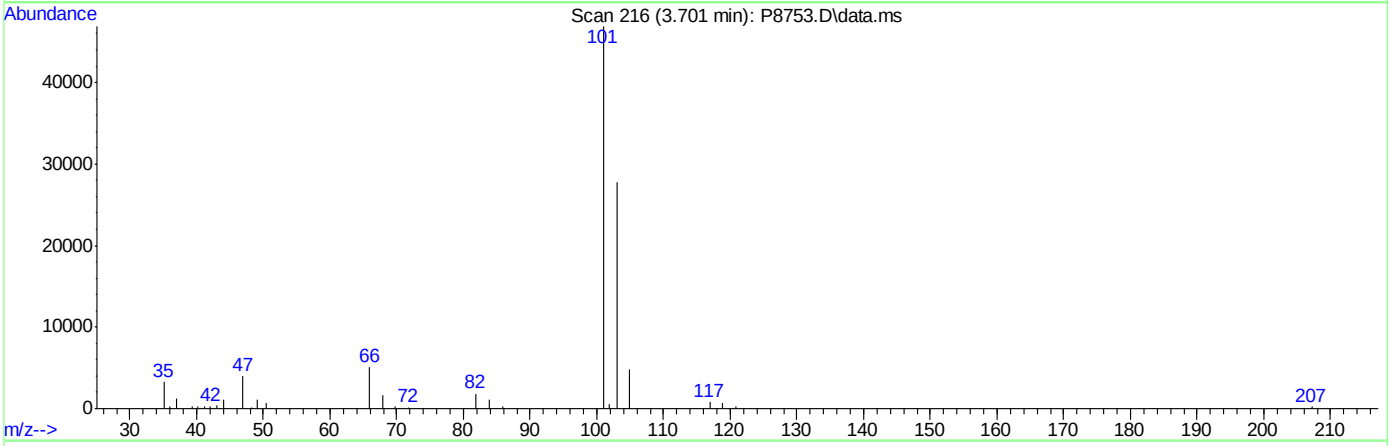
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:17 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8753.D\data.ms

(7) Trichlorofluoromethane ( )

3.701min (+0.006) 33.87ug/L

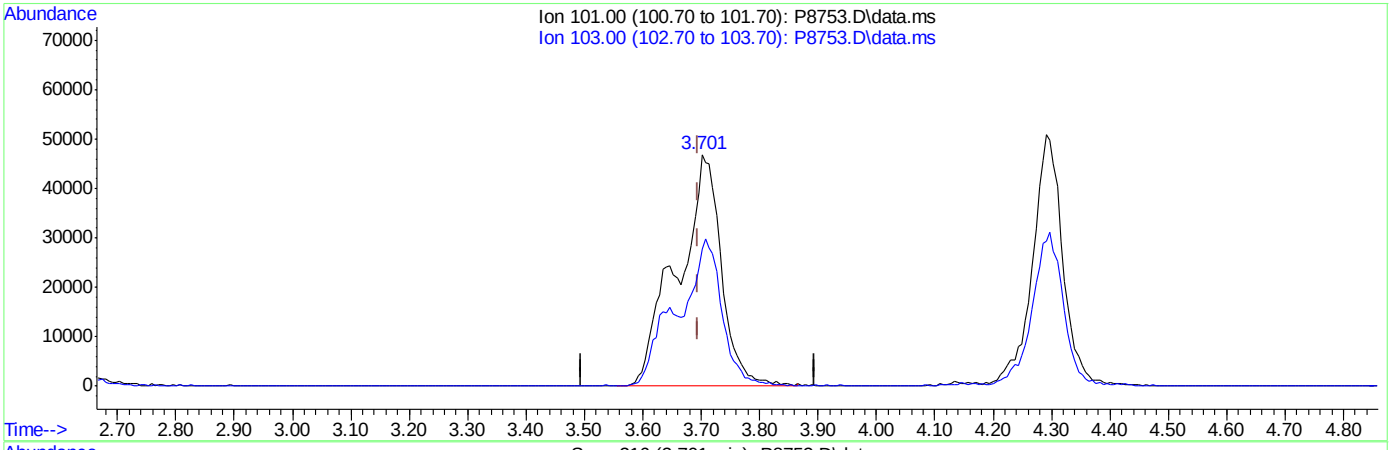
response 170328

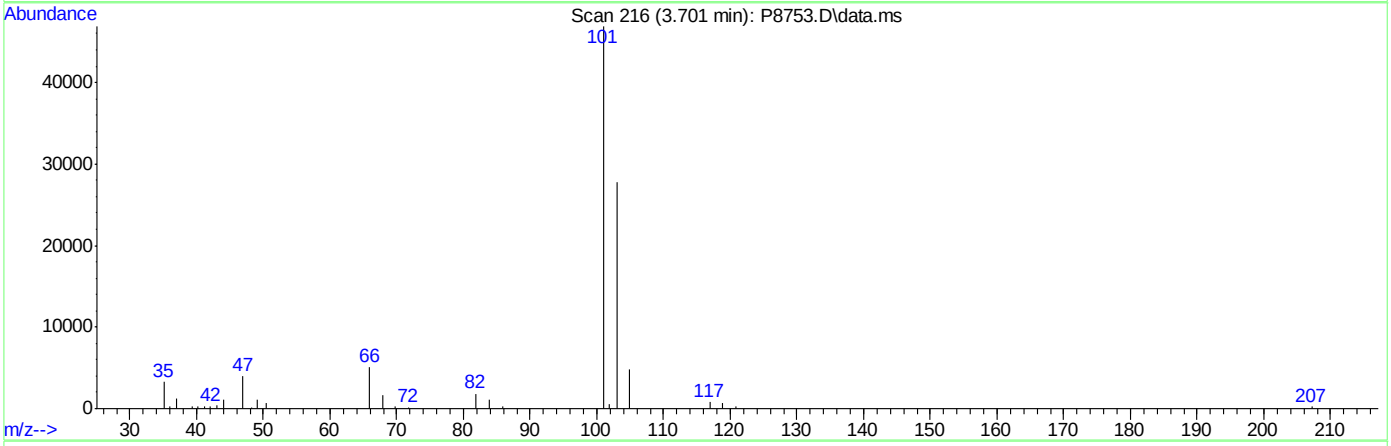
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	59.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8753.D
Acq On : 16 Jul 2012 11:44 am
Operator : EileenG
Sample : icc354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 12:41:17 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8753.D\data.ms

(7) Trichlorofluoromethane ( )

3.701min (+0.006) 48.82ug/L m

response 245514

Ion	Exp%	Act%
101.00	100	100
103.00	62.80	59.32
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:42:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	766477	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.616	117	630970	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	358488	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.094	65	94311	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	378610	99.34	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 198.68%#			
38) 1,2-Dichloroethane-d4	7.246	65	460111	108.41	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 216.82%#			
48) Toluene-d8	9.071	98	1347676	87.94	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 175.88%#			
69) 4-Bromofluorobenzene	11.826	95	581362	86.26	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 172.52%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.612	85	341823	102.01	ug/L	98
3) Chloromethane	2.862	50	478943	83.96	ug/L	99
4) Vinyl Chloride	2.990	62	376023	77.85	ug/L	100
5) Bromomethane	3.367	94	207934	71.79	ug/L	95
6) Chloroethane	3.494	64	200172	73.21	ug/L	94
7) Trichlorofluoromethane	3.695	101	469696m	90.53	ug/L	
8) Ethyl Ether	3.963	59	283937	67.07	ug/L	93
9) 1,2-Dichlorotrifluoroe...	4.188	67	359550	73.64	ug/L	93
10) 1,1-Dichloroethene	4.224	61	455427	77.45	ug/L	96
11) Freon 113	4.285	101	333602	84.75	ug/L	96
12) Carbon Disulfide	4.285	76	955857	74.56	ug/L	96
13) Iodomethane	4.400	142	548660	76.49	ug/L	93
14) Methylene Chloride	4.850	49	476699	57.87	ug/L	98
15) Acetone	4.881	58	168075	407.50	ug/L	90
16) Methyl acetate	4.996	74	227124	352.49	ug/L	96
17) trans-1,2-Dichloroethene	5.015	61	461542	74.68	ug/L	98
18) Hexane	5.075	56	332372	76.89	ug/L	97
19) Methyl Tert Butyl Ether	5.124	73	966300	76.72	ug/L	93
20) Di-isopropyl ether	5.495	45	1213081	70.70	ug/L	96
21) 1,1-Dichloroethane	5.671	63	542152	72.68	ug/L	99
22) Acrylonitrile	5.720	53	541020	357.97	ug/L	95
23) ETBE	5.884	59	1144158	73.78	ug/L	97
24) Vinyl acetate	5.890	43	2390253	402.10	ug/L	98
25) cis-1,2-Dichloroethene	6.237	96	313144	71.10	ug/L	98
26) 2,2-Dichloropropane	6.365	77	461927	80.15	ug/L	96
27) Bromochloromethane	6.450	128	169125	74.34	ug/L	98
28) Cyclohexane	6.474	56	654490	74.22	ug/L	99
29) Chloroform	6.498	83	542946	78.33	ug/L	97
30) Tetrahydrofuran	6.681	42	99585	63.73	ug/L	97
32) Carbon Tetrachloride	6.681	117	470045	85.32	ug/L	97
33) 1,1,1-Trichloroethane	6.748	97	494151	81.78	ug/L	97
34) 2-Butanone	6.803	43	765543	353.39	ug/L	98
35) 1,1-Dichloropropene	6.857	75	403967	78.67	ug/L	96
36) Benzene	7.119	78	1129414	73.75	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:42:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.192	73	940198	72.25 ug/L	99
39) 1,2-Dichloroethane	7.313	62	442354	82.84 ug/L	96
40) Trichloroethene	7.684	95	300131	74.12 ug/L	99
41) Methylcyclohexane	7.697	83	568630	75.16 ug/L	97
42) Dibromomethane	8.116	93	184329	75.78 ug/L	96
43) 1,2-Dichloropropane	8.213	63	312421	70.86 ug/L	96
44) Bromodichloromethane	8.256	83	415530	80.32 ug/L	97
45) 2-Chloroethyl vinyl ether	8.791	63	765483	260.77 ug/L	97
46) cis-1,3-Dichloropropene	8.882	75	501014	74.55 ug/L	99
49) Toluene	9.120	91	1234856	67.47 ug/L	99
50) 2-Nitropropane	9.345	41	421985	366.80 ug/L	96
51) 4-Methyl-2-pentanone	9.466	43	1577948	354.92 ug/L	99
52) trans-1,3-Dichloropropene	9.515	75	445540	72.98 ug/L	98
53) Tetrachloroethene	9.509	166	332539	73.99 ug/L	98
54) 1,1,2-Trichloroethane	9.679	83	221229	72.51 ug/L	98
55) Dibromochloromethane	9.868	129	342344	76.72 ug/L	99
56) 1,3-Dichloropropane	9.959	76	472474	71.84 ug/L	99
57) 1,2-Dibromoethane	10.129	107	298418	77.40 ug/L	98
58) 2-hexanone	10.281	43	1125169	378.04 ug/L	98
59) 1-Chlorohexane	10.573	91	464394	70.22 ug/L	94
60) Ethylbenzene	10.640	91	1466418	69.58 ug/L	98
61) Chlorobenzene	10.634	112	868003	69.67 ug/L	97
62) 1,1,1,2-Tetrachloroethane	10.689	131	340917	74.43 ug/L	96
63) m,p-Xylene	10.780	91	2231904	142.13 ug/L	96
64) o-Xylene	11.218	91	1188104	70.43 ug/L	97
65) Styrene	11.266	104	997223	72.71 ug/L	99
66) Bromoform	11.315	173	243629	77.64 ug/L	97
67) Isopropylbenzene	11.522	105	1345670	76.15 ug/L	95
70) n-Propylbenzene	11.941	91	1741861	69.01 ug/L	98
71) Bromobenzene	11.953	156	410339	69.87 ug/L	98
72) 1,1,2,2-Tetrachloroethane	12.008	83	358198	68.79 ug/L	98
73) 1,3,5-Trimethylbenzene	12.130	105	1368586	72.18 ug/L	95
74) 2-Chlorotoluene	12.124	91	1214494	68.58 ug/L	97
75) trans-1,4-Dichloro-2-B...	12.191	53	75383	38.90 ug/L	95
76) 1,2,3-Trichloropropane	12.166	110	118088	76.04 ug/L	92
77) Cyclohexanone	12.233	55	57123	286.09 ug/L	95
78) 4-Chlorotoluene	12.294	91	1104126	68.17 ug/L	97
79) tert-Butylbenzene	12.470	91	745675	70.67 ug/L	99
80) 1,2,4-Trimethylbenzene	12.537	105	1400539	73.22 ug/L	97
81) sec-Butylbenzene	12.653	105	1707159	74.32 ug/L	98
82) 4-Isopropyltoluene	12.787	119	1381766	70.34 ug/L	99
83) 1,3-Dichlorobenzene	12.908	146	790622	70.45 ug/L	99
84) 1,4-Dichlorobenzene	12.993	146	805954	68.79 ug/L	98
85) n-Butylbenzene	13.224	92	798290	69.74 ug/L	93
86) Benzyl Chloride	13.237	126	188872	70.85 ug/L #	66
87) 1,2-Dichlorobenzene	13.425	146	740894	67.14 ug/L	95
88) 1,2-Dibromo-3-Chloropr...	14.179	75	68644	67.44 ug/L	88
89) Hexachlorobutadiene	14.733	225	244548	80.85 ug/L	94
90) 1,2,4-Trichlorobenzene	14.775	180	510613	70.22 ug/L	96
91) Naphthalene	15.061	128	1087889	63.09 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:42:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	424061	65.22	ug/L	98
94) acrolein	4.583	56	60508	180.95	ug/L	93
95) Tert Butyl Alcohol	5.173	59	323260	662.89	ug/L	100
96) tert Amyl alcohol	7.350	59	267431	659.93	ug/L	94
97) 1,4-Dioxane	8.444	88	61647	1427.22	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

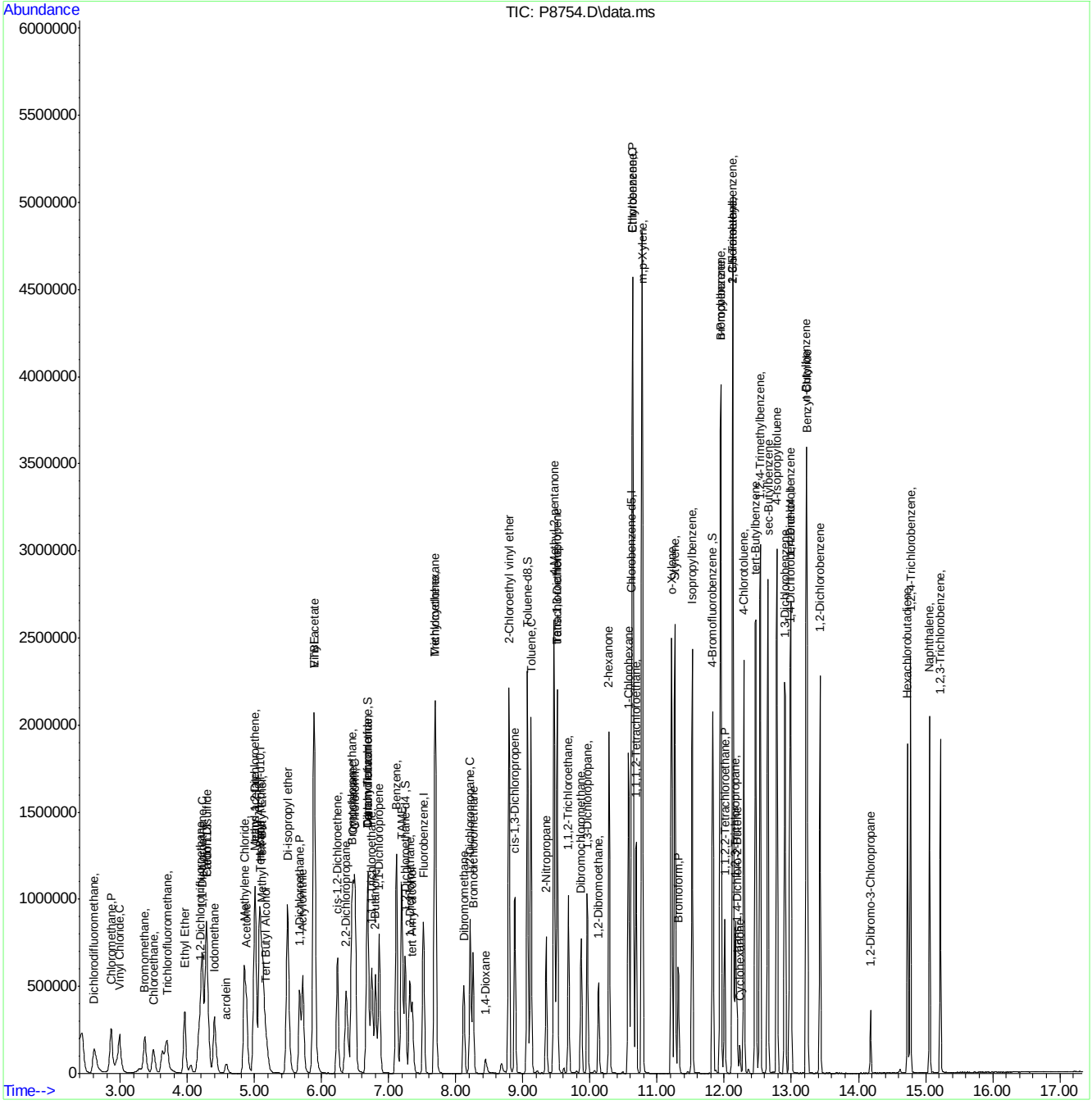
7.8.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:42:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



8260P.m Tue Jul 17 09:30:34 2012 Page: 4

Manual Integration Approval Summary

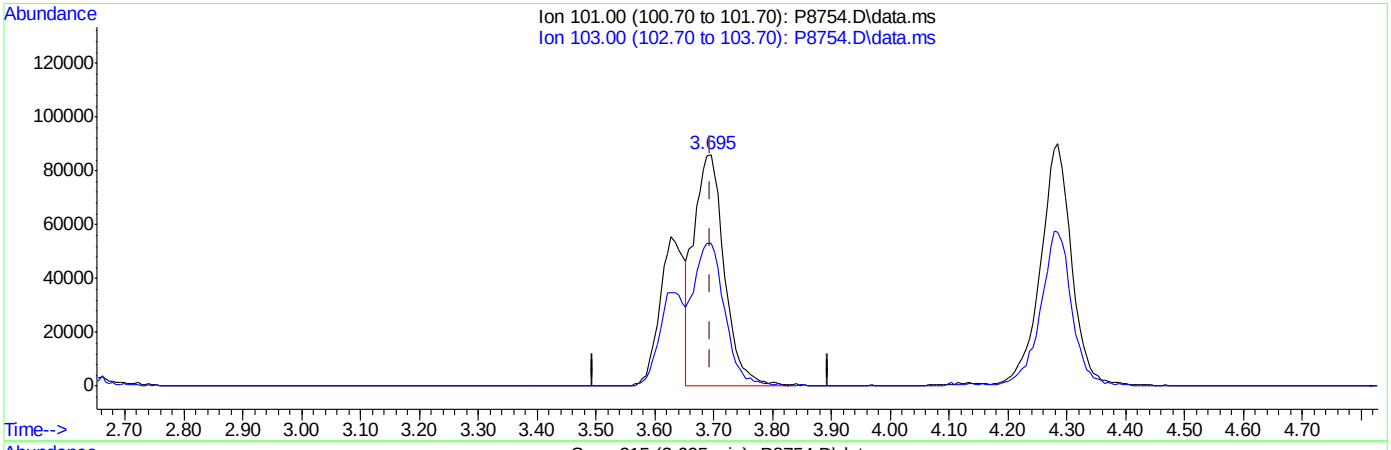
Sample Number:	VP354-IC354	**Method:**	SW846 8260B
Lab FileID:	P8754.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 12:07	**Supervisor approved:**	07/17/12 10:49 Karen Watson

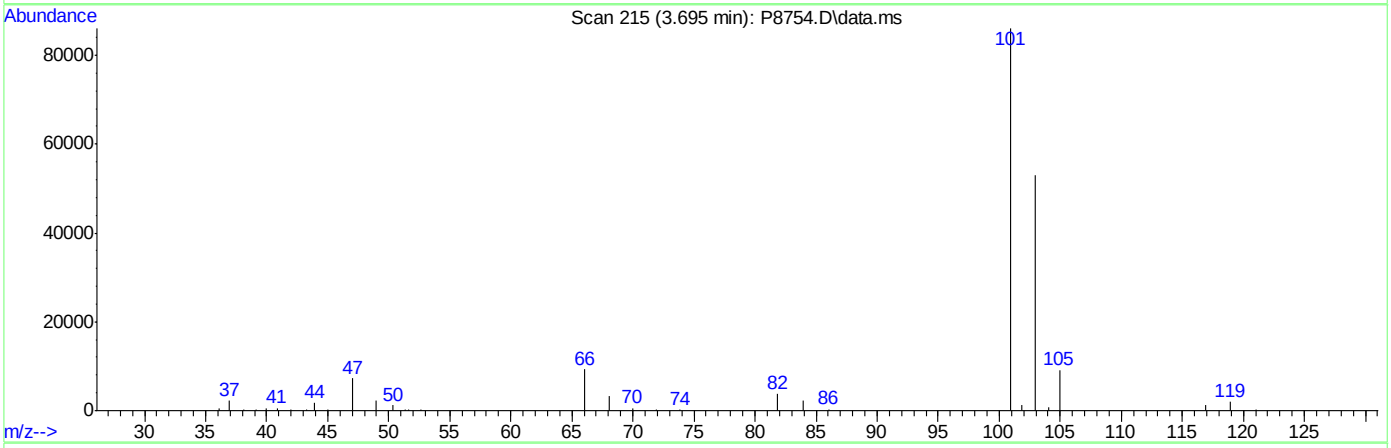
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.69	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:41:18 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.695min (-0.000) 59.48ug/L

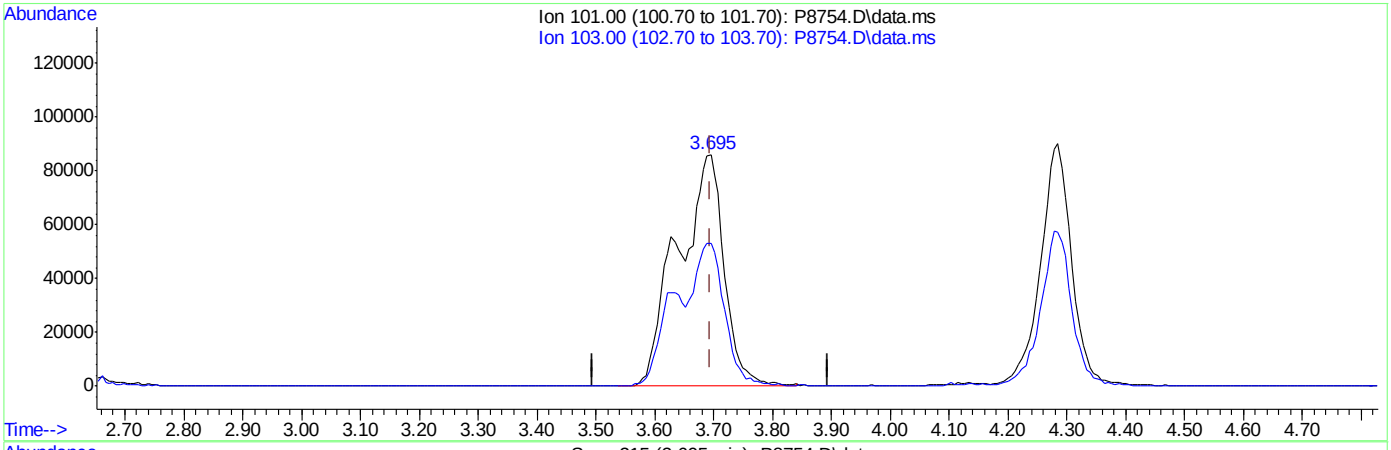
response 308615

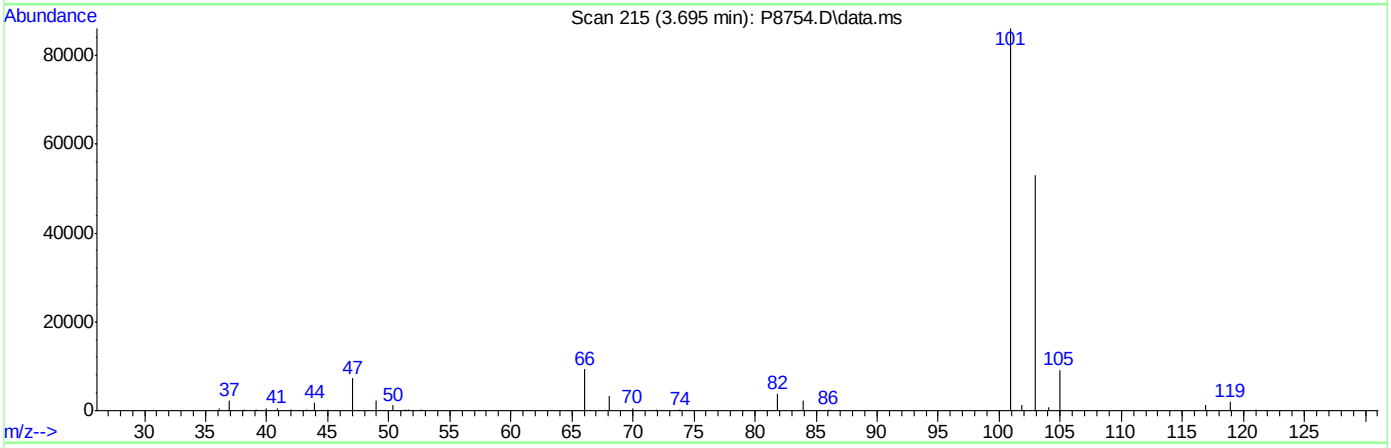
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	61.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8754.D
Acq On : 16 Jul 2012 12:07 pm
Operator : EileenG
Sample : ic354-5
Misc : MS21485,VP354,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 12:41:18 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.695min (-0.000) 90.53ug/L m

response 469696

Ion	Exp%	Act%
101.00	100	100
103.00	62.80	61.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.523	96	790401	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.618	117	656536	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.978	152	368031	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.102	65	100166	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.696	113	429713	109.33	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 218.66%#			
38) 1,2-Dichloroethane-d4	7.249	65	527451	120.51	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 241.02%#			
48) Toluene-d8	9.067	98	1544112	96.84	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 193.68%#			
69) 4-Bromofluorobenzene	11.828	95	671905	97.11	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 194.22%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.621	85	496978	143.82	ug/L	98
3) Chloromethane	2.870	50	695473	118.23	ug/L	99
4) Vinyl Chloride	2.992	62	559672	112.36	ug/L	99
5) Bromomethane	3.369	94	296912	99.40	ug/L	98
6) Chloroethane	3.497	64	292287	103.67	ug/L	95
7) Trichlorofluoromethane	3.698	101	684910m	128.02	ug/L	
8) Ethyl Ether	3.965	59	410541	94.03	ug/L	97
9) 1,2-Dichlorotrifluoroe...	4.190	67	533088	105.88	ug/L	95
10) 1,1-Dichloroethene	4.227	61	683755	112.75	ug/L	95
11) Freon 113	4.287	101	487502	120.10	ug/L	97
12) Carbon Disulfide	4.294	76	1432765	108.38	ug/L	96
13) Iodomethane	4.409	142	809611	109.45	ug/L	93
14) Methylene Chloride	4.853	49	695954	81.93	ug/L	97
15) Acetone	4.883	58	243835	573.29	ug/L	97
16) Methyl acetate	4.999	74	331047	498.22	ug/L	98
17) trans-1,2-Dichloroethene	5.023	61	679182	106.57	ug/L	100
18) Hexane	5.084	56	488304	109.54	ug/L	97
19) Methyl Tert Butyl Ether	5.127	73	1433682	110.38	ug/L	96
20) Di-isopropyl ether	5.498	45	1811605	102.39	ug/L	96
21) 1,1-Dichloroethane	5.674	63	799334	103.91	ug/L	99
22) Acrylonitrile	5.723	53	790057	506.92	ug/L	97
23) ETBE	5.887	59	1685341	105.38	ug/L	100
24) Vinyl acetate	5.893	43	3389664	552.97	ug/L	98
25) cis-1,2-Dichloroethene	6.240	96	458013	100.84	ug/L	97
26) 2,2-Dichloropropane	6.373	77	685474	115.33	ug/L	93
27) Bromochloromethane	6.452	128	250726	106.87	ug/L	96
28) Cyclohexane	6.477	56	985982	108.42	ug/L	98
29) Chloroform	6.501	83	790781	110.64	ug/L	99
30) Tetrahydrofuran	6.677	42	148704	92.29	ug/L	95
32) Carbon Tetrachloride	6.683	117	695591	122.44	ug/L	98
33) 1,1,1-Trichloroethane	6.750	97	739676	118.71	ug/L	98
34) 2-Butanone	6.805	43	1124670	503.45	ug/L	100
35) 1,1-Dichloropropene	6.860	75	593796	112.14	ug/L	98
36) Benzene	7.121	78	1670007	105.76	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.194	73	1392109	103.73 ug/L	98
39) 1,2-Dichloroethane	7.316	62	642568	116.69 ug/L	94
40) Trichloroethene	7.687	95	446465	106.93 ug/L	99
41) Methylcyclohexane	7.699	83	851107	109.09 ug/L	98
42) Dibromomethane	8.119	93	271674	108.31 ug/L	98
43) 1,2-Dichloropropane	8.216	63	460745	101.34 ug/L	97
44) Bromodichloromethane	8.259	83	615832	115.44 ug/L	99
45) 2-Chloroethyl vinyl ether	8.794	63	1123742	371.23 ug/L	96
46) cis-1,3-Dichloropropene	8.885	75	731706	105.58 ug/L	98
49) Toluene	9.122	91	1806375	94.85 ug/L	98
50) 2-Nitropropane	9.347	41	623337	520.72 ug/L	97
51) 4-Methyl-2-pentanone	9.463	43	2280958	493.07 ug/L	98
52) trans-1,3-Dichloropropene	9.517	75	657526	103.51 ug/L	98
53) Tetrachloroethene	9.511	166	489476	104.67 ug/L	98
54) 1,1,2-Trichloroethane	9.682	83	329916	103.93 ug/L	98
55) Dibromochloromethane	9.870	129	507268	109.25 ug/L	99
56) 1,3-Dichloropropane	9.961	76	693116	101.28 ug/L	98
57) 1,2-Dibromoethane	10.132	107	435452	108.55 ug/L	99
58) 2-hexanone	10.284	43	1643781	530.79 ug/L	98
59) 1-Chlorohexane	10.576	91	698320	101.47 ug/L	95
60) Ethylbenzene	10.636	91	2129829	97.12 ug/L	96
61) Chlorobenzene	10.636	112	1282877	98.96 ug/L	96
62) 1,1,1,2-Tetrachloroethane	10.685	131	501975	105.33 ug/L	96
63) m,p-Xylene	10.776	91	3191956	195.35 ug/L	97
64) o-Xylene	11.214	91	1741213	99.20 ug/L	98
65) Styrene	11.269	104	1463338	102.54 ug/L	99
66) Bromoform	11.317	173	360134	110.30 ug/L	97
67) Isopropylbenzene	11.524	105	1951322	106.13 ug/L	97
70) n-Propylbenzene	11.944	91	2504553	96.66 ug/L	99
71) Bromobenzene	11.956	156	605449	100.41 ug/L	99
72) 1,1,2,2-Tetrachloroethane	12.005	83	535347	100.15 ug/L	98
73) 1,3,5-Trimethylbenzene	12.132	105	2004229	102.97 ug/L	97
74) 2-Chlorotoluene	12.126	91	1748038	96.15 ug/L	97
75) trans-1,4-Dichloro-2-B...	12.193	53	131279	65.99 ug/L	91
76) 1,2,3-Trichloropropane	12.169	110	175613	110.15 ug/L	92
77) Cyclohexanone	12.230	55	84486	412.17 ug/L	98
78) 4-Chlorotoluene	12.290	91	1639115	98.57 ug/L	100
79) tert-Butylbenzene	12.467	91	1098577	101.42 ug/L	98
80) 1,2,4-Trimethylbenzene	12.534	105	2029467	103.35 ug/L	97
81) sec-Butylbenzene	12.649	105	2457607	104.22 ug/L	99
82) 4-Isopropyltoluene	12.789	119	2011500	99.75 ug/L	98
83) 1,3-Dichlorobenzene	12.905	146	1162091	100.87 ug/L	98
84) 1,4-Dichlorobenzene	12.996	146	1188137	98.78 ug/L	99
85) n-Butylbenzene	13.227	92	1195102	101.69 ug/L	94
86) Benzyl Chloride	13.239	126	275651	100.72 ug/L	95
87) 1,2-Dichlorobenzene	13.428	146	1093778	96.55 ug/L	97
88) 1,2-Dibromo-3-Chloropr...	14.182	75	98636	94.40 ug/L	95
89) Hexachlorobutadiene	14.735	225	350419	112.85 ug/L	97
90) 1,2,4-Trichlorobenzene	14.778	180	725362	97.17 ug/L	98
91) Naphthalene	15.064	128	1522057	85.98 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.222	180	586162	87.82 ug/L	98
94) acrolein	4.579	56	90591	255.08 ug/L	92
95) Tert Butyl Alcohol	5.181	59	492895	951.66 ug/L	96
96) tert Amyl alcohol	7.352	59	405805	942.86 ug/L	97
97) 1,4-Dioxane	8.447	88	93770	2044.02 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

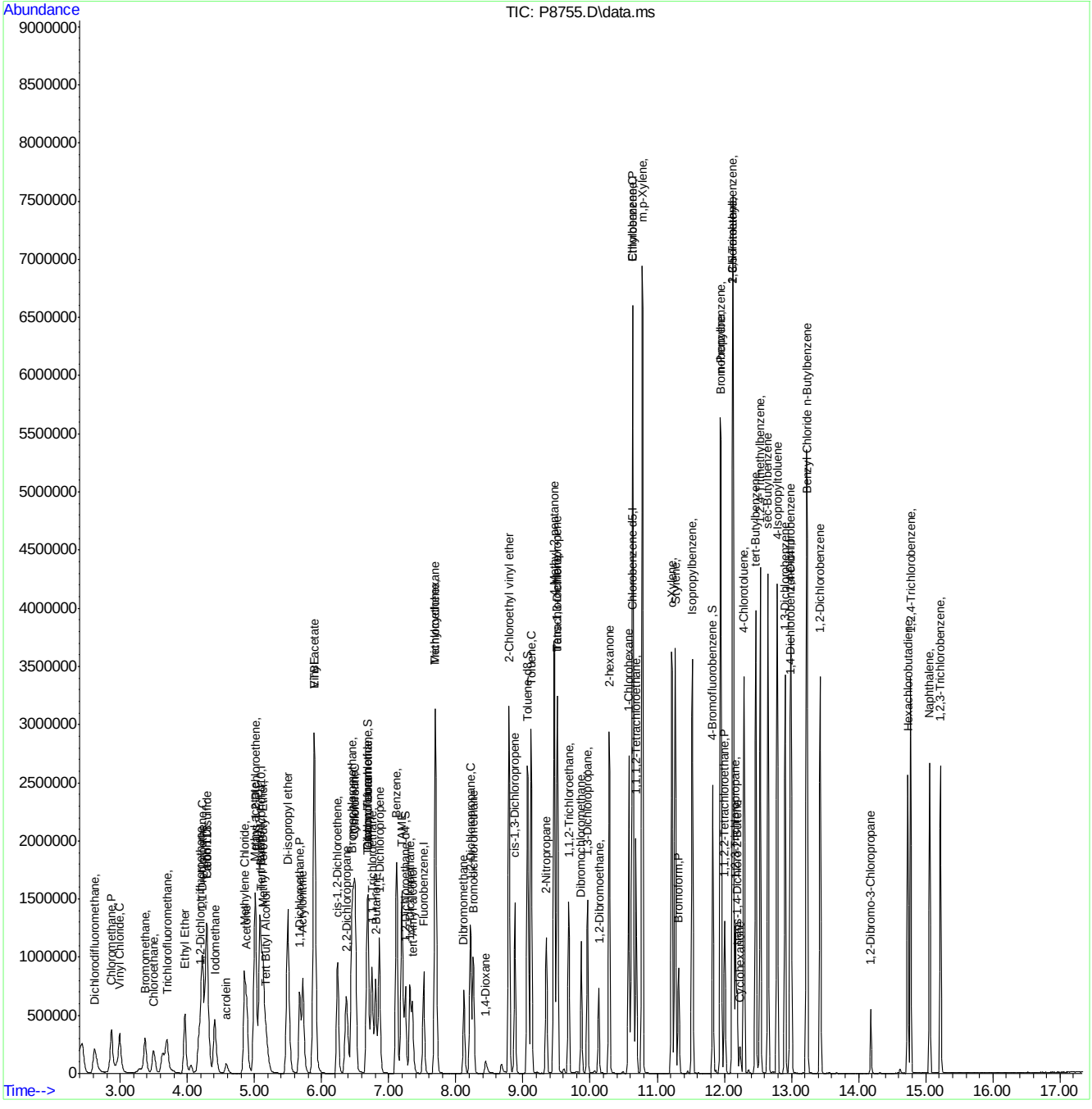
7.8.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:25 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration



Manual Integration Approval Summary

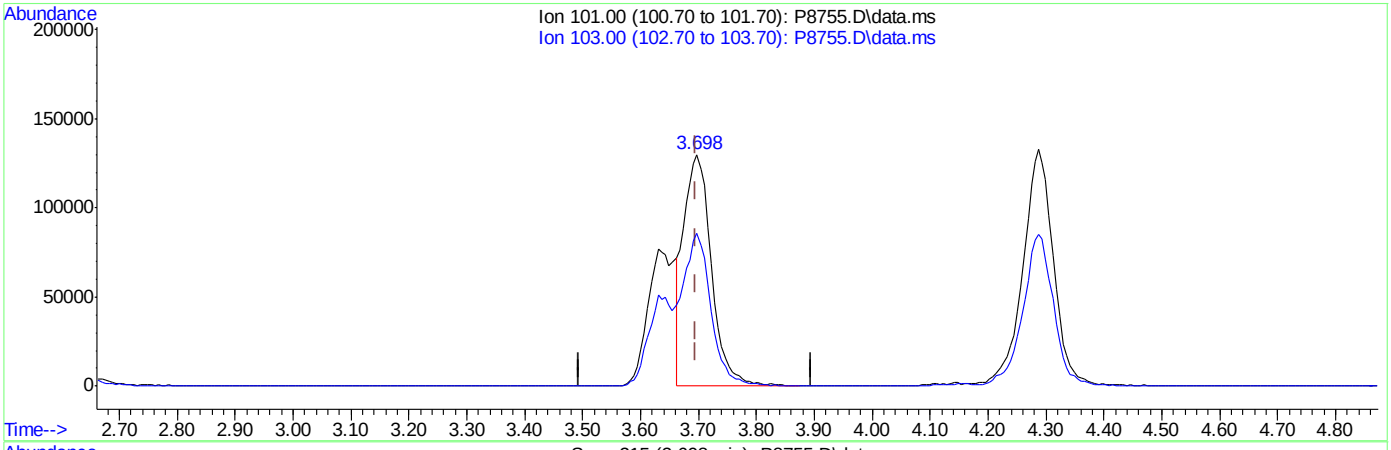
Sample Number:	VP354-IC354	**Method:**	SW846 8260B
Lab FileID:	P8755.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 12:30	**Supervisor approved:**	07/17/12 10:49 Karen Watson

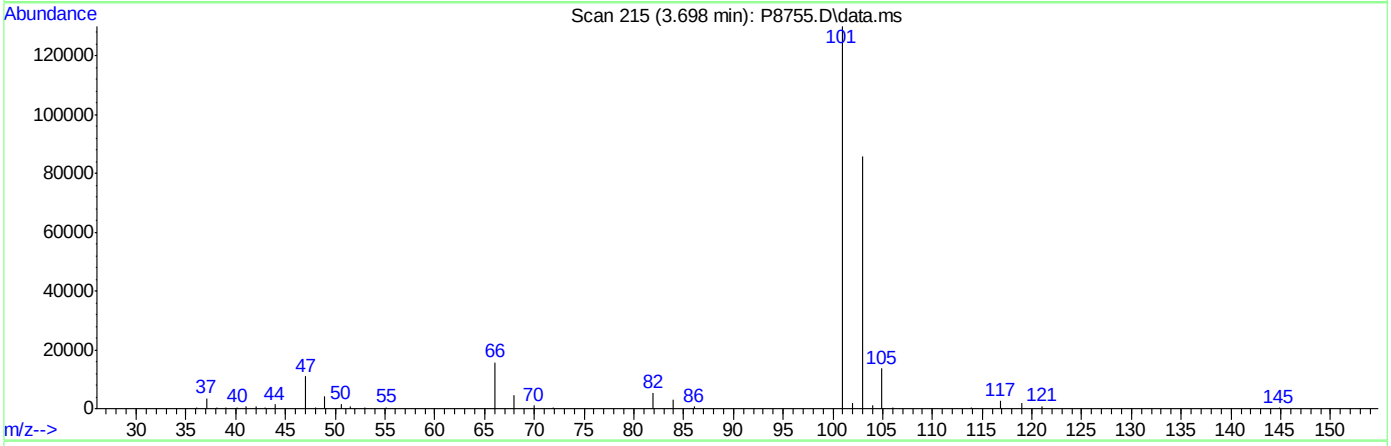
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8755.D\data.ms

(7) Trichlorofluoromethane ( )

3.698min (+0.002) 81.21ug/L

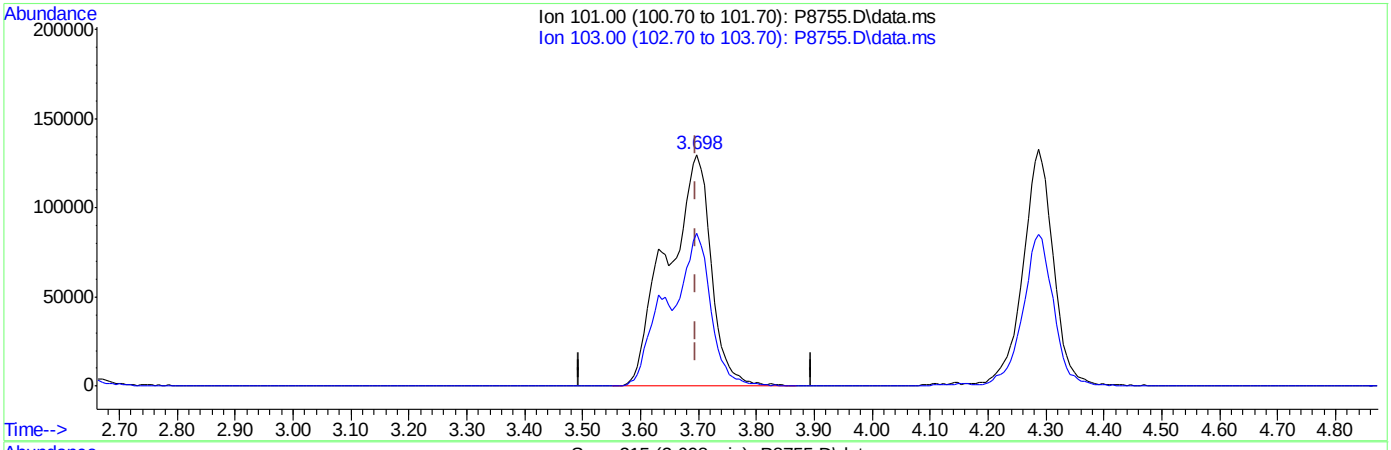
response 434467

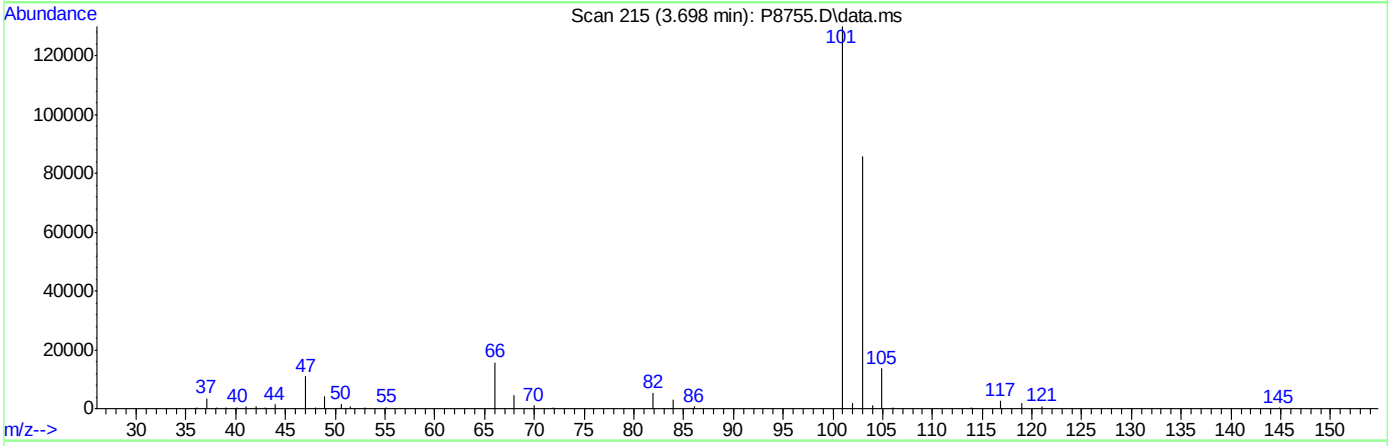
Ion	Exp%	Act%
101.00	100	100
103.00	62.80	65.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8755.D
Acq On : 16 Jul 2012 12:30 pm
Operator : EileenG
Sample : ic354-6
Misc : MS21485,VP354,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 12:48:04 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 08:22:48 2012
Response via : Initial Calibration





TIC: P8755.D\data.ms

(7) Trichlorofluoromethane ( )

3.698min (+0.002) 128.02ug/L m

response 684910

Ion	Exp%	Act%
101.00	100	100
103.00	62.80	65.99
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/17/12 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.522	96	819369	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.618	117	659912	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.977	152	365153	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.102	65	98843	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.695	113	222276	49.36	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 98.72%			
38) 1,2-Dichloroethane-d4	7.249	65	266918	48.92	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 97.84%			
48) Toluene-d8	9.073	98	807350	50.69	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 101.38%			
69) 4-Bromofluorobenzene	11.828	95	333107	50.05	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 100.10%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.615	85	190599	36.18	ug/L	94
3) Chloromethane	2.870	50	265783	37.35	ug/L	91
4) Vinyl Chloride	2.998	62	213805	40.28	ug/L	97
5) Bromomethane	3.369	94	107583	34.21	ug/L	98
6) Chloroethane	3.503	64	110853	36.31	ug/L	95
7) Trichlorofluoromethane	3.697	101	272453m	39.04	ug/L	
8) Ethyl Ether	3.965	59	159326	36.79	ug/L	97
9) 1,2-Dichlorotrifluoroe...	4.196	67	182587	34.25	ug/L	92
10) 1,1-Dichloroethene	4.226	61	260723	40.18	ug/L	98
11) Freon 113	4.293	101	177913	37.64	ug/L	95
12) Carbon Disulfide	4.293	76	489281	34.18	ug/L	98
13) Iodomethane	4.415	142	294476	36.09	ug/L	97
14) Methylene Chloride	4.853	49	280779	37.25	ug/L	98
15) Acetone	4.883	58	82127	160.91	ug/L	97
16) Methyl acetate	4.999	74	134173	197.89	ug/L	97
17) trans-1,2-Dichloroethene	5.017	61	257145	38.06	ug/L	97
18) Hexane	5.084	56	178784	37.09	ug/L	95
19) Methyl Tert Butyl Ether	5.126	73	523741	36.76	ug/L	96
20) Di-isopropyl ether	5.497	45	699011	38.07	ug/L	99
21) 1,1-Dichloroethane	5.674	63	315150	39.50	ug/L	100
22) Acrylonitrile	5.722	53	352373	216.18	ug/L	96
23) ETBE	5.886	59	620865	36.69	ug/L	99
24) Vinyl acetate	5.892	43	1696958	233.80	ug/L	99
25) cis-1,2-Dichloroethene	6.239	96	177435	38.13	ug/L	99
26) 2,2-Dichloropropane	6.367	77	258603	38.10	ug/L	98
27) Bromochloromethane	6.452	128	96221	36.67	ug/L	94
28) Cyclohexane	6.476	56	358669	38.58	ug/L	98
29) Chloroform	6.501	83	309136	39.36	ug/L	96
30) Tetrahydrofuran	6.677	42	57952	38.12	ug/L	95
32) Carbon Tetrachloride	6.683	117	300494	44.18	ug/L	97
33) 1,1,1-Trichloroethane	6.750	97	284005	39.76	ug/L	100
34) 2-Butanone	6.805	43	421295	181.31	ug/L	96
35) 1,1-Dichloropropene	6.859	75	235416	40.96	ug/L	99
36) Benzene	7.121	78	678153	39.84	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.194	73	517843	37.09 ug/L	99
39) 1,2-Dichloroethane	7.316	62	255980	39.04 ug/L	97
40) Trichloroethene	7.686	95	178288	39.97 ug/L	97
41) Methylcyclohexane	7.699	83	312150	38.79 ug/L	98
42) Dibromomethane	8.124	93	108725	39.18 ug/L	97
43) 1,2-Dichloropropane	8.216	63	182156	39.10 ug/L	98
44) Bromodichloromethane	8.258	83	246224	39.68 ug/L	98
45) 2-Chloroethyl vinyl ether	8.793	63	473648	212.91 ug/L	98
46) cis-1,3-Dichloropropene	8.884	75	294270	39.74 ug/L	95
49) Toluene	9.122	91	779556	42.29 ug/L	98
50) 2-Nitropropane	9.347	41	241979	195.77 ug/L	99
51) 4-Methyl-2-pentanone	9.462	43	941484	200.48 ug/L	99
52) trans-1,3-Dichloropropene	9.517	75	280788	43.22 ug/L	98
53) Tetrachloroethene	9.511	166	196319	41.28 ug/L	99
54) 1,1,2-Trichloroethane	9.681	83	134795	40.54 ug/L	97
55) Dibromochloromethane	9.870	129	204283	40.09 ug/L	99
56) 1,3-Dichloropropane	9.961	76	274895	39.36 ug/L	96
57) 1,2-Dibromoethane	10.125	107	175775	40.23 ug/L	94
58) 2-hexanone	10.283	43	665601	198.54 ug/L	99
59) 1-Chlorohexane	10.575	91	255780	37.84 ug/L	98
60) Ethylbenzene	10.636	91	855931	39.54 ug/L	100
61) Chlorobenzene	10.636	112	521846	41.01 ug/L	99
62) 1,1,1,2-Tetrachloroethane	10.691	131	201395	40.21 ug/L	97
63) m,p-Xylene	10.776	91	1340328	82.34 ug/L	99
64) o-Xylene	11.214	91	706476	41.00 ug/L	98
65) Styrene	11.268	104	581009	41.18 ug/L	98
66) Bromoform	11.317	173	140020	41.48 ug/L	97
67) Isopropylbenzene	11.524	105	915765	47.80 ug/L	99
70) n-Propylbenzene	11.943	91	1032628	41.68 ug/L	99
71) Bromobenzene	11.956	156	239905	40.06 ug/L	97
72) 1,1,2,2-Tetrachloroethane	12.004	83	214363	39.51 ug/L	98
73) 1,3,5-Trimethylbenzene	12.132	105	790774	40.27 ug/L	100
74) 2-Chlorotoluene	12.126	91	709699	41.15 ug/L	99
75) trans-1,4-Dichloro-2-B...	12.193	53	36135	38.95 ug/L	88
76) 1,2,3-Trichloropropane	12.168	110	68889	40.01 ug/L	92
77) Cyclohexanone	12.229	55	32814	208.12 ug/L	95
78) 4-Chlorotoluene	12.290	91	657909	41.56 ug/L	98
79) tert-Butylbenzene	12.466	91	442317	42.57 ug/L	100
80) 1,2,4-Trimethylbenzene	12.533	105	812773	41.26 ug/L	97
81) sec-Butylbenzene	12.649	105	1023418	42.53 ug/L	99
82) 4-Isopropyltoluene	12.789	119	846492	43.59 ug/L	98
83) 1,3-Dichlorobenzene	12.904	146	466568	40.96 ug/L	99
84) 1,4-Dichlorobenzene	12.995	146	483688	40.72 ug/L	99
85) n-Butylbenzene	13.227	92	464900	41.52 ug/L	94
86) Benzyl Chloride	13.239	126	98047	37.28 ug/L #	87
87) 1,2-Dichlorobenzene	13.427	146	452033	41.32 ug/L	98
88) 1,2-Dibromo-3-Chloropr...	14.181	75	43440	41.46 ug/L	94
89) Hexachlorobutadiene	14.735	225	158630	44.04 ug/L	95
90) 1,2,4-Trichlorobenzene	14.777	180	326790	42.73 ug/L	96
91) Naphthalene	15.063	128	732589	43.86 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.221	180	289207	43.24 ug/L	99
94) acrolein	4.585	56	74082	409.01 ug/L	85
95) Tert Butyl Alcohol	5.175	59	192192	379.73 ug/L	87
96) tert Amyl alcohol	7.352	59	157548	396.79 ug/L	95
97) 1,4-Dioxane	8.447	88	34724	748.40 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

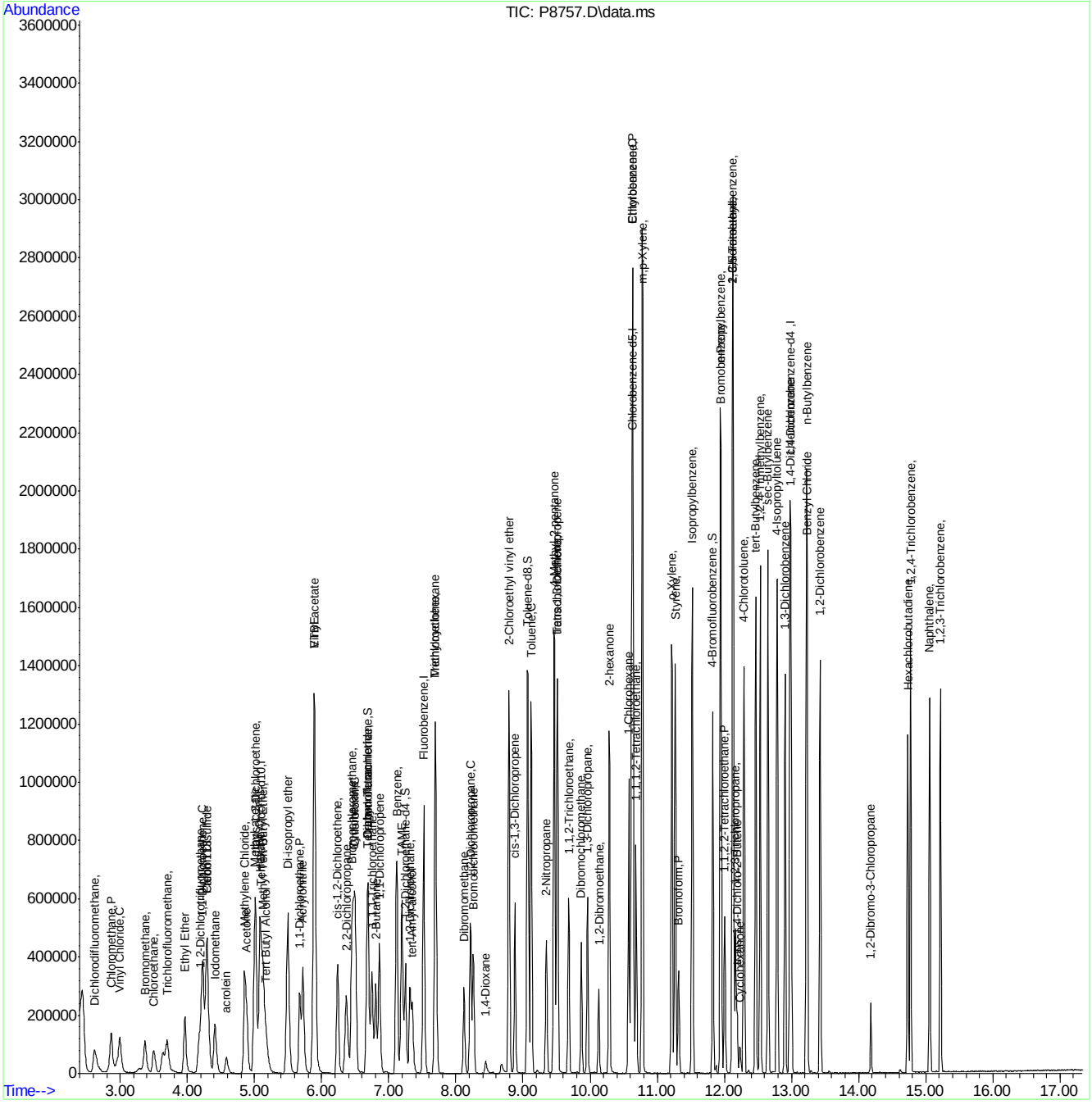
7.8.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



8260P.m Tue Jul 17 09:30:40 2012 Page: 4

Manual Integration Approval Summary

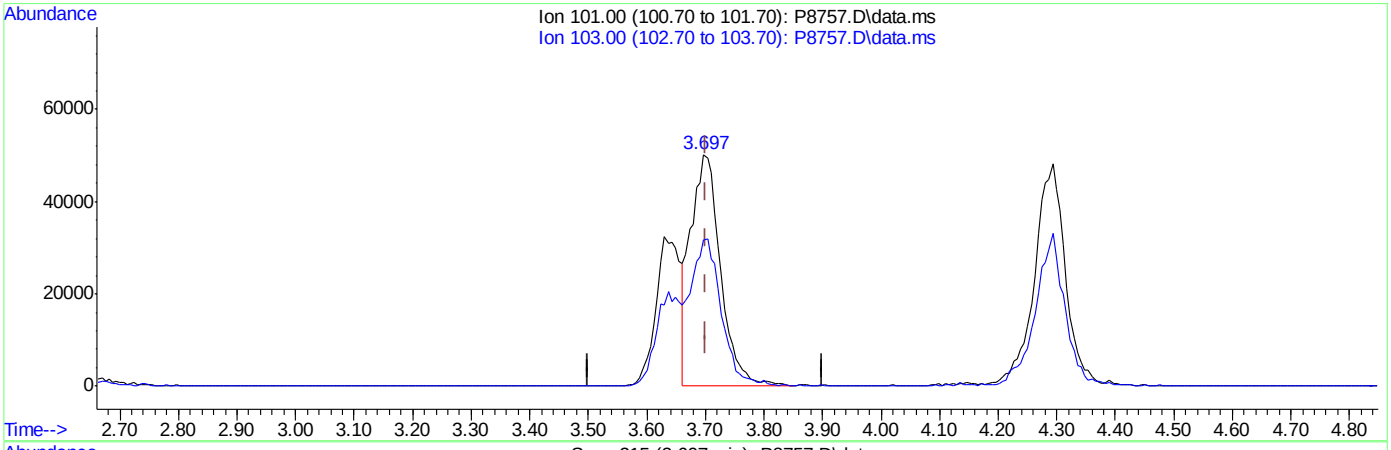
Sample Number:	VP354-ICV354	**Method:**	SW846 8260B
Lab FileID:	P8757.D	**Analyst approved:**	07/17/12 09:45 Eileen Grekoski
Injection Time:	07/16/12 13:16	**Supervisor approved:**	07/17/12 10:49 Karen Watson

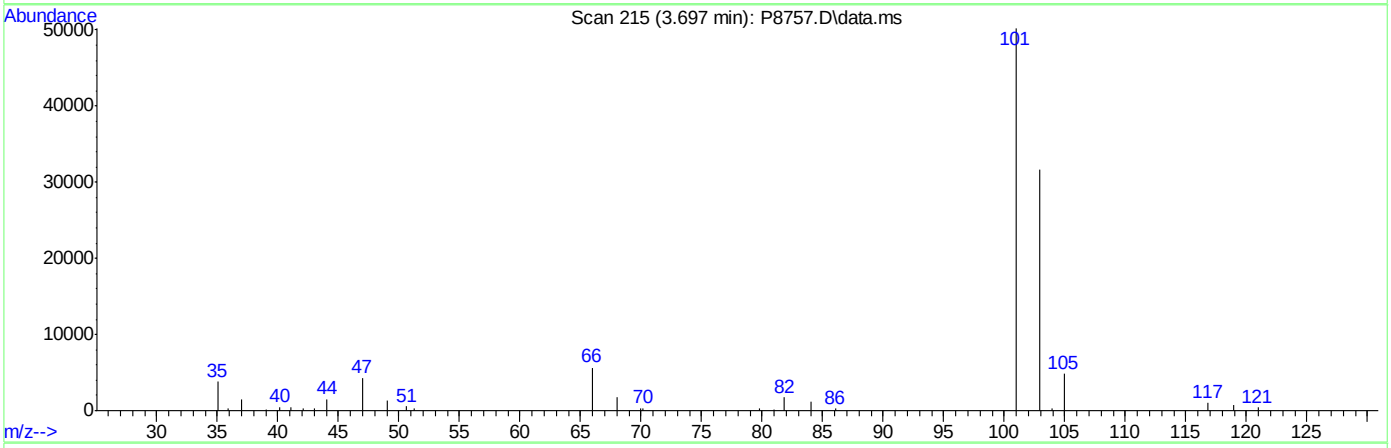
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.697min (-0.004) 25.55ug/L

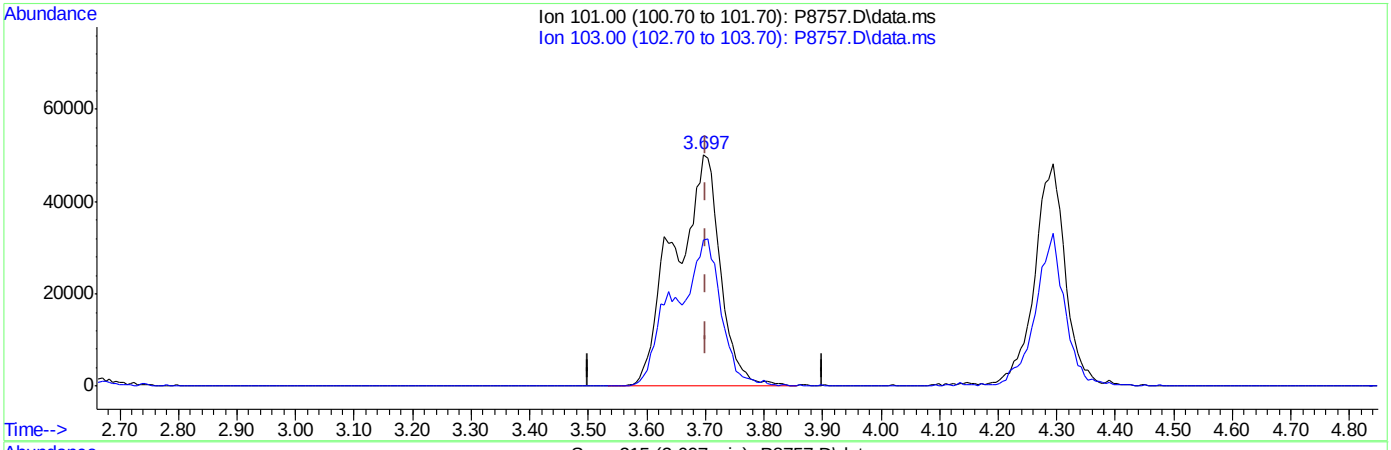
response 177419

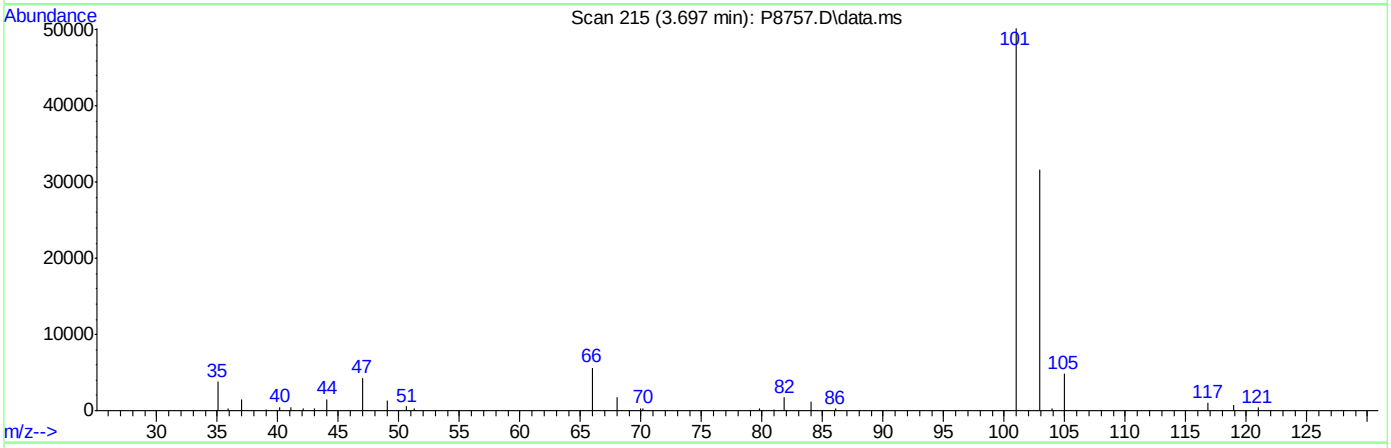
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	63.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\071612\
Data File : P8757.D
Acq On : 16 Jul 2012 1:16 pm
Operator : EileenG
Sample : icv354-4
Misc : MS21485,VP354,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 14:11:12 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.697min (-0.004) 39.04ug/L m

response 272453

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	63.14
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/30/12 15:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.514	96	608041	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	527185	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	318638	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.099	65	108788	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	181665	54.36	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 108.72%			
38) 1,2-Dichloroethane-d4	7.246	65	253358	62.57	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 125.14%			
48) Toluene-d8	9.064	98	621424	48.84	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 97.68%			
69) 4-Bromofluorobenzene	11.825	95	274274	47.22	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 94.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.618	85	184852	47.46	ug/L	97
3) Chloromethane	2.861	50	222458	42.13	ug/L	98
4) Vinyl Chloride	2.983	62	180135	45.73	ug/L	96
5) Bromomethane	3.378	94	110865	47.51	ug/L	99
6) Chloroethane	3.488	64	104239	46.01	ug/L	94
7) Trichlorofluoromethane	3.695	101	245653m	47.30	ug/L	
8) Ethyl Ether	3.962	59	132560	41.25	ug/L	96
9) 1,2-Dichlorotrifluoroe...	4.199	67	161345	40.78	ug/L	92
10) 1,1-Dichloroethene	4.248	61	221051	45.91	ug/L	96
11) Freon 113	4.285	101	150071	42.78	ug/L	95
12) Carbon Disulfide	4.327	76	383321	36.08	ug/L	96
13) Iodomethane	4.424	142	238372	39.37	ug/L	92
14) Methylene Chloride	4.862	49	223027	39.95	ug/L	95
15) Acetone	4.887	58	121521	320.85	ug/L	89
16) Methyl acetate	5.002	74	107646	213.95	ug/L	99
17) trans-1,2-Dichloroethene	5.014	61	209182	41.72	ug/L	97
18) Hexane	5.075	56	145327	40.63	ug/L	95
19) Methyl Tert Butyl Ether	5.124	73	466095	44.09	ug/L	96
20) Di-isopropyl ether	5.495	45	511808	37.57	ug/L	98
21) 1,1-Dichloroethane	5.671	63	244840	41.36	ug/L	95
22) Acrylonitrile	5.720	53	320251	264.75	ug/L	98
23) ETBE	5.884	59	527294	41.99	ug/L	98
24) Vinyl acetate	5.890	43	1502528	278.96	ug/L	97
25) cis-1,2-Dichloroethene	6.237	96	137732	39.89	ug/L	98
26) 2,2-Dichloropropane	6.364	77	233197	46.30	ug/L	96
27) Bromochloromethane	6.449	128	78854	40.50	ug/L	91
28) Cyclohexane	6.468	56	264837	38.39	ug/L	94
29) Chloroform	6.498	83	260981	44.78	ug/L	98
30) Tetrahydrofuran	6.674	42	49597	43.91	ug/L	97
32) Carbon Tetrachloride	6.674	117	244566	48.46	ug/L	98
33) 1,1,1-Trichloroethane	6.747	97	253824	47.88	ug/L	98
34) 2-Butanone	6.802	43	460413	266.69	ug/L	96
35) 1,1-Dichloropropene	6.857	75	182155	42.71	ug/L	95
36) Benzene	7.112	78	478844	37.91	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.197	73	434813	41.97 ug/L	96
39) 1,2-Dichloroethane	7.313	62	234746	48.25 ug/L	95
40) Trichloroethene	7.684	95	135803	41.03 ug/L	94
41) Methylcyclohexane	7.696	83	236113	39.54 ug/L	97
42) Dibromomethane	8.116	93	88733	43.09 ug/L	99
43) 1,2-Dichloropropane	8.213	63	128452	37.15 ug/L	91
44) Bromodichloromethane	8.256	83	202804	44.05 ug/L	95
45) 2-Chloroethyl vinyl ether	8.791	63	350791	212.49 ug/L	97
46) cis-1,3-Dichloropropene	8.876	75	220484	40.13 ug/L	94
49) Toluene	9.119	91	534106	36.27 ug/L	98
50) 2-Nitropropane	9.344	41	252916	256.14 ug/L	99
51) 4-Methyl-2-pentanone	9.460	43	839112	223.67 ug/L	98
52) trans-1,3-Dichloropropene	9.514	75	213058	41.05 ug/L	97
53) Tetrachloroethene	9.508	166	154426	40.64 ug/L	98
54) 1,1,2-Trichloroethane	9.679	83	95461	35.94 ug/L	89
55) Dibromochloromethane	9.867	129	166952	41.01 ug/L	98
56) 1,3-Dichloropropane	9.958	76	210305	37.69 ug/L	86
57) 1,2-Dibromoethane	10.123	107	139036	39.83 ug/L	100
58) 2-hexanone	10.281	43	663662	247.80 ug/L	97
59) 1-Chlorohexane	10.573	91	202396	37.48 ug/L	93
60) Ethylbenzene	10.633	91	674171	38.98 ug/L	97
61) Chlorobenzene	10.633	112	391422	38.50 ug/L	94
62) 1,1,1,2-Tetrachloroethane	10.682	131	164693	41.16 ug/L	98
63) m,p-Xylene	10.773	91	1058324	81.39 ug/L	96
64) o-Xylene	11.211	91	544727	39.57 ug/L	96
65) Styrene	11.266	104	438097	38.87 ug/L	97
66) Bromoform	11.315	173	126436	46.89 ug/L	96
67) Isopropylbenzene	11.521	105	619803	40.49 ug/L	99
70) n-Propylbenzene	11.941	91	798910	36.95 ug/L	100
71) Bromobenzene	11.953	156	191819	36.71 ug/L	98
72) 1,1,2,2-Tetrachloroethane	12.002	83	171758	36.28 ug/L	100
73) 1,3,5-Trimethylbenzene	12.129	105	658769	38.45 ug/L	99
74) 2-Chlorotoluene	12.123	91	563333	37.43 ug/L	98
75) trans-1,4-Dichloro-2-B...	12.190	53	53875	58.87 ug/L	95
76) 1,2,3-Trichloropropane	12.166	110	64032	42.62 ug/L	96
77) Cyclohexanone	12.227	55	35481	257.89 ug/L	93
78) 4-Chlorotoluene	12.288	91	512098	37.07 ug/L	100
79) tert-Butylbenzene	12.464	91	372058	41.03 ug/L	96
80) 1,2,4-Trimethylbenzene	12.537	105	674766	39.26 ug/L	97
81) sec-Butylbenzene	12.646	105	816773	38.90 ug/L	98
82) 4-Isopropyltoluene	12.786	119	674238	39.79 ug/L	97
83) 1,3-Dichlorobenzene	12.902	146	372536	37.48 ug/L	98
84) 1,4-Dichlorobenzene	12.993	146	389482	37.58 ug/L	99
85) n-Butylbenzene	13.224	92	382989	39.20 ug/L	95
86) Benzyl Chloride	13.236	126	98089	42.74 ug/L #	80
87) 1,2-Dichlorobenzene	13.425	146	365500	38.28 ug/L	98
88) 1,2-Dibromo-3-Chloropr...	14.179	75	41969	45.90 ug/L	96
89) Hexachlorobutadiene	14.732	225	139689	44.44 ug/L	97
90) 1,2,4-Trichlorobenzene	14.775	180	269521	40.39 ug/L	97
91) Naphthalene	15.061	128	639343	43.87 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	255398	43.76 ug/L	96
94) acrolein	4.589	56	104038	533.20 ug/L	88
95) Tert Butyl Alcohol	5.185	59	206527	370.75 ug/L	74
96) tert Amyl alcohol	7.349	59	160089	366.33 ug/L	97
97) 1,4-Dioxane	8.444	88	29377	574.97 ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

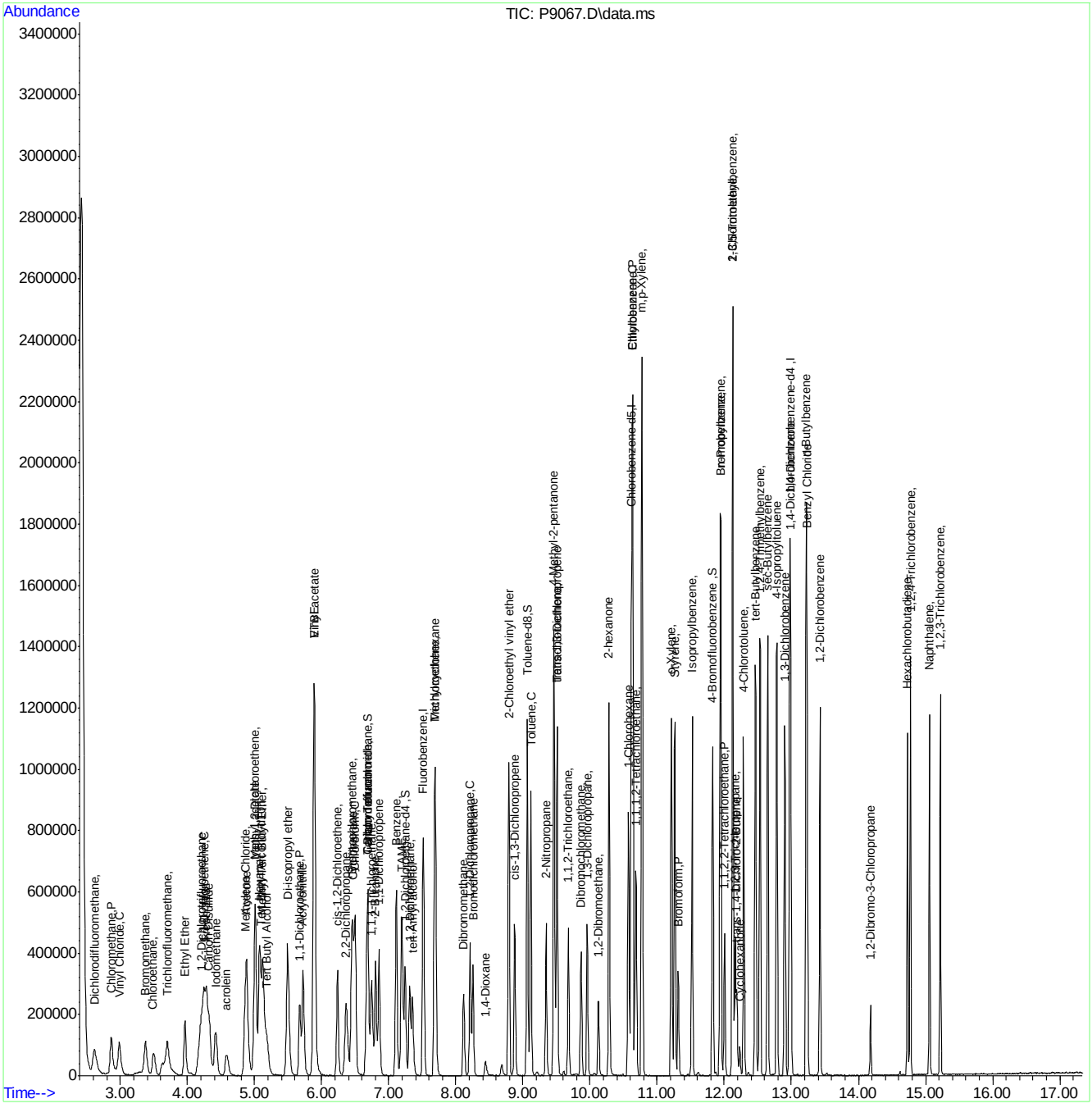
7.8.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



Manual Integration Approval Summary

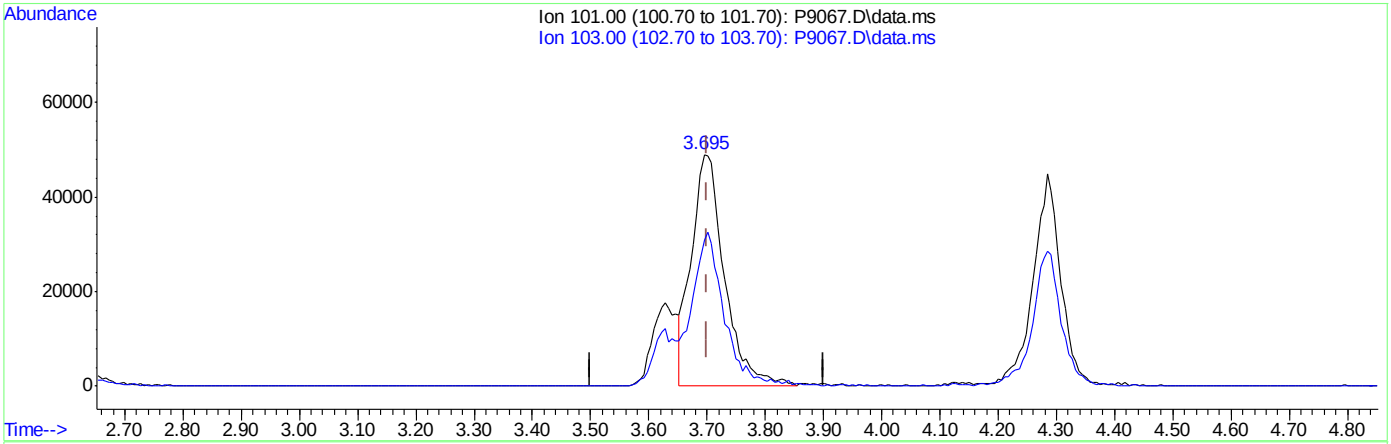
Sample Number:	VP366-CC354	**Method:**	SW846 8260B
Lab FileID:	P9067.D	**Analyst approved:**	07/30/12 14:21 Eileen Grekoski
Injection Time:	07/28/12 10:20	**Supervisor approved:**	07/30/12 15:15 Juan Garcia

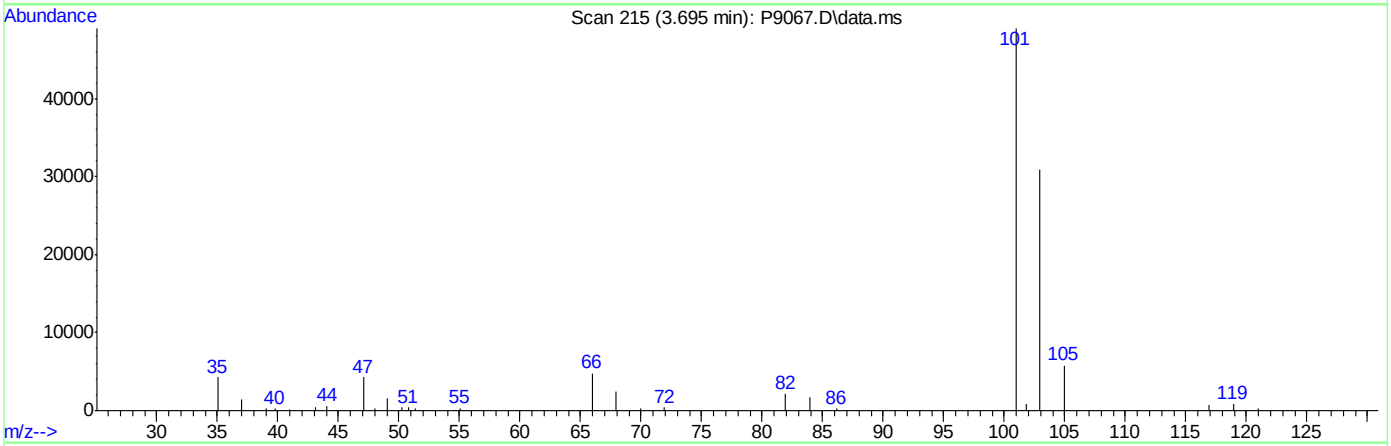
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.69	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.695min (-0.006) 37.31ug/L

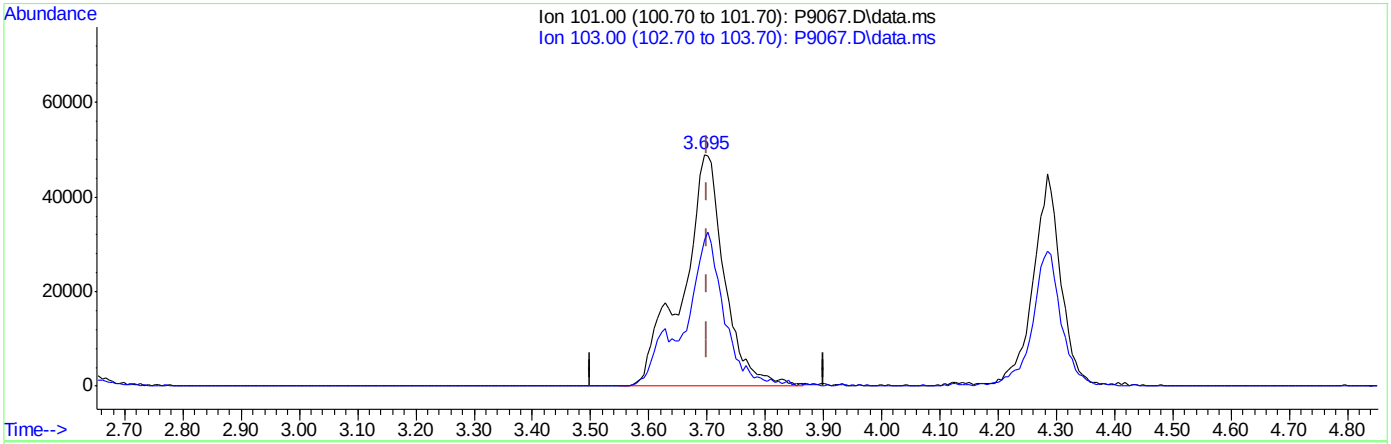
response 193118

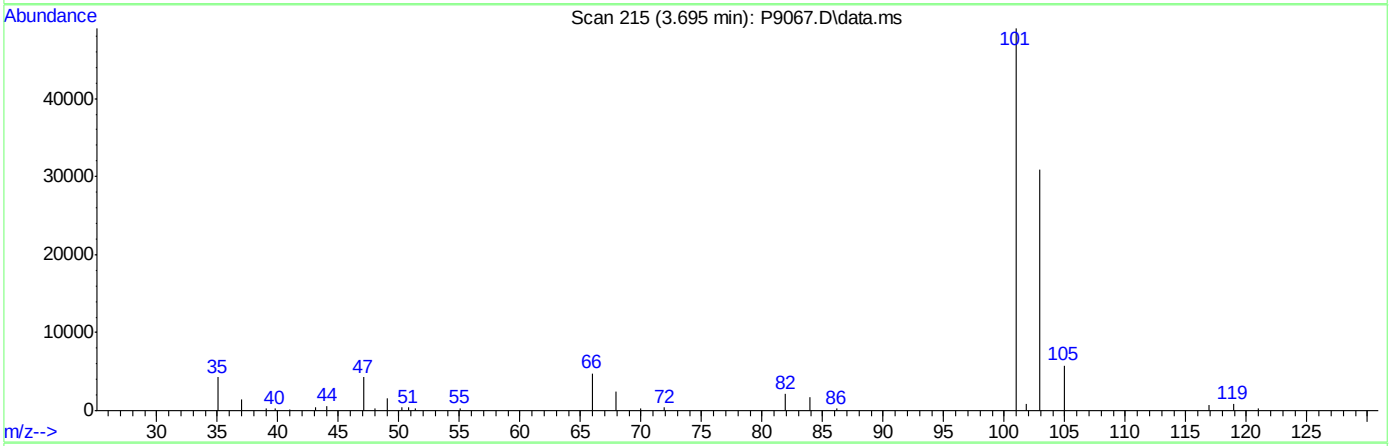
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	61.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : P9067.D
Acq On : 28 Jul 2012 10:20 am
Operator : EileenG
Sample : CC354-4
Misc : MS21485,VP366,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 28 10:39:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





(7) Trichlorofluoromethane ( )

3.695min (-0.006) 47.30ug/L m

response 245653

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	63.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:21:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.516	96	416053	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.612	117	296398	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.977	152	154008	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.102	65	57976	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.689	113	100207	43.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 87.64%			
38) 1,2-Dichloroethane-d4	7.243	65	135576	48.93	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 97.86%			
48) Toluene-d8	9.067	98	392244	54.83	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 109.66%			
69) 4-Bromofluorobenzene	11.828	95	145224	51.73	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 103.46%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.602	85	1182	0.44	ug/L #	42
3) Chloromethane	2.858	50	3007	0.83	ug/L	94
4) Vinyl Chloride	2.980	62	2134m	0.79	ug/L	
5) Bromomethane	3.344	94	1482	0.93	ug/L #	53
6) Chloroethane	3.478	64	1524	0.98	ug/L #	66
7) Trichlorofluoromethane	3.697	101	2152m	0.62	ug/L	
8) Ethyl Ether	3.959	59	1940	0.88	ug/L	92
9) 1,2-Dichlorotrifluoroe...	4.184	67	2328	0.86	ug/L	87
10) 1,1-Dichloroethene	4.220	61	2724	0.83	ug/L #	58
11) Freon 113	4.281	101	1617	0.67	ug/L #	59
12) Carbon Disulfide	4.287	76	6418	0.88	ug/L	77
13) Iodomethane	4.403	142	2638	0.64	ug/L	74
14) Methylene Chloride	4.846	49	50018	12.84	ug/L	93
15) Acetone	4.883	58	2200	8.49	ug/L #	67
16) Methyl acetate	4.992	74	1741	5.06	ug/L #	76
17) trans-1,2-Dichloroethene	5.017	61	2327	0.68	ug/L	77
18) Hexane	5.084	56	1607	0.66	ug/L #	36
19) Methyl Tert Butyl Ether	5.126	73	6240	0.86	ug/L	95
20) Di-isopropyl ether	5.497	45	8483	0.91	ug/L	80
21) 1,1-Dichloroethane	5.667	63	3356	0.83	ug/L	94
22) Acrylonitrile	5.722	53	4727	5.71	ug/L	98
23) ETBE	5.880	59	7412	0.86	ug/L	83
24) Vinyl acetate	5.892	43	22039	5.98	ug/L	97
25) cis-1,2-Dichloroethene	6.233	96	1574	0.67	ug/L #	68
26) 2,2-Dichloropropane	6.379	77	2188	0.63	ug/L	57
27) Bromochloromethane	6.446	128	930	0.70	ug/L #	81
28) Cyclohexane	6.470	56	3109	0.66	ug/L #	81
29) Chloroform	6.507	83	2887	0.72	ug/L	80
30) Tetrahydrofuran	6.677	42	978	1.28	ug/L #	59
32) Carbon Tetrachloride	6.677	117	1945	0.56	ug/L #	74
33) 1,1,1-Trichloroethane	6.750	97	2171	0.60	ug/L	87
34) 2-Butanone	6.805	43	8029	6.82	ug/L	96
35) 1,1-Dichloropropene	6.859	75	2337	0.80	ug/L #	73
36) Benzene	7.115	78	7240	0.84	ug/L	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:21:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.194	73	5995	0.85 ug/L	88
39) 1,2-Dichloroethane	7.309	62	2592	0.78 ug/L	86
40) Trichloroethene	7.680	95	1625	0.72 ug/L	88
41) Methylcyclohexane	7.693	83	2868	0.70 ug/L	96
42) Dibromomethane	8.112	93	1172	0.83 ug/L	83
43) 1,2-Dichloropropane	8.216	63	1999	0.84 ug/L	93
44) Bromodichloromethane	8.252	83	2272	0.72 ug/L #	95
45) 2-Chloroethyl vinyl ether	8.781	63	4843	4.29 ug/L	85
46) cis-1,3-Dichloropropene	8.872	75	2948	0.78 ug/L	95
49) Toluene	9.116	91	7485	0.90 ug/L	99
50) 2-Nitropropane	9.347	41	3440	6.20 ug/L #	82
51) 4-Methyl-2-pentanone	9.462	43	13278	6.30 ug/L	95
52) trans-1,3-Dichloropropene	9.511	75	2656	0.91 ug/L	77
53) Tetrachloroethene	9.505	166	1610	0.75 ug/L #	72
54) 1,1,2-Trichloroethane	9.675	83	1545	1.03 ug/L	94
55) Dibromochloromethane	9.864	129	2089	0.91 ug/L	96
56) 1,3-Dichloropropane	9.955	76	3580	1.14 ug/L	92
57) 1,2-Dibromoethane	10.125	107	1821	0.93 ug/L	88
58) 2-hexanone	10.277	43	9843	6.54 ug/L	90
59) 1-Chlorohexane	10.575	91	2114	0.70 ug/L #	75
60) Ethylbenzene	10.630	91	9761	1.00 ug/L	84
61) Chlorobenzene	10.630	112	5567	0.97 ug/L	89
62) 1,1,1,2-Tetrachloroethane	10.691	131	1830	0.81 ug/L	87
63) m,p-Xylene	10.776	91	12643	1.73 ug/L	86
64) o-Xylene	11.214	91	6143	0.79 ug/L	86
65) Styrene	11.262	104	4793	0.76 ug/L	90
66) Bromoform	11.317	173	1546	1.02 ug/L	93
67) Isopropylbenzene	11.524	105	7291	0.85 ug/L	99
70) n-Propylbenzene	11.937	91	10820	1.04 ug/L	96
71) Bromobenzene	11.949	156	2437	0.96 ug/L	93
72) 1,1,2,2-Tetrachloroethane	12.004	83	3386	1.48 ug/L	94
73) 1,3,5-Trimethylbenzene	12.126	105	7468	0.90 ug/L	92
74) 2-Chlorotoluene	12.126	91	6642	0.91 ug/L	92
75) trans-1,4-Dichloro-2-B...	12.193	53	476	1.61 ug/L #	56
76) 1,2,3-Trichloropropane	12.168	110	809	1.11 ug/L #	47
77) Cyclohexanone	12.229	55	473	7.11 ug/L #	48
78) 4-Chlorotoluene	12.290	91	6798	1.02 ug/L	69
79) tert-Butylbenzene	12.460	91	3387	0.77 ug/L	82
80) 1,2,4-Trimethylbenzene	12.533	105	7326	0.88 ug/L	86
81) sec-Butylbenzene	12.649	105	9238	0.91 ug/L	97
82) 4-Isopropyltoluene	12.783	119	7414	0.91 ug/L	90
83) 1,3-Dichlorobenzene	12.904	146	4890	1.02 ug/L	91
84) 1,4-Dichlorobenzene	12.989	146	5807m	1.16 ug/L	
85) n-Butylbenzene	13.220	92	4340	0.92 ug/L	83
86) Benzyl Chloride	13.233	126	852	0.77 ug/L #	53
87) 1,2-Dichlorobenzene	13.427	146	5035	1.09 ug/L	93
88) 1,2-Dibromo-3-Chloropr...	14.181	75	592	1.34 ug/L #	73
89) Hexachlorobutadiene	14.729	225	1825	1.20 ug/L	89
90) 1,2,4-Trichlorobenzene	14.777	180	3582	1.11 ug/L	90
91) Naphthalene	15.057	128	8096	1.15 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:21:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.221	180	3173	1.12 ug/L	93
94) acrolein	4.573	56	1332	11.74 ug/L	82
95) Tert Butyl Alcohol	5.175	59	2475m	8.34 ug/L	
96) tert Amyl alcohol	7.358	59	2171	9.32 ug/L #	84
97) 1,4-Dioxane	8.447	88	379	13.90 ug/L	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

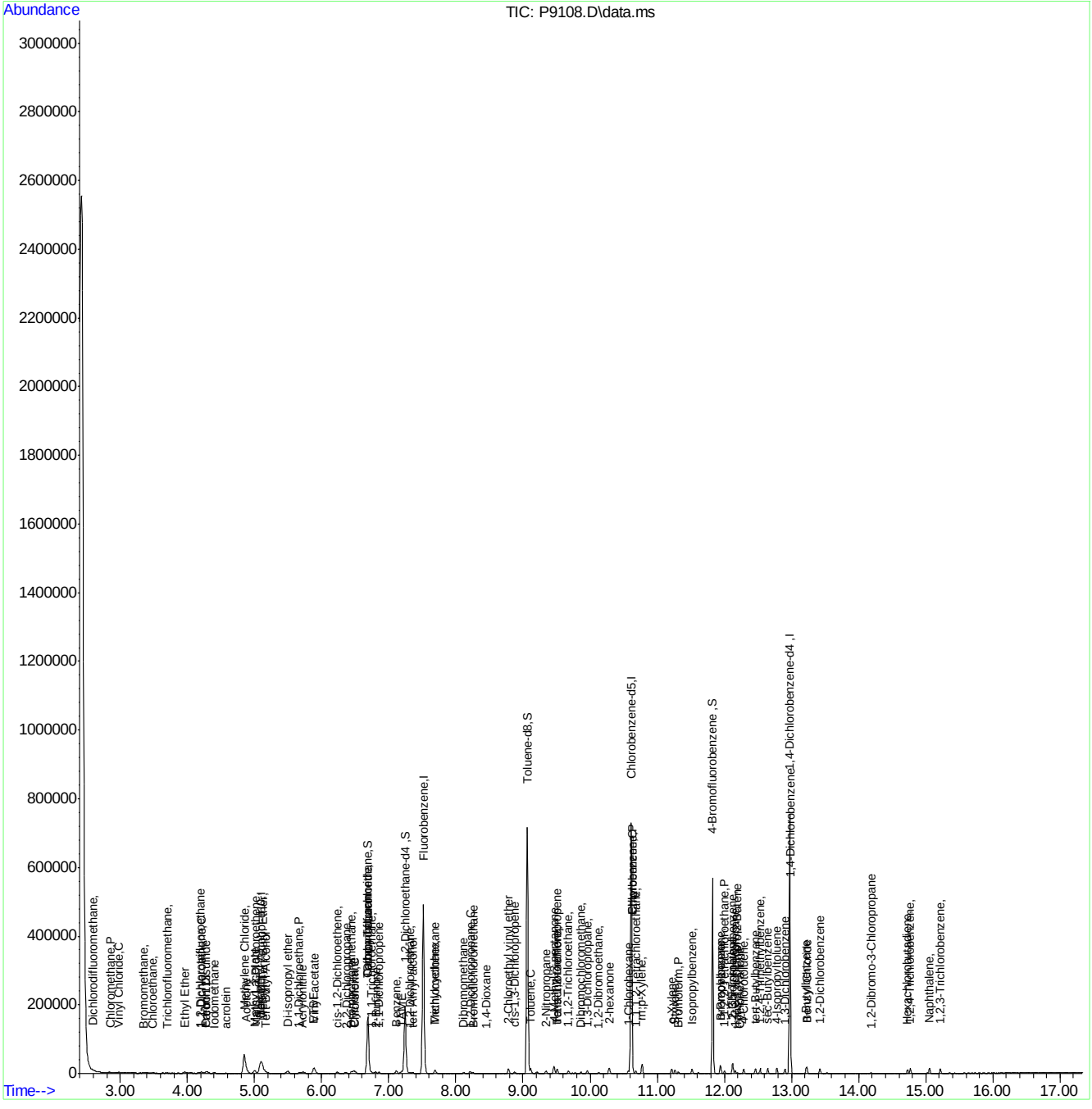
7.8.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:21:48 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



8260P.m Tue Jul 31 09:34:51 2012 Page: 4

Manual Integration Approval Summary

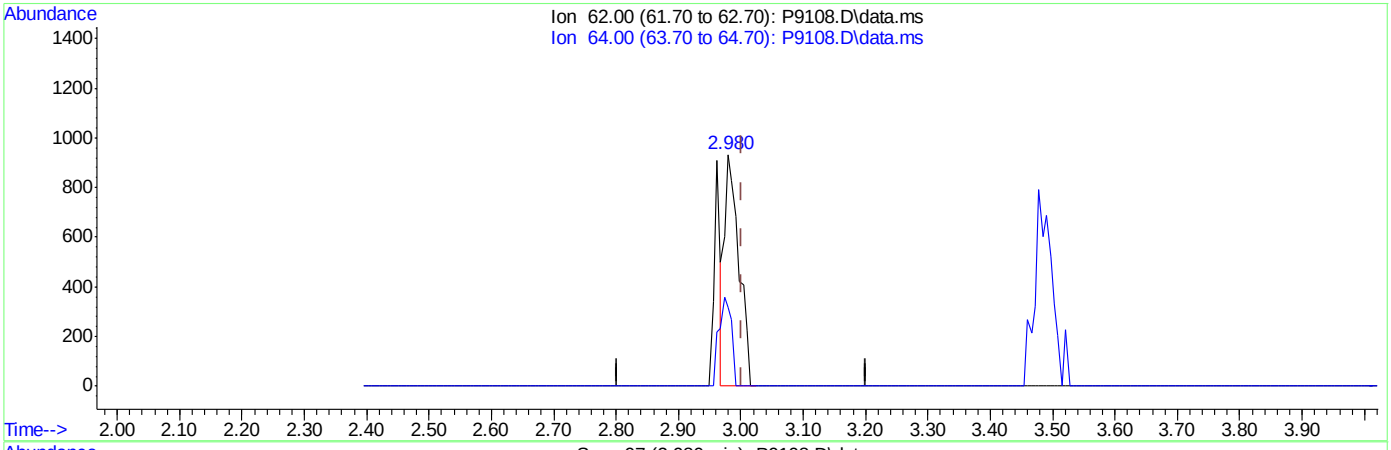
Sample Number:	VP369-IC369	**Method:**	SW846 8260B
Lab FileID:	P9108.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 13:35	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

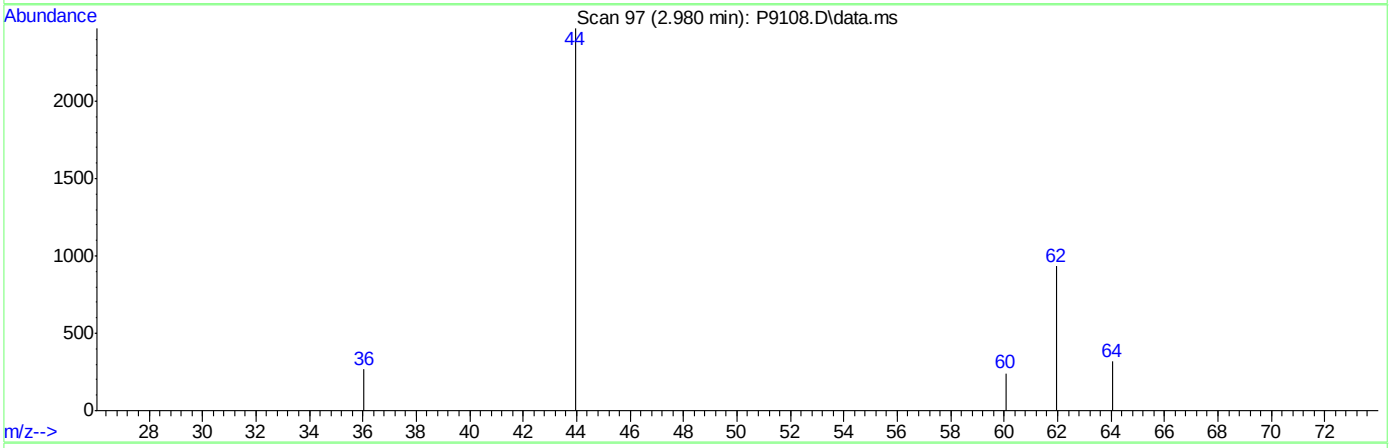
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl chloride	75-01-4		2.98	Split peak
Trichlorofluoromethane	75-69-4		3.70	Split peak
Tert-Butyl Alcohol	75-65-0		5.17	Split peak
p-Dichlorobenzene	106-46-7		12.99	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(4) Vinyl Chloride (C)

2.980min (-0.022) 0.56ug/L

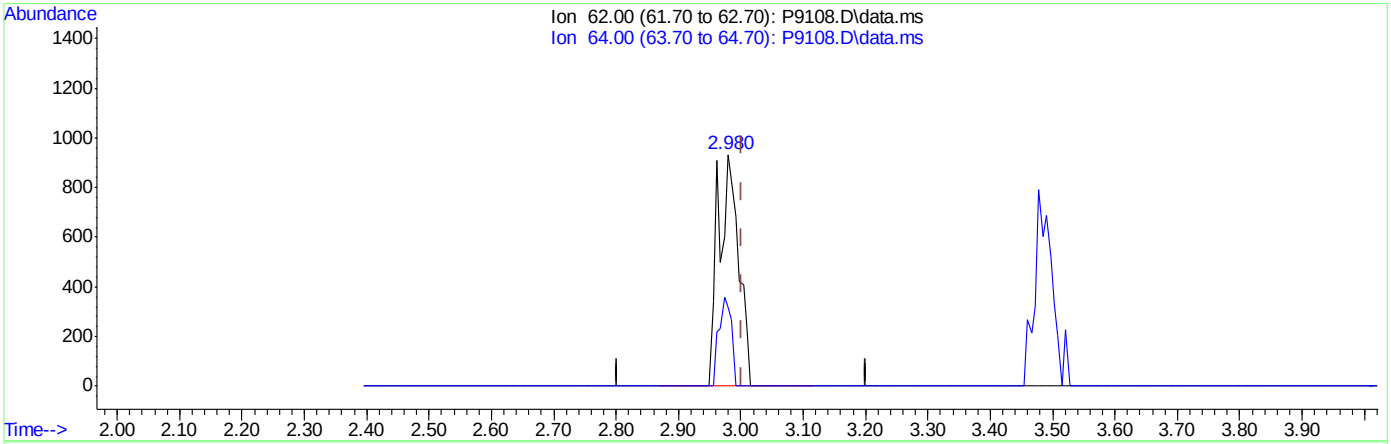
response 1496

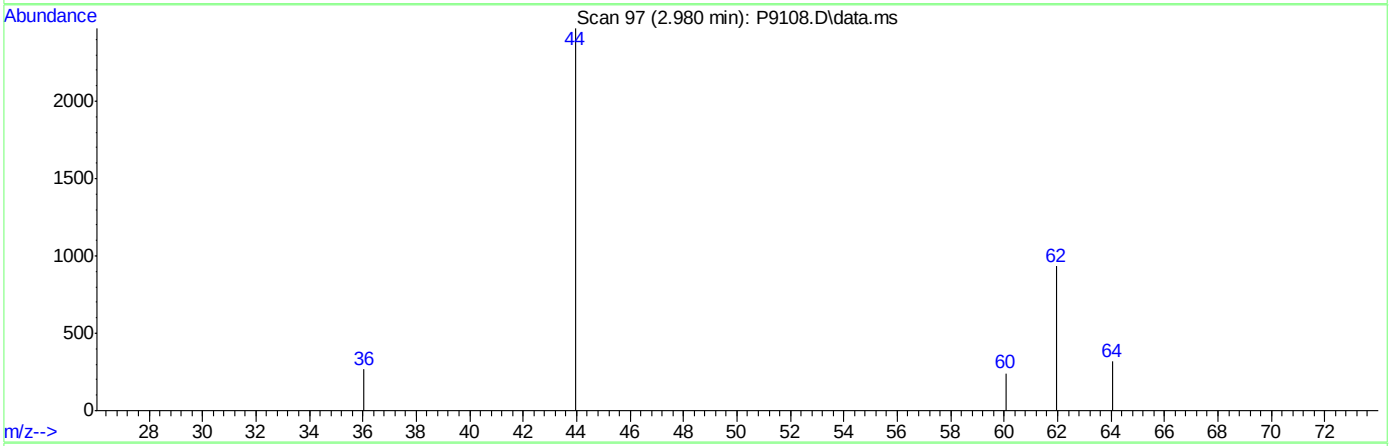
Ion	Exp%	Act%
62.00	100	100
64.00	30.70	33.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(4) Vinyl Chloride (C)

2.980min (-0.022) 0.79ug/L m

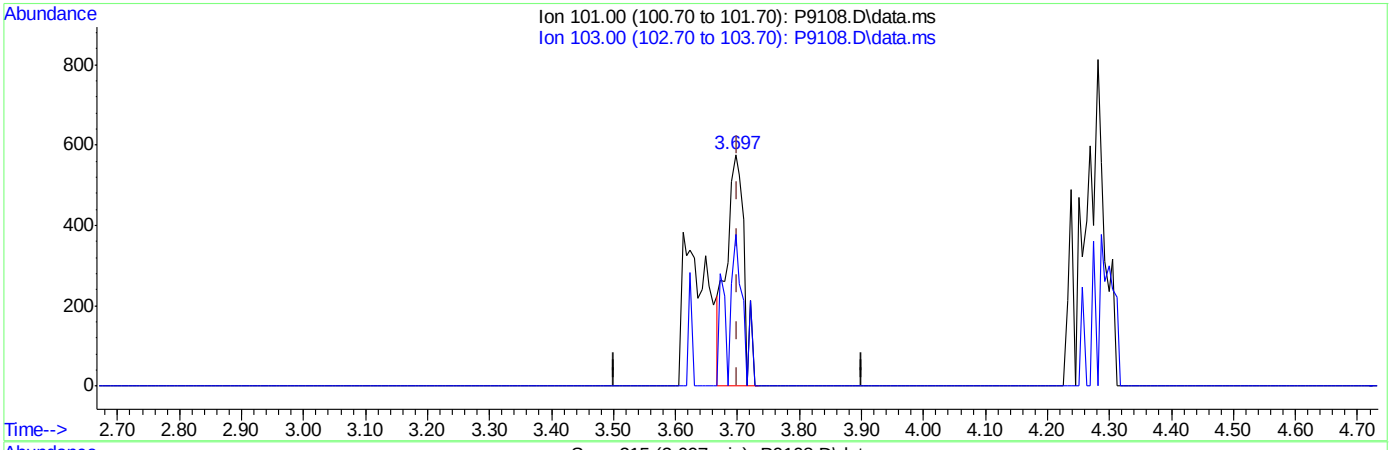
response 2134

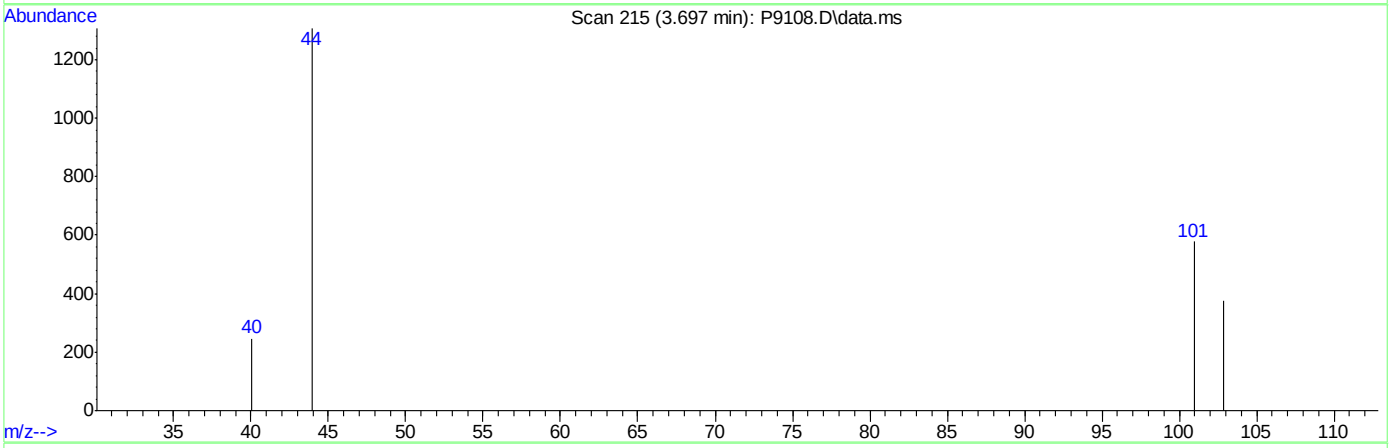
Ion	Exp%	Act%
62.00	100	100
64.00	30.70	33.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(7) Trichlorofluoromethane ( )

3.697min (-0.004) 0.32ug/L

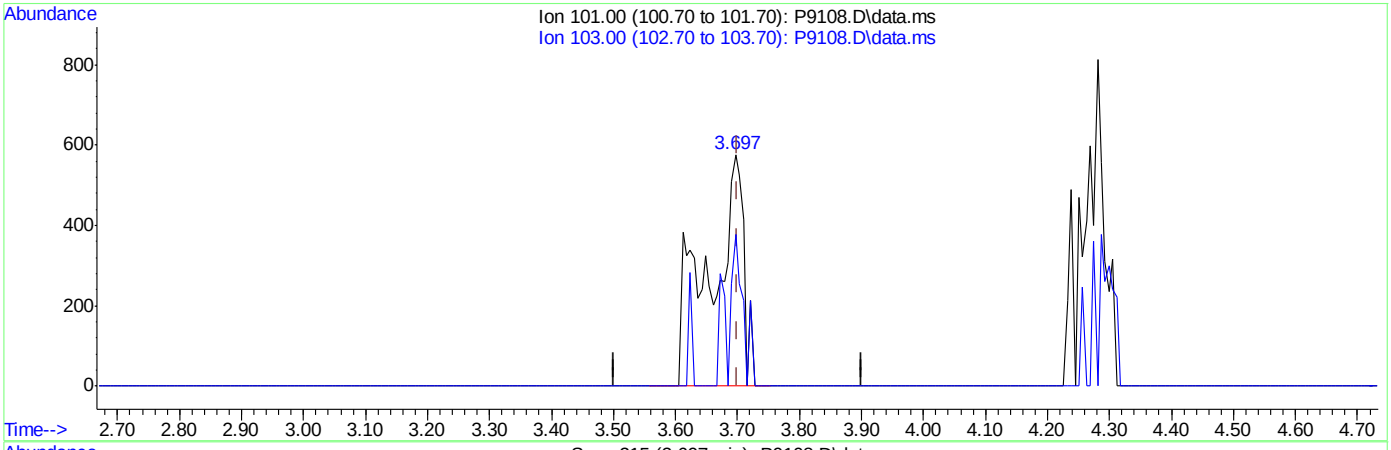
response 1120

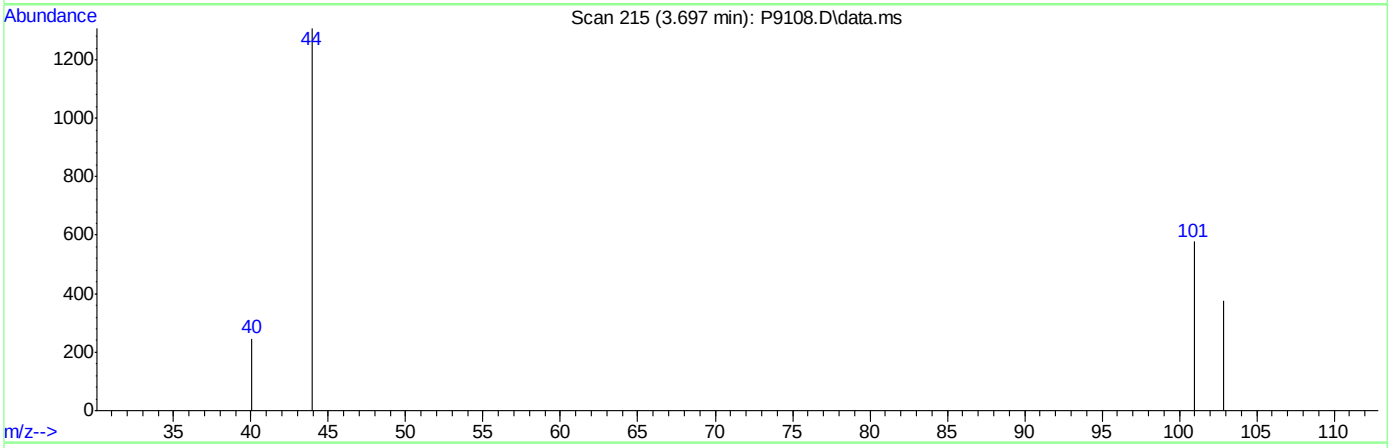
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	65.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(7) Trichlorofluoromethane ( )

3.697min (-0.004) 0.62ug/L m

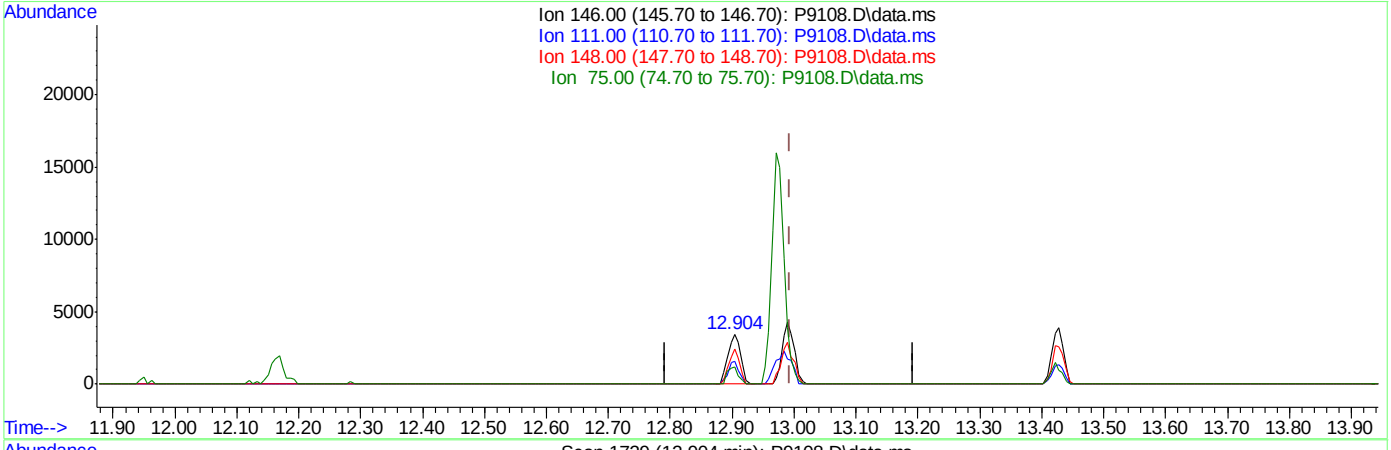
response 2152

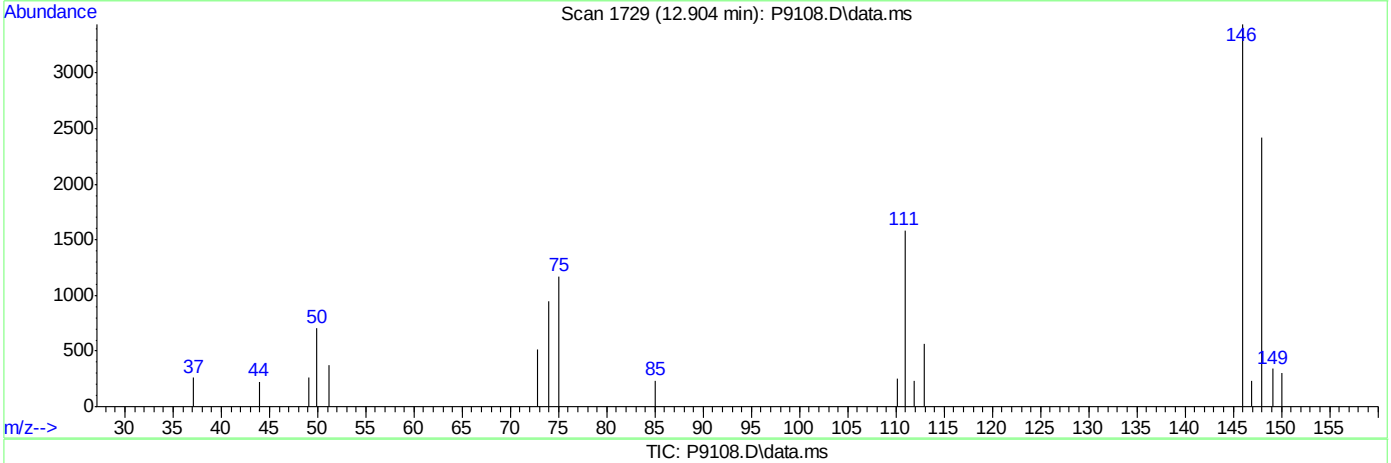
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	65.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(84) 1,4-Dichlorobenzene

12.904min (-0.089) 0.98ug/L

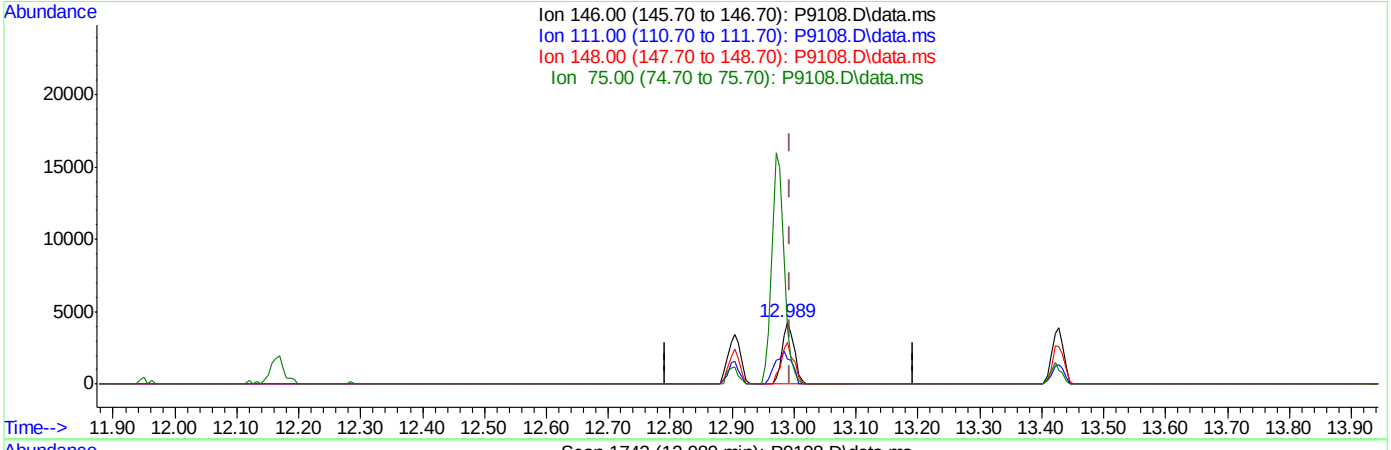
response 4890

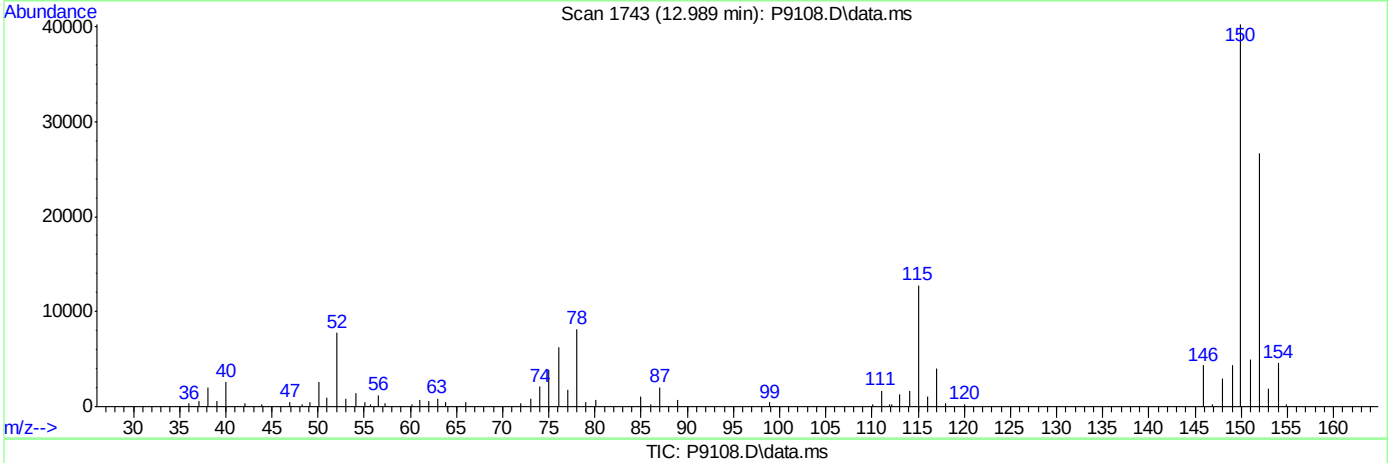
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	46.12
148.00	63.20	70.29
75.00	29.60	34.13

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(84) 1,4-Dichlorobenzene

12.989min (-0.004) 1.16ug/L m

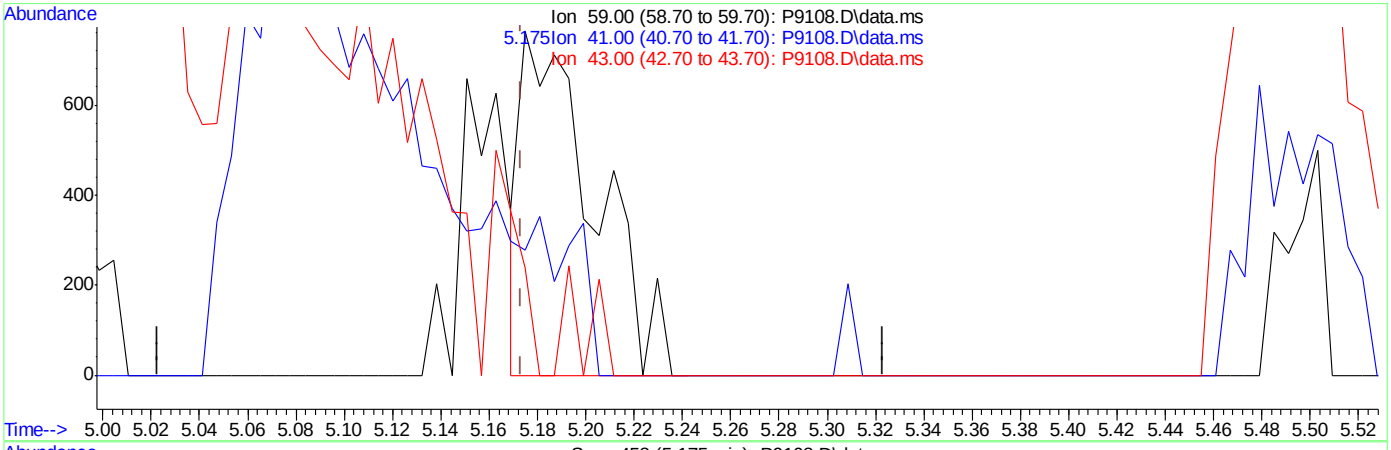
response 5807

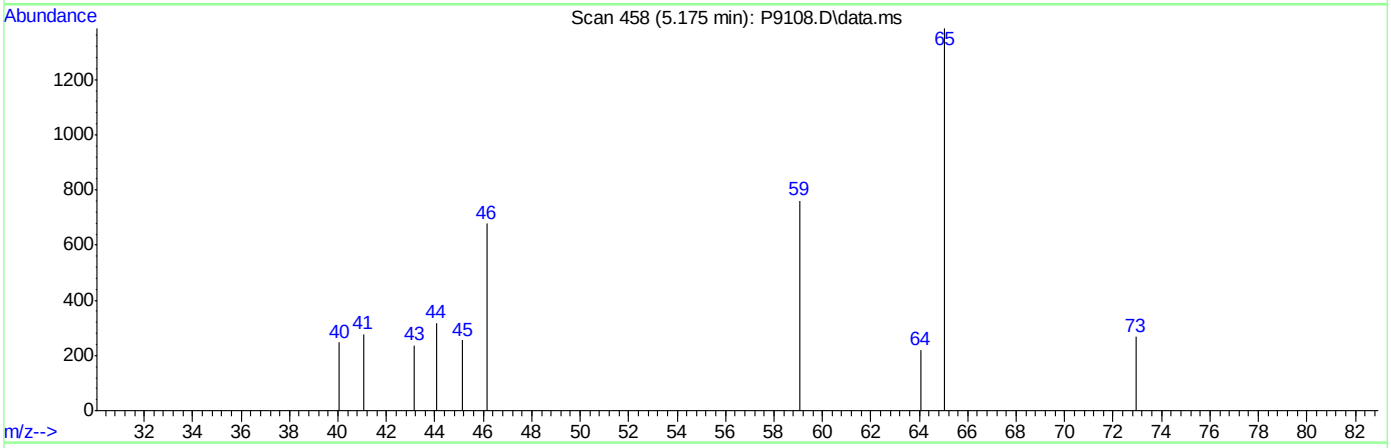
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	39.17
148.00	63.20	67.47
75.00	29.60	90.98#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(95) Tert Butyl Alcohol

5.175min (+0.002) 5.46ug/L

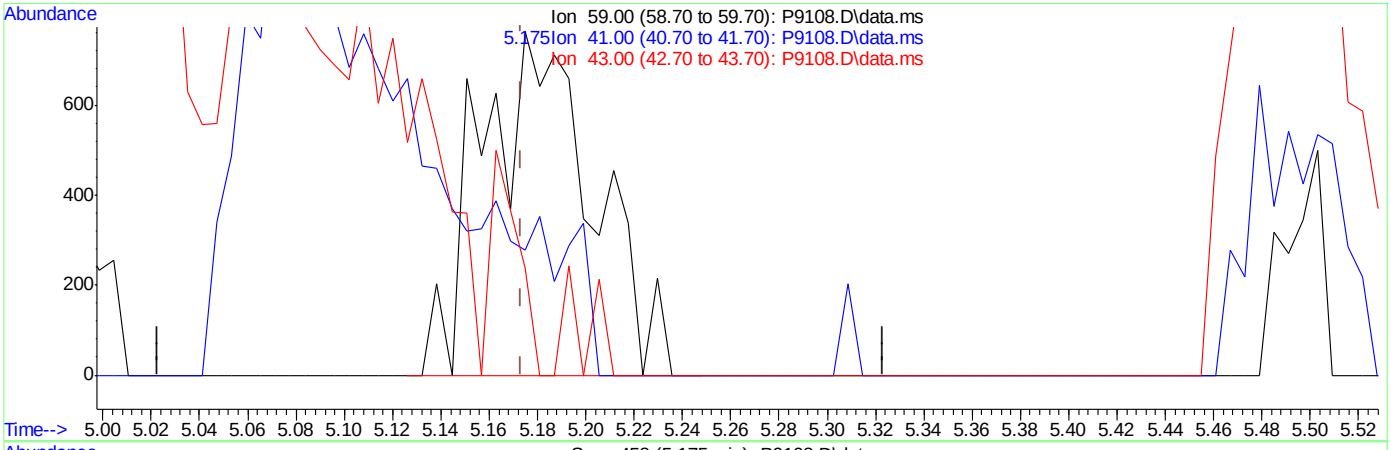
response 1620

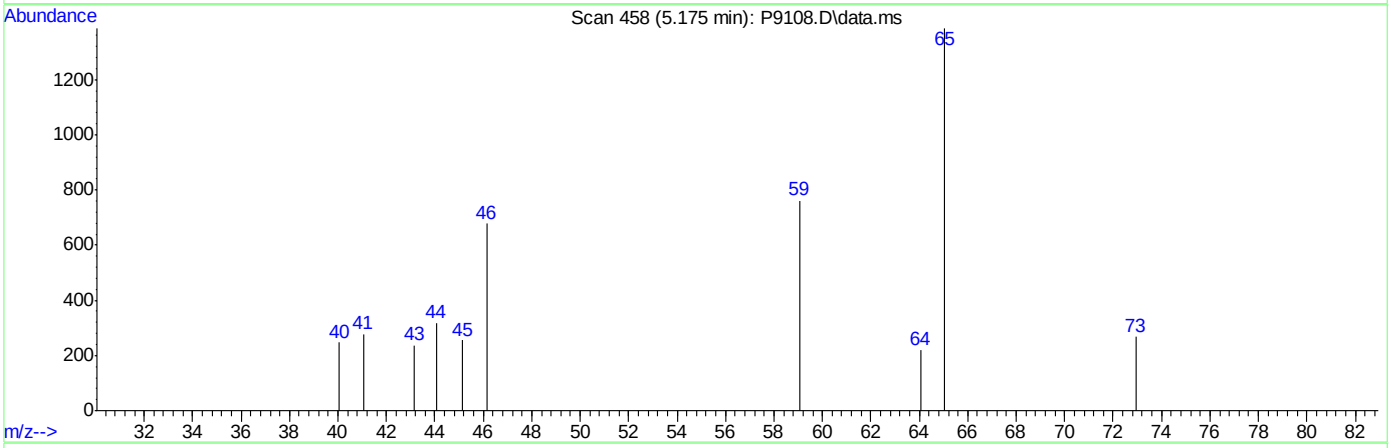
Ion	Exp%	Act%
59.00	100	100
41.00	39.60	36.48
43.00	28.70	31.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9108.D
Acq On : 30 Jul 2012 1:35 pm
Operator : EileenG
Sample : ic369-1
Misc : MS21485,VP369,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:19:05 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9108.D\data.ms

(95) Tert Butyl Alcohol

5.175min (+0.002) 8.34ug/L m

response 2475

Ion	Exp%	Act%
59.00	100	100
41.00	39.60	36.48
43.00	28.70	31.10
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:22:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	409076	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	295614	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	152551	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.099	65	54278	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	138329	61.53	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 123.06%#			
38) 1,2-Dichloroethane-d4	7.246	65	181831	66.75	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 133.50%#			
48) Toluene-d8	9.064	98	546828	76.64	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 153.28%#			
69) 4-Bromofluorobenzene	11.825	95	202133	72.69	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 145.38%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.618	85	8434	3.17	ug/L	100
3) Chloromethane	2.861	50	16509	4.65	ug/L	99
4) Vinyl Chloride	2.995	62	12300	4.64	ug/L	94
5) Bromomethane	3.360	94	7994	5.09	ug/L	88
6) Chloroethane	3.494	64	7603	4.99	ug/L	96
7) Trichlorofluoromethane	3.707	101	12601m	3.66	ug/L	
8) Ethyl Ether	3.962	59	11885	5.50	ug/L	90
9) 1,2-Dichlorotrifluoroe...	4.193	67	12652	4.75	ug/L	86
10) 1,1-Dichloroethene	4.230	61	14365	4.43	ug/L	90
11) Freon 113	4.278	101	9327	3.95	ug/L #	82
12) Carbon Disulfide	4.291	76	32448	4.54	ug/L	82
13) Iodomethane	4.406	142	15893	3.90	ug/L	94
14) Methylene Chloride	4.850	49	72678	19.06	ug/L	92
15) Acetone	4.880	58	8927	35.03	ug/L #	76
16) Methyl acetate	4.996	74	9366	27.67	ug/L #	91
17) trans-1,2-Dichloroethene	5.020	61	15029	4.46	ug/L	94
18) Hexane	5.087	56	11795	4.90	ug/L #	85
19) Methyl Tert Butyl Ether	5.124	73	35054	4.93	ug/L	93
20) Di-isopropyl ether	5.495	45	46455	5.07	ug/L	97
21) 1,1-Dichloroethane	5.671	63	19241	4.83	ug/L	93
22) Acrylonitrile	5.720	53	26700	32.81	ug/L	97
23) ETBE	5.890	59	39476	4.67	ug/L	99
24) Vinyl acetate	5.896	43	132311	36.51	ug/L	99
25) cis-1,2-Dichloroethene	6.237	96	10849	4.67	ug/L	92
26) 2,2-Dichloropropane	6.370	77	13853	4.09	ug/L	90
27) Bromochloromethane	6.449	128	4839	3.69	ug/L #	51
28) Cyclohexane	6.474	56	20573	4.43	ug/L	97
29) Chloroform	6.504	83	18151	4.63	ug/L	95
30) Tetrahydrofuran	6.681	42	5126	6.80	ug/L	94
32) Carbon Tetrachloride	6.681	117	11940	3.52	ug/L	89
33) 1,1,1-Trichloroethane	6.753	97	13904	3.90	ug/L	98
34) 2-Butanone	6.802	43	39149	33.82	ug/L	96
35) 1,1-Dichloropropene	6.863	75	12927	4.51	ug/L	92
36) Benzene	7.118	78	40361	4.75	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:22:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.197	73	31496	4.52	ug/L		98
39) 1,2-Dichloroethane	7.313	62	15280	4.67	ug/L		90
40) Trichloroethene	7.684	95	9742	4.37	ug/L		94
41) Methylcyclohexane	7.696	83	17423	4.34	ug/L		95
42) Dibromomethane	8.122	93	6689	4.83	ug/L		94
43) 1,2-Dichloropropane	8.219	63	11794	5.07	ug/L		95
44) Bromodichloromethane	8.256	83	13805	4.46	ug/L		96
45) 2-Chloroethyl vinyl ether	8.791	63	26850	24.17	ug/L		98
46) cis-1,3-Dichloropropene	8.882	75	16786	4.54	ug/L		98
49) Toluene	9.119	91	42012	5.09	ug/L		99
50) 2-Nitropropane	9.344	41	17198	31.06	ug/L		92
51) 4-Methyl-2-pentanone	9.460	43	76198	36.22	ug/L		93
52) trans-1,3-Dichloropropene	9.514	75	15433	5.30	ug/L		92
53) Tetrachloroethene	9.508	166	9987	4.69	ug/L		96
54) 1,1,2-Trichloroethane	9.679	83	8988	6.03	ug/L		92
55) Dibromochloromethane	9.867	129	11187	4.90	ug/L		97
56) 1,3-Dichloropropane	9.958	76	18010	5.76	ug/L		92
57) 1,2-Dibromoethane	10.129	107	10578	5.40	ug/L		97
58) 2-hexanone	10.281	43	53055	35.33	ug/L		88
59) 1-Chlorohexane	10.573	91	12380	4.09	ug/L	#	72
60) Ethylbenzene	10.633	91	53345	5.50	ug/L		91
61) Chlorobenzene	10.633	112	29170	5.12	ug/L		90
62) 1,1,1,2-Tetrachloroethane	10.682	131	11016	4.91	ug/L		91
63) m,p-Xylene	10.779	91	74446	10.21	ug/L		94
64) o-Xylene	11.217	91	37751	4.89	ug/L		96
65) Styrene	11.266	104	26127	4.13	ug/L		96
66) Bromoform	11.315	173	9121	6.03	ug/L		96
67) Isopropylbenzene	11.521	105	41129	4.79	ug/L		100
70) n-Propylbenzene	11.941	91	63129	6.10	ug/L		95
71) Bromobenzene	11.953	156	13512	5.40	ug/L		95
72) 1,1,2,2-Tetrachloroethane	12.002	83	17342	7.65	ug/L		99
73) 1,3,5-Trimethylbenzene	12.129	105	43381	5.29	ug/L		97
74) 2-Chlorotoluene	12.123	91	42464	5.89	ug/L		97
75) trans-1,4-Dichloro-2-B...	12.184	53	2813	9.03	ug/L		90
76) 1,2,3-Trichloropropane	12.166	110	4720	6.56	ug/L		95
77) Cyclohexanone	12.239	55	2199	33.38	ug/L	#	72
78) 4-Chlorotoluene	12.288	91	38074	5.76	ug/L		92
79) tert-Butylbenzene	12.464	91	23958	5.52	ug/L		88
80) 1,2,4-Trimethylbenzene	12.531	105	45068	5.48	ug/L		97
81) sec-Butylbenzene	12.646	105	55919	5.56	ug/L		98
82) 4-Isopropyltoluene	12.780	119	43338	5.34	ug/L		93
83) 1,3-Dichlorobenzene	12.902	146	28140	5.91	ug/L		95
84) 1,4-Dichlorobenzene	12.993	146	28963	5.84	ug/L		94
85) n-Butylbenzene	13.224	92	27218	5.82	ug/L		98
86) Benzyl Chloride	13.236	126	4793	4.36	ug/L	#	50
87) 1,2-Dichlorobenzene	13.425	146	26356	5.77	ug/L		97
88) 1,2-Dibromo-3-Chloropr...	14.179	75	2996	6.84	ug/L		81
89) Hexachlorobutadiene	14.732	225	8483	5.64	ug/L		98
90) 1,2,4-Trichlorobenzene	14.775	180	20198	6.32	ug/L		96
91) Naphthalene	15.061	128	45294	6.49	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:22:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	18300	6.55 ug/L	93
94) acrolein	4.582	56	8447	80.41 ug/L	91
95) Tert Butyl Alcohol	5.185	59	14421	51.89 ug/L	84
96) tert Amyl alcohol	7.349	59	10400	47.70 ug/L	98
97) 1,4-Dioxane	8.444	88	2390	93.62 ug/L	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

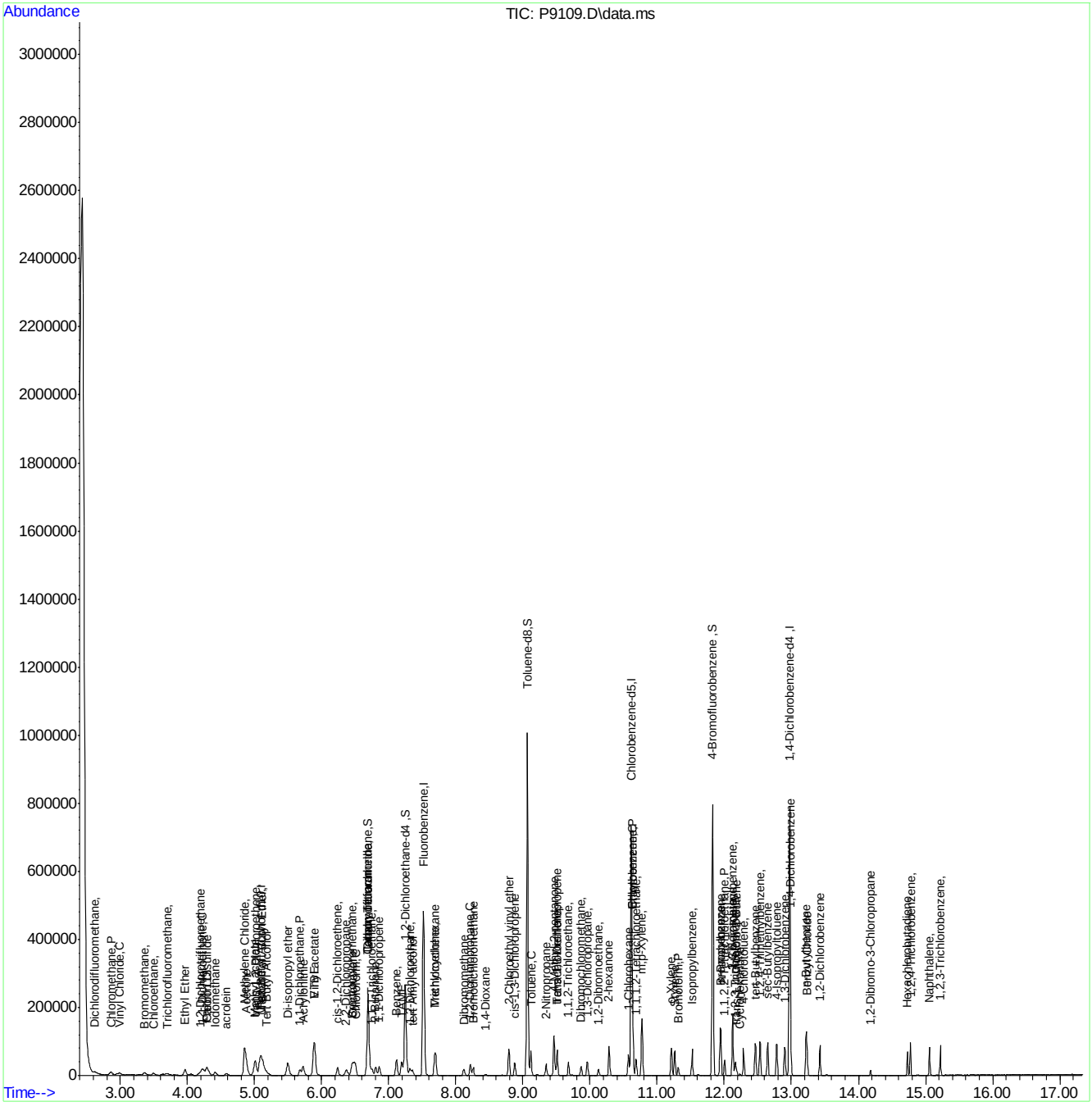
78.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:22:33 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

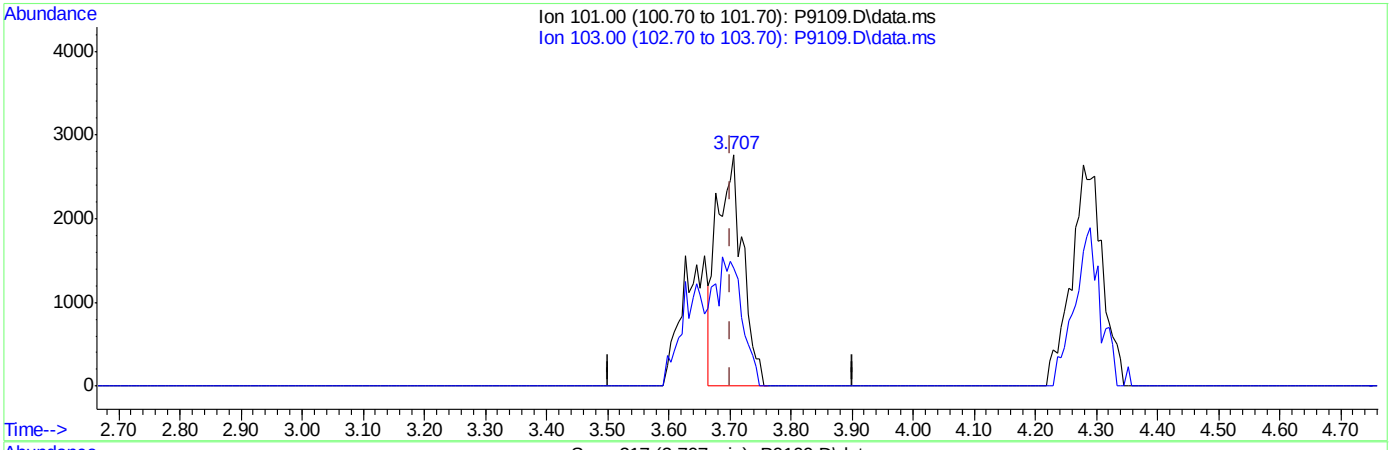
Sample Number:	VP369-IC369	**Method:**	SW846 8260B
Lab FileID:	P9109.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 13:58	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

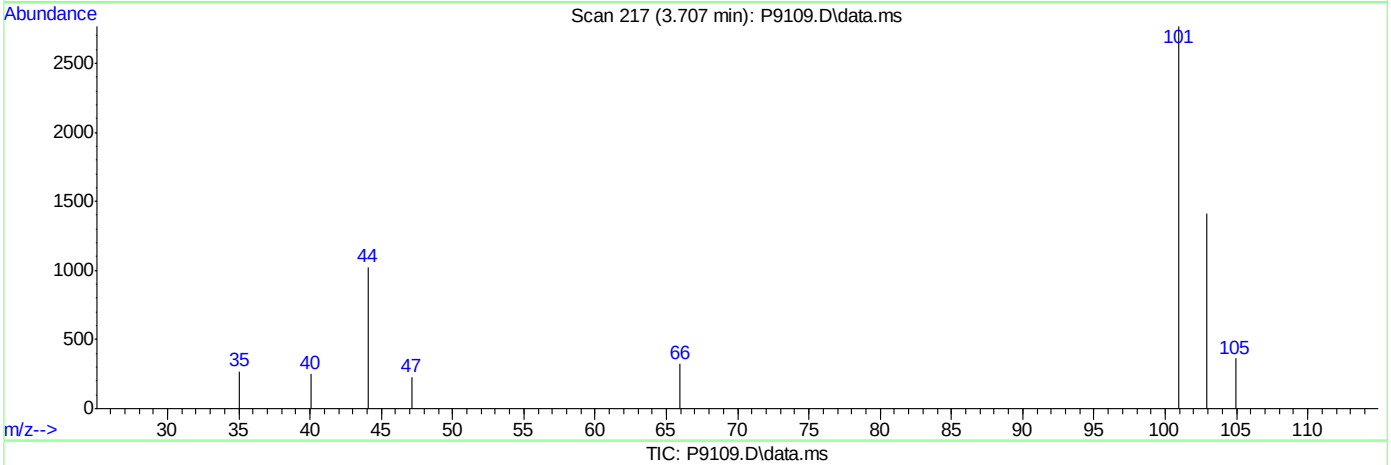
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.71	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:19:06 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9109.D\data.ms

(7) Trichlorofluoromethane ( )

3.707min (+0.006) 2.36ug/L

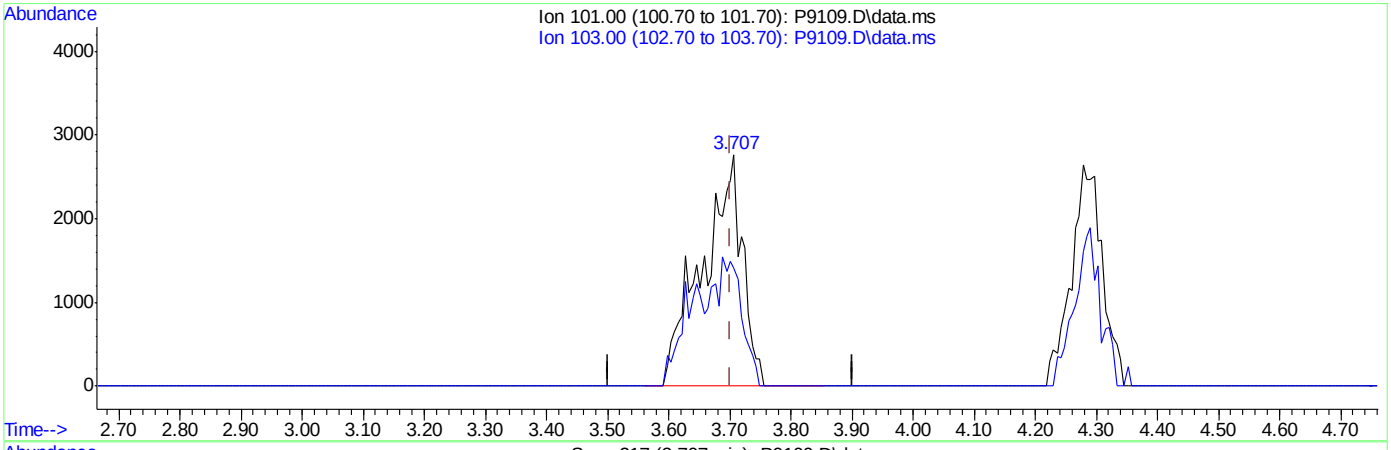
response 8109

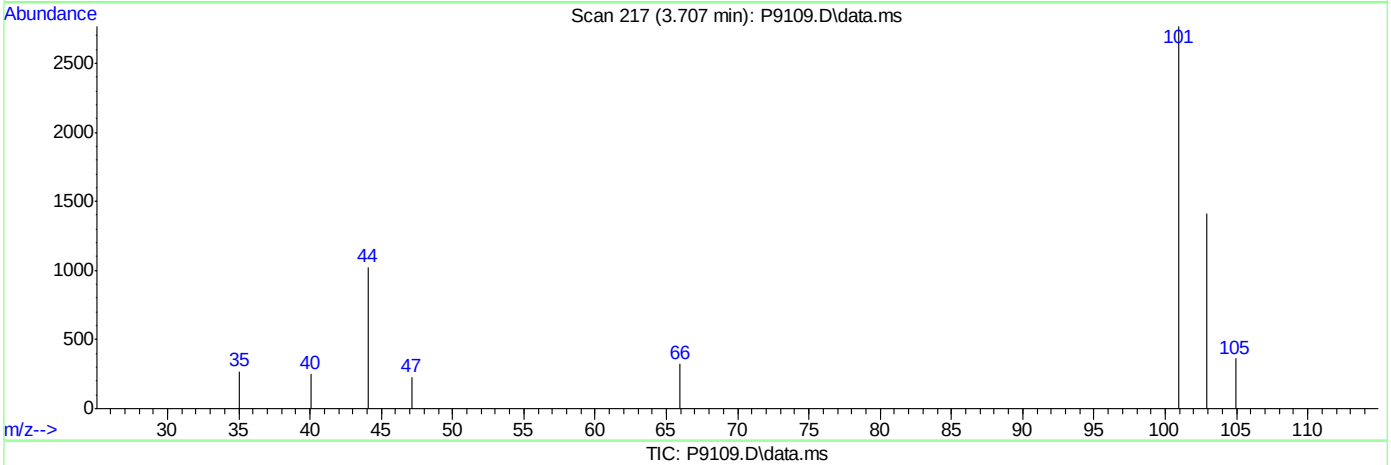
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	51.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9109.D
Acq On : 30 Jul 2012 1:58 pm
Operator : EileenG
Sample : ic369-2
Misc : MS21485,VP369,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:19:06 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9109.D\data.ms

(7) Trichlorofluoromethane ( )

3.707min (+0.006) 3.66ug/L m

response 12601

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	51.07
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:23:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.516	96	400949	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.612	117	295075	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.977	152	159671	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.090	65	58415	250.00	ug/L	-0.02
System Monitoring Compounds						
31) Dibromofluoromethane	6.689	113	157229	71.35	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 142.70%#			
38) 1,2-Dichloroethane-d4	7.243	65	201903	75.62	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 151.24%#			
48) Toluene-d8	9.067	98	609917	85.64	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 171.28%#			
69) 4-Bromofluorobenzene	11.828	95	231016	79.37	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 158.74%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.621	85	42613	16.42	ug/L	90
3) Chloromethane	2.864	50	76314	21.92	ug/L	99
4) Vinyl Chloride	2.992	62	58492	22.52	ug/L	95
5) Bromomethane	3.363	94	36555	23.76	ug/L	95
6) Chloroethane	3.491	64	36236	24.25	ug/L	95
7) Trichlorofluoromethane	3.697	101	57964m	17.11	ug/L	
8) Ethyl Ether	3.959	59	47833	22.57	ug/L	91
9) 1,2-Dichlorotrifluoroe...	4.196	67	60777	23.29	ug/L	92
10) 1,1-Dichloroethene	4.232	61	69453	21.87	ug/L	94
11) Freon 113	4.287	101	46257	20.00	ug/L	95
12) Carbon Disulfide	4.305	76	155342	22.18	ug/L	95
13) Iodomethane	4.415	142	71675	17.95	ug/L	95
14) Methylene Chloride	4.853	49	135111	36.62	ug/L	90
15) Acetone	4.883	58	35847	143.53	ug/L	90
16) Methyl acetate	4.999	74	40526	122.15	ug/L #	69
17) trans-1,2-Dichloroethene	5.023	61	72728	22.00	ug/L	96
18) Hexane	5.078	56	53365	22.63	ug/L #	88
19) Methyl Tert Butyl Ether	5.120	73	144494	20.73	ug/L	95
20) Di-isopropyl ether	5.491	45	212214	23.62	ug/L	97
21) 1,1-Dichloroethane	5.674	63	84968	21.77	ug/L	99
22) Acrylonitrile	5.722	53	109204	136.91	ug/L	96
23) ETBE	5.887	59	175795	21.23	ug/L	96
24) Vinyl acetate	5.893	43	548055	154.31	ug/L	99
25) cis-1,2-Dichloroethene	6.239	96	46909	20.60	ug/L	95
26) 2,2-Dichloropropane	6.367	77	60150	18.11	ug/L	98
27) Bromochloromethane	6.452	128	23940	18.65	ug/L #	83
28) Cyclohexane	6.476	56	101208	22.25	ug/L	93
29) Chloroform	6.501	83	81602	21.23	ug/L	95
30) Tetrahydrofuran	6.677	42	20745	27.94	ug/L	93
32) Carbon Tetrachloride	6.677	117	58169	17.48	ug/L	96
33) 1,1,1-Trichloroethane	6.750	97	66677	19.07	ug/L	97
34) 2-Butanone	6.805	43	158692	139.65	ug/L	92
35) 1,1-Dichloropropene	6.854	75	58742	20.89	ug/L	90
36) Benzene	7.115	78	179398	21.54	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:23:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.194	73	142204	20.81 ug/L	96
39) 1,2-Dichloroethane	7.310	62	62717	19.55 ug/L	91
40) Trichloroethene	7.687	95	43089	19.74 ug/L	96
41) Methylcyclohexane	7.699	83	82679	21.00 ug/L	95
42) Dibromomethane	8.112	93	27049	19.92 ug/L	90
43) 1,2-Dichloropropane	8.216	63	50308	22.07 ug/L	93
44) Bromodichloromethane	8.252	83	61454	20.24 ug/L	92
45) 2-Chloroethyl vinyl ether	8.787	63	116511	107.03 ug/L	95
46) cis-1,3-Dichloropropene	8.879	75	73882	20.39 ug/L	96
49) Toluene	9.116	91	193343	23.46 ug/L	97
50) 2-Nitropropane	9.347	41	73281	132.59 ug/L	96
51) 4-Methyl-2-pentanone	9.462	43	322397	153.53 ug/L	94
52) trans-1,3-Dichloropropene	9.511	75	67597	23.27 ug/L	94
53) Tetrachloroethene	9.505	166	45438	21.37 ug/L	94
54) 1,1,2-Trichloroethane	9.675	83	37143	24.98 ug/L	97
55) Dibromochloromethane	9.864	129	48864	21.45 ug/L	97
56) 1,3-Dichloropropane	9.961	76	75683	24.23 ug/L	91
57) 1,2-Dibromoethane	10.125	107	43360	22.19 ug/L	92
58) 2-hexanone	10.283	43	231554	154.47 ug/L	89
59) 1-Chlorohexane	10.569	91	63665	21.06 ug/L	85
60) Ethylbenzene	10.636	91	233076	24.08 ug/L	98
61) Chlorobenzene	10.630	112	126056	22.15 ug/L	92
62) 1,1,1,2-Tetrachloroethane	10.685	131	48258	21.55 ug/L	95
63) m,p-Xylene	10.776	91	349714	48.05 ug/L	96
64) o-Xylene	11.214	91	181077	23.50 ug/L	98
65) Styrene	11.262	104	131991	20.92 ug/L	96
66) Bromoform	11.317	173	38396	25.44 ug/L	95
67) Isopropylbenzene	11.518	105	199292	23.26 ug/L	96
70) n-Propylbenzene	11.938	91	295307	27.26 ug/L	96
71) Bromobenzene	11.950	156	62683	23.94 ug/L	94
72) 1,1,2,2-Tetrachloroethane	12.004	83	74876	31.56 ug/L	96
73) 1,3,5-Trimethylbenzene	12.126	105	210509	24.52 ug/L	98
74) 2-Chlorotoluene	12.120	91	198609	26.34 ug/L	97
75) trans-1,4-Dichloro-2-B...	12.187	53	14815	36.99 ug/L	93
76) 1,2,3-Trichloropropane	12.163	110	20467	27.19 ug/L	93
77) Cyclohexanone	12.229	55	10482	152.04 ug/L	90
78) 4-Chlorotoluene	12.290	91	181994	26.29 ug/L	97
79) tert-Butylbenzene	12.467	91	116516	25.64 ug/L	94
80) 1,2,4-Trimethylbenzene	12.533	105	218812	25.40 ug/L	97
81) sec-Butylbenzene	12.649	105	280659	26.68 ug/L	97
82) 4-Isopropyltoluene	12.783	119	220327	25.95 ug/L	97
83) 1,3-Dichlorobenzene	12.904	146	125342	25.17 ug/L	97
84) 1,4-Dichlorobenzene	12.990	146	130323	25.09 ug/L	95
85) n-Butylbenzene	13.221	92	139975	28.59 ug/L	96
86) Benzyl Chloride	13.233	126	23278	20.24 ug/L #	46
87) 1,2-Dichlorobenzene	13.427	146	122612	25.63 ug/L	96
88) 1,2-Dibromo-3-Chloropr...	14.182	75	13078	28.54 ug/L	92
89) Hexachlorobutadiene	14.735	225	42515	26.99 ug/L	85
90) 1,2,4-Trichlorobenzene	14.771	180	91208	27.27 ug/L	92
91) Naphthalene	15.057	128	206069	28.22 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:23:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.221	180	81172	27.76	ug/L	93
94) acrolein	4.579	56	33307	305.76	ug/L	75
95) Tert Butyl Alcohol	5.175	59	58007	193.93	ug/L	87
96) tert Amyl alcohol	7.352	59	45916	195.68	ug/L	95
97) 1,4-Dioxane	8.441	88	9902	360.69	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

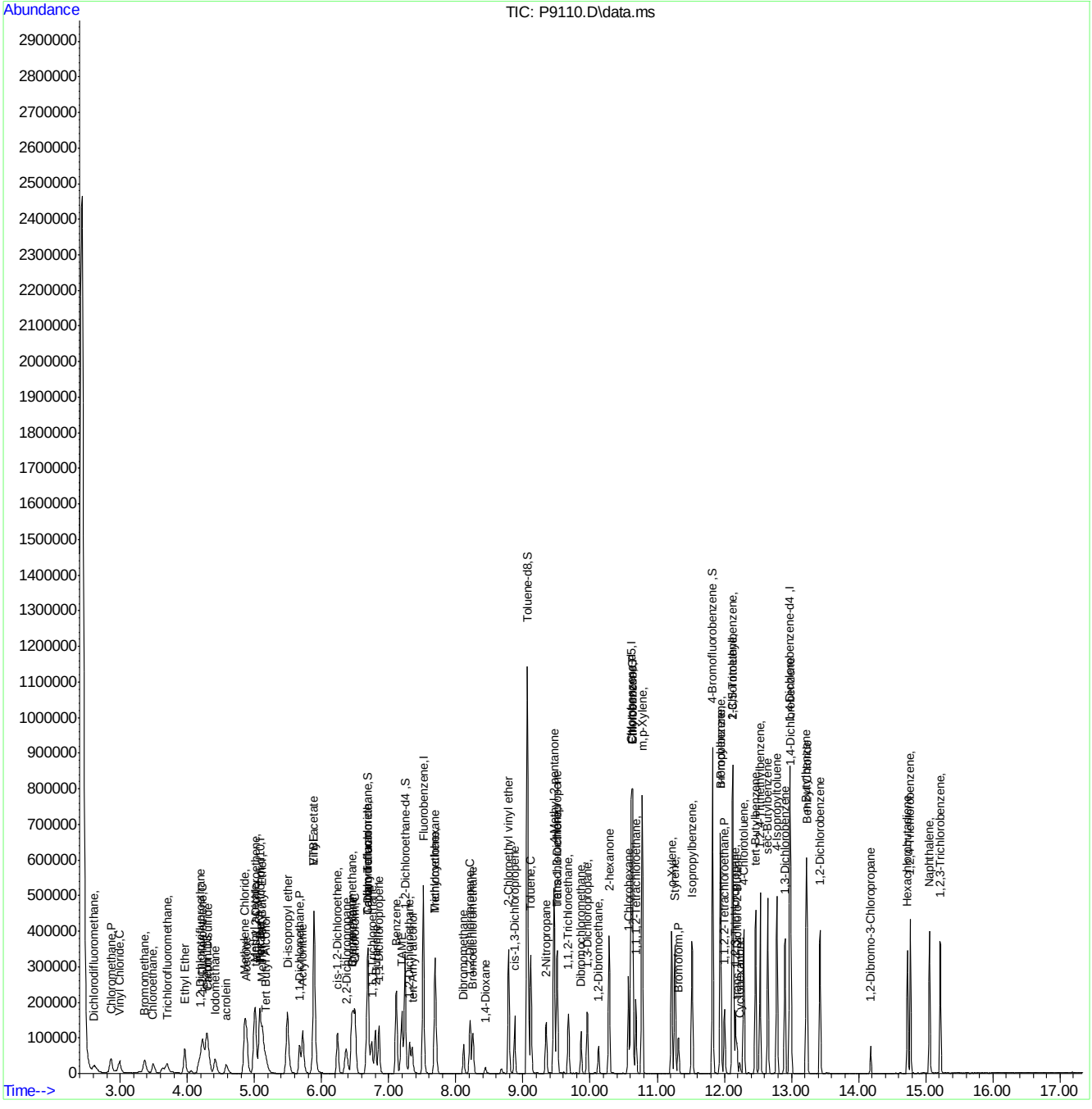
7.8.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:23:28 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

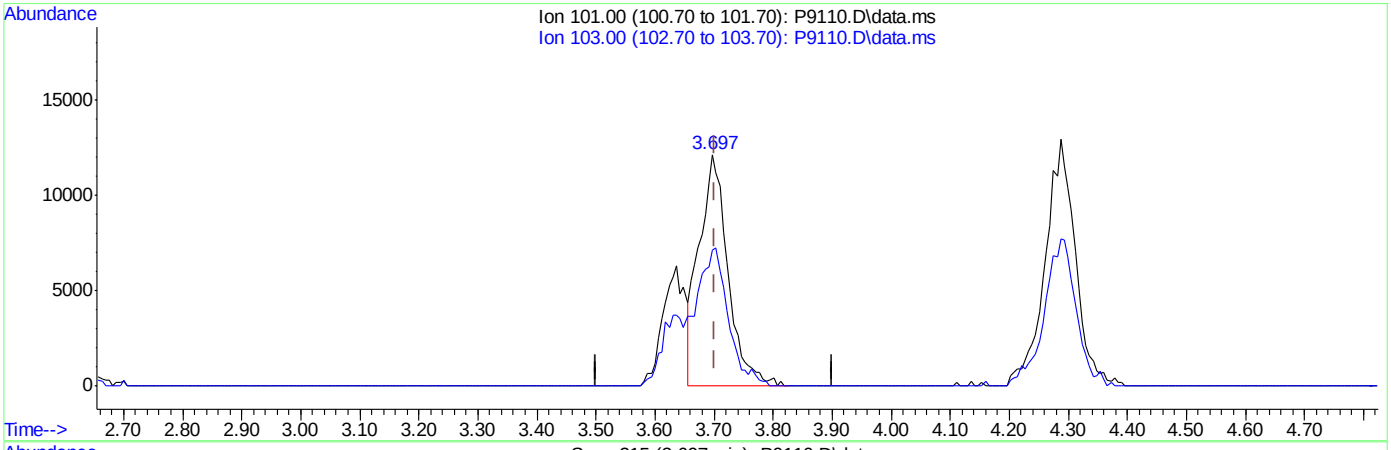
Sample Number:	VP369-IC369	**Method:**	SW846 8260B
Lab FileID:	P9110.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 14:21	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

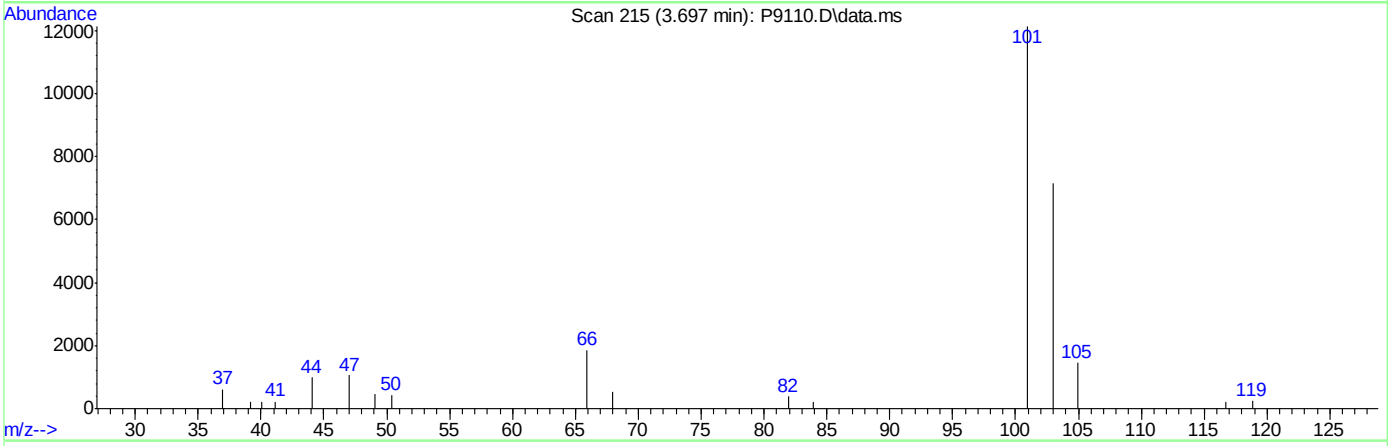
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:19:07 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9110.D\data.ms

(7) Trichlorofluoromethane ( )

3.697min (-0.004) 12.29ug/L

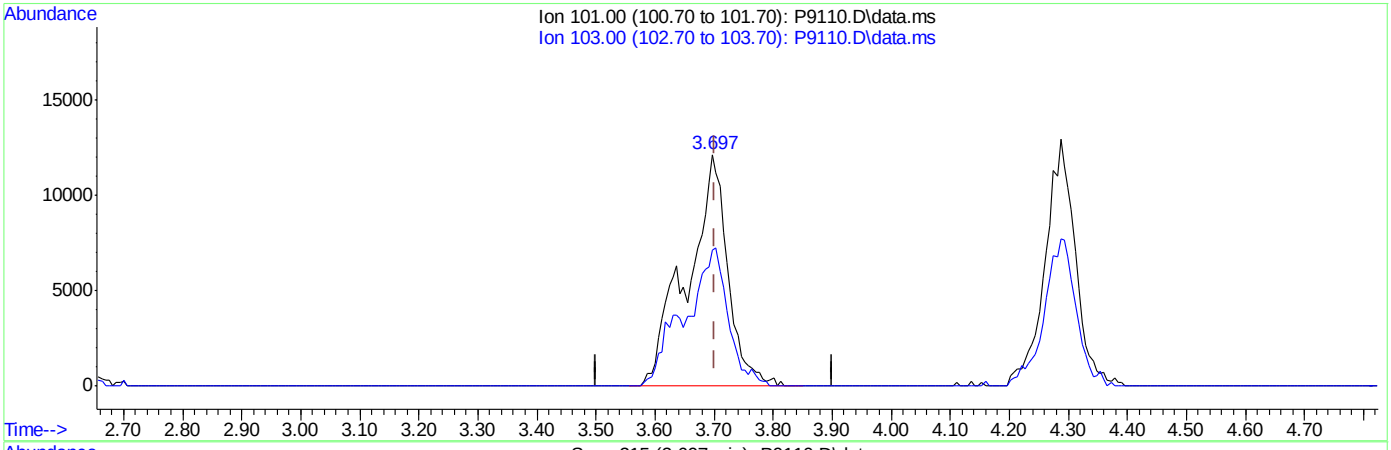
response 41579

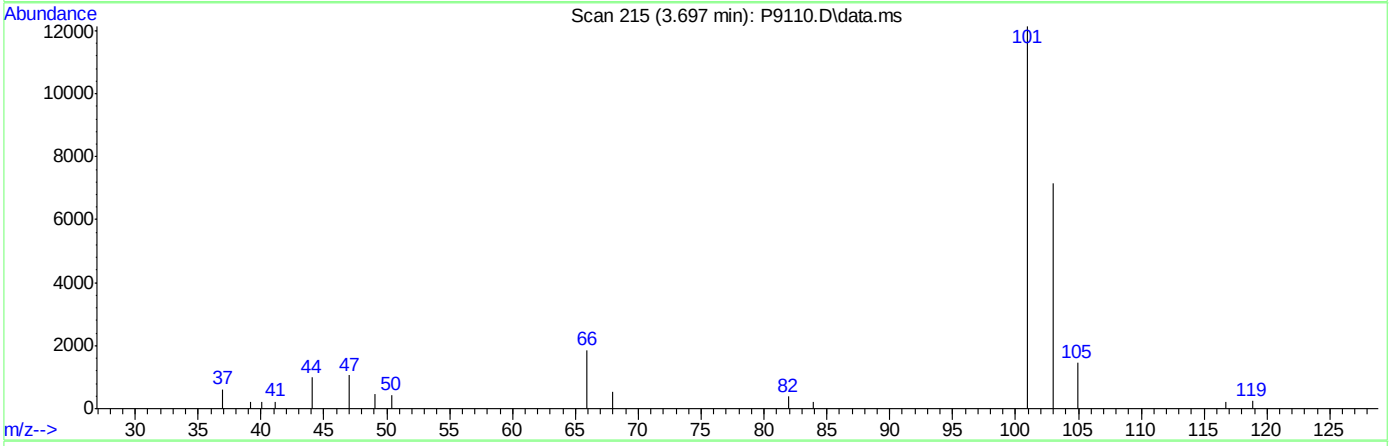
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	58.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9110.D
Acq On : 30 Jul 2012 2:21 pm
Operator : EileenG
Sample : ic369-3
Misc : MS21485,VP369,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:19:07 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9110.D\data.ms

(7) Trichlorofluoromethane ( )

3.697min (-0.004) 17.11ug/L m

response 57964

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	58.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:24:23 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.519	96	413244	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	306322	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.974	152	168521	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.099	65	60036	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.692	113	102616	45.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 90.36%			
38) 1,2-Dichloroethane-d4	7.246	65	130612	47.46	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 94.92%			
48) Toluene-d8	9.070	98	401866	54.36	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 108.72%			
69) 4-Bromofluorobenzene	11.825	95	151534	49.33	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 98.66%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.618	85	87479	32.89	ug/L	89
3) Chloromethane	2.873	50	153514	42.77	ug/L	99
4) Vinyl Chloride	2.995	62	122575	45.78	ug/L	99
5) Bromomethane	3.378	94	75801	47.80	ug/L	97
6) Chloroethane	3.500	64	73429	47.69	ug/L	96
7) Trichlorofluoromethane	3.700	101	118605m	33.76	ug/L	
8) Ethyl Ether	3.968	59	91288	41.79	ug/L	88
9) 1,2-Dichlorotrifluoroe...	4.211	67	119047	44.27	ug/L	95
10) 1,1-Dichloroethene	4.241	61	140893	43.05	ug/L	96
11) Freon 113	4.290	101	91681	38.45	ug/L	92
12) Carbon Disulfide	4.308	76	309377	42.85	ug/L	99
13) Iodomethane	4.424	142	144030	35.00	ug/L	97
14) Methylene Chloride	4.862	49	201174	53.56	ug/L	95
15) Acetone	4.886	58	74741	290.36	ug/L	88
16) Methyl acetate	5.002	74	80385	235.08	ug/L #	76
17) trans-1,2-Dichloroethene	5.026	61	141510	41.53	ug/L	96
18) Hexane	5.081	56	104847	43.13	ug/L #	91
19) Methyl Tert Butyl Ether	5.123	73	290182	40.39	ug/L	95
20) Di-isopropyl ether	5.494	45	420891	45.45	ug/L	96
21) 1,1-Dichloroethane	5.677	63	168207	41.81	ug/L	96
22) Acrylonitrile	5.725	53	221362	269.26	ug/L	94
23) ETBE	5.890	59	352372	41.28	ug/L	98
24) Vinyl acetate	5.896	43	1113929	304.30	ug/L	98
25) cis-1,2-Dichloroethene	6.236	96	93997	40.05	ug/L	97
26) 2,2-Dichloropropane	6.370	77	119640	34.95	ug/L	100
27) Bromochloromethane	6.449	128	46764	35.34	ug/L	85
28) Cyclohexane	6.473	56	203234	43.35	ug/L	94
29) Chloroform	6.504	83	157324	39.72	ug/L	97
30) Tetrahydrofuran	6.680	42	40408	52.55	ug/L	94
32) Carbon Tetrachloride	6.680	117	117179	34.16	ug/L	97
33) 1,1,1-Trichloroethane	6.747	97	131337	36.45	ug/L	96
34) 2-Butanone	6.802	43	327445	279.03	ug/L	91
35) 1,1-Dichloropropene	6.862	75	120565	41.59	ug/L	94
36) Benzene	7.118	78	360516	42.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:24:23 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.197	73	283908	40.32	ug/L		95
39) 1,2-Dichloroethane	7.313	62	126533	38.26	ug/L		95
40) Trichloroethene	7.683	95	88188	39.20	ug/L		90
41) Methylcyclohexane	7.702	83	165664	40.82	ug/L		97
42) Dibromomethane	8.121	93	56579	40.43	ug/L		95
43) 1,2-Dichloropropane	8.219	63	98843	42.07	ug/L		95
44) Bromodichloromethane	8.255	83	123192	39.37	ug/L		94
45) 2-Chloroethyl vinyl ether	8.790	63	243933	217.41	ug/L		94
46) cis-1,3-Dichloropropene	8.882	75	152126	40.74	ug/L		95
49) Toluene	9.119	91	383071	44.77	ug/L		100
50) 2-Nitropropane	9.350	41	153053	266.76	ug/L		97
51) 4-Methyl-2-pentanone	9.465	43	659331	302.46	ug/L		93
52) trans-1,3-Dichloropropene	9.514	75	138946	46.07	ug/L		93
53) Tetrachloroethene	9.508	166	90651	41.06	ug/L		96
54) 1,1,2-Trichloroethane	9.678	83	74649	48.36	ug/L		99
55) Dibromochloromethane	9.867	129	99190	41.94	ug/L		99
56) 1,3-Dichloropropane	9.958	76	152261	46.96	ug/L		86
57) 1,2-Dibromoethane	10.128	107	86530	42.66	ug/L		98
58) 2-hexanone	10.280	43	472908	303.88	ug/L		91
59) 1-Chlorohexane	10.572	91	129786	41.36	ug/L		88
60) Ethylbenzene	10.633	91	467210	46.50	ug/L		96
61) Chlorobenzene	10.633	112	254636	43.11	ug/L		92
62) 1,1,1,2-Tetrachloroethane	10.688	131	97092	41.76	ug/L		97
63) m,p-Xylene	10.773	91	702783	93.01	ug/L		95
64) o-Xylene	11.217	91	365674	45.72	ug/L		96
65) Styrene	11.265	104	277111	42.31	ug/L		97
66) Bromoform	11.314	173	79984	51.05	ug/L		96
67) Isopropylbenzene	11.521	105	405438	45.59	ug/L		99
70) n-Propylbenzene	11.940	91	592498	51.82	ug/L		96
71) Bromobenzene	11.953	156	124410	45.01	ug/L		100
72) 1,1,2,2-Tetrachloroethane	12.007	83	147672	58.97	ug/L		100
73) 1,3,5-Trimethylbenzene	12.129	105	425269	46.93	ug/L		100
74) 2-Chlorotoluene	12.123	91	397768	49.98	ug/L		97
75) trans-1,4-Dichloro-2-B...	12.190	53	35025	68.53	ug/L		94
76) 1,2,3-Trichloropropane	12.165	110	41255	51.92	ug/L		93
77) Cyclohexanone	12.232	55	22493	309.12	ug/L		91
78) 4-Chlorotoluene	12.293	91	360314	49.32	ug/L		100
79) tert-Butylbenzene	12.463	91	241070	50.27	ug/L		91
80) 1,2,4-Trimethylbenzene	12.536	105	442293	48.65	ug/L		99
81) sec-Butylbenzene	12.646	105	563565	50.75	ug/L		97
82) 4-Isopropyltoluene	12.786	119	455746	50.85	ug/L		97
83) 1,3-Dichlorobenzene	12.901	146	251732	47.89	ug/L		97
84) 1,4-Dichlorobenzene	12.992	146	262072	47.81	ug/L		98
85) n-Butylbenzene	13.224	92	286639	55.47	ug/L		95
86) Benzyl Chloride	13.236	126	46790	38.55	ug/L	#	74
87) 1,2-Dichlorobenzene	13.424	146	248208	49.16	ug/L		95
88) 1,2-Dibromo-3-Chloropr...	14.178	75	27154	56.15	ug/L		90
89) Hexachlorobutadiene	14.732	225	88019	52.95	ug/L		91
90) 1,2,4-Trichlorobenzene	14.774	180	182557	51.72	ug/L		95
91) Naphthalene	15.060	128	423292	54.92	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:24:23 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

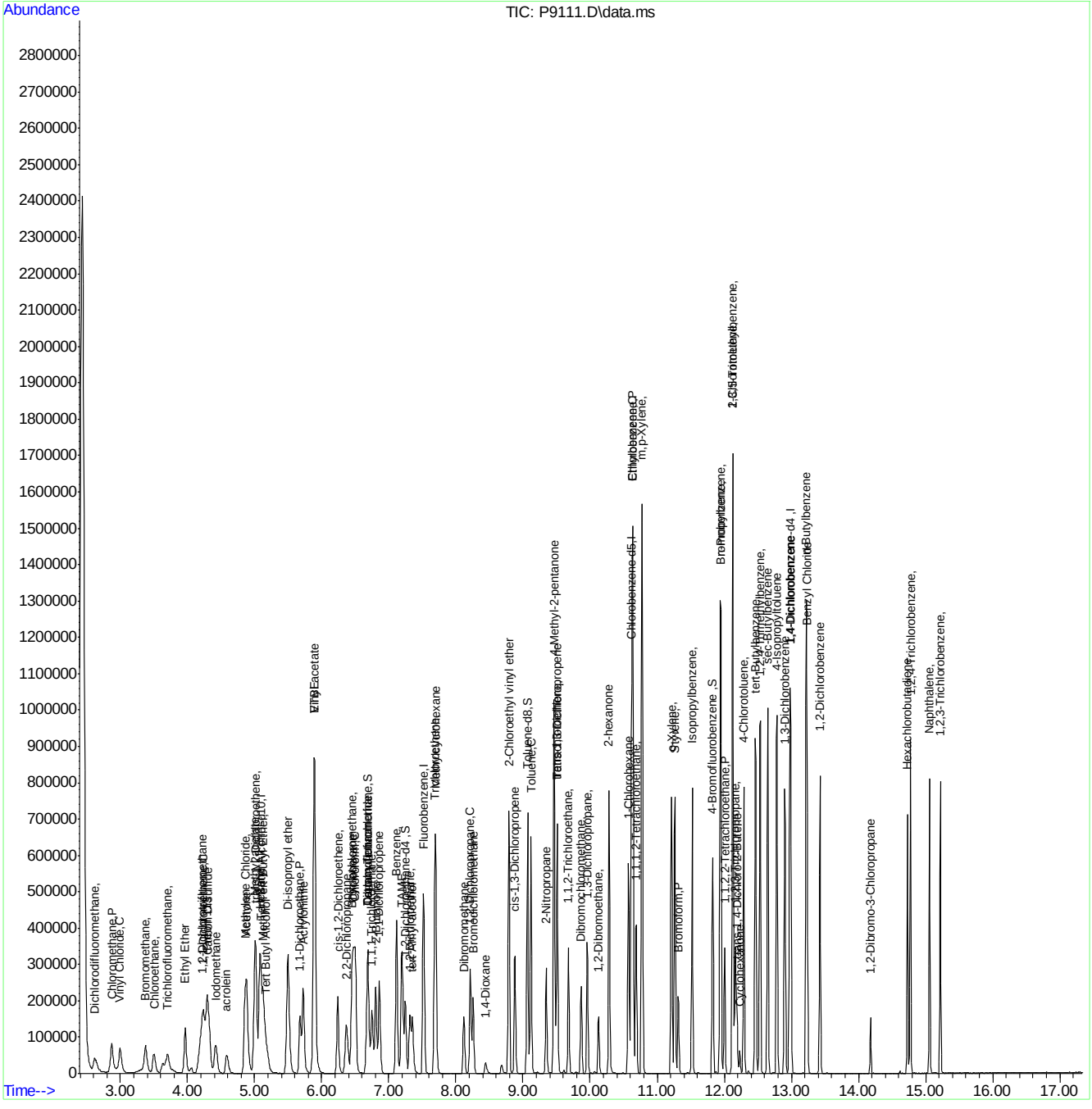
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.218	180	169120	54.79	ug/L	96
94) acrolein	4.588	56	68512	649.43	ug/L	79
95) Tert Butyl Alcohol	5.178	59	120023	390.43	ug/L	89
96) tert Amyl alcohol	7.355	59	96365	399.58	ug/L	93
97) 1,4-Dioxane	8.444	88	20378	723.05	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:24:23 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



Manual Integration Approval Summary

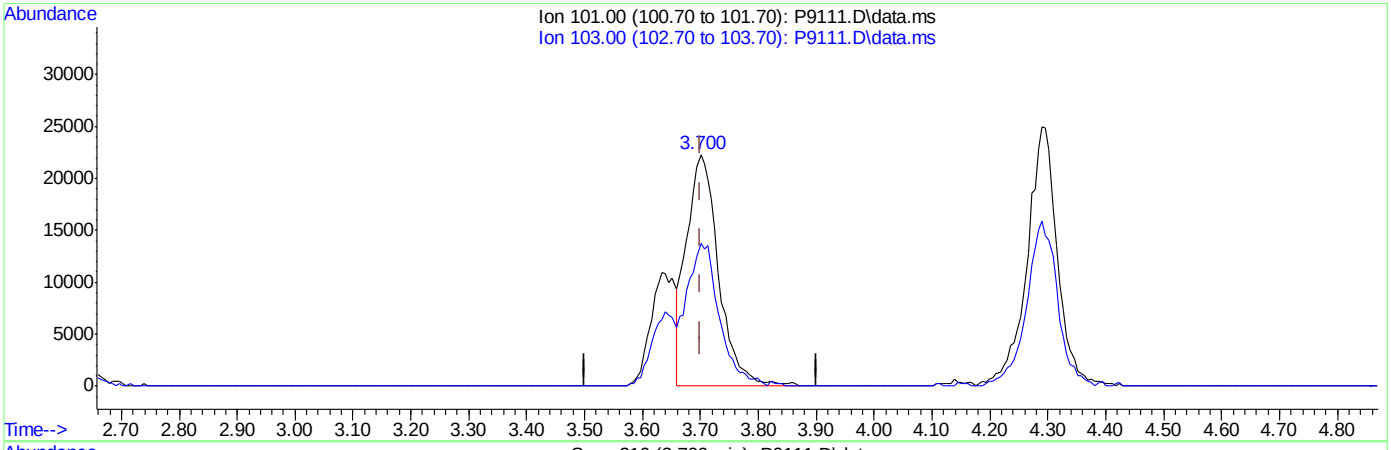
Sample Number:	VP369-ICC369	**Method:**	SW846 8260B
Lab FileID:	P9111.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 14:45	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

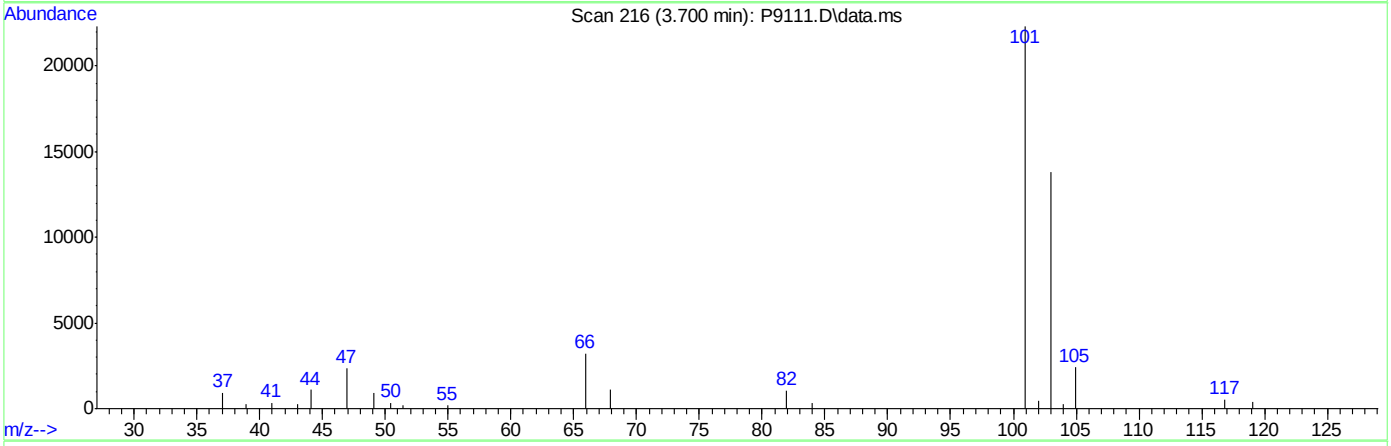
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:19:08 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9111.D\data.ms

(7) Trichlorofluoromethane ( )

3.700min (-0.001) 24.74ug/L

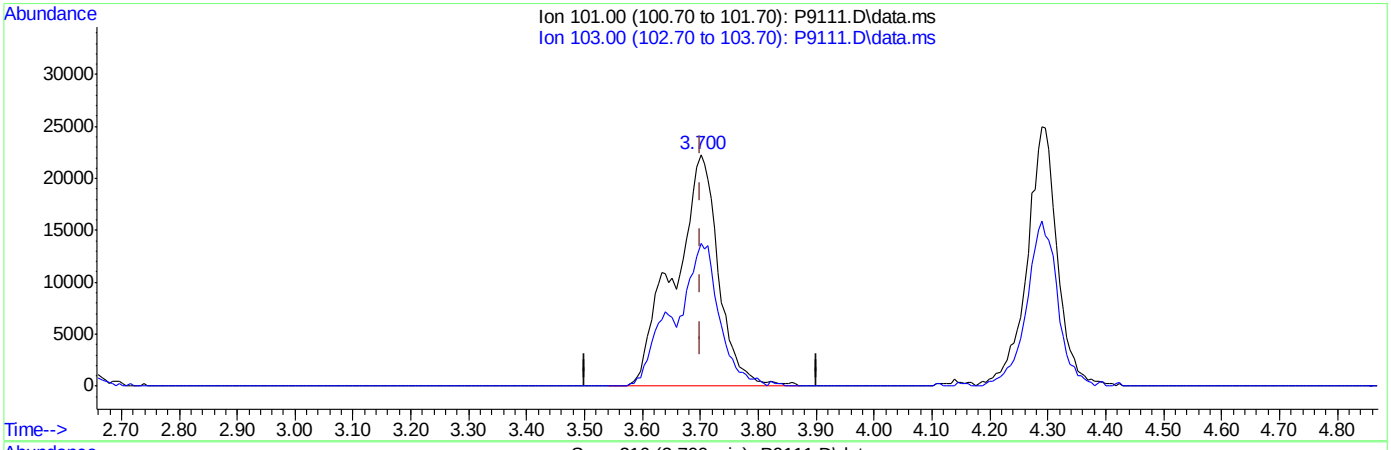
response 86639

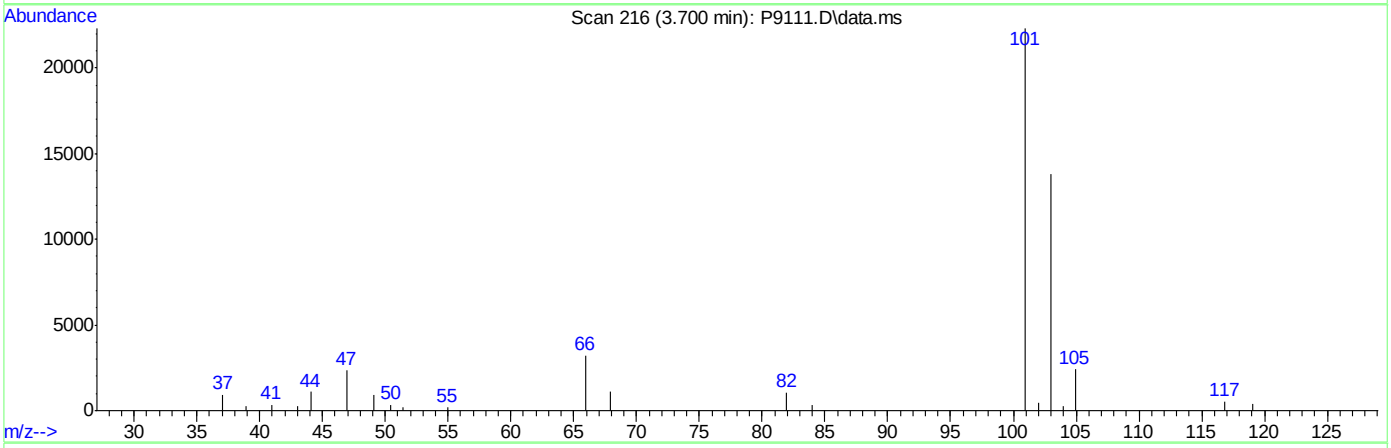
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	61.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9111.D
Acq On : 30 Jul 2012 2:45 pm
Operator : EileenG
Sample : icc369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:19:08 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9111.D\data.ms

(7) Trichlorofluoromethane ( )

3.700min (-0.001) 33.76ug/L m

response 118605

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	61.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.520	96	424530	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.615	117	316709	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.975	152	170620	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.099	65	65709	250.00	ug/L	0.00
System Monitoring Compounds						
31) Dibromofluoromethane	6.693	113	185492	79.50	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 159.00%#			
38) 1,2-Dichloroethane-d4	7.246	65	247478	87.54	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 175.08%#			
48) Toluene-d8	9.070	98	734188	96.05	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 192.10%#			
69) 4-Bromofluorobenzene	11.825	95	284451	91.46	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 182.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.618	85	150253	55.40	ug/L	100
3) Chloromethane	2.880	50	261716	70.98	ug/L	98
4) Vinyl Chloride	2.995	62	212759	77.36	ug/L	100
5) Bromomethane	3.378	94	134385	82.49	ug/L	96
6) Chloroethane	3.494	64	139215	88.01	ug/L	95
7) Trichlorofluoromethane	3.707	101	208261m	57.23	ug/L	
8) Ethyl Ether	3.968	59	174057	77.57	ug/L	94
9) 1,2-Dichlorotrifluoroe...	4.205	67	207331	75.05	ug/L	89
10) 1,1-Dichloroethene	4.242	61	246340	73.27	ug/L	97
11) Freon 113	4.297	101	159832	65.26	ug/L	91
12) Carbon Disulfide	4.321	76	551149	74.31	ug/L	98
13) Iodomethane	4.424	142	258072	61.04	ug/L	97
14) Methylene Chloride	4.862	49	339576	90.48	ug/L	95
15) Acetone	4.886	58	125982	476.41	ug/L	87
16) Methyl acetate	5.002	74	146568	417.23	ug/L #	81
17) trans-1,2-Dichloroethene	5.020	61	254859	72.81	ug/L	97
18) Hexane	5.081	56	187813	75.21	ug/L #	86
19) Methyl Tert Butyl Ether	5.130	73	534163	72.37	ug/L	98
20) Di-isopropyl ether	5.501	45	774963	81.47	ug/L	97
21) 1,1-Dichloroethane	5.677	63	308420	74.62	ug/L	98
22) Acrylonitrile	5.726	53	405797	480.49	ug/L	100
23) ETBE	5.890	59	643043	73.34	ug/L	98
24) Vinyl acetate	5.896	43	2011433	534.87	ug/L	100
25) cis-1,2-Dichloroethene	6.236	96	172715	71.64	ug/L	99
26) 2,2-Dichloropropane	6.370	77	219138	62.32	ug/L	97
27) Bromochloromethane	6.449	128	84417	62.10	ug/L #	81
28) Cyclohexane	6.474	56	371585	77.15	ug/L	91
29) Chloroform	6.504	83	292411	71.86	ug/L	97
30) Tetrahydrofuran	6.680	42	76118	95.56	ug/L	94
32) Carbon Tetrachloride	6.680	117	207622	58.92	ug/L	98
33) 1,1,1-Trichloroethane	6.747	97	240485	64.97	ug/L	97
34) 2-Butanone	6.808	43	595282	492.33	ug/L	92
35) 1,1-Dichloropropene	6.857	75	217198	72.94	ug/L	89
36) Benzene	7.118	78	647340	73.41	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.197	73	522123	72.18 ug/L	95
39) 1,2-Dichloroethane	7.313	62	232012	68.30 ug/L	92
40) Trichloroethene	7.690	95	161547	69.90 ug/L	92
41) Methylcyclohexane	7.696	83	302125	72.47 ug/L	94
42) Dibromomethane	8.122	93	102126	71.03 ug/L	97
43) 1,2-Dichloropropane	8.219	63	185277	76.75 ug/L	96
44) Bromodichloromethane	8.255	83	227484	70.76 ug/L	95
45) 2-Chloroethyl vinyl ether	8.791	63	454107	393.97 ug/L	93
46) cis-1,3-Dichloropropene	8.882	75	275234	71.75 ug/L	93
49) Toluene	9.119	91	702774	79.44 ug/L	99
50) 2-Nitropropane	9.350	41	294062	495.72 ug/L	96
51) 4-Methyl-2-pentanone	9.466	43	1228551	545.10 ug/L	93
52) trans-1,3-Dichloropropene	9.514	75	263618	84.55 ug/L	95
53) Tetrachloroethene	9.508	166	171580	75.17 ug/L	95
54) 1,1,2-Trichloroethane	9.678	83	140467	88.02 ug/L	97
55) Dibromochloromethane	9.867	129	183418	75.01 ug/L	98
56) 1,3-Dichloropropane	9.958	76	285680	85.22 ug/L	86
57) 1,2-Dibromoethane	10.129	107	160419	76.50 ug/L	97
58) 2-hexanone	10.287	43	883300	548.98 ug/L	93
59) 1-Chlorohexane	10.572	91	242266	74.67 ug/L	87
60) Ethylbenzene	10.639	91	860186	82.80 ug/L	99
61) Chlorobenzene	10.633	112	473009	77.45 ug/L	89
62) 1,1,1,2-Tetrachloroethane	10.688	131	181167	75.37 ug/L	96
63) m,p-Xylene	10.779	91	1305360	167.10 ug/L	98
64) o-Xylene	11.217	91	680550	82.29 ug/L	97
65) Styrene	11.266	104	532311	78.61 ug/L	96
66) Bromoform	11.320	173	153314	94.65 ug/L	98
67) Isopropylbenzene	11.521	105	744751	80.99 ug/L	97
70) n-Propylbenzene	11.941	91	1097997	94.85 ug/L	95
71) Bromobenzene	11.953	156	231510	82.74 ug/L	99
72) 1,1,2,2-Tetrachloroethane	12.008	83	272254	107.38 ug/L	98
73) 1,3,5-Trimethylbenzene	12.129	105	794689	86.62 ug/L	99
74) 2-Chlorotoluene	12.123	91	740516	91.89 ug/L	99
75) trans-1,4-Dichloro-2-B...	12.190	53	70322	110.47 ug/L	94
76) 1,2,3-Trichloropropane	12.166	110	76189	94.71 ug/L	87
77) Cyclohexanone	12.233	55	42085	571.25 ug/L	94
78) 4-Chlorotoluene	12.293	91	673120	90.99 ug/L	98
79) tert-Butylbenzene	12.464	91	442019	91.04 ug/L	92
80) 1,2,4-Trimethylbenzene	12.537	105	807055	87.68 ug/L	99
81) sec-Butylbenzene	12.646	105	1024681	91.14 ug/L	96
82) 4-Isopropyltoluene	12.786	119	817016	90.04 ug/L	97
83) 1,3-Dichlorobenzene	12.902	146	464071	87.20 ug/L	97
84) 1,4-Dichlorobenzene	12.993	146	488001	87.93 ug/L	98
85) n-Butylbenzene	13.224	92	521429	99.66 ug/L	95
86) Benzyl Chloride	13.236	126	88746	72.22 ug/L #	70
87) 1,2-Dichlorobenzene	13.425	146	448583	87.75 ug/L	95
88) 1,2-Dibromo-3-Chloropr...	14.179	75	43970	89.80 ug/L	88
89) Hexachlorobutadiene	14.732	225	144114	85.63 ug/L	94
90) 1,2,4-Trichlorobenzene	14.775	180	299730	83.88 ug/L	95
91) Naphthalene	15.060	128	658093	84.33 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.219	180	241630	77.32	ug/L	98
94) acrolein	4.588	56	123318	1179.30	ug/L	75
95) Tert Butyl Alcohol	5.184	59	220801	656.25	ug/L	85
96) tert Amyl alcohol	7.355	59	186517	706.63	ug/L	96
97) 1,4-Dioxane	8.444	88	38950	1264.80	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

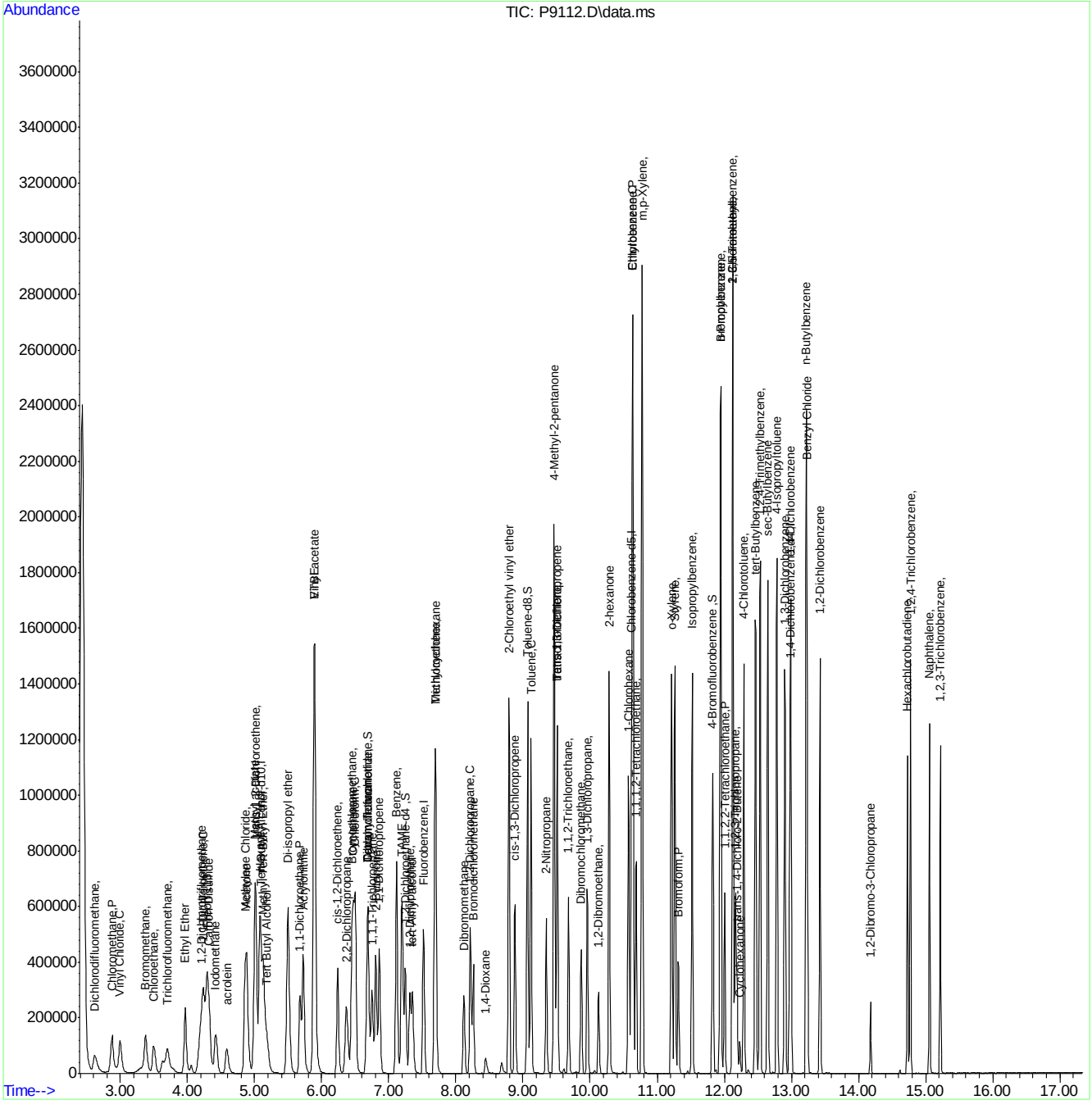
7.8.21

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:43 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



Manual Integration Approval Summary

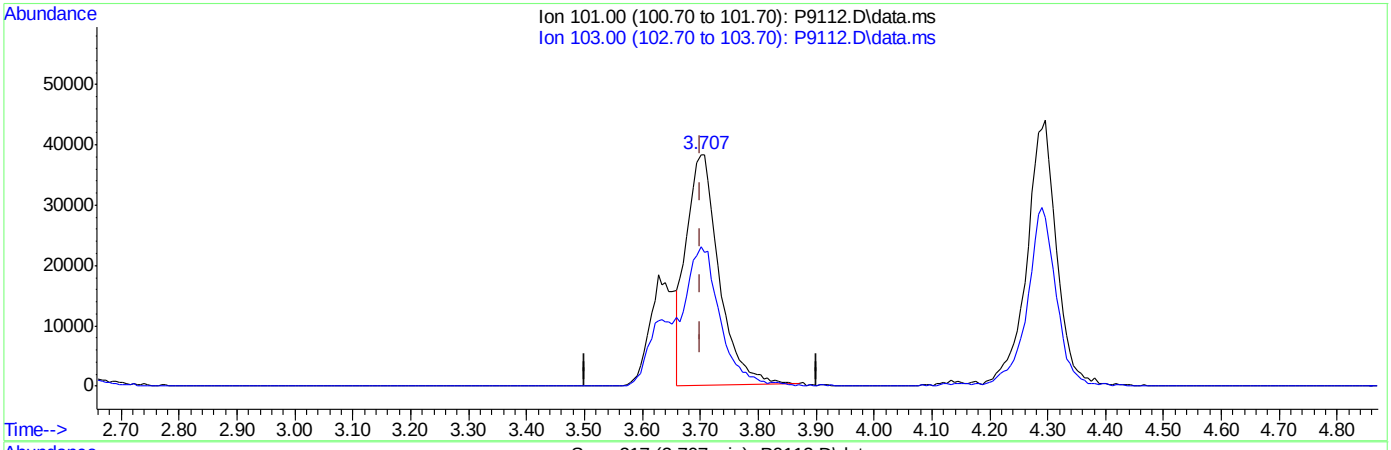
Sample Number:	VP369-IC369	**Method:**	SW846 8260B
Lab FileID:	P9112.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 15:08	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

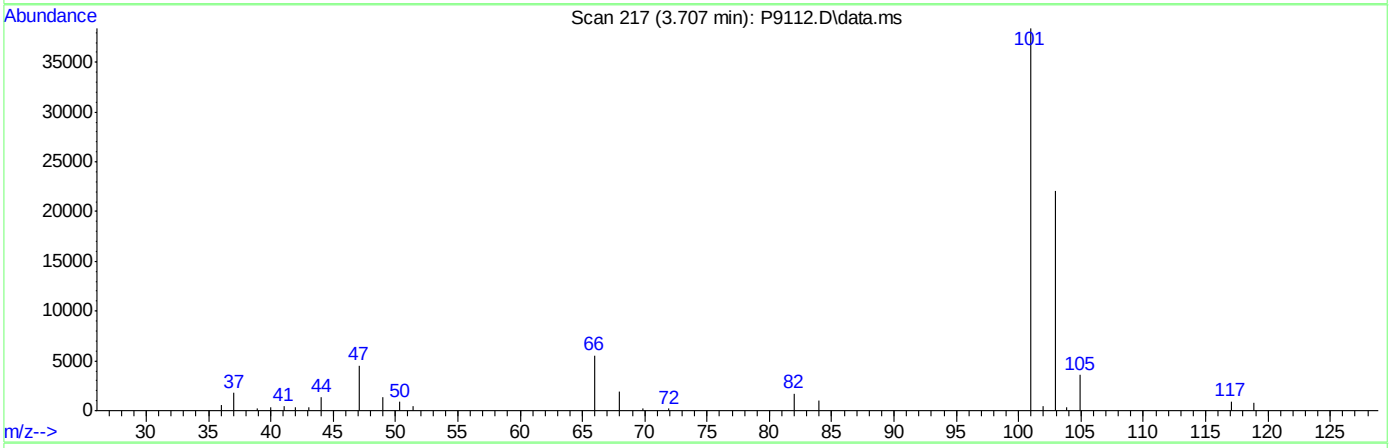
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.71	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9112.D\data.ms

(7) Trichlorofluoromethane ( )

3.707min (+0.006) 41.76ug/L

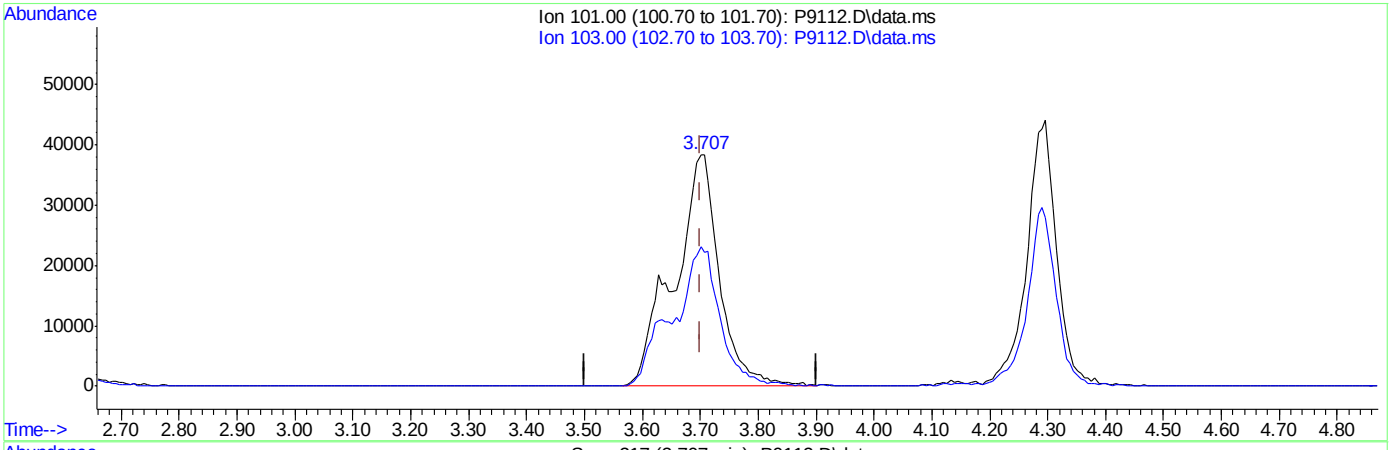
response 151147

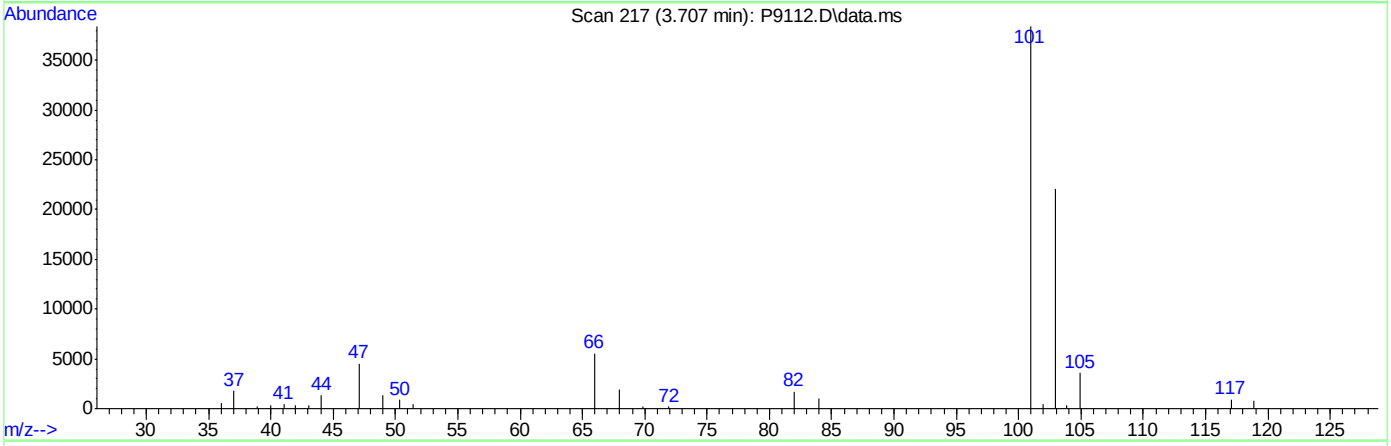
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	57.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9112.D
Acq On : 30 Jul 2012 3:08 pm
Operator : EileenG
Sample : ic369-5
Misc : MS21485,VP369,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 30 15:26:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9112.D\data.ms

(7) Trichlorofluoromethane ( )

3.707min (+0.006) 57.23ug/L m

response 208261

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	57.61
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:37 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.521	96	431130	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.617	117	325336	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.976	152	179540	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.101	65	67312	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.694	113	212270	89.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 179.18%#			
38) 1,2-Dichloroethane-d4	7.248	65	281084	97.91	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 195.82%#			
48) Toluene-d8	9.066	98	835450	106.40	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 212.80%#			
69) 4-Bromofluorobenzene	11.827	95	330069	100.86	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 201.72%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.614	85	222325	81.42	ug/L	96
3) Chloromethane	2.875	50	375868	100.38	ug/L	98
4) Vinyl Chloride	2.997	62	306562	109.76	ug/L	100
5) Bromomethane	3.374	94	208732	126.16	ug/L	99
6) Chloroethane	3.501	64	213048	132.62	ug/L	94
7) Trichlorofluoromethane	3.702	101	313520m	84.05	ug/L	
8) Ethyl Ether	3.970	59	253288	111.15	ug/L	95
9) 1,2-Dichlorotrifluoroe...	4.201	67	304706	108.61	ug/L	94
10) 1,1-Dichloroethene	4.243	61	368682	107.98	ug/L	97
11) Freon 113	4.286	101	237180	95.35	ug/L	92
12) Carbon Disulfide	4.322	76	802344	106.52	ug/L	96
13) Iodomethane	4.426	142	388187	90.41	ug/L	99
14) Methylene Chloride	4.864	49	480158	129.89	ug/L	94
15) Acetone	4.888	58	181798	676.96	ug/L #	81
16) Methyl acetate	5.004	74	212170	594.73	ug/L #	79
17) trans-1,2-Dichloroethene	5.022	61	374502	105.35	ug/L	97
18) Hexane	5.083	56	270134	106.51	ug/L	90
19) Methyl Tert Butyl Ether	5.125	73	795919	106.18	ug/L	96
20) Di-isopropyl ether	5.496	45	1118382	115.77	ug/L	95
21) 1,1-Dichloroethane	5.679	63	447067	106.50	ug/L	95
22) Acrylonitrile	5.727	53	582247	678.86	ug/L	96
23) ETBE	5.891	59	965124	108.38	ug/L	99
24) Vinyl acetate	5.891	43	2852469	746.90	ug/L	98
25) cis-1,2-Dichloroethene	6.238	96	253260	103.44	ug/L	98
26) 2,2-Dichloropropane	6.372	77	319056	89.34	ug/L	99
27) Bromochloromethane	6.451	128	126006	91.27	ug/L	88
28) Cyclohexane	6.475	56	541483	110.70	ug/L	94
29) Chloroform	6.506	83	428157	103.61	ug/L	97
30) Tetrahydrofuran	6.682	42	111337	136.55	ug/L	97
32) Carbon Tetrachloride	6.682	117	309314	86.44	ug/L	97
33) 1,1,1-Trichloroethane	6.749	97	356061	94.72	ug/L	94
34) 2-Butanone	6.804	43	861675	699.73	ug/L	92
35) 1,1-Dichloropropene	6.858	75	317689	105.05	ug/L	89
36) Benzene	7.114	78	946356	105.67	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:37 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) TAME	7.199	73	776992	105.76	ug/L		93
39) 1,2-Dichloroethane	7.314	62	341889	99.10	ug/L		95
40) Trichloroethene	7.692	95	235714	100.44	ug/L		94
41) Methylcyclohexane	7.698	83	440885	104.13	ug/L		96
42) Dibromomethane	8.117	93	151944	104.06	ug/L		92
43) 1,2-Dichloropropane	8.215	63	267088	108.95	ug/L		94
44) Bromodichloromethane	8.257	83	336999	103.22	ug/L		95
45) 2-Chloroethyl vinyl ether	8.792	63	668705	571.27	ug/L		92
46) cis-1,3-Dichloropropene	8.883	75	407494	104.60	ug/L		95
49) Toluene	9.121	91	1023366	112.62	ug/L		100
50) 2-Nitropropane	9.346	41	434264	712.66	ug/L		98
51) 4-Methyl-2-pentanone	9.467	43	1767982	763.64	ug/L		96
52) trans-1,3-Dichloropropene	9.516	75	389518	121.61	ug/L		96
53) Tetrachloroethene	9.510	166	251078	107.08	ug/L		95
54) 1,1,2-Trichloroethane	9.680	83	203413	124.09	ug/L		98
55) Dibromochloromethane	9.869	129	273203	108.76	ug/L		96
56) 1,3-Dichloropropane	9.960	76	406403	118.02	ug/L		87
57) 1,2-Dibromoethane	10.130	107	240390	111.59	ug/L		97
58) 2-hexanone	10.282	43	1274934	771.38	ug/L		94
59) 1-Chlorohexane	10.574	91	352455	105.76	ug/L		90
60) Ethylbenzene	10.635	91	1276871	119.65	ug/L		98
61) Chlorobenzene	10.635	112	708352	112.91	ug/L		91
62) 1,1,1,2-Tetrachloroethane	10.684	131	266549	107.95	ug/L		95
63) m,p-Xylene	10.775	91	1926521	240.08	ug/L		97
64) o-Xylene	11.219	91	1005723	118.39	ug/L		97
65) Styrene	11.267	104	806123	115.89	ug/L		97
66) Bromoform	11.316	173	230092	138.28	ug/L		98
67) Isopropylbenzene	11.523	105	1093884	115.81	ug/L		98
70) n-Propylbenzene	11.942	91	1615109	132.59	ug/L		97
71) Bromobenzene	11.955	156	345781	117.43	ug/L		100
72) 1,1,2,2-Tetrachloroethane	12.003	83	401792	150.60	ug/L		99
73) 1,3,5-Trimethylbenzene	12.131	105	1190539	123.32	ug/L		100
74) 2-Chlorotoluene	12.125	91	1124086	132.56	ug/L		99
75) trans-1,4-Dichloro-2-B...	12.192	53	112485	145.33	ug/L		96
76) 1,2,3-Trichloropropane	12.167	110	112524	132.93	ug/L		89
77) Cyclohexanone	12.234	55	61391	791.91	ug/L		94
78) 4-Chlorotoluene	12.295	91	998840	128.32	ug/L		100
79) tert-Butylbenzene	12.465	91	653315	127.87	ug/L		93
80) 1,2,4-Trimethylbenzene	12.532	105	1208919	124.82	ug/L		99
81) sec-Butylbenzene	12.648	105	1505028	127.22	ug/L		97
82) 4-Isopropyltoluene	12.788	119	1213816	127.13	ug/L		99
83) 1,3-Dichlorobenzene	12.903	146	694447	124.01	ug/L		97
84) 1,4-Dichlorobenzene	12.994	146	723434	123.87	ug/L		98
85) n-Butylbenzene	13.226	92	781610	141.97	ug/L		97
86) Benzyl Chloride	13.238	126	131494	101.69	ug/L	#	94
87) 1,2-Dichlorobenzene	13.426	146	679073	126.23	ug/L		96
88) 1,2-Dibromo-3-Chloropr...	14.180	75	65256	126.66	ug/L		92
89) Hexachlorobutadiene	14.734	225	206651	116.69	ug/L		94
90) 1,2,4-Trichlorobenzene	14.776	180	441116	117.31	ug/L		94
91) Naphthalene	15.056	128	930853	113.35	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:37 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.220	180	344359	104.72	ug/L	97
94) acrolein	4.584	56	181763	2044.89	ug/L	74
95) Tert Butyl Alcohol	5.186	59	333184	966.68	ug/L	86
96) tert Amyl alcohol	7.351	59	280526	1037.47	ug/L	94
97) 1,4-Dioxane	8.446	88	55451	1760.41	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

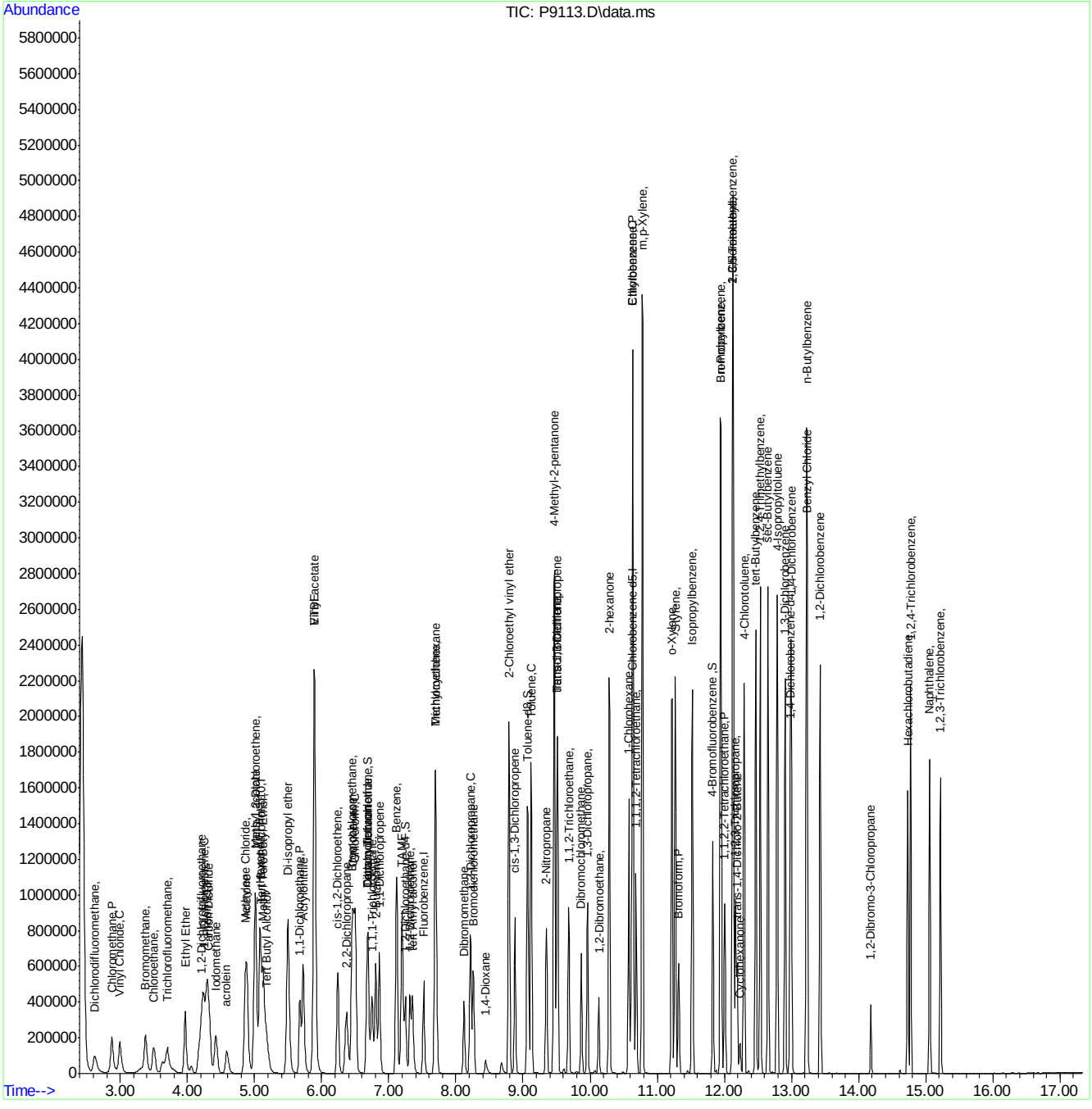
7.8.22

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:37 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

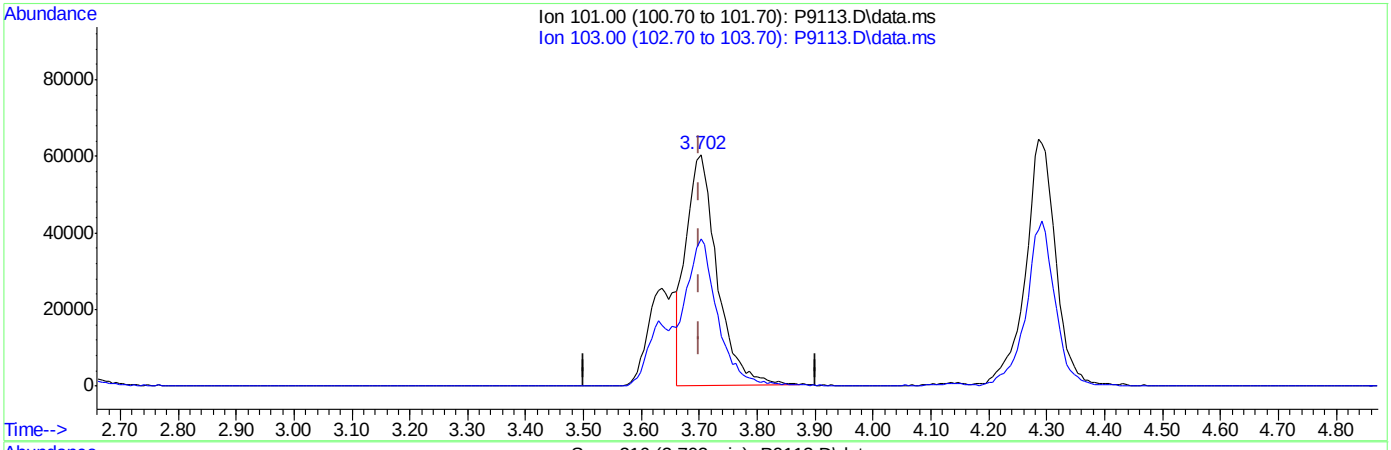
Sample Number:	VP369-IC369	**Method:**	SW846 8260B
Lab FileID:	P9113.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 15:32	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

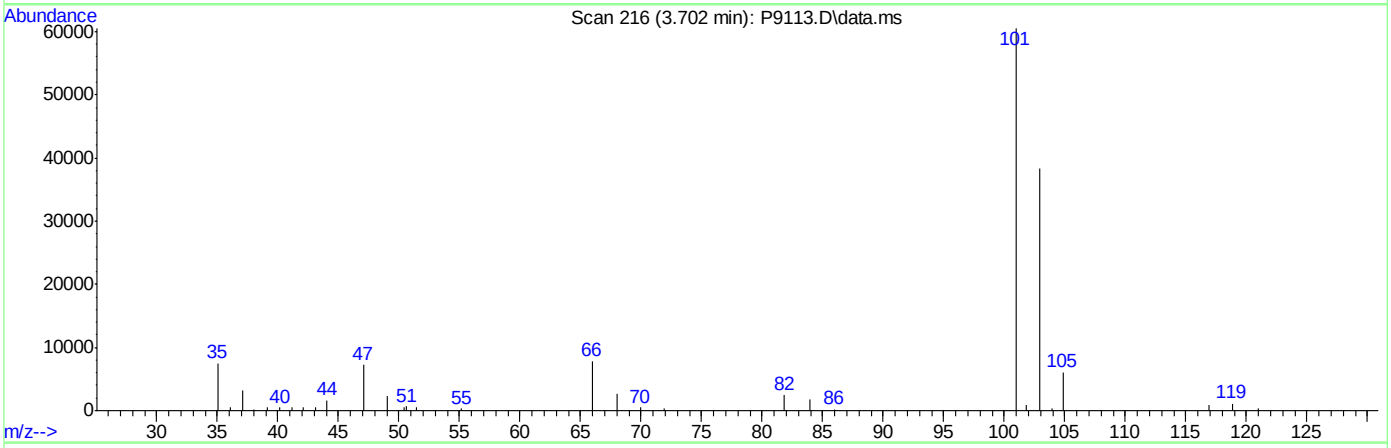
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.70	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:10 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9113.D\data.ms

(7) Trichlorofluoromethane ( )

3.702min (+0.001) 61.20ug/L

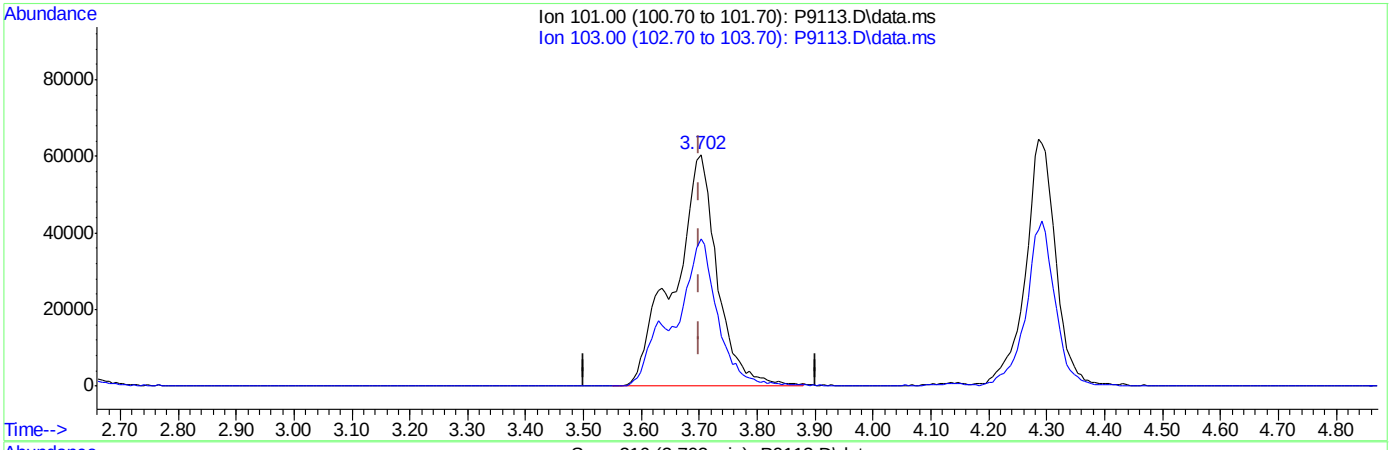
response 226473

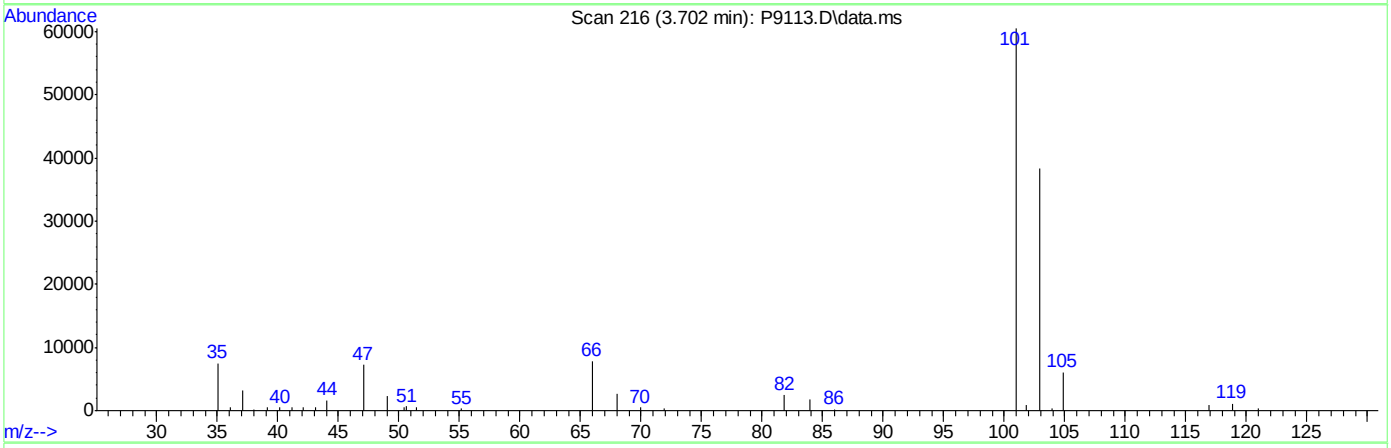
Ion	Exp%	Act%
101.00	100	100
103.00	59.30	63.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9113.D
Acq On : 30 Jul 2012 3:32 pm
Operator : EileenG
Sample : ic369-6
Misc : MS21485,VP369,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 30 15:51:10 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 16 14:11:03 2012
Response via : Initial Calibration





TIC: P9113.D\data.ms

(7) Trichlorofluoromethane ( )

3.702min (+0.001) 84.05ug/L m

response 313520

Ion	Exp%	Act%
101.00	100	100
103.00	59.30	63.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/31/12 13:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.516	96	414443	50.00	ug/L	0.00
47) Chlorobenzene-d5	10.611	117	304115	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4	12.977	152	167113	50.00	ug/L	0.00
93) Tert Butyl Alcohol-d10	5.101	65	62220	250.00	ug/L	0.00

System Monitoring Compounds						
31) Dibromofluoromethane	6.695	113	103589	51.19	ug/L	0.00
Spiked Amount 50.000	Range 87 - 116		Recovery = 102.38%			
38) 1,2-Dichloroethane-d4	7.242	65	137258	51.64	ug/L	0.00
Spiked Amount 50.000	Range 76 - 127		Recovery = 103.28%			
48) Toluene-d8	9.067	98	407157	51.36	ug/L	0.00
Spiked Amount 50.000	Range 86 - 112		Recovery = 102.72%			
69) 4-Bromofluorobenzene	11.827	95	152262	49.35	ug/L	0.00
Spiked Amount 50.000	Range 84 - 120		Recovery = 98.70%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.620	85	80358	37.52	ug/L	88
3) Chloromethane	2.864	50	136986	38.41	ug/L	96
4) Vinyl Chloride	2.991	62	113270	40.87	ug/L	94
5) Bromomethane	3.368	94	68151	37.98	ug/L	100
6) Chloroethane	3.502	64	68533	38.21	ug/L	91
7) Trichlorofluoromethane	3.691	101	118767m	42.97	ug/L	
8) Ethyl Ether	3.964	59	89567	38.49	ug/L	90
9) 1,2-Dichlorotrifluoroe...	4.195	67	110405	39.36	ug/L	98
10) 1,1-Dichloroethene	4.238	61	148679	45.22	ug/L	95
11) Freon 113	4.287	101	82996	36.59	ug/L	96
12) Carbon Disulfide	4.305	76	255087	34.66	ug/L	100
13) Iodomethane	4.420	142	133582	39.11	ug/L	100
14) Methylene Chloride	4.858	49	222502	46.70	ug/L	99
15) Acetone	4.883	58	50822	135.75	ug/L	87
16) Methyl acetate	4.998	74	76862	194.99	ug/L	95
17) trans-1,2-Dichloroethene	5.022	61	141156	39.60	ug/L	95
18) Hexane	5.077	56	94134	35.50	ug/L	93
19) Methyl Tert Butyl Ether	5.120	73	278861	38.76	ug/L	97
20) Di-isopropyl ether	5.497	45	394187	38.81	ug/L	98
21) 1,1-Dichloroethane	5.673	63	174051	42.71	ug/L	99
22) Acrylonitrile	5.722	53	227112	209.20	ug/L	99
23) ETBE	5.892	59	327845	38.16	ug/L	99
24) Vinyl acetate	5.892	43	1137779	212.68	ug/L	98
25) cis-1,2-Dichloroethene	6.239	96	93852	39.48	ug/L	96
26) 2,2-Dichloropropane	6.366	77	131455	45.81	ug/L	99
27) Bromochloromethane	6.452	128	44715	40.01	ug/L	93
28) Cyclohexane	6.476	56	184429	35.98	ug/L	97
29) Chloroform	6.506	83	164886	43.18	ug/L	99
30) Tetrahydrofuran	6.677	42	38293	36.88	ug/L	97
32) Carbon Tetrachloride	6.677	117	117274	40.35	ug/L	96
33) 1,1,1-Trichloroethane	6.750	97	136244	41.07	ug/L	98
34) 2-Butanone	6.804	43	290798	178.30	ug/L	97
35) 1,1-Dichloropropene	6.859	75	121169	42.54	ug/L	94
36) Benzene	7.114	78	351261	40.67	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) TAME	7.193	73	272079	39.27 ug/L	99
39) 1,2-Dichloroethane	7.315	62	133003	42.87 ug/L	98
40) Trichloroethene	7.686	95	87077	41.63 ug/L	96
41) Methylcyclohexane	7.698	83	154354	36.95 ug/L	97
42) Dibromomethane	8.118	93	57544	41.98 ug/L	98
43) 1,2-Dichloropropane	8.215	63	98946	40.63 ug/L	98
44) Bromodichloromethane	8.258	83	123051	41.62 ug/L	97
45) 2-Chloroethyl vinyl ether	8.787	63	258873	220.86 ug/L	99
46) cis-1,3-Dichloropropene	8.878	75	152221	42.04 ug/L	97
49) Toluene	9.121	91	381347	41.60 ug/L	99
50) 2-Nitropropane	9.346	41	156321	206.26 ug/L	97
51) 4-Methyl-2-pentanone	9.462	43	636511	199.62 ug/L	98
52) trans-1,3-Dichloropropene	9.510	75	146092	43.63 ug/L	97
53) Tetrachloroethene	9.510	166	93241	43.04 ug/L	93
54) 1,1,2-Trichloroethane	9.681	83	70651	38.43 ug/L	96
55) Dibromochloromethane	9.869	129	92903	38.46 ug/L	96
56) 1,3-Dichloropropane	9.960	76	143362	37.77 ug/L	97
57) 1,2-Dibromoethane	10.125	107	81909	38.17 ug/L	95
58) 2-hexanone	10.283	43	458138	200.00 ug/L	99
59) 1-Chlorohexane	10.575	91	121221	37.11 ug/L	98
60) Ethylbenzene	10.636	91	437316	38.40 ug/L	99
61) Chlorobenzene	10.629	112	245972	39.21 ug/L	99
62) 1,1,1,2-Tetrachloroethane	10.684	131	88965	38.08 ug/L	96
63) m,p-Xylene	10.775	91	666725	80.27 ug/L	99
64) o-Xylene	11.213	91	338599	36.93 ug/L	98
65) Styrene	11.262	104	243397	35.28 ug/L	97
66) Bromoform	11.317	173	67420	34.63 ug/L	96
67) Isopropylbenzene	11.523	105	416713	44.08 ug/L	99
70) n-Propylbenzene	11.943	91	510463	35.57 ug/L	99
71) Bromobenzene	11.949	156	106999	34.84 ug/L	97
72) 1,1,2,2-Tetrachloroethane	12.004	83	113031	30.01 ug/L	96
73) 1,3,5-Trimethylbenzene	12.125	105	355822	34.79 ug/L	96
74) 2-Chlorotoluene	12.125	91	343020	35.74 ug/L	99
75) trans-1,4-Dichloro-2-B...	12.186	53	34181	39.05 ug/L	93
76) 1,2,3-Trichloropropane	12.162	110	33182	32.54 ug/L	90
77) Cyclohexanone	12.229	55	22719	208.98 ug/L	94
78) 4-Chlorotoluene	12.290	91	315689	35.81 ug/L	96
79) tert-Butylbenzene	12.466	91	203810	33.47 ug/L	97
80) 1,2,4-Trimethylbenzene	12.533	105	359936	34.40 ug/L	99
81) sec-Butylbenzene	12.648	105	466545	35.31 ug/L	99
82) 4-Isopropyltoluene	12.782	119	372850	35.45 ug/L	99
83) 1,3-Dichlorobenzene	12.904	146	209999	33.84 ug/L	98
84) 1,4-Dichlorobenzene	12.989	146	216152	32.81 ug/L	97
85) n-Butylbenzene	13.220	92	227208	31.60 ug/L	100
86) Benzyl Chloride	13.238	126	48399	42.59 ug/L #	61
87) 1,2-Dichlorobenzene	13.427	146	202271	33.34 ug/L	98
88) 1,2-Dibromo-3-Chloropr...	14.181	75	21540	33.32 ug/L	98
89) Hexachlorobutadiene	14.734	225	74605	36.73 ug/L	98
90) 1,2,4-Trichlorobenzene	14.777	180	151842	35.16 ug/L	97
91) Naphthalene	15.057	128	338384	35.09 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,3-Trichlorobenzene	15.221	180	134155	35.81 ug/L	100
94) acrolein	4.579	56	42599	124.52 ug/L	95
95) Tert Butyl Alcohol	5.174	59	124245	408.97 ug/L	95
96) tert Amyl alcohol	7.352	59	99962	406.01 ug/L	98
97) 1,4-Dioxane	8.440	88	21066	828.97 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

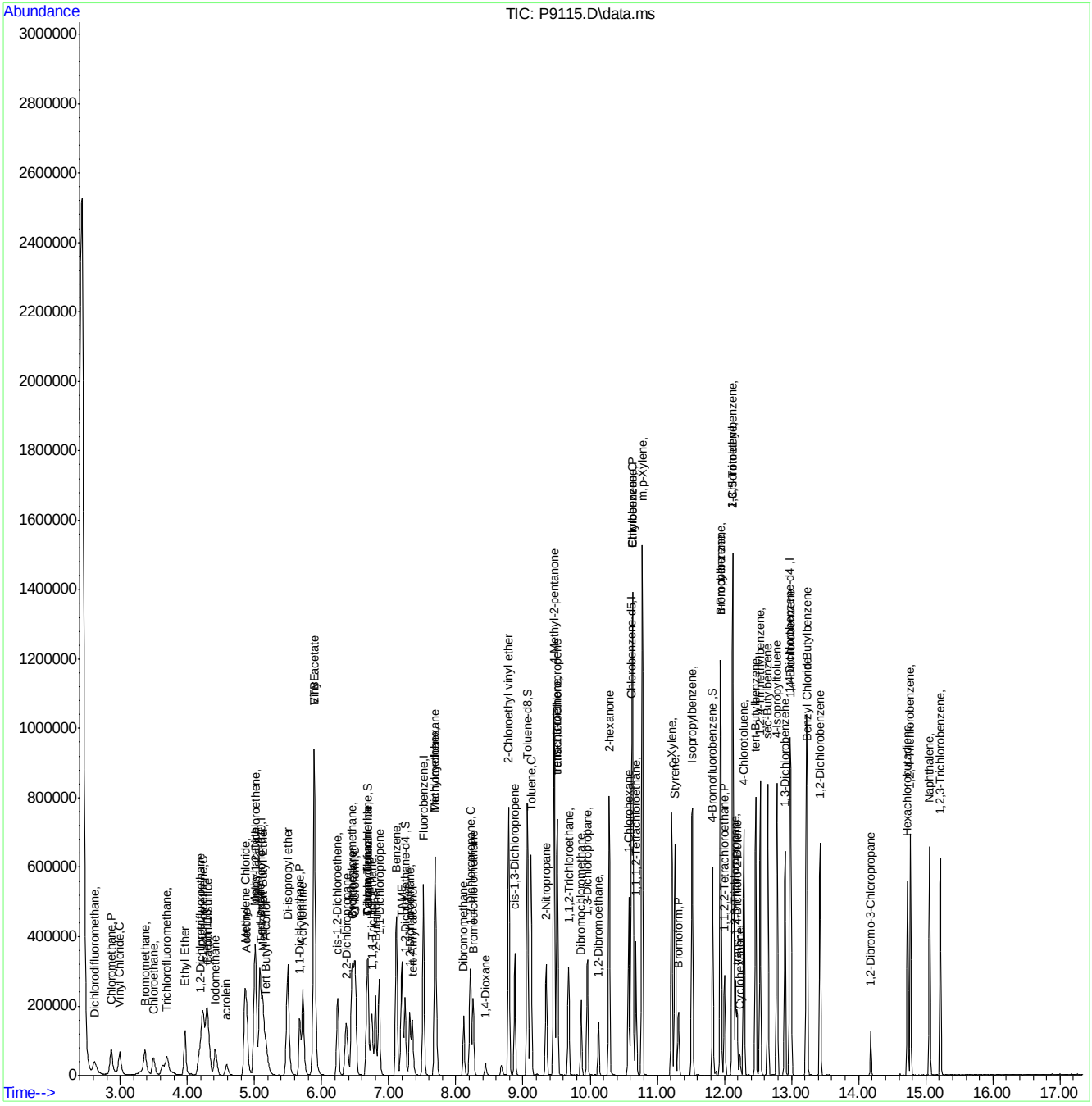
7.8.23

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:35 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration



Manual Integration Approval Summary

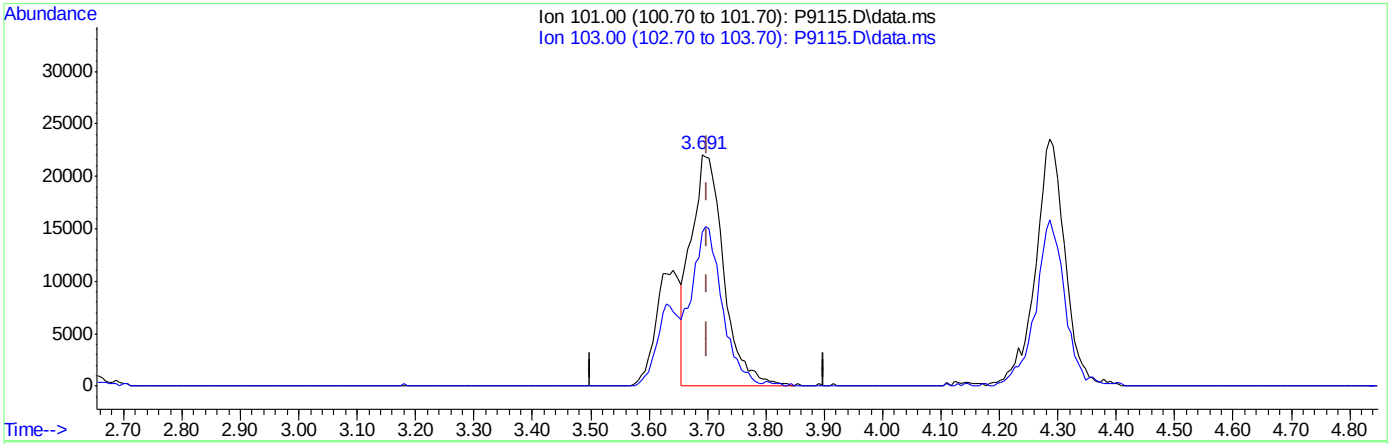
Sample Number:	VP369-ICV369	**Method:**	SW846 8260B
Lab FileID:	P9115.D	**Analyst approved:**	07/31/12 10:13 Karen Watson
Injection Time:	07/30/12 16:19	**Supervisor approved:**	07/31/12 13:45 Juan Garcia

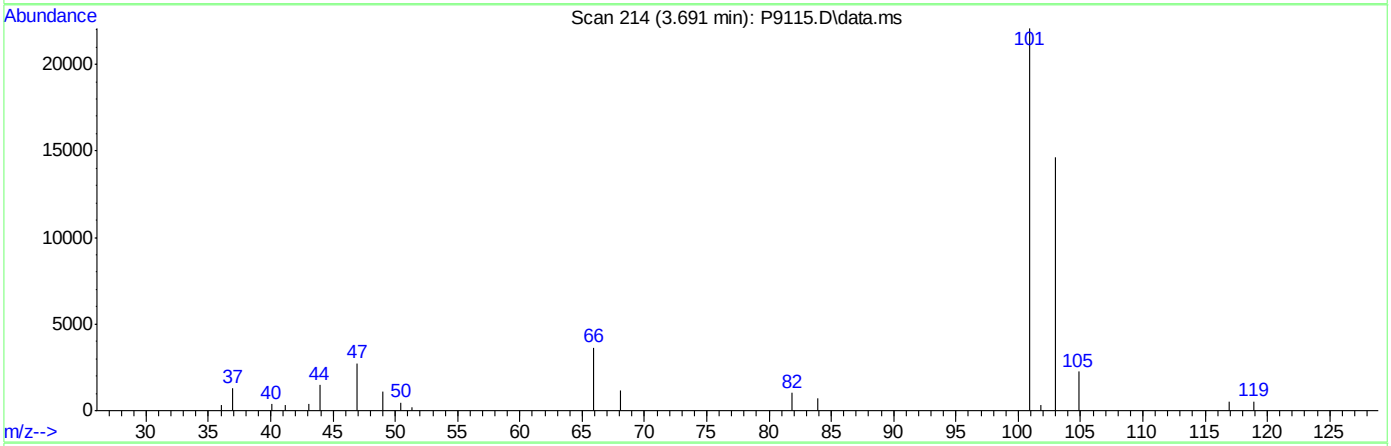
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.69	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:38:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 31.21ug/L

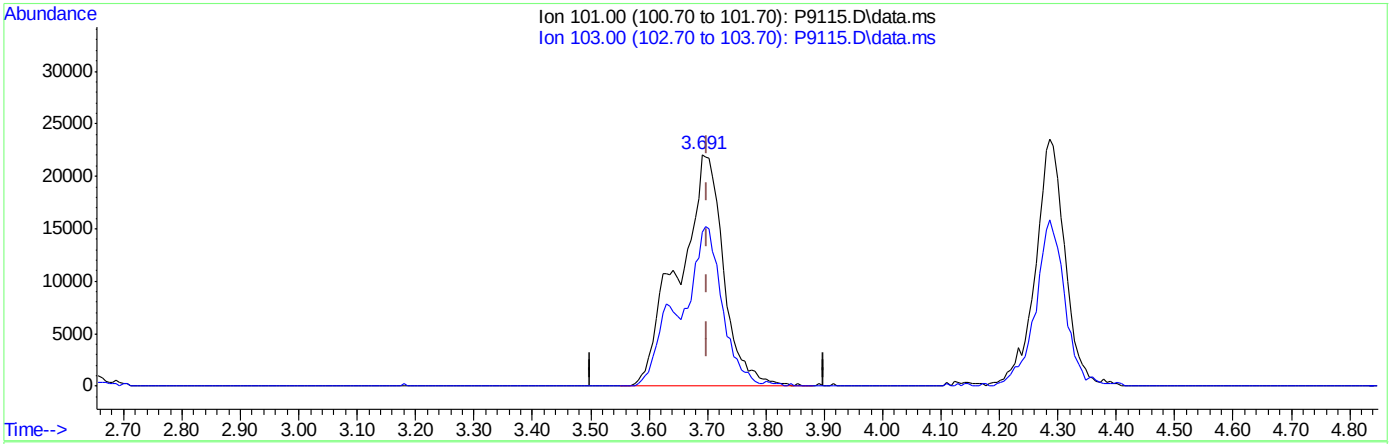
response 86265

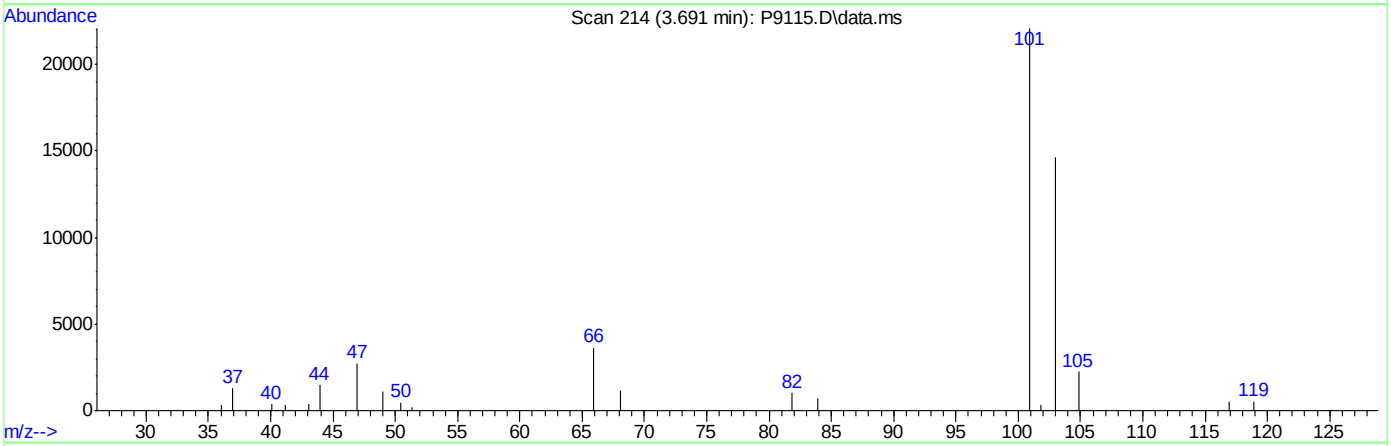
Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:38:24 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 42.97ug/L m

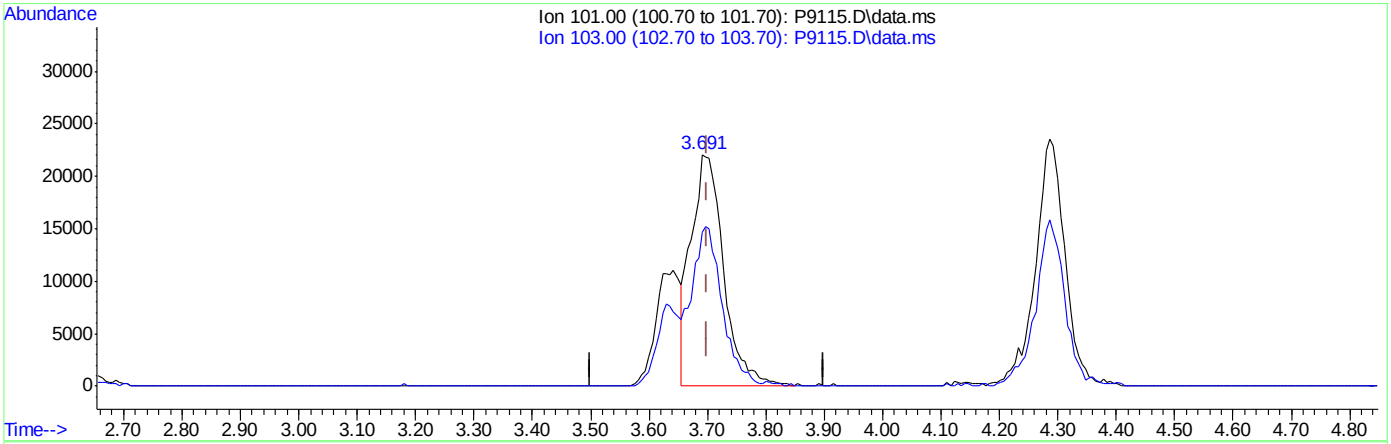
response 118770

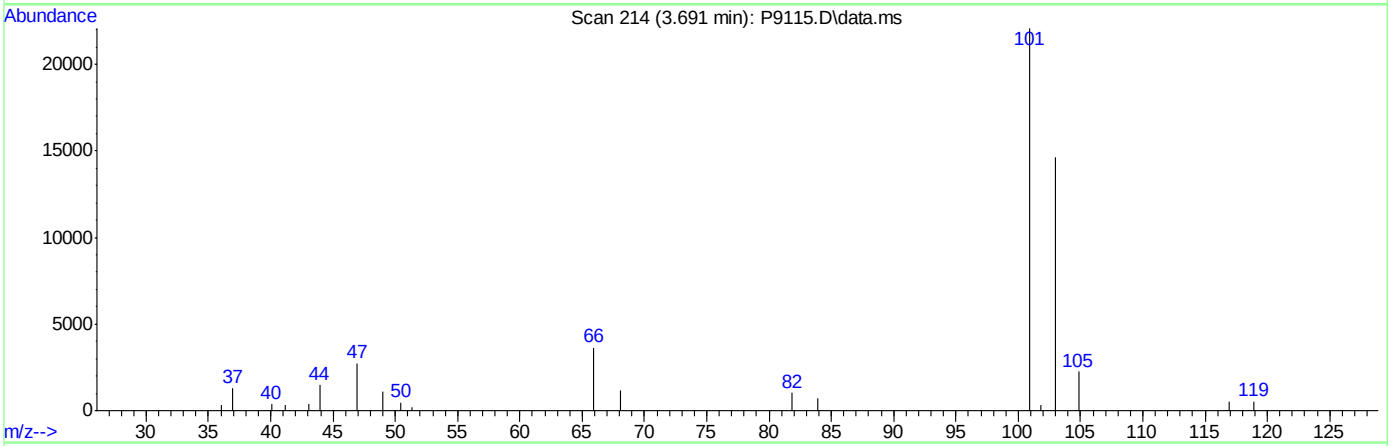
Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:43:26 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:43:18 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 31.21ug/L

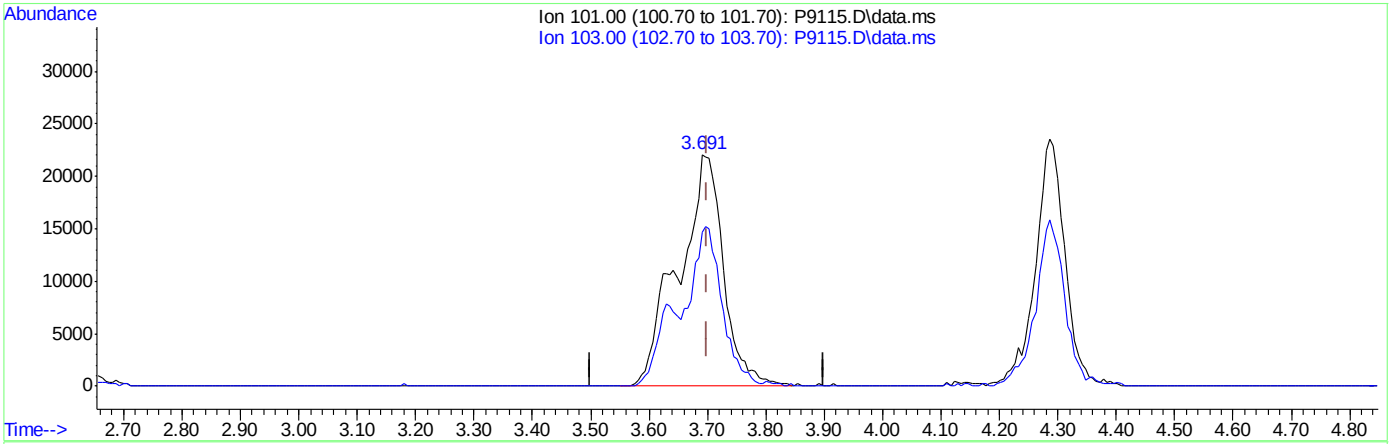
response 86265

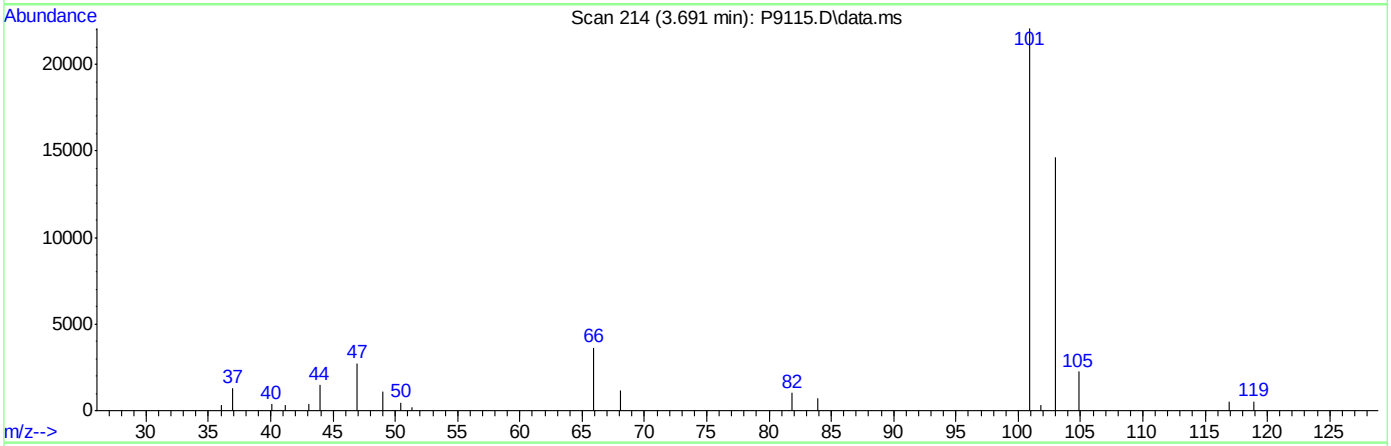
Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:43:26 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:43:18 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 42.94ug/L m

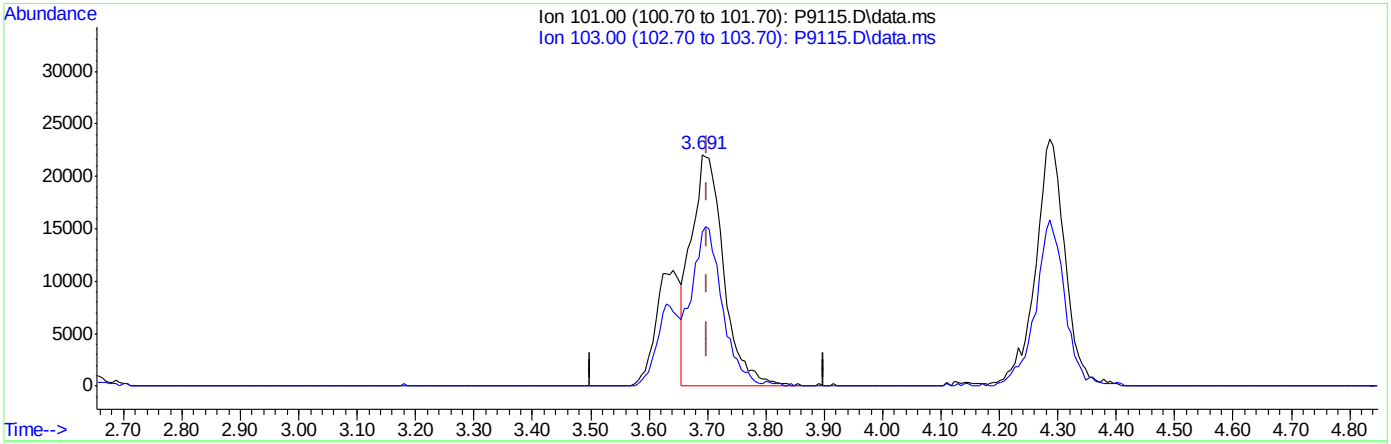
response 118697

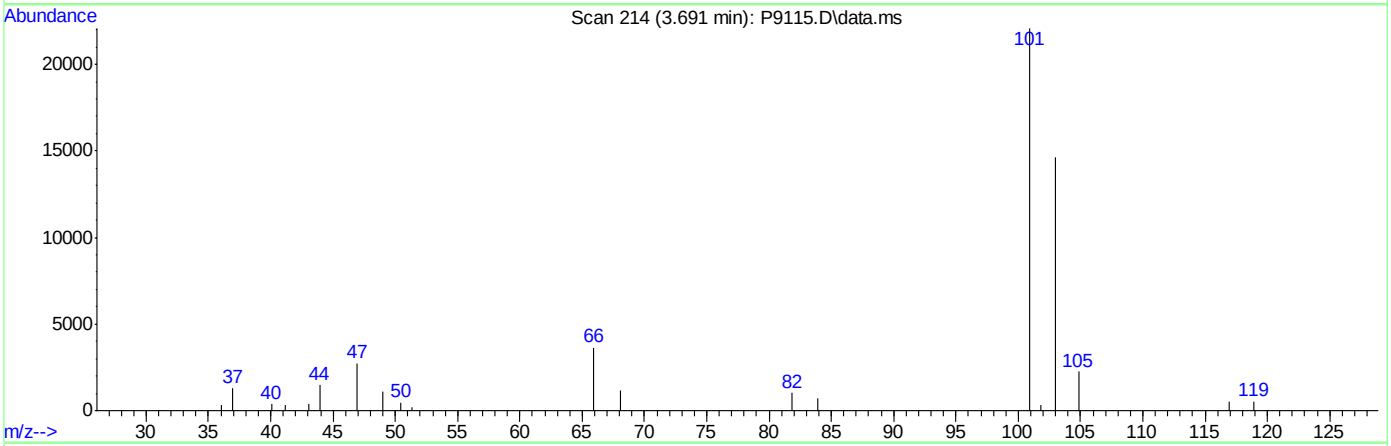
Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:19 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 31.21ug/L

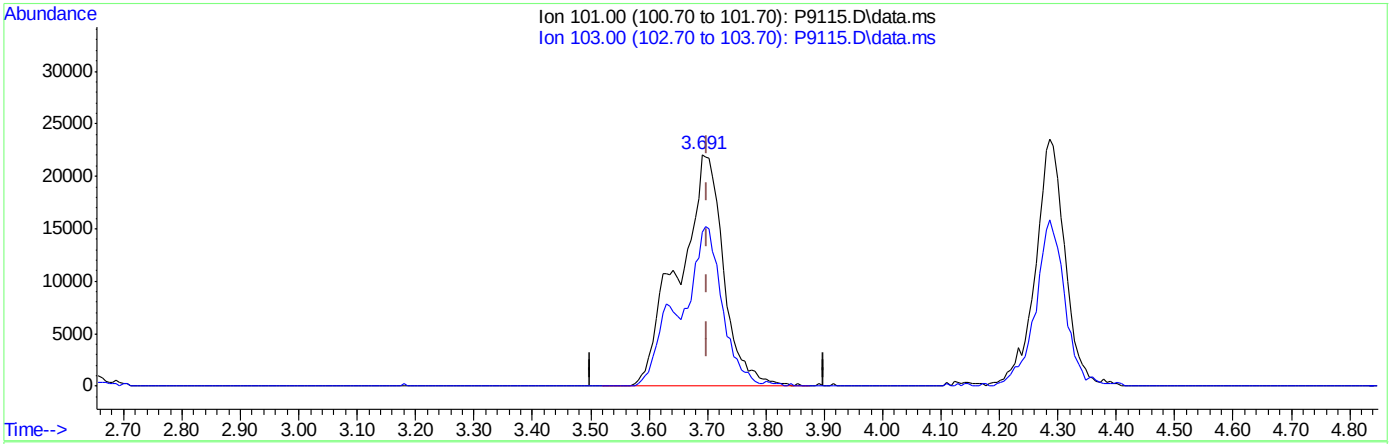
response 86265

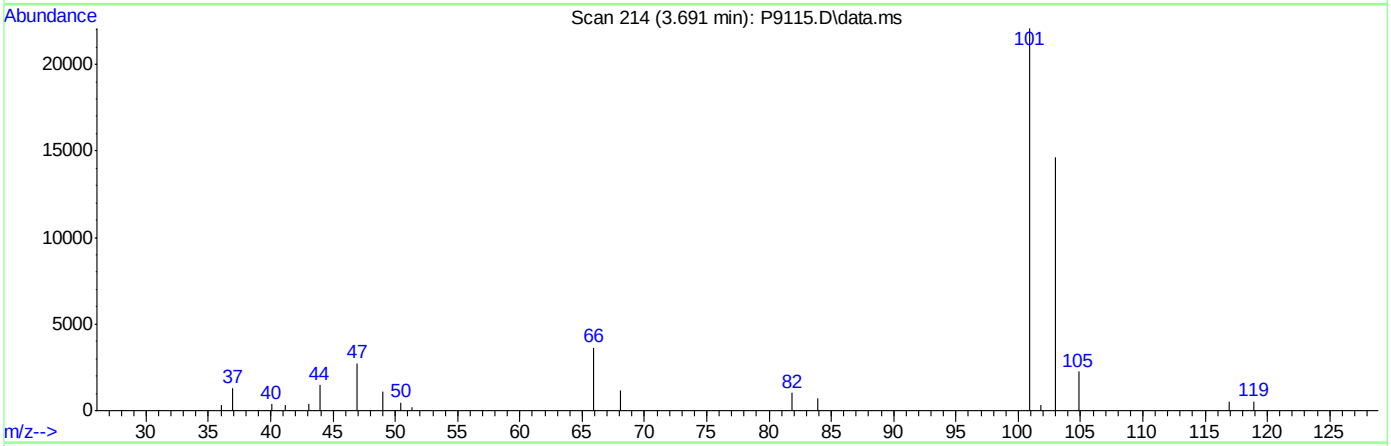
Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\073012\
Data File : P9115.D
Acq On : 30 Jul 2012 4:19 pm
Operator : EileenG
Sample : icv369-4
Misc : MS21485,VP369,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 30 16:45:19 2012
Quant Method : C:\msdchem\1\METHODS\8260P.m
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jul 30 16:00:56 2012
Response via : Initial Calibration





TIC: P9115.D\data.ms

(7) Trichlorofluoromethane ( )

3.691min (-0.010) 42.97ug/L m

response 118767

Ion	Exp%	Act%
101.00	100	100
103.00	61.80	66.27
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST LABORATORIES SE

DATE:	7-27-12
COLUMN TYPE:	RTX 624
DETECTOR:	5970 MSD
INSTRUMENT:	MSVOA2-H
PURGE PRESSURE:	20
ANALYST:	[illegible]

MS VOA2-H ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	072712 AAQS-H
CALIB. DATE:	07-27-12
EM VOLTAGE:	1953
BFB RESPONSE:	9637110
RUN ID:	VH 2862

STANDARDS

BFB:	V14382
ICAL/CCV:	V14458, V14367, V14414, V14397A, V14438A
ISTD/SURR:	V14413, V14416
ICV/QC:	V14459, V14368, V14415, V14398A, V14439A
STD B:	250 µg/mL = 75 µL each/24 mL
METHANOL LOT #:	K086-01

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
H	D0077059	BFB	—	—	—	—	—	—		—	STD A = 250 µg/mL = 60 µL each/24 mL
H	060	IC2862-1	—	—	—	—	1	—		—	0.1 mL STD A/5 mL Surr = 50 (0.5 mL)
H	061	IC2862-2	—	—	—	—	2	—		—	0.2 mL STD A/5 mL Surr = 70 (2 mL)
H	062	IC286-3	—	—	—	—	3	—		—	0.4 mL STD A/5 mL Surr = 90 (4 mL)
H	063	IC286-4 [illegible] 7-27-12	—	—	—	—	4	—		—	1 mL STD A/5 mL Surr = 50 (0.5 mL)
H	064	~~IC286~~ FCC2862-5	—	—	—	—	5	—		—	2 mL STD A/5 mL Surr = 100 (5 mL)
H	065	IC2862-6	—	—	—	—	6	—		—	3 mL STD A/5 mL Surr = 150 (10 mL)
H	066	IC2862-7	—	—	—	—	7	—		—	4 mL STD A/5 mL Surr = 200 (15 mL)
H	067	ICV2862-4	—	—	—	—	8	—		—	1 mL STD B/5 mL
H	068	BS	—	—	—	—	9	—		—	1 mL STD B/5 mL
H	069	MB	—	—	—	—	10	—		—	
H	070	F95274-1	R1900	S	7.18	—	11	PT	DOD	—	
H	071	-2	R1902	S	5.29	—	12	PT		—	
H	072	-3	R1905	S	6.54 [illegible] 7-27-12		13	PT		—	
H	073	-4	R1909	S	~~1409~~ 9.31	—	14	PT		—	
H	074	-5	R1912	S	5.18	—	15	PT		—	
H	075	-6	R1915	S	6.30	—	16	PT		—	
H	076	-4MS	—	S	5.12	—	17	—		—	1 mL STD B added to vial
H	077	-4MSD	—	S	5.12	—	18	—		—	" " " " "
H	078	F95273-1	R1855	S	9.15	—	19	PT		—	
H	079	-3	R1861	S	11.66	—	20	PT		—	
H	080	-4	R1864	S	10.20	—	21	PT		—	
H	081	-5	R1867	S	8.18	—	22	PT		—	
H	082	-6	R1869	S	7.95	—	23	PT		—	
H	083	-7	R1873	S	8.89	—	24	PT	RR	SS2↑	
H	084	-8	R1876	S	9.67	—	25	PT	RR	ISTD 3,4↓	
H	085	-9	R1879	S	8.84	—	26	PT		—	

1691

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [illegible]

msvoa2_h_log.xls NF 08/10

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1838	F95261-1	M	29.28	34.16	4.88	7-26-12	8:55	MJ	PT	IN, Frozen 7-25-12, 8:45
39	F95261-2	W	30.98	37.31	6.33					
40	-2	W	30.88	37.06	6.18					
41	-2	M	29.27	34.97	5.70					
42	F95261-3	W	30.95	37.14	6.19					
43	-3	W	30.99	37.29	6.30					
44	-3	M	29.45	35.56	6.11					
45	F95261-4	W	30.88	36.41	5.53					
46	-4	W	30.90	36.50	5.60		9:05			
47	-4	M	29.27	35.81	6.54		10:40			IN, Rush
48	F95270-1	W	30.91	38.29	7.38					
49	-1	W	30.91	38.05	7.14					
50	-1	M	29.27	35.82	6.55					
51	F95270-2	W	30.93	38.62	7.69					
52	-2	W	30.71	38.43	7.72		10:44			
53	-2	M	29.32	36.93	7.61		11:12			IN
54	F95273-1	W	30.65	40.26	9.61					
55	-1	W	30.78	39.93	9.15					
56	-1	M	29.33	38.27	8.94					
57	F95273-2	W	30.78	39.73	8.95					
58	-2	W	30.60	40.08	9.48					
59	-2	M	29.47	40.57	11.10					
R1860	F95273-3	W	30.83	40.55	9.72		11:17			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1861	F95273-3	W	30.71	42.37	11.66	7-26-12	11:17	MJ	PT	IN
62	-3	M	29.55	38.84	9.29					
63	F95273-4	W	30.58	39.02	8.44					
64	-4	W	30.61	40.81	10.20					
65	-4	M	29.42	37.23	7.81					
66	F95273-5	W	30.83	38.37	7.54					
67	-5	W	30.65	38.83	8.18					
68	-5	M	29.51	38.65	9.14					
69	F95273-6	W	30.70	38.65	7.95					
70	-6	W	30.69	37.39	6.70					
71	-6	M	29.61	37.18	7.57					
72	F95273-7	W	30.79	39.63	8.84					
73	-7	W	30.86	39.75	8.89					
74	-7	M	29.65	40.42	10.77					
75	F95273-8	W	30.71	40.22	9.51					
76	-8	W	30.65	40.32	9.67					
77	-8	M	29.79	37.46	7.67					
78	F95273-9	W	30.84	38.63	7.79					
79	-9	W	30.68	39.52	8.84					
80	-9	M	29.56	37.26	7.70					
81	F95273-10	W	30.80	39.45	8.65					
82	-10	W	30.59	38.38	7.79					
R1883	-10	M	29.38	37.12	7.74		11:35			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1884	F95273-11	W	30.69	38.92	8.23	7-26-12	11:37	MJ	PT	IN
85	-11	W	30.58	40.37	9.79					
86	-11	M	29.50	37.83	8.33					
87	F95273-12	W	30.62	38.95	8.33					
88	-12	W	30.65	38.46	7.81					
89	-12	M	29.66	37.40	7.74					
90	F95273-13	W	30.80	42.16	11.36					
91	-13	W	30.53	42.44	11.91					
92	-13	M	29.45	39.94	10.49					
93	F95273-14	W	30.85	39.09	8.24					
94	-14	W	30.65	40.45	9.80					
95	-14	M	29.38	37.32	7.94					
96	F95273-16	W	30.89	30.92	0.03					TB
97	-16	W	30.67	30.55	0.12					
98	-16	M	29.62	29.53	0.09					
99	F95274-1	W	30.20	36.59	6.39					
R1900	-1	W	30.36	37.54	7.18					
01	-1	M	29.00	35.71	6.71					
02	F95274-2	W	30.39	35.68	5.29					
03	-2	W	30.40	35.28	4.88					
04	-2	M	29.20	33.80	4.60					
05	F95274-3	W	30.25	36.79	6.54					
R1906	-3	W	30.50	36.84	6.34		12:00			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

BALANCE ID: NAV 4

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1907	F95274-3	M	29.17	34.71	5.54	7-26-12	12:00	MJ	PT	IN
08	F95274-4	W	30.38	36.59	6.21					
09	-4	W	30.20	37.51	7.31					
10	-4	M	29.00	33.58	4.58					
11	F95274-5	W	30.39	36.26	5.87					
12	-5	W	30.26	35.44	5.18					
13	-5	M	29.36	35.98	6.62					
14	F95274-6	W	30.35	35.48	5.13					
15	-6	W	30.32	36.62	6.30		12:07			Presv. ($NaHSO_4$)
16	-6	M	29.10	35.51	6.41		12:17			
17	F95275-1	W	31.36	36.64	5.28					
18	-1	W	31.35	36.46	5.11					
19	-1	M	29.28	33.83	4.55					
20	F95275-2	W	31.75	36.85	5.10					
21	-2	W	31.50	36.90	5.40					
22	-2	M	29.44	34.48	5.04					
23	F95275-3	W	31.52	35.40	3.88					
24	-3	W	31.36	36.93	5.57					
25	-3	M	29.45	34.34	4.89					
26	F95275-4	W	31.38	36.84	5.46					
27	-4	W	31.53	36.08	4.55					
28	-4	M	29.31	34.00	4.69					
R1929	F95275-5	W	31.54	36.76	5.22		12:26			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	07/16/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURPOSE PRESSURE:	9.8 psi
ANALYST:	Eileen G.

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/16/12
EM VOLTAGE:	1365
BFB RESPONSE:	2177491
RUN ID:	VP 354

STANDARDS

BFB:	V14382D
ICAL/CCV:	V14364A V14432 V14442
	V14369 surr mix
ISTD/SURR:	V14436
ICV/QC:	V14398B V14417 V14437
Purge Volume:	5mL

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P 8749	BFB	–	–	–	BFB		–	–		2ul inj. pass autofind
P 50	IC 354-1		W	1	8260	SP#7,9				(5ul→100mL)→10mL→50mL
P 51	2			2		SP#7				(5ul→100mL)→50mL + 15ul surr
P 52	3			3		SP#7				10ul→50mL + 15ul surr
P 53	ICC 354-4			4		SP#7				20ul→50mL
P 54	-5			5		SP#7				35ul→50mL + 20ul surr
P 55	-6			6		SP#7				50ul→50mL + 25ul surr
P 56	Blank			7			–	–		CO #89,90,91,92,97
P 57	ICV 354-4			8		SP#7				25ul→50mL
P 58	Blank			9						CO 89,92
P 59	BS			10						12.5ul→40mL
P 60	Blank			11						CO 89,92
P 61	MB			12						NO ✓
P 62	F89617-1G			13		SP#10,7 MP84				2ul→500mL
P 63	-2G			14		SP#2,7,11 MP32,84				25mL STD 2ppb→50mL
P 64	-3G			15		SP#18 MP84				10ul→500mL
P 65	Blank			16						NO ✓
P 66	F94635-1	2		17			1	N		NO
P 67	-2	2		18			1	N		NO
P 68	-3	2		19			1	N		✓
P 69	-5	2		20			1	N		NO
P 70	-6	2		21			1	N		✓
P 71	-7	2		22			1	N		✓
P 72	F94798-1	1		23			1	N		✓
P 73	-2	1		24			1	N		✓
P 74	F94747-2	1		25			1	N		NO ✓
P* 75	F94635-1MS	3		26		SP#7	1	N		✓ 12.5ul→40mL
76	~~F94635-1MSD~~ 07/16/12	3		26		SP#7	1	N		✓
77	Blank		W	27	8260					NO ✓
78	Blank			1						✓
79	Blank			2						NO ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa13_p_log.xls NF 07/11

Analyst's Signature: Cynthia

ACCUTEST LABORATORIES F95274

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7 psi
ANALYST:	Eileen G.

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/16/12
EM VOLTAGE:	1400
BFB RESPONSE:	1875685
RUN ID:	VP 366, 367 TCLP 368

STANDARDS

BFB:	V14382D		
ICAL/CCV:	V14451A	V14432	V14486
ISTD/SURR:	V14436		
ICV/QC:	V14452B	V14417	V14468
Purge Volume:	5mL		

	DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P	9064	Blank	—	W	1	8260		—	—		X #31↓
P	65	Blank	↓	↓	2	↓					✓ adj. Em Voltage ↑
P	66	BFB	—	—	—	BFB					2 ulings. pass autogen
P	67	CC354-4		W	1	8260	SP#7				20ul → 50mL surr 38↑
P	68	BS			2		SP#7				12.5ul → 40ml
P	69	~~Blank~~ 24 07/26/12 MB			3						✓ CO 92
P	70	Blank	↓		4			↓	↓	X	SS #38↑
P	71	F95259-5 TB	1	↓	5			1	N		NO✓
P	72	F95305-2 TB	2	TCLP	6			1	N		NO✓
P	73	F95191-1	3	W	7			1	N		✓
P	74	F95190-1, 10x	3	↓	8			1	N		✓
P	75	F95259-1, 100x	2	W	9			1	N		✓
P	76	-2, 10x	2		10			1	N		✓
P	77	-3, 250x	2		11			1	N		✓
P	78	-4, 50x	2		12			1	N	20x	
P	79	F95190-1MS, 10x	3		13		SP#7	1	N		✓ 12.5ul → 40ml
P	80	-1MSD, 10x	3		13		SP#7	1	N		✓ ↓
P	81	F95204-5	2		14			1	N		NO
P	82	F95293-2, 250x	2	↓	15			1	N		✓
P	83	BS, 10x	—	TCLP	16		SP#7	6	N		✓ 12.5ul → 40ml
P	84	Blank			17			6	N		MeCl2 present
P	85	OP42837-LB, 10x			18			6	N		✓
P	86	F95305-1, 10x			19			6	N		✓
P	87	-1dup, 10x			20			6	N		✓ surr ↑ 38
P	88	F95236-1, 10x AFA			21			6	N		✓
P	89	F95225-2, 10x			22			6	N		✓ surr ↑ 38
P	90	-3A, 10x	↓	↓	23	↓		6	N		✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa13_p_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7psi
ANALYST:	Eileen G.

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/16/12
EM VOLTAGE:	1400
BFB RESPONSE:	1875685
RUN ID:	VP 366, 367, 368

STANDARDS

BFB:	V14382D V14486
ICAL/CCV:	V14451A V14432 ~~V14454~~ EG 07/28/12
ISTD/SURR:	V14436
ICV/QC:	V14452B V14417 V14468
Purge Volume:	5mL

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX TCLP	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P 91	F95274-7A, 10x		EG 07/26/12	24	8260		6	N	10x	Surr #38
P 92	-7AMS, 10x		TCLP	25		SP#7	6	N		✓
P 93	-7AMSD, 10x			25~~26~~		SP#7	6	N	10x	Surr #38
P 94	Blank		W	26~~27~~			–	–		✓ MeCl present
P 95	aqa blank		W	27			–	–		✓
P 96	Blank		W	1			–	–		✓
P 97			W	2			–	–		ND ✓
P										
P										
P										
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P										
P										

EG 07/30/12

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: Cgrabowski

msvoa13_p_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7 psi
ANALYST:	Eileen G.

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/16/12
EM VOLTAGE:	1400
BFB RESPONSE:	1875685
RUN ID:	VP 366, 367 TCLP 368

STANDARDS

BFB:	V14382D		
ICAL/CCV:	V14451A	V14432	V14486
ISTD/SURR:	V14436		
ICV/QC:	V14452B	V14417	V14468
Purge Volume:	5mL		

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P 9064	Blank	—	W	1	8260		—	—		X #31↑
P 65	Blank	↓	↓	2	↓					✓ adj. Em Voltage ↑
P 66	BFB	—	—	—	BFB					2 ulinj. pass autogind
P 67	CC354-4		W	1	8260	SP#7				20ul→50mL surr 38↑
P 68	BS			2		SP#7				125ul→40ml
P 69	~~Blank~~ 07/28/12 MB			3						✓CO 92
P 70	Blank	↓		4			↓	↓	X	SS#38↑
P 71	F95259-5 TB	1	↓	5			1	N		NO✓
P 72	F95305-2 TB	2	TCLP	6			1	N		NO✓
P 73	F95191-1	3	W	7			1	N		✓
P 74	F95190-1, 10x	3	↓	8			1	N		✓
P 75	F95259-1, 100x	2	W	9			1	N		✓
P 76	-2, 10x	2		10			1	N		✓
P 77	-3, 250x	2		11			1	N		✓
P 78	-4, 50x	2		12			1	N	20x	
P 79	F95190-1MS, 10x	3		13		SP#7	1	N		✓ 12.5ul→40ml
P 80	-1MSD, 10x	3		13		SP#7	1	N		✓ ↓
P 81	F95204-5	2		14			1	N		NO
P 82	F95293-2, 250x	2	↓	15			1	N		✓
P 83	BS, 10x	—	TCLP	16		SP#7	6	N		✓ 12.5ul→40ml
P 84	Blank			17			6	N		MeCl2 present
P 85	OP42837-LB, 10x			18			6	N		✓
P 86	F95305-1, 10x			19			6	N		✓
P 87	-1dup, 10x			20			6	N		✓ surr↑38
P 88	F95236-1, 10x AFA			21			6	N		✓
P 89	F95225-2, 10x			22			6	N		✓ surr↑38
P 90	-3A, 10x	↓	↓	23	↓		6	N		✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: Elyshaslin

msvoa13_p_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7psi
ANALYST:	Eileen G

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/16/12
EM VOLTAGE:	1400
BFB RESPONSE:	1875685
RUN ID:	VP 366, 367, 368

STANDARDS

BFB:	V14382D V14486
ICAL/CCV:	V14451A V14432 ~~V14454~~ EG 07/28/12
ISTD/SURR:	V14436
ICV/QC:	V14452B V14417 V14468
Purge Volume:	5mL

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P 91	F95274-7A, 10x	T	TCLP EG 07/26/12	24	8260		6	N	10x	Surr #38
P 92	-7AMS, 10x		TCLP	25		SP#7	6	N		✓
P 93	-7AMSD, 10x			25~~26~~		SP#7	6	N	10x	Surr #38
P 94	Blank		W	26~~27~~			–	–		✓ MeCl2 present
P 95	aqa blank		W	27			–	–		✓
P 96	Blank		W	1			–	–		✓
P 97			W	2			–	–		ND ✓
P										
P										
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P										
P										

EG 07/30/12

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: Eileen Gruchowski

msvoa13_p_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	07/30/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7psi
ANALYST:	Eileen G.

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/30/12
EM VOLTAGE:	1329
BFB RESPONSE:	970882
RUN ID:	VP 369, 370

STANDARDS

BFB:	V14382D		
ICAL/CCV:	V14451A	~~V14437~~	V14486
		V14470	~~V14398~~ sum mix
ISTD/SURR:	V14491	24 07/30/12	V14494
ICV/QC:	V14452B	~~V14447~~ ~~V14468~~	
Purge Volume:	5mL	V14464	V14489

24 07/30/12

	DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P	9098	BFB				BFB					2ul inj. 176↓ fail
P	99	BFB									pass autofind
P	100	CC354-4		W	1	8260	SP#7				✓ 20ul→50ml #38↑ BFB tune
P	101	BFB				BFB					2ul inj. 176↑ fail
P	2	BFB									176↑ fail edit param ↓
P	3	BFB									176↑ fail edit param ↓
P	4	BFB									pass autofind
P	5	CC354-4		W	1	8260	SP#7				✓ 20ul→50ml #38↑ tune BFB tune
P	6	Blank			2						✓
P	7	BFB		—	—	BFB					2ul inj. pass autofind
P	8	IC369-1		W	1	8260	SP#4,7,9S MP84				(5ul→100ml)→10ml→50ml
P	9	2			2		SP#7				(5ul→100ml)→50ml + 10ul sum
P	10	3			3		SP#7				10ul→50ml + 15ul sum
P	11	ICC369-4			4		SP#7				20ul→50ml
P	12	-5			5		SP#7				35ul→50ml + 20ul sum
P	13	-6			6		SP#7				50ul→50ml + 25ul sum
P	14	Blank			7						NaCl present CO89,90,91,92
P	15	ICV369-4			8		SP#7				25ul→50ml
P	16	Blank			9						NaCl present CO92
P	17	BS			10		SP#7				✓ 12.5ul→40ml
P	18	Blank			11						
P	19	MB			12						ND
P	20	F95357-2 TB	1		13			1	N		✓
P	21	F95212-4, 10X	3		14			1	N		✓
P	22	BS			15						✓ 12.5ul→40ml w/ V14417
P	23	BS, 10x		TCLP	16 ~~15~~ 7/30/12						✓
P	24	Blank		W	17 ~~16~~						

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature:

msvoa13_p_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	07/30/12
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA13-P
PURGE PRESSURE:	9.7 psi
ANALYST:	Eileen G

MS VOA13-P ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	8260P
CALIB. DATE:	07/30/12
EM VOLTAGE:	1328
BFB RESPONSE:	970882
RUN ID:	VP 369, 370

STANDARDS

BFB:	V14382D
ICAL/CCV:	V14451A V14470 V14486 V14494 Surr mix
ISTD/SURR:	V14491
ICV/QC:	V14452B V14464 V14489
Purge Volume:	5mL

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
P 25	OP42849-LB, 10x		TCLP	1817	8260		5	N		✓
P 26	OP42837-LB, 10x			1918			5	N		✓
P 27	F95257-1A, 10x			2019			6	N		✓
P 28	F95357-1, 10x			2120			6	N		✓
P 29	F95225-2, 10x			2221			5	N		✓
P 30	F95236-1, 10x AFA			2322			6	N		✓
P 31	F95212-4MS, 10x	3	W	2423			1	N		✓
P 32	-4MSD, 10x	3	W	24			1	N		✓
P 33	F95357-1MS, 10x		TCLP	2524			6	N		✓
P 34	-1MSD, 10x			25			6	N		✓
P 35	Blank		W	2526			—	—		✓
P 36	AFA Blank		W	27			—	—		✓
P 37	Blank									
P										
P										
P										
P										
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P										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa13_p_log.xls NF 07/11

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058469.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
1912-24-9	Atrazine	ND	170	17	ug/kg	
100-52-7	Benzaldehyde	ND	830	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
92-52-4	1,1'-Biphenyl	ND	170	17	ug/kg	
105-60-2	Caprolactam	ND	170	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058469.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	40-102%
4165-62-2	Phenol-d5	80%	41-100%
118-79-6	2,4,6-Tribromophenol	86%	42-108%

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058469.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	80%	40-105%
321-60-8	2-Fluorobiphenyl	79%	43-107%
1718-51-0	Terphenyl-d14	90%	45-119%

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058499.D	1	07/31/12	NAF	07/27/12	OP42829	SL2985

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
98-86-2	Acetophenone	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
1912-24-9	Atrazine	ND	170	17	ug/kg	
100-52-7	Benzaldehyde	ND	830	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
92-52-4	1,1'-Biphenyl	ND	170	17	ug/kg	
105-60-2	Caprolactam	ND	170	53	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058499.D	1	07/31/12	NAF	07/27/12	OP42829	SL2985

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	72%	40-102%
4165-62-2	Phenol-d5	83%	41-100%
118-79-6	2,4,6-Tribromophenol	88%	42-108%

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MB	L058499.D	1	07/31/12	NAF	07/27/12	OP42829	SL2985

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	40-105%
321-60-8	2-Fluorobiphenyl	80%	43-107%
1718-51-0	Terphenyl-d14	95%	45-119%

Leachate Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42844-LB	X024550.D	1	07/28/12	FS	07/28/12	OP42844	SX1192

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	50	5.4	ug/l	
	3&4-Methylphenol	ND	50	11	ug/l	
87-86-5	Pentachlorophenol	ND	250	54	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	10	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	50	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	50	5.6	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	10	ug/l	
67-72-1	Hexachloroethane	ND	50	10	ug/l	
98-95-3	Nitrobenzene	ND	50	5.9	ug/l	
110-86-1	Pyridine	ND	100	16	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	14-62%
4165-62-2	Phenol-d5	23%	10-40%
118-79-6	2,4,6-Tribromophenol	72%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	68%	40-106%
1718-51-0	Terphenyl-d14	86%	39-121%

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-BS	L058468.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1180	71	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1280	77	59-102
120-83-2	2,4-Dichlorophenol	1670	1300	78	60-101
105-67-9	2,4-Dimethylphenol	1670	1120	67	49-89
51-28-5	2,4-Dinitrophenol	3330	2100	63	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	2770	83	58-109
95-48-7	2-Methylphenol	1670	1130	68	53-94
	3&4-Methylphenol	3330	2360	71	54-95
88-75-5	2-Nitrophenol	1670	1300	78	55-96
100-02-7	4-Nitrophenol	3330	2320	70	56-106
87-86-5	Pentachlorophenol	3330	2620	79	50-115
108-95-2	Phenol	1670	1100	66	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1280	77	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1300	78	60-100
83-32-9	Acenaphthene	1670	1270	76	59-97
208-96-8	Acenaphthylene	1670	1230	74	58-98
98-86-2	Acetophenone	1670	1150	69	47-95
120-12-7	Anthracene	1670	1290	77	61-104
1912-24-9	Atrazine	1670	1320	79	61-105
100-52-7	Benzaldehyde	1670	1010	61	37-113
56-55-3	Benzo(a)anthracene	1670	1340	80	60-106
50-32-8	Benzo(a)pyrene	1670	1260	76	59-102
205-99-2	Benzo(b)fluoranthene	1670	1370	82	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1240	74	56-103
207-08-9	Benzo(k)fluoranthene	1670	1350	81	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1380	83	60-104
85-68-7	Butyl benzyl phthalate	1670	1370	82	57-110
92-52-4	1,1'-Biphenyl	1670	1330	80	57-92
105-60-2	Caprolactam	1670	1180	71	53-107
91-58-7	2-Chloronaphthalene	1670	1270	76	57-95
106-47-8	4-Chloroaniline	1670	675	41	19-85
86-74-8	Carbazole	1670	1240	74	60-106
218-01-9	Chrysene	1670	1310	79	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1260	76	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1120	67	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1140	68	44-94

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-BS	L058468.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
7005-72-3	4-Chlorophenyl phenyl ether	1670	1280	77	60-101
121-14-2	2,4-Dinitrotoluene	1670	1210	73	59-103
606-20-2	2,6-Dinitrotoluene	1670	1250	75	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	758	45	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1270	76	57-105
132-64-9	Dibenzofuran	1670	1250	75	58-103
84-74-2	Di-n-butyl phthalate	1670	1270	76	59-105
117-84-0	Di-n-octyl phthalate	1670	1520	91	59-117
84-66-2	Diethyl phthalate	1670	1280	77	59-106
131-11-3	Dimethyl phthalate	1670	1280	77	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1420	85	57-111
206-44-0	Fluoranthene	1670	1210	73	60-110
86-73-7	Fluorene	1670	1260	76	60-99
118-74-1	Hexachlorobenzene	1670	1350	81	58-103
87-68-3	Hexachlorobutadiene	1670	1280	77	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1350	81	36-94
67-72-1	Hexachloroethane	1670	1100	66	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1290	77	57-104
78-59-1	Isophorone	1670	1040	62	58-97
91-57-6	2-Methylnaphthalene	1670	1270	76	57-103
88-74-4	2-Nitroaniline	1670	1230	74	53-106
99-09-2	3-Nitroaniline	1670	741	44	29-85
100-01-6	4-Nitroaniline	1670	1150	69	49-104
91-20-3	Naphthalene	1670	1300	78	54-93
98-95-3	Nitrobenzene	1670	1220	73	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1180	71	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1310	79	53-107
85-01-8	Phenanthrene	1670	1300	78	61-103
129-00-0	Pyrene	1670	1390	83	58-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	65%	40-102%
4165-62-2	Phenol-d5	72%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-BS	L058468.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	72%	40-105%
321-60-8	2-Fluorobiphenyl	74%	43-107%
1718-51-0	Terphenyl-d14	85%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42844-LBS	X024549.D	1	07/28/12	FS	07/28/12	OP42844	SX1192

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-48-7	2-Methylphenol	500	285	57	35-91
	3&4-Methylphenol	1000	476	48	32-85
87-86-5	Pentachlorophenol	1000	833	83	57-118
95-95-4	2,4,5-Trichlorophenol	500	398	80	59-106
88-06-2	2,4,6-Trichlorophenol	500	401	80	58-107
106-46-7	1,4-Dichlorobenzene	500	355	71	40-100
121-14-2	2,4-Dinitrotoluene	500	411	82	60-109
118-74-1	Hexachlorobenzene	500	402	80	62-107
87-68-3	Hexachlorobutadiene	500	347	69	38-107
67-72-1	Hexachloroethane	500	342	68	35-101
98-95-3	Nitrobenzene	500	352	70	52-105
110-86-1	Pyridine	500	208	42	15-67

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	41%	14-62%
4165-62-2	Phenol-d5	27%	10-40%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	87%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MS	L058471.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
OP42829-MSD	L058472.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
F95275-1	L058470.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95275-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2300	1320	57	1390	60	5	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2300	1410	61	1460	63	3	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2300	1460	63	1510	66	3	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2300	1290	56	1290	56	0	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4600	2810	61	2680	58	5	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4600	3180	69	3250	71	2	58-109/37
95-48-7	2-Methylphenol	ND		2300	1050	46*	1350	59	25	53-94/29
	3&4-Methylphenol	ND		4600	2640	57	2820	61	7	54-95/31
88-75-5	2-Nitrophenol	ND		2300	1460	63	1490	65	2	55-96/30
100-02-7	4-Nitrophenol	ND		4600	3000	65	2930	64	2	56-106/29
87-86-5	Pentachlorophenol	ND		4600	2990	65	3020	66	1	50-115/33
108-95-2	Phenol	ND		2300	1250	54*	1330	58	6	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2300	1470	64	1480	64	1	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2300	1490	65	1520	66	2	60-100/27
83-32-9	Acenaphthene	33.6	J	2300	1520	65	1530	65	1	59-97/29
208-96-8	Acenaphthylene	ND		2300	1430	62	1430	62	0	58-98/30
98-86-2	Acetophenone	ND		2300	1360	59	1430	62	5	47-95/30
120-12-7	Anthracene	ND		2300	1400	61	1450	63	4	61-104/29
1912-24-9	Atrazine	ND		2300	1460	63	1440	63	1	61-105/31
100-52-7	Benzaldehyde	ND		2300	1040	45	1150	50	10	37-113/31
56-55-3	Benzo(a)anthracene	ND		2300	1420	62	1450	63	2	60-106/31
50-32-8	Benzo(a)pyrene	ND		2300	1350	59	1380	60	2	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2300	1550	67	1570	68	1	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2300	1440	63	1470	64	2	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2300	1490	65	1510	66	1	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2300	1400	61	1410	61	1	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2300	1460	63	1460	63	0	57-110/28
92-52-4	1,1'-Biphenyl	99.7	J	2300	1680	69	1690	69	1	57-92/29
105-60-2	Caprolactam	ND		2300	1570	68	1770	77	12	53-107/33
91-58-7	2-Chloronaphthalene	ND		2300	1480	64	1480	64	0	57-95/28
106-47-8	4-Chloroaniline	ND		2300	950	41	613	27	43*	19-85/34
86-74-8	Carbazole	ND		2300	1440	63	1420	62	1	60-106/30
218-01-9	Chrysene	ND		2300	1440	63	1460	63	1	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2300	1420	62	1440	63	1	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2300	1260	55	1320	57	5	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2300	1200	52	1260	55	5	44-94/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MS	L058471.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
OP42829-MSD	L058472.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
F95275-1	L058470.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95275-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	ND		2300	1420	62	1420	62	0	60-101/26
121-14-2	2,4-Dinitrotoluene	ND		2300	1440	63	1410	61	2	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2300	1420	62	1450	63	2	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2300	825	36	649	28*	24	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2300	1470	64	1480	64	1	57-105/29
132-64-9	Dibenzofuran	35.0	J	2300	1550	66	1520	65	2	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2300	1420	62	1450	63	2	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2300	1700	74	1710	74	1	59-117/28
84-66-2	Diethyl phthalate	ND		2300	1380	60	1380	60	0	59-106/27
131-11-3	Dimethyl phthalate	ND		2300	1440	63	1430	62	1	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2300	1550	67	1550	67	0	57-111/29
206-44-0	Fluoranthene	ND		2300	1370	60	1410	61	3	60-110/32
86-73-7	Fluorene	63.8	J	2300	1440	60	1460	61	1	60-99/30
118-74-1	Hexachlorobenzene	ND		2300	1430	62	1450	63	1	58-103/27
87-68-3	Hexachlorobutadiene	ND		2300	1350	59	1410	61	4	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2300	1500	65	1520	66	1	36-94/41
67-72-1	Hexachloroethane	ND		2300	1160	50	1260	55	8	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2300	1470	64	1480	64	1	57-104/33
78-59-1	Isophorone	ND		2300	1160	50*	1180	51*	2	58-97/30
91-57-6	2-Methylnaphthalene	405		2300	1950	67	2020	70	4	57-103/32
88-74-4	2-Nitroaniline	ND		2300	1440	63	1420	62	1	53-106/29
99-09-2	3-Nitroaniline	ND		2300	1030	45	837	36	21	29-85/31
100-01-6	4-Nitroaniline	ND		2300	1140	50	1320	57	15	49-104/31
91-20-3	Naphthalene	ND		2300	1410	61	1480	64	5	54-93/32
98-95-3	Nitrobenzene	ND		2300	1370	60	1450	63	6	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2300	1300	57	1390	60	7	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2300	1980	86	2020	88	2	53-107/28
85-01-8	Phenanthrene	384		2300	1880	65	1940	68	3	61-103/32
129-00-0	Pyrene	63.4	J	2300	1540	64	1580	66	3	58-109/33

CAS No.	Surrogate Recoveries	MS	MSD	F95275-1	Limits
367-12-4	2-Fluorophenol	54%	56%	57%	40-102%
4165-62-2	Phenol-d5	59%	62%	64%	41-100%
118-79-6	2,4,6-Tribromophenol	65%	65%	67%	42-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42829-MS	L058471.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
OP42829-MSD	L058472.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984
F95275-1	L058470.D	1	07/30/12	NAF	07/27/12	OP42829	SL2984

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Surrogate Recoveries	MS	MSD	F95275-1	Limits
4165-60-0	Nitrobenzene-d5	59%	61%	64%	40-105%
321-60-8	2-Fluorobiphenyl	63%	63%	63%	43-107%
1718-51-0	Terphenyl-d14	65%	67%	65%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42844-MS	X024552.D	1	07/28/12	FS	07/28/12	OP42844	SX1192
OP42844-MSD	X024553.D	1	07/28/12	FS	07/28/12	OP42844	SX1192
F95305-1	X024551.D	1	07/28/12	FS	07/28/12	OP42844	SX1192

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-7A

CAS No.	Compound	F95305-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol	13.2	J	500	302	58	303	58	0	35-91/30
	3&4-Methylphenol	11.5	J	1000	509	50	513	50	1	32-85/29
87-86-5	Pentachlorophenol	ND		1000	850	85	801	80	6	57-118/26
95-95-4	2,4,5-Trichlorophenol	ND		500	418	84	392	78	6	59-106/23
88-06-2	2,4,6-Trichlorophenol	ND		500	421	84	395	79	6	58-107/24
106-46-7	1,4-Dichlorobenzene	ND		500	367	73	348	70	5	40-100/28
121-14-2	2,4-Dinitrotoluene	ND		500	432	86	406	81	6	60-109/20
118-74-1	Hexachlorobenzene	ND		500	416	83	393	79	6	62-107/20
87-68-3	Hexachlorobutadiene	ND		500	362	72	338	68	7	38-107/30
67-72-1	Hexachloroethane	ND		500	352	70	334	67	5	35-101/29
98-95-3	Nitrobenzene	ND		500	358	72	347	69	3	52-105/28
110-86-1	Pyridine	ND		500	226	45	229	46	1	15-67/40

CAS No.	Surrogate Recoveries	MS	MSD	F95305-1	Limits
367-12-4	2-Fluorophenol	44%	46%	48%	14-62%
4165-62-2	Phenol-d5	29%	31%	32%	10-40%
118-79-6	2,4,6-Tribromophenol	87%	82%	85%	33-118%
4165-60-0	Nitrobenzene-d5	73%	69%	77%	42-108%
321-60-8	2-Fluorobiphenyl	81%	76%	82%	40-106%
1718-51-0	Terphenyl-d14	91%	83%	88%	39-121%

* = Outside of Control Limits.

Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42844-DUP	X024555.D	1	07/28/12	FS	07/28/12	OP42844	SX1192
F95209-1	X024554.D	1	07/28/12	FS	07/28/12	OP42844	SX1192

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95274-7A

CAS No.	Compound	F95209-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
95-48-7	2-Methylphenol	50 U		ND		nc	30
	3&4-Methylphenol	151		149		1	29
87-86-5	Pentachlorophenol	250 U		ND		nc	26
95-95-4	2,4,5-Trichlorophenol	50 U		ND		nc	23
88-06-2	2,4,6-Trichlorophenol	50 U		ND		nc	24
106-46-7	1,4-Dichlorobenzene	50 U		ND		nc	28
121-14-2	2,4-Dinitrotoluene	50 U		ND		nc	20
118-74-1	Hexachlorobenzene	50 U		ND		nc	20
87-68-3	Hexachlorobutadiene	50 U		ND		nc	30
67-72-1	Hexachloroethane	50 U		ND		nc	29
98-95-3	Nitrobenzene	50 U		ND		nc	28
110-86-1	Pyridine	100 U		ND		nc	40

CAS No.	Surrogate Recoveries	DUP	F95209-1	Limits
367-12-4	2-Fluorophenol	41%	43%	14-62%
4165-62-2	Phenol-d5	29%	28%	10-40%
118-79-6	2,4,6-Tribromophenol	82%	85%	33-118%
4165-60-0	Nitrobenzene-d5	69%	76%	42-108%
321-60-8	2-Fluorobiphenyl	72%	80%	40-106%
1718-51-0	Terphenyl-d14	86%	86%	39-121%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-DFTPP
Lab File ID: L058202.D
Instrument ID: GCMSL
Injection Date: 07/13/12
Injection Time: 13:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29378	38.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33930	44.8		Pass
70	Less than 2.0% of mass 69	228	0.30	(0.67) [a]	Pass
127	40.0 - 60.0% of mass 198	39925	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	75653	100.0		Pass
199	5.0 - 9.0% of mass 198	5450	7.20		Pass
275	10.0 - 30.0% of mass 198	18668	24.7		Pass
365	1.0 - 100.0% of mass 198	1990	2.63		Pass
441	Present, but less than mass 443	4059	5.37	(35.1) [b]	Pass
442	40.0 - 100.0% of mass 198	57426	75.9		Pass
443	17.0 - 23.0% of mass 442	11578	15.3	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL2973-IC2973	L058203.D	07/13/12	13:52	00:19	Initial cal 5
SL2973-IC2973	L058204.D	07/13/12	14:21	00:48	Initial cal 10
SL2973-IC2973	L058205.D	07/13/12	14:49	01:16	Initial cal 25
SL2973-ICC2973	L058206.D	07/13/12	15:19	01:46	Initial cal 50
SL2973-IC2973	L058207.D	07/13/12	15:49	02:16	Initial cal 60
SL2973-IC2973	L058208.D	07/13/12	16:18	02:45	Initial cal 75
SL2973-IC2973	L058209.D	07/13/12	16:47	03:14	Initial cal 100
SL2973-ICV2973	L058210.D	07/13/12	17:16	03:43	Initial cal verification 50
SL2973-ICV2973	L058211.D	07/13/12	17:45	04:12	Initial cal verification 50
OP42610-BS	L058213.D	07/13/12	18:43	05:10	Blank Spike
OP42610-MB	L058214.D	07/13/12	19:11	05:38	Method Blank
ZZZZZZ	L058215.D	07/13/12	19:40	06:07	(unrelated sample)
ZZZZZZ	L058218.D	07/13/12	21:04	07:31	(unrelated sample)
ZZZZZZ	L058219.D	07/13/12	21:31	07:58	(unrelated sample)
F94762-5	L058220.D	07/13/12	21:59	08:26	(used for QC only; not part of job F95274)
ZZZZZZ	L058221.D	07/13/12	22:27	08:54	(unrelated sample)
ZZZZZZ	L058222.D	07/13/12	22:54	09:21	(unrelated sample)
ZZZZZZ	L058223.D	07/13/12	23:21	09:48	(unrelated sample)
ZZZZZZ	L058224.D	07/13/12	23:49	10:16	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-DFTPP
Lab File ID: L058202.D
Instrument ID: GCMSL
Injection Date: 07/13/12
Injection Time: 13:33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L058225.D	07/14/12	00:16	10:43	(unrelated sample)
OP42610-MS	L058226.D	07/14/12	00:43	11:10	Matrix Spike
OP42610-MSD	L058227.D	07/14/12	01:11	11:38	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2984-DFTPP
Lab File ID: L058466.D
Instrument ID: GCMSL
Injection Date: 07/30/12
Injection Time: 11:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	25008	41.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	29065	47.7		Pass
70	Less than 2.0% of mass 69	181	0.30	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	32757	53.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	60922	100.0		Pass
199	5.0 - 9.0% of mass 198	4289	7.04		Pass
275	10.0 - 30.0% of mass 198	15232	25.0		Pass
365	1.0 - 100.0% of mass 198	1625	2.67		Pass
441	Present, but less than mass 443	6430	10.6	(73.3) [b]	Pass
442	40.0 - 100.0% of mass 198	44225	72.6		Pass
443	17.0 - 23.0% of mass 442	8773	14.4	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL2984-CC2973	L058467.D	07/30/12	11:29	00:17	Continuing cal 50
OP42829-BS	L058468.D	07/30/12	11:57	00:45	Blank Spike
OP42829-MB	L058469.D	07/30/12	12:25	01:13	Method Blank
F95275-1	L058470.D	07/30/12	12:54	01:42	(used for QC only; not part of job F95274)
OP42829-MS	L058471.D	07/30/12	13:23	02:11	Matrix Spike
OP42829-MSD	L058472.D	07/30/12	13:51	02:39	Matrix Spike Duplicate
ZZZZZZ	L058475.D	07/30/12	15:17	04:05	(unrelated sample)
ZZZZZZ	L058477.D	07/30/12	16:15	05:03	(unrelated sample)
ZZZZZZ	L058478.D	07/30/12	16:43	05:31	(unrelated sample)
ZZZZZZ	L058479.D	07/30/12	17:12	06:00	(unrelated sample)
ZZZZZZ	L058480.D	07/30/12	17:41	06:29	(unrelated sample)
ZZZZZZ	L058481.D	07/30/12	18:09	06:57	(unrelated sample)
ZZZZZZ	L058482.D	07/30/12	18:38	07:26	(unrelated sample)
ZZZZZZ	L058483.D	07/30/12	19:06	07:54	(unrelated sample)
ZZZZZZ	L058484.D	07/30/12	19:34	08:22	(unrelated sample)
F95274-1	L058485.D	07/30/12	20:02	08:50	USTC507-CS-0003-072512
F95274-2	L058486.D	07/30/12	20:30	09:18	USTC507-CS-0004-072512
F95274-3	L058487.D	07/30/12	20:58	09:46	USTC507-CS-0005-072512
F95274-4	L058488.D	07/30/12	21:25	10:13	USTC507-CS-0006-072512

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2984-DFTPP
Lab File ID: L058466.D
Instrument ID: GCMSL
Injection Date: 07/30/12
Injection Time: 11:12

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F95274-5	L058489.D	07/30/12	21:53	10:41	USTC501-CS-0005-072512
F95274-6	L058490.D	07/30/12	22:20	11:08	USTC501-CS-0006-072512

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2985-DFTPP
Lab File ID: L058494.D
Instrument ID: GCMSL
Injection Date: 07/31/12
Injection Time: 09:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	16958	38.8		Pass
68	Less than 2.0% of mass 69	149	0.34	(0.76) [a]	Pass
69	Mass 69 relative abundance	19712	45.2		Pass
70	Less than 2.0% of mass 69	93	0.21	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	22780	52.2		Pass
197	Less than 1.0% of mass 198	88	0.20		Pass
198	Base peak, 100% relative abundance	43656	100.0		Pass
199	5.0 - 9.0% of mass 198	3068	7.03		Pass
275	10.0 - 30.0% of mass 198	10734	24.6		Pass
365	1.0 - 100.0% of mass 198	1064	2.44		Pass
441	Present, but less than mass 443	4593	10.5	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	30701	70.3		Pass
443	17.0 - 23.0% of mass 442	5979	13.7	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL2985-CC2973	L058495.D	07/31/12	09:50	00:17	Continuing cal 50
OP42774-MB	L058496.D	07/31/12	10:31	00:58	Method Blank
ZZZZZZ	L058497.D	07/31/12	10:59	01:26	(unrelated sample)
ZZZZZZ	L058498.D	07/31/12	11:27	01:54	(unrelated sample)
OP42829-MB	L058499.D	07/31/12	11:56	02:23	Method Blank
ZZZZZZ	L058500.D	07/31/12	12:24	02:51	(unrelated sample)
ZZZZZZ	L058501.D	07/31/12	12:53	03:20	(unrelated sample)
ZZZZZZ	L058502.D	07/31/12	13:21	03:48	(unrelated sample)
OP42854-MB	L058503.D	07/31/12	13:50	04:17	Method Blank
ZZZZZZ	L058504.D	07/31/12	14:19	04:46	(unrelated sample)
ZZZZZZ	L058505.D	07/31/12	14:49	05:16	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-DFTPP
Lab File ID: X024401.D
Instrument ID: GCMSX
Injection Date: 07/21/12
Injection Time: 10:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	72616	42.7		Pass
68	Less than 2.0% of mass 69	1099	0.65	(1.63) [a]	Pass
69	Mass 69 relative abundance	67393	39.7		Pass
70	Less than 2.0% of mass 69	227	0.13	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	90050	53.0		Pass
197	Less than 1.0% of mass 198	472	0.28		Pass
198	Base peak, 100% relative abundance	169922	100.0		Pass
199	5.0 - 9.0% of mass 198	11516	6.78		Pass
275	10.0 - 30.0% of mass 198	33314	19.6		Pass
365	1.0 - 100.0% of mass 198	3298	1.94		Pass
441	Present, but less than mass 443	14958	8.80	(74.4) [b]	Pass
442	40.0 - 100.0% of mass 198	102322	60.2		Pass
443	17.0 - 23.0% of mass 442	20092	11.8	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1186-IC1186	X024402.D	07/21/12	10:40	00:16	Initial cal 5
SX1186-IC1186	X024403.D	07/21/12	11:07	00:43	Initial cal 10
SX1186-IC1186	X024404.D	07/21/12	11:35	01:11	Initial cal 25
SX1186-IC1186	X024405.D	07/21/12	12:02	01:38	Initial cal 50
SX1186-IC1186	X024406.D	07/21/12	12:29	02:05	Initial cal 60
SX1186-ICC1186	X024407.D	07/21/12	12:56	02:32	Initial cal 75
SX1186-IC1186	X024408.D	07/21/12	13:24	03:00	Initial cal 100
SX1186-ICV1186	X024409.D	07/21/12	13:51	03:27	Initial cal verification 50
SX1186-ICV1186	X024410.D	07/21/12	14:18	03:54	Initial cal verification 50
OP42733-BS	X024411.D	07/21/12	14:45	04:21	Blank Spike
OP42733-MB	X024412.D	07/21/12	15:13	04:49	Method Blank
ZZZZZZ	X024413.D	07/21/12	15:40	05:16	(unrelated sample)
ZZZZZZ	X024414.D	07/21/12	16:07	05:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1192-DFTPP
Lab File ID: X024534.D
Instrument ID: GCMSX
Injection Date: 07/28/12
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	43866	41.5		Pass
68	Less than 2.0% of mass 69	404	0.38	(0.99) [a]	Pass
69	Mass 69 relative abundance	40854	38.6		Pass
70	Less than 2.0% of mass 69	115	0.11	(0.28) [a]	Pass
127	40.0 - 60.0% of mass 198	54261	51.3		Pass
197	Less than 1.0% of mass 198	106	0.10		Pass
198	Base peak, 100% relative abundance	105706	100.0		Pass
199	5.0 - 9.0% of mass 198	7199	6.81		Pass
275	10.0 - 30.0% of mass 198	21343	20.2		Pass
365	1.0 - 100.0% of mass 198	1888	1.79		Pass
441	Present, but less than mass 443	9041	8.55	(73.9) [b]	Pass
442	40.0 - 100.0% of mass 198	61900	58.6		Pass
443	17.0 - 23.0% of mass 442	12242	11.6	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1192-CC1186	X024535.D	07/28/12	09:14	00:17	Continuing cal 50
OP42823-BS	X024536.D	07/28/12	09:55	00:58	Blank Spike
OP42823-MB	X024537.D	07/28/12	10:22	01:25	Method Blank
ZZZZZZ	X024538.D	07/28/12	10:50	01:53	(unrelated sample)
OP42823-MS	X024540.D	07/28/12	11:44	02:47	Matrix Spike
OP42823-MSD	X024541.D	07/28/12	12:12	03:15	Matrix Spike Duplicate
OP42844-LBS	X024549.D	07/28/12	15:52	06:55	Blank Spike
OP42844-LB	X024550.D	07/28/12	16:19	07:22	Leachate Blank
F95305-1	X024551.D	07/28/12	16:46	07:49	(used for QC only; not part of job F95274)
OP42844-MS	X024552.D	07/28/12	17:14	08:17	Matrix Spike
OP42844-MSD	X024553.D	07/28/12	17:41	08:44	Matrix Spike Duplicate
F95209-1	X024554.D	07/28/12	18:09	09:12	(used for QC only; not part of job F95274)
OP42844-DUP	X024555.D	07/28/12	18:36	09:39	Duplicate
F95274-7A	X024556.D	07/28/12	19:04	10:07	OTC533-WC-0001-072512

Semivolatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	SL2984-CC2973	**Injection Date:**	07/30/12
Lab File ID:	L058467.D	**Injection Time:**	11:29
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	111899	4.37	420277	5.39	234288	7.47	366100	9.81	302086	14.66	249611	17.13
Check Std [b]	126796	4.27	436772	5.26	249557	7.30	371043	9.62	296591	14.45	258058	16.93
Upper Limit [c]	253592	4.77	873544	5.76	499114	7.80	742086	10.12	593182	14.95	516116	17.43
Lower Limit [d]	63398	3.77	218386	4.76	124779	6.80	185522	9.12	148296	13.95	129029	16.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP42829-BS	147924	4.27	515629	5.26	291202	7.30	431827	9.62	323404	14.45	249050	16.92
OP42829-MB	152688	4.26	544375	5.26	315863	7.29	467476	9.61	376640	14.44	298535	16.92
F95275-1	104014	4.26	357592	5.25	197508	7.29	305596	9.62	278470	14.44	235119	16.91
OP42829-MS	146227	4.26	498367	5.26	255283	7.30	385486	9.64	313594	14.45	233848	16.92
OP42829-MSD	138499	4.27	484376	5.26	256882	7.31	379912	9.64	312578	14.45	228268	16.92
ZZZZZZ	104934	4.26	370742	5.26	209085	7.29	304711	9.61	251831	14.44	218827	16.90
ZZZZZZ	88011	4.26	316982	5.26	185751	7.29	284917	9.61	231555	14.44	197808	16.91
ZZZZZZ	84865	4.26	307348	5.25	176379	7.29	270882	9.61	232855	14.44	202479	16.91
ZZZZZZ	95680	4.26	344831	5.25	195070	7.29	293235	9.61	242607	14.43	204597	16.91
ZZZZZZ	91555	4.26	325927	5.26	184064	7.29	287285	9.61	239319	14.43	209257	16.90
ZZZZZZ	92686	4.26	329454	5.25	190379	7.29	286566	9.61	244639	14.43	207358	16.90
ZZZZZZ	87608	4.26	318298	5.25	177309	7.29	269824	9.61	221603	14.43	188062	16.90
ZZZZZZ	88718	4.26	311863	5.25	168286	7.29	241520	9.61	209566	14.45	188048	16.93
ZZZZZZ	86230	4.26	314230	5.26	180328	7.29	267650	9.62	219425	14.44	193080	16.92
F95274-1	89329	4.26	324250	5.26	182357	7.29	275945	9.62	232632	14.44	200118	16.92
F95274-2	86086	4.26	313738	5.25	179680	7.29	276944	9.62	233435	14.45	203867	16.92
F95274-3	89293	4.26	325970	5.26	187622	7.29	281945	9.62	235121	14.44	201060	16.92
F95274-4	92539	4.26	340362	5.26	195711	7.29	295382	9.62	241979	14.44	210298	16.92
F95274-5	92100	4.26	338289	5.26	192911	7.29	296146	9.62	245347	14.44	211675	16.92
F95274-6	96391	4.26	352163	5.25	200734	7.29	305099	9.62	256194	14.44	216205	16.92

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL2973-ICC2973 L058206.D 07/13/12 15:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	SL2985-CC2973	**Injection Date:**	07/31/12
Lab File ID:	L058495.D	**Injection Time:**	09:50
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	111899	4.37	420277	5.39	234288	7.47	366100	9.81	302086	14.66	249611	17.13
Check Std [b]	117115	4.25	417298	5.25	238045	7.28	376602	9.60	315852	14.43	268846	16.90
Upper Limit [c]	234230	4.75	834596	5.75	476090	7.78	753204	10.10	631704	14.93	537692	17.40
Lower Limit [d]	58558	3.75	208649	4.75	119023	6.78	188301	9.10	157926	13.93	134423	16.40

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP42774-MB	157571	4.26	558953	5.24	337667	7.27	501892	9.60	387003	14.42	296444	16.89
ZZZZZZ	99699	4.25	362419	5.24	205503	7.27	304035	9.59	257533	14.41	217181	16.88
ZZZZZZ	103076	4.25	376076	5.24	215054	7.27	319584	9.59	268853	14.41	222976	16.89
OP42829-MB	132534	4.25	475282	5.24	272475	7.27	383643	9.59	284697	14.41	214839	16.88
ZZZZZZ	100999	4.25	363069	5.24	200857	7.27	309772	9.60	272834	14.42	225323	16.89
ZZZZZZ	91619	4.25	324484	5.24	179287	7.28	280118	9.61	258974	14.42	207621	16.89
ZZZZZZ	95256	4.25	321329	5.24	180631	7.28	282668	9.61	257027	14.41	210096	16.89
OP42854-MB	102197	4.25	366428	5.24	211831	7.27	323735	9.59	285696	14.41	239004	16.88
ZZZZZZ	92374	4.25	322692	5.24	187726	7.27	300479	9.59	267543	14.41	226695	16.88
ZZZZZZ	98778	4.25	358611	5.24	203153	7.26	309554	9.59	265206	14.41	225156	16.88

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL2973-ICC2973 L058206.D 07/13/12 15:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	SX1192-CC1186	**Injection Date:**	07/28/12
Lab File ID:	X024535.D	**Injection Time:**	09:14
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	344739	5.24	1371484	6.44	703476	8.82	1053681	11.31	792918	16.28	749574	18.81
Check Std [b]	457218	5.10	1841578	6.28	925438	8.62	1409603	11.11	1016604	16.07	905296	18.59
Upper Limit [c]	914436	5.60	3683156	6.78	1850876	9.12	2819206	11.61	2033208	16.57	1810592	19.09
Lower Limit [d]	228609	4.60	920789	5.78	462719	8.12	704802	10.61	508302	15.57	452648	18.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP42823-BS	263702	5.10	1137825	6.28	506546	8.62	745876	11.11	543461	16.06	472510	18.58
OP42823-MB	251238	5.10	1017139	6.27	515372	8.61	761100	11.09	549644	16.04	455859	18.56
ZZZZZZ	308349	5.10	1211119	6.27	598271	8.61	884559	11.09	627097	16.04	531331	18.57
OP42823-MS	322810	5.10	1351987	6.28	605387	8.62	881665	11.10	626819	16.05	545335	18.57
OP42823-MSD	323294	5.10	1340936	6.28	604435	8.62	873384	11.10	618140	16.05	541181	18.57
OP42844-LBS	318602	5.10	1278743	6.28	577759	8.62	832335	11.10	590346	16.06	529624	18.57
OP42844-LB	273827	5.10	1044387	6.28	505949	8.61	738295	11.09	533899	16.04	476215	18.57
F95305-1	284929	5.10	1085395	6.28	520620	8.61	755190	11.10	549007	16.05	479750	18.57
OP42844-MS	313126	5.10	1260935	6.28	566376	8.62	817967	11.10	583236	16.06	528004	18.57
OP42844-MSD	288555	5.10	1159820	6.28	523825	8.62	755240	11.10	542543	16.06	485121	18.57
F95209-1	351645	5.10	1324716	6.28	618117	8.61	904635	11.10	655251	16.05	566224	18.57
OP42844-DUP	347727	5.10	1319438	6.28	629409	8.61	916906	11.10	661330	16.05	571577	18.57
F95274-7A	295061	5.10	1112220	6.28	539767	8.61	789261	11.10	564215	16.04	488616	18.57

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1186-ICC1186 X024407.D 07/21/12 12:56
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8270D **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F95274-7A	X024556.D	36.0	24.0	67.0	61.0	61.0	77.0
OP42844-DUP	X024555.D	41.0	29.0	82.0	69.0	72.0	86.0
OP42844-LB	X024550.D	36.0	23.0	72.0	67.0	68.0	86.0
OP42844-LBS	X024549.D	41.0	27.0	83.0	69.0	76.0	87.0
OP42844-MS	X024552.D	44.0	29.0	87.0	73.0	81.0	91.0
OP42844-MSD	X024553.D	46.0	31.0	82.0	69.0	76.0	83.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-62%
S2 = Phenol-d5	10-40%
S3 = 2,4,6-Tribromophenol	33-118%
S4 = Nitrobenzene-d5	42-108%
S5 = 2-Fluorobiphenyl	40-106%
S6 = Terphenyl-d14	39-121%

Semivolatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F95274-1	L058485.D	73.0	86.0	92.0	77.0	83.0	88.0
F95274-2	L058486.D	64.0	71.0	80.0	65.0	68.0	82.0
F95274-3	L058487.D	61.0	70.0	84.0	62.0	67.0	80.0
F95274-4	L058488.D	64.0	73.0	79.0	66.0	70.0	76.0
F95274-5	L058489.D	66.0	76.0	82.0	68.0	72.0	83.0
F95274-6	L058490.D	68.0	76.0	88.0	69.0	74.0	85.0
OP42829-BS	L058468.D	65.0	72.0	80.0	72.0	74.0	85.0
OP42829-MB	L058469.D	71.0	80.0	86.0	80.0	79.0	90.0
OP42829-MB	L058499.D	72.0	83.0	88.0	78.0	80.0	95.0
OP42829-MS	L058471.D	54.0	59.0	65.0	59.0	63.0	65.0
OP42829-MSD	L058472.D	56.0	62.0	65.0	61.0	63.0	67.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	40-102%
S2 = Phenol-d5	41-100%
S3 = 2,4,6-Tribromophenol	42-108%
S4 = Nitrobenzene-d5	40-105%
S5 = 2-Fluorobiphenyl	43-107%
S6 = Terphenyl-d14	45-119%

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

Response Factor Report MSBNA02

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

Calibration Files
5 =L058203.D 10 =L058204.D 25 =L058205.D 50 =L058206.D
60 =L058207.D 75 =L058208.D 100 =L058209.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.790	0.768	0.750	0.731	0.722	0.699	0.714	0.739	4.31
3) N-nitrosodimethyl	0.692	0.686	0.681	0.640	0.639	0.612	0.605	0.651	5.51
4) Pyridine	1.797	1.837	1.839	1.718	1.678	1.696	1.701	1.752	3.97
5)P Benzaldehyde	1.305	1.260	1.186	1.043	0.956	0.858	0.664	1.039	22.27
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 1.39616 *A + -0.29130 *A^2									
6) Aniline	2.917	2.716	2.522	2.262	2.214	2.122	2.064	2.402	13.45
7)S 2-Fluorophenol	1.711	1.606	1.565	1.383	1.343	1.276	1.201	1.441	13.10
8)P bis(2-Chloroethyl	1.609	1.648	1.541	1.408	1.380	1.340	1.342	1.467	8.86
9)S Phenol-d5	2.117	2.004	1.831	1.535	1.495	1.423	1.362	1.681	17.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 1.77857 *A + -0.08695 *A^2									
10)P Phenol	2.455	2.357	2.173	1.899	1.878	1.790	1.736	2.041	14.03
11)P 2-Chlorophenol	1.796	1.730	1.613	1.469	1.444	1.416	1.372	1.549	10.70
12) 1,3-Dichlorobenze	1.899	1.866	1.755	1.592	1.531	1.478	1.431	1.650	11.47
13) 1,4-Dichlorobenze	1.898	1.781	1.744	1.547	1.506	1.437	1.385	1.614	12.01
14) 1,2-Dichlorobenze	1.823	1.759	1.700	1.477	1.450	1.399	1.292	1.557	12.98
15) Benzyl alcohol	1.219	1.173	1.167	1.073	1.053	1.013	1.014	1.102	7.58
16)P bis(2-chloroisopr	2.093	2.027	1.879	1.619	1.558	1.455	1.368	1.714	16.66
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 1.90087 *A + -0.21972 *A^2									
17)P 2-Methylphenol	1.645	1.613	1.528	1.369	1.339	1.276	1.217	1.427	11.80
18)P Acetophenone	2.512	2.294	2.152	1.942	1.884	1.872	1.815	2.067	12.60
19)P Hexachloroethane	0.719	0.699	0.689	0.633	0.631	0.616	0.586	0.653	7.52
20)P N-Nitroso-di-n-pr	1.226	1.208	1.119	0.998	0.989	0.971	0.933	1.063	11.24
21)P 3&4-Methylphenol	1.739	1.707	1.579	1.408	1.397	1.340	1.289	1.494	12.06
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 1.57913 *A + -0.11935 *A^2									
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.522	0.488	0.439	0.422	0.426	0.416	0.405	0.445	9.67
24)P Nitrobenzene	0.526	0.475	0.429	0.414	0.411	0.394	0.379	0.433	11.78
25)P Isophorone	0.926	0.862	0.746	0.724	0.738	0.734	0.732	0.780	10.25
26)P 2-Nitrophenol	0.258	0.251	0.232	0.231	0.236	0.226	0.221	0.237	5.60
27)P 2,4-Dimethylpheno	0.498	0.462	0.406	0.399	0.395	0.385	0.371	0.417	11.04
28)P bis(2-Chloroethox	0.582	0.535	0.469	0.445	0.451	0.438	0.413	0.476	12.62
29) Benzoic Acid	0.310	0.359	0.368	0.352	0.372	0.396	0.406	0.366	8.62
30)P 2,4-Dichloropheno	0.393	0.379	0.334	0.327	0.326	0.313	0.302	0.339	10.03
31) 1,2,4-Trichlorobe	0.447	0.400	0.363	0.352	0.352	0.341	0.324	0.369	11.30
32) alpha-Terpineol	0.393	0.336	0.292	0.284	0.280	0.275	0.262	0.303	15.18
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

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                Response Ratio = 0.00000 + 0.30990 *A + -0.01923 *A^2

33)P Naphthalene       1.359 1.222 1.040 0.938 0.917 0.875 0.808 1.023  19.53
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.09804 *A + -0.11742 *A^2

34)P 4-Chloroaniline   0.588 0.548 0.493 0.472 0.471 0.451 0.432 0.494  11.22
35)  2,6-Dichloropheno 0.394 0.368 0.329 0.321 0.324 0.312 0.303 0.336   9.80
36)P Hexachlorobutadie 0.231 0.208 0.187 0.187 0.189 0.179 0.176 0.194   9.98
37)P Caprolactam       0.152 0.148 0.130 0.137 0.138 0.139 0.136 0.140   5.32
38)P 4-Chloro-3-methyl 0.414 0.396 0.353 0.353 0.356 0.347 0.338 0.365   7.71
39)P 2-Methylnaphthale 0.912 0.838 0.734 0.688 0.684 0.648 0.612 0.731  14.70
40)  1-Methylnaphthale 0.863 0.772 0.694 0.649 0.652 0.618 0.583 0.690  14.06
41)P 1,2,4,5-Tetrachlo 0.419 0.389 0.348 0.337 0.338 0.331 0.313 0.354  10.50

42) I   Acenaphthene-d10      ----------------ISTD---------------------
43)P Hexachlorocyclope 0.336 0.332 0.357 0.370 0.369 0.367 0.359 0.356   4.44
44)P 2,4,6-Trichloroph 0.448 0.437 0.429 0.407 0.403 0.393 0.389 0.415   5.51
45)P 2,4,5-Trichloroph 0.486 0.465 0.444 0.425 0.426 0.408 0.397 0.436   7.25
46)S 2-Fluorobiphenyl  1.679 1.526 1.456 1.304 1.281 1.207 1.160 1.373  13.62
47)P 1,1'-Biphenyl     1.890 1.698 1.524 1.332 1.247 1.192 1.093 1.425  20.36
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.57280 *A + -0.19622 *A^2

48)P 2-Chloronaphthale 1.372 1.307 1.223 1.103 1.058 1.025 0.978 1.152  13.02
49)P 2-Nitroaniline    0.421 0.406 0.399 0.389 0.388 0.382 0.378 0.395   3.82
50)  p-Dinitrobenzene  0.266 0.267 0.274 0.277 0.278 0.273 0.273 0.272   1.70
51)P Acenaphthylene    2.313 2.151 1.978 1.773 1.734 1.662 1.545 1.879  14.77
52)P Dimethylphthalate 1.553 1.490 1.385 1.237 1.211 1.147 1.087 1.301  13.59
53)  m-Dinitrobenzene  0.265 0.260 0.251 0.246 0.246 0.243 0.237 0.250   3.90
54)P 2,6-Dinitrotoluen 0.367 0.350 0.340 0.324 0.328 0.319 0.314 0.335   5.58
55)  o-Dinitrobenzene  0.185 0.189 0.180 0.177 0.181 0.175 0.172 0.180   3.26
56)P Acenaphthene      1.365 1.300 1.239 1.117 1.111 1.049 1.023 1.172  11.13
57)P 3-Nitroaniline    0.405 0.402 0.392 0.372 0.377 0.370 0.372 0.384   3.90
58)P 2,4-Dinitrophenol 0.108 0.150 0.194 0.218 0.230 0.233 0.234 0.195  25.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.20109 *A + 0.01456 *A^2

59)P Dibenzofuran      1.933 1.791 1.714 1.549 1.508 1.443 1.382 1.617  12.42
60)P 2,4-Dinitrotoluen 0.468 0.441 0.442 0.425 0.432 0.421 0.418 0.435   3.93
61)P 4-Nitrophenol     0.179 0.182 0.179 0.177 0.187 0.181 0.184 0.181   1.88
62)  2,3,5,6-Tetrachlo 0.365 0.358 0.354 0.350 0.348 0.340 0.333 0.350   3.12
63)P 2,3,4,6-Tetrachlo 0.361 0.359 0.336 0.332 0.335 0.323 0.322 0.338   4.62
64)P Fluorene          1.589 1.471 1.399 1.274 1.248 1.192 1.164 1.334  11.78
65)P 4-Chlorophenyl-ph 0.709 0.684 0.644 0.590 0.582 0.561 0.543 0.616  10.32
66)P Diethylphthalate  1.440 1.382 1.293 1.192 1.175 1.116 1.072 1.238  11.07
67)P 4-Nitroaniline    0.394 0.381 0.373 0.373 0.369 0.363 0.371 0.375   2.72

68) I   Phenanthrene-d10      ----------------ISTD---------------------
69)P 4,6-Dinitro-2-met 0.135 0.153 0.166 0.172 0.169 0.173 0.171 0.163   8.52
70)P n-Nitrosodiphenyl 0.713 0.656 0.627 0.569 0.555 0.543 0.517 0.597  11.78
71)  1,2-Diphenylhydra 1.001 0.935 0.891 0.889 0.845 0.833 0.790 0.883   7.94
72)S 2,4,6-Tribromophe 0.122 0.117 0.113 0.109 0.106 0.105 0.103 0.111   6.38
73)P 4-Bromophenyl-phe 0.258 0.233 0.236 0.222 0.212 0.214 0.209 0.226   7.65
74)P Hexachlorobenzene 0.277 0.260 0.247 0.236 0.228 0.229 0.220 0.242   8.42
75)  Simazine          0.142 0.129 0.126 0.123 0.120 0.120 0.118 0.125   6.55
76)P Atrazine          0.266 0.243 0.228 0.213 0.205 0.208 0.201 0.223  10.66
77)P Pentachlorophenol 0.144 0.144 0.154 0.167 0.164 0.165 0.162 0.157   6.21
78)P Phenanthrene      1.258 1.168 1.100 0.992 0.971 0.943 0.899 1.047  12.56
79)P Anthracene        1.286 1.211 1.137 1.033 0.981 0.965 0.919 1.076  12.80
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Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICC2973
Lab FileID: L058206.D

80)P Carbazole	1.265	1.193	1.126	1.030	0.995	0.965	0.928	1.072	11.73
81)P Di-n-butylphthala	1.390	1.350	1.274	1.162	1.136	1.094	1.035	1.206	11.10
82)P Fluoranthene	1.261	1.193	1.148	1.033	1.007	0.975	0.928	1.078	11.48
83) I Chrysene-d12	----------ISTD----------								
84) Benzidine	0.921	0.885	0.860	0.782	0.751	0.686	0.597	0.783	14.76
85)P Pyrene	1.510	1.447	1.331	1.219	1.204	1.178	1.161	1.293	10.77
86)S Terphenyl-d14	1.025	0.965	0.920	0.880	0.852	0.843	0.832	0.903	7.93
87)P Butylbenzylphthal	0.635	0.609	0.612	0.598	0.592	0.592	0.582	0.603	2.89
88)P 3,3'-Dichlorobenz	0.477	0.451	0.450	0.424	0.420	0.405	0.378	0.429	7.72
89)P Benzo[a]anthracen	1.236	1.179	1.143	1.078	1.062	1.052	1.025	1.111	6.93
90)P Chrysene	1.130	1.075	1.020	0.940	0.935	0.915	0.887	0.986	9.19
91)P bis(2-Ethylhexyl)	0.806	0.786	0.774	0.770	0.767	0.760	0.752	0.774	2.31
92) I Perylene-d12	----------ISTD----------								
93)P Di-n-octylphthala	1.475	1.461	1.509	1.486	1.501	1.471	1.438	1.477	1.62
94)P Benzo[b]fluoranth	1.255	1.213	1.251	1.141	1.168	1.161	1.172	1.194	3.80
95)P Benzo[k]fluoranth	1.315	1.316	1.185	1.134	1.111	1.057	1.020	1.162	10.08
96)P Benzo[a]pyrene	1.207	1.207	1.181	1.107	1.102	1.088	1.075	1.138	5.09
97)P Indeno[1,2,3-cd]p	0.964	0.955	0.936	0.896	0.905	0.908	0.945	0.930	2.87
98)P Dibenz[a,h]anthra	0.958	0.963	0.940	0.888	0.921	0.920	0.934	0.932	2.75
99)P Benzo[g,h,i]peryl	1.088	1.078	0.971	0.946	0.941	0.929	0.953	0.987	6.81

(#) = Out of Range

8270da.m Mon Jul 16 09:15:01 2012

8.9.1

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058210.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\071312a\L058210.D          Vial: 9
Acq On    : 13 Jul 2012   5:16 pm                    Operator: nancyf
Sample    : icv2973-50                               Inst    : MSBNA02
Misc      : op42019,sl2973,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Jul 16 08:52:32 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	116	0.00	4.37
2		1,4-Dioxane	50.000	45.394	9.2	106	0.04	1.91
3		N-nitrosodimethylamine	50.000	47.856	4.3	112	0.03	2.27
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	52.804	-5.6	118	0.00	4.05
		----------	Amount	Calc.	%Drift		----------	
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	44.987	10.0	108	0.00	4.21
		----------	Amount	Calc.	%Drift		----------	
9	S	Phenol-d5		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
10	P	Phenol	50.000	43.344	13.3	108	0.00	4.18
11	P	2-Chlorophenol	50.000	45.573	8.9	111	0.00	4.25
12		1,3-Dichlorobenzene	50.000	45.377	9.2	109	0.00	4.34
13		1,4-Dichlorobenzene	50.000	45.990	8.0	111	0.00	4.39
14		1,2-Dichlorobenzene	50.000	46.763	6.5	114	0.00	4.52
15		Benzyl alcohol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
16	P	bis(2-chloroisopropyl)eth	50.000	45.551	8.9	107	0.00	4.61
		----------	Amount	Calc.	%Drift		----------	
17	P	2-Methylphenol	50.000	43.034	13.9	104	0.00	4.61
18	P	Acetophenone	50.000	45.923	8.2	113	0.00	4.69
19	P	Hexachloroethane	50.000	47.271	5.5	113	0.00	4.74
20	P	N-Nitroso-di-n-propylamin	50.000	43.384	13.2	107	0.00	4.72
21	P	3&4-Methylphenol	100.000	89.788	10.2	108	0.00	4.72
22	I	Naphthalene-d8	40.000	40.000	0.0	108	0.00	5.39
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.541	2.9	109	0.00	4.82
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol	50.000	50.722	-1.4	112	0.00	5.07
27	P	2,4-Dimethylphenol	50.000	41.246	17.5	93	0.00	5.13
28	P	bis(2-Chloroethoxy)methan	50.000	48.240	3.5	111	0.00	5.20
29		Benzoic Acid	100.000	94.401	5.6	96	0.03	5.31

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			Amount	Calc.	%Drift			
30	P	2,4-Dichlorophenol	50.000	47.497	5.0	106	0.00	5.29
31		1,2,4-Trichlorobenzene	50.000	45.653	8.7	103	0.00	5.35
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	51.268	-2.5	112	0.00	5.41
34	P	4-Chloroaniline		----------NA----------				
35		2,6-Dichlorophenol	50.000	47.314	5.4	107	0.00	5.49
36	P	Hexachlorobutadiene	50.000	49.667	0.7	111	0.00	5.58
37	P	Caprolactam	50.000	47.704	4.6	105	0.00	5.84
38	P	4-Chloro-3-methylphenol	50.000	46.975	6.0	105	0.00	6.00
39	P	2-Methylnaphthalene		----------NA----------				
40		1-Methylnaphthalene	50.000	47.433	5.1	109	0.00	6.23
41	P	1,2,4,5-Tetrachlorobenzen	50.000	44.430	11.1	101	0.00	6.35
42	I	Acenaphthene-d10	40.000	40.000	0.0	110	0.00	7.46
43	P	Hexachlorocyclopentadiene	50.000	53.074	-6.1	113	0.00	6.38
44	P	2,4,6-Trichlorophenol	50.000	47.094	5.8	106	0.00	6.48
45	P	2,4,5-Trichlorophenol	50.000	46.548	6.9	105	0.00	6.53
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl	50.000	48.268	3.5	107	0.00	6.68
48	P	2-Chloronaphthalene	50.000	45.227	9.5	104	0.00	6.68
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene	50.000	44.233	11.5	103	0.00	7.24
52	P	Dimethylphthalate	50.000	47.579	4.8	110	0.00	7.20
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene	50.000	44.851	10.3	102	0.00	7.28
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene	50.000	45.951	8.1	106	0.00	7.51
57	P	3-Nitroaniline		----------NA----------				
58	P	2,4-Dinitrophenol	100.000	84.306	15.7	95	0.00	7.62
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	44.843	10.3	101	-0.01	7.85
61	P	4-Nitrophenol	100.000	90.998	9.0	102	0.00	7.80
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol	50.000	45.674	8.7	103	0.00	8.03
64	P	Fluorene	50.000	44.139	11.7	102	0.00	8.28
65	P	4-Chlorophenyl-phenylethe	50.000	46.149	7.7	106	0.00	8.32
66	P	Diethylphthalate	50.000	45.187	9.6	104	0.00	8.29
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00	9.81
69	P	4,6-Dinitro-2-methylpheno	100.000	106.912	-6.9	107	0.00	8.50
70	P	n-Nitrosodiphenylamine	50.000	46.240	7.5	84	0.00	8.54
71		1,2-Diphenylhydrazine	50.000	48.968	2.1	101	0.00	8.57
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether	50.000	49.395	1.2	105	0.00	9.11
74	P	Hexachlorobenzene	50.000	46.516	7.0	100	0.00	9.31

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058210.D

75		Simazine		----------NA----------				
76	P	Atrazine	50.000	46.272	7.5	101	-0.01	9.57
77	P	Pentachlorophenol	100.000	95.786	4.2	98	0.00	9.65
78	P	Phenanthrene	50.000	46.404	7.2	102	0.00	9.85
79	P	Anthracene	50.000	45.627	8.7	99	0.00	9.93
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate	50.000	45.733	8.5	99	0.00	11.16
82	P	Fluoranthene	50.000	43.486	13.0	94	0.00	11.98
83	I	Chrysene-d12	40.000	40.000	0.0	96	0.00	14.65
84		Benzidine		----------NA----------				
85	P	Pyrene	50.000	48.840	2.3	99	0.00	12.36
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate	50.000	48.784	2.4	94	0.00	13.91
88	P	3,3'-Dichlorobenzidine		----------NA----------				
89	P	Benzo[a]anthracene	50.000	47.689	4.6	94	0.00	14.62
90	P	Chrysene	50.000	47.531	4.9	96	0.00	14.70
91	P	bis(2-Ethylhexyl)phthalat	50.000	48.346	3.3	93	0.00	15.13
92	I	Perylene-d12	40.000	40.000	0.0	97	0.00	17.13
93	P	Di-n-octylphthalate	50.000	48.888	2.2	94	0.00	16.24
94	P	Benzo[b]fluoranthene	50.000	47.582	4.8	96	0.00	16.53
95	P	Benzo[k]fluoranthene	50.000	47.434	5.1	94	0.00	16.57
96	P	Benzo[a]pyrene	50.000	44.956	10.1	89	0.00	17.03
97	P	Indeno[1,2,3-cd]pyrene	50.000	49.545	0.9	99	0.00	18.70
98	P	Dibenz[a,h]anthracene	50.000	51.371	-2.7	104	0.00	18.75
99	P	Benzo[g,h,i]perylene	50.000	49.824	0.4	100	0.00	19.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Mon Jul 16 09:04:02 2012

8.9.2

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\071312a\L058211.D          Vial: 10
Acq On    : 13 Jul 2012   5:45 pm                    Operator: nancyf
Sample    : icv2973-50                               Inst    : MSBNA02
Misc      : op42019,sl2973,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Jul 16 09:05:22 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	110	0.00	4.37
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	48.738	2.5	109	0.00	2.23
		---------- Amount Calc. %Drift ----------						
5	P	Benzaldehyde	25.000	23.387	6.5	122	0.00	4.05
		---------- Amount Calc. %Drift ----------						
6		Aniline	50.000	44.960	10.1	105	0.00	4.16
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
		---------- Amount Calc. %Drift ----------						
9	S	Phenol-d5		----------NA----------				
		---------- Amount Calc. %Drift ----------						
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	46.718	6.6	105	0.00	4.50
		---------- Amount Calc. %Drift ----------						
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
		---------- Amount Calc. %Drift ----------						
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
		---------- Amount Calc. %Drift ----------						
21	P	3&4-Methylphenol		----------NA----------				
		---------- Amount Calc. %Drift ----------						
22	I	Naphthalene-d8	40.000	40.000	0.0	104	0.00	5.38
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	45.008	10.0	101	-0.01	5.00

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

			Amount	Calc.	%Drift			
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
			Amount	Calc.	%Drift			
32		alpha-Terpineol	50.000	46.088	7.8	97	0.00	5.41
33	P	Naphthalene		----------NA----------				
			Amount	Calc.	%Drift			
34	P	4-Chloroaniline	50.000	47.960	4.1	104	0.00	5.48
35		2,6-Dichlorophenol		----------NA----------				
36	P	Hexachlorobutadiene		----------NA----------				
37	P	Caprolactam		----------NA----------				
38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene	50.000	48.660	2.7	107	0.00	6.10
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	105	0.00	7.46
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
			Amount	Calc.	%Drift			
47	P	1,1'-Biphenyl		----------NA----------				
			Amount	Calc.	%Drift			
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline	50.000	49.741	0.5	106	0.00	6.88
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene	50.000	50.028	-0.1	107	-0.01	7.19
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline	50.000	47.593	4.8	103	-0.01	7.47
			Amount	Calc.	%Drift			
58	P	2,4-Dinitrophenol		----------NA----------				
			Amount	Calc.	%Drift			
59	P	Dibenzofuran	50.000	47.799	4.4	105	0.00	7.74
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline	50.000	51.520	-3.0	109	-0.03	8.41
68	I	Phenanthrene-d10	40.000	40.000	0.0	106	-0.01	9.80
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2973-ICV2973
Lab FileID: L058211.D

72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene		----------NA----------				
75		Simazine	50.000	37.870	24.3#	82	-0.03	9.48
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole	50.000	47.343	5.3	105	0.00	10.27
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				
83	I	Chrysene-d12	40.000	40.000	0.0	113	-0.01	14.64
84		Benzidine	50.000	51.370	-2.7	116	0.00	12.34
85	P	Pyrene		----------NA----------				
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate		----------NA----------				
88	P	3,3'-Dichlorobenzidine	50.000	47.569	4.9	109	0.00	14.72
89	P	Benzo[a]anthracene		----------NA----------				
90	P	Chrysene		----------NA----------				
91	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
92	I	Perylene-d12	40.000	40.000	0.0	116	0.00	17.12
93	P	Di-n-octylphthalate		----------NA----------				
94	P	Benzo[b]fluoranthene		----------NA----------				
95	P	Benzo[k]fluoranthene		----------NA----------				
96	P	Benzo[a]pyrene		----------NA----------				
97	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
98	P	Dibenz[a,h]anthracene		----------NA----------				
99	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Mon Jul 16 09:13:08 2012

8.9.3

8

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2984-CC2973
Lab FileID: L058467.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\073012\L058467.D          Vial: 2
Acq On    : 30 Jul 2012  11:29 am                   Operator: nancyf
Sample    : cc2973-50                               Inst    : MSBNA02
Misc      : op42019,sl2984,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Jul 30 15:03:08 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	4.27
2		1,4-Dioxane	0.739	0.772	-4.5	120	-0.09	1.75
3		N-nitrosodimethylamine	0.651	0.667	-2.5	118	-0.09	2.12
4		Pyridine	1.752	1.754	-0.1	116	-0.09	2.10
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	51.316	-2.6	114	0.00	3.95
			AvgRF	CCRF	%Dev			
6		Aniline	2.402	2.310	3.8	116	0.00	4.06
7	S	2-Fluorophenol	1.441	1.380	4.2	113	-0.02	3.35
8	P	bis(2-Chloroethyl)ether	1.467	1.407	4.1	113	0.00	4.11
			Amount	Calc.	%Drift			
9	S	Phenol-d5	100.000	105.711	-5.7	121	0.00	4.09
			AvgRF	CCRF	%Dev			
10	P	Phenol	2.041	1.850	9.4	110	0.00	4.10
11	P	2-Chlorophenol	1.549	1.527	1.4	118	0.00	4.14
12		1,3-Dichlorobenzene	1.650	1.644	0.4	117	0.00	4.24
13		1,4-Dichlorobenzene	1.614	1.602	0.7	117	0.00	4.28
14		1,2-Dichlorobenzene	1.557	1.547	0.6	119	0.00	4.41
15		Benzyl alcohol	1.102	1.092	0.9	115	0.00	4.40
			Amount	Calc.	%Drift			
16	P	bis(2-chloroisopropyl)eth	50.000	50.975	-2.0	116	0.00	4.51
			AvgRF	CCRF	%Dev			
17	P	2-Methylphenol	1.427	1.399	2.0	116	0.01	4.51
18	P	Acetophenone	2.067	1.912	7.5	112	0.00	4.59
19	P	Hexachloroethane	0.653	0.666	-2.0	119	0.00	4.63
20	P	N-Nitroso-di-n-propylamin	1.063	1.032	2.9	117	0.00	4.61
			Amount	Calc.	%Drift			
21	P	3&4-Methylphenol	50.000	50.399	-0.8	116	0.01	4.62
			AvgRF	CCRF	%Dev			
22	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	5.26
23	S	Nitrobenzene-d5	0.445	0.469	-5.4	116	0.00	4.69
24	P	Nitrobenzene	0.433	0.450	-3.9	113	0.00	4.71
25	P	Isophorone	0.780	0.806	-3.3	116	0.00	4.90

Continuing Calibration Summary

Job Number: F95274 **Sample:** SL2984-CC2973
Account: SEITXH SHAW E & I **Lab FileID:** L058467.D
Project: Holloman AFB; NM

26	P	2-Nitrophenol	0.237	0.261	-10.1	118	0.00	4.96
27	P	2,4-Dimethylphenol	0.417	0.447	-7.2	117	0.01	5.02
28	P	bis(2-Chloroethoxy)methan	0.476	0.495	-4.0	116	0.00	5.08
29		Benzoic Acid	0.366	0.410	-12.0	121	0.03	5.19
30	P	2,4-Dichlorophenol	0.339	0.358	-5.6	114	0.00	5.16
31		1,2,4-Trichlorobenzene	0.369	0.397	-7.6	117	0.00	5.23
		----------	Amount	Calc.	%Drift	----------		
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	56.924	-13.8	117	0.00	5.28
		----------	AvgRF	CCRF	%Dev	----------		
34	P	4-Chloroaniline	0.494	0.508	-2.8	112	0.00	5.36
35		2,6-Dichlorophenol	0.336	0.364	-8.3	118	0.00	5.37
36	P	Hexachlorobutadiene	0.194	0.216	-11.3	120	0.00	5.45
37	P	Caprolactam	0.140	0.138	1.4	104	0.02	5.72
38	P	4-Chloro-3-methylphenol	0.365	0.379	-3.8	112	0.01	5.88
39	P	2-Methylnaphthalene	0.731	0.756	-3.4	114	0.00	5.96
40		1-Methylnaphthalene	0.690	0.723	-4.8	116	0.00	6.08
41	P	1,2,4,5-Tetrachlorobenzen	0.354	0.380	-7.3	117	0.00	6.20
42	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	7.30
43	P	Hexachlorocyclopentadiene	0.356	0.411	-15.4	118	0.00	6.23
44	P	2,4,6-Trichlorophenol	0.415	0.442	-6.5	116	0.00	6.34
45	P	2,4,5-Trichlorophenol	0.436	0.458	-5.0	115	0.00	6.39
46	S	2-Fluorobiphenyl	1.373	1.391	-1.3	114	0.00	6.43
		----------	Amount	Calc.	%Drift	----------		
47	P	1,1'-Biphenyl	50.000	52.757	-5.5	111	0.00	6.53
		----------	AvgRF	CCRF	%Dev	----------		
48	P	2-Chloronaphthalene	1.152	1.201	-4.3	116	0.00	6.53
49	P	2-Nitroaniline	0.395	0.407	-3.0	112	0.00	6.72
50		p-Dinitrobenzene	0.272	0.288	-5.9	111	0.00	6.89
51	P	Acenaphthylene	1.879	1.879	0.0	113	0.00	7.08
52	P	Dimethylphthalate	1.301	1.299	0.2	112	0.00	7.05
53		m-Dinitrobenzene	0.250	0.256	-2.4	111	0.00	7.04
54	P	2,6-Dinitrotoluene	0.335	0.344	-2.7	113	0.00	7.12
55		o-Dinitrobenzene	0.180	0.186	-3.3	112	0.00	7.21
56	P	Acenaphthene	1.172	1.217	-3.8	116	0.00	7.35
57	P	3-Nitroaniline	0.384	0.402	-4.7	115	0.00	7.31
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	54.059	-8.1	117	0.01	7.46
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.617	1.633	-1.0	112	0.00	7.58
60	P	2,4-Dinitrotoluene	0.435	0.450	-3.4	113	0.01	7.70
61	P	4-Nitrophenol	0.181	0.183	-1.1	110	0.03	7.65
62		2,3,5,6-Tetrachlorophenol	0.350	0.369	-5.4	112	0.01	7.79
63	P	2,3,4,6-Tetrachlorophenol	0.338	0.352	-4.1	113	0.01	7.86
64	P	Fluorene	1.334	1.370	-2.7	115	0.01	8.10
65	P	4-Chlorophenyl-phenylethe	0.616	0.636	-3.2	115	0.02	8.15
66	P	Diethylphthalate	1.238	1.249	-0.9	112	0.02	8.13
67	P	4-Nitroaniline	0.375	0.368	1.9	105	0.02	8.26
68	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00	9.62
69	P	4,6-Dinitro-2-methylpheno	0.163	0.189	-16.0	112	0.00	8.34
70	P	n-Nitrosodiphenylamine	0.597	0.635	-6.4	113	0.00	8.37
71		1,2-Diphenylhydrazine	0.883	0.972	-10.1	111	-0.01	8.40

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2984-CC2973
Lab FileID: L058467.D

72	S	2,4,6-Tribromophenol	0.111	0.124	-11.7	115	-0.01	8.53
73	P	4-Bromophenyl-phenylether	0.226	0.250	-10.6	114	0.00	8.93
74	P	Hexachlorobenzene	0.242	0.265	-9.5	114	0.00	9.13
75		Simazine	0.125	0.089	28.8#	73	0.00	9.33
76	P	Atrazine	0.223	0.224	-0.4	106	0.00	9.41
77	P	Pentachlorophenol	0.157	0.179	-14.0	109	0.00	9.47
78	P	Phenanthrene	1.047	1.078	-3.0	110	0.00	9.67
79	P	Anthracene	1.076	1.120	-4.1	110	0.00	9.74
80	P	Carbazole	1.072	1.086	-1.3	107	0.01	10.09
81	P	Di-n-butylphthalate	1.206	1.234	-2.3	108	0.03	10.98
82	P	Fluoranthene	1.078	1.090	-1.1	107	0.03	11.78
83	I	Chrysene-d12	1.000	1.000	0.0	98	0.00	14.45
84		Benzidine	0.783	0.724	7.5	91	-0.02	12.15
85	P	Pyrene	1.293	1.335	-3.2	107	-0.03	12.17
86	S	Terphenyl-d14	0.903	0.954	-5.6	106	-0.02	12.63
87	P	Butylbenzylphthalate	0.603	0.630	-4.5	103	0.00	13.72
88	P	3,3'-Dichlorobenzidine	0.429	0.474	-10.5	110	0.00	14.53
89	P	Benzo[a]anthracene	1.111	1.177	-5.9	107	0.00	14.43
90	P	Chrysene	0.986	1.043	-5.8	109	0.00	14.50
91	P	bis(2-Ethylhexyl)phthalat	0.774	0.824	-6.5	105	0.02	14.94
92	I	Perylene-d12	1.000	1.000	0.0	103	0.00	16.93
93	P	Di-n-octylphthalate	1.477	1.545	-4.6	107	0.00	16.06
94	P	Benzo[b]fluoranthene	1.194	1.321	-10.6	120	0.00	16.33
95	P	Benzo[k]fluoranthene	1.162	1.170	-0.7	107	0.00	16.38
96	P	Benzo[a]pyrene	1.138	1.210	-6.3	113	0.00	16.83
97	P	Indeno[1,2,3-cd]pyrene	0.930	1.017	-9.4	117	0.02	18.50
98	P	Dibenz[a,h]anthracene	0.932	1.029	-10.4	120	0.02	18.55
99	P	Benzo[g,h,i]perylene	0.987	1.045	-5.9	114	0.02	18.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Mon Jul 30 15:05:02 2012

8.9.4

8

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SL2985-CC2973
Lab FileID: L058495.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\073112\L058495.D          Vial: 2
Acq On    : 31 Jul 2012   9:50 am                   Operator: nancyf
Sample    : cc2973-50                               Inst    : MSBNA02
Misc      : op42019,sl2985,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Jul 31 11:23:13 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	4.25
2		1,4-Dioxane	0.739	0.759	-2.7	109	-0.10	1.74
3		N-nitrosodimethylamine	0.651	0.650	0.2	106	-0.09	2.11
4		Pyridine	1.752	1.707	2.6	104	-0.09	2.09
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	48.774	2.5	102	0.00	3.93
			AvgRF	CCRF	%Dev			
6		Aniline	2.402	2.286	4.8	106	0.00	4.05
7	S	2-Fluorophenol	1.441	1.397	3.1	106	-0.02	3.35
8	P	bis(2-Chloroethyl)ether	1.467	1.367	6.8	102	0.00	4.10
			Amount	Calc.	%Drift			
9	S	Phenol-d5	100.000	106.703	-6.7	113	0.01	4.08
			AvgRF	CCRF	%Dev			
10	P	Phenol	2.041	1.822	10.7	100	0.00	4.08
11	P	2-Chlorophenol	1.549	1.507	2.7	107	0.00	4.13
12		1,3-Dichlorobenzene	1.650	1.638	0.7	108	0.00	4.22
13		1,4-Dichlorobenzene	1.614	1.609	0.3	109	0.00	4.27
14		1,2-Dichlorobenzene	1.557	1.501	3.6	106	0.00	4.40
15		Benzyl alcohol	1.102	1.073	2.6	105	0.00	4.39
			Amount	Calc.	%Drift			
16	P	bis(2-chloroisopropyl)eth	50.000	49.786	0.4	105	0.00	4.49
			AvgRF	CCRF	%Dev			
17	P	2-Methylphenol	1.427	1.396	2.2	107	0.01	4.50
18	P	Acetophenone	2.067	1.873	9.4	101	0.00	4.57
19	P	Hexachloroethane	0.653	0.635	2.8	105	0.00	4.62
20	P	N-Nitroso-di-n-propylamin	1.063	1.015	4.5	106	0.01	4.61
			Amount	Calc.	%Drift			
21	P	3&4-Methylphenol	50.000	51.049	-2.1	108	0.02	4.61
			AvgRF	CCRF	%Dev			
22	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	5.25
23	S	Nitrobenzene-d5	0.445	0.447	-0.4	105	0.00	4.68
24	P	Nitrobenzene	0.433	0.428	1.2	103	0.00	4.70
25	P	Isophorone	0.780	0.778	0.3	107	0.00	4.88

Continuing Calibration Summary

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26	P	2-Nitrophenol	0.237	0.253	-6.8	109	0.00	4.94
27	P	2,4-Dimethylphenol	0.417	0.427	-2.4	106	0.01	5.01
28	P	bis(2-Chloroethoxy)methan	0.476	0.480	-0.8	107	0.00	5.07
29		Benzoic Acid	0.366	0.362	1.1	102	0.02	5.17
30	P	2,4-Dichlorophenol	0.339	0.354	-4.4	108	0.00	5.15
31		1,2,4-Trichlorobenzene	0.369	0.382	-3.5	108	0.00	5.21
		----------	Amount	Calc.	%Drift		----------	
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	55.927	-11.9	111	0.00	5.26
		----------	AvgRF	CCRF	%Dev		----------	
34	P	4-Chloroaniline	0.494	0.504	-2.0	106	0.00	5.35
35		2,6-Dichlorophenol	0.336	0.358	-6.5	111	0.00	5.35
36	P	Hexachlorobutadiene	0.194	0.204	-5.2	108	0.00	5.43
37	P	Caprolactam	0.140	0.136	2.9	98	0.02	5.71
38	P	4-Chloro-3-methylphenol	0.365	0.376	-3.0	106	0.01	5.86
39	P	2-Methylnaphthalene	0.731	0.755	-3.3	109	0.00	5.95
40		1-Methylnaphthalene	0.690	0.706	-2.3	108	0.00	6.07
41	P	1,2,4,5-Tetrachlorobenzen	0.354	0.374	-5.6	110	0.00	6.18
42	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00	7.28
43	P	Hexachlorocyclopentadiene	0.356	0.366	-2.8	101	0.00	6.21
44	P	2,4,6-Trichlorophenol	0.415	0.433	-4.3	108	0.00	6.32
45	P	2,4,5-Trichlorophenol	0.436	0.454	-4.1	109	0.00	6.37
46	S	2-Fluorobiphenyl	1.373	1.372	0.1	107	0.00	6.41
		----------	Amount	Calc.	%Drift		----------	
47	P	1,1'-Biphenyl	50.000	51.747	-3.5	104	0.00	6.51
		----------	AvgRF	CCRF	%Dev		----------	
48	P	2-Chloronaphthalene	1.152	1.192	-3.5	110	0.00	6.51
49	P	2-Nitroaniline	0.395	0.400	-1.3	105	0.00	6.71
50		p-Dinitrobenzene	0.272	0.281	-3.3	103	0.00	6.87
51	P	Acenaphthylene	1.879	1.862	0.9	107	0.00	7.06
52	P	Dimethylphthalate	1.301	1.299	0.2	107	0.00	7.03
53		m-Dinitrobenzene	0.250	0.258	-3.2	107	0.00	7.03
54	P	2,6-Dinitrotoluene	0.335	0.347	-3.6	109	0.00	7.11
55		o-Dinitrobenzene	0.180	0.173	3.9	99	0.00	7.19
56	P	Acenaphthene	1.172	1.200	-2.4	109	0.00	7.33
57	P	3-Nitroaniline	0.384	0.399	-3.9	109	0.00	7.29
		----------	Amount	Calc.	%Drift		----------	
58	P	2,4-Dinitrophenol	50.000	41.908	16.2	85	0.00	7.44
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.617	1.634	-1.1	107	0.00	7.56
60	P	2,4-Dinitrotoluene	0.435	0.455	-4.6	109	0.01	7.68
61	P	4-Nitrophenol	0.181	0.182	-0.6	105	0.03	7.64
62		2,3,5,6-Tetrachlorophenol	0.350	0.374	-6.9	109	0.02	7.77
63	P	2,3,4,6-Tetrachlorophenol	0.338	0.363	-7.4	111	0.02	7.84
64	P	Fluorene	1.334	1.373	-2.9	110	0.00	8.08
65	P	4-Chlorophenyl-phenylethe	0.616	0.634	-2.9	109	0.01	8.13
66	P	Diethylphthalate	1.238	1.252	-1.1	107	0.02	8.11
67	P	4-Nitroaniline	0.375	0.384	-2.4	105	0.02	8.24
68	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	9.60
69	P	4,6-Dinitro-2-methylpheno	0.163	0.164	-0.6	98	0.00	8.31
70	P	n-Nitrosodiphenylamine	0.597	0.601	-0.7	109	0.00	8.35
71		1,2-Diphenylhydrazine	0.883	0.901	-2.0	104	-0.01	8.38

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72	S	2,4,6-Tribromophenol	0.111	0.122	-9.9	115	-0.01	8.51
73	P	4-Bromophenyl-phenylether	0.226	0.245	-8.4	113	0.00	8.91
74	P	Hexachlorobenzene	0.242	0.257	-6.2	112	0.00	9.11
75		Simazine	0.125	0.086	31.2#	71	0.00	9.30
76	P	Atrazine	0.223	0.219	1.8	106	0.01	9.39
77	P	Pentachlorophenol	0.157	0.175	-11.5	108	0.00	9.45
78	P	Phenanthrene	1.047	1.067	-1.9	111	0.00	9.64
79	P	Anthracene	1.076	1.094	-1.7	109	0.00	9.72
80	P	Carbazole	1.072	1.073	-0.1	107	0.01	10.07
81	P	Di-n-butylphthalate	1.206	1.205	0.1	107	0.03	10.96
82	P	Fluoranthene	1.078	1.099	-1.9	109	0.03	11.76
83	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	14.43
84		Benzidine	0.783	0.626	20.1#	84	-0.03	12.12
85	P	Pyrene	1.293	1.295	-0.2	111	-0.04	12.14
86	S	Terphenyl-d14	0.903	0.934	-3.4	111	-0.02	12.60
87	P	Butylbenzylphthalate	0.603	0.621	-3.0	109	0.00	13.70
88	P	3,3'-Dichlorobenzidine	0.429	0.471	-9.8	116	0.00	14.50
89	P	Benzo[a]anthracene	1.111	1.163	-4.7	113	0.00	14.40
90	P	Chrysene	0.986	1.014	-2.8	113	0.00	14.48
91	P	bis(2-Ethylhexyl)phthalat	0.774	0.812	-4.9	110	0.02	14.92
92	I	Perylene-d12	1.000	1.000	0.0	108	0.00	16.90
93	P	Di-n-octylphthalate	1.477	1.560	-5.6	113	0.00	16.03
94	P	Benzo[b]fluoranthene	1.194	1.256	-5.2	119	0.00	16.30
95	P	Benzo[k]fluoranthene	1.162	1.117	3.9	106	0.00	16.35
96	P	Benzo[a]pyrene	1.138	1.190	-4.6	116	0.00	16.81
97	P	Indeno[1,2,3-cd]pyrene	0.930	0.994	-6.9	119	0.02	18.47
98	P	Dibenz[a,h]anthracene	0.932	1.000	-7.3	121	0.02	18.53
99	P	Benzo[g,h,i]perylene	0.987	1.019	-3.2	116	0.02	18.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L058206.D 8270da.m Tue Jul 31 11:25:56 2012

8.9.5
8

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICC1186
Lab FileID: X024407.D

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 23 07:34:34 2012
Response via : Initial Calibration

Calibration Files
5 =X024402.D 10 =X024403.D 25 =X024404.D 50 =X024405.D
60 =X024406.D 75 =X024407.D 100 =X024408.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.772	0.724	0.676	0.774	0.789	0.678	0.569	0.712	10.92
3) N-nitrosodimethyl	0.917	0.880	0.799	0.897	0.893	0.800	0.660	0.835	10.84
4) Pyridine	2.157	2.024	1.786	2.116	2.098	1.947	1.594	1.960	10.43
5)S 2-Fluorophenol	1.708	1.635	1.527	1.655	1.599	1.513	1.306	1.563	8.49
6)P Benzaldehyde	1.208	1.404	1.214	1.018	0.844	0.791	0.621	1.014	27.38
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9931									
Response Ratio = 0.00000 + 1.33804 *A + -0.28986 *A^2									
7) Aniline	2.992	3.004	2.876	3.153	3.019	2.884	2.449	2.911	7.69
8)P bis(2-Chloroethyl	1.885	1.862	1.783	1.900	1.856	1.758	1.510	1.793	7.54
9)S Phenol-d5	2.254	2.262	2.092	2.149	2.021	1.903	1.625	2.044	10.96
10)P Phenol	2.357	2.375	2.287	2.544	2.379	2.217	1.858	2.288	9.37
11)P 2-Chlorophenol	1.650	1.631	1.627	1.768	1.706	1.684	1.479	1.649	5.44
12) 1,3-Dichlorobenze	1.692	1.700	1.694	1.754	1.774	1.760	1.534	1.701	4.77
13) 1,4-Dichlorobenze	1.740	1.754	1.752	1.822	1.785	1.765	1.531	1.736	5.42
14) 1,2-Dichlorobenze	1.600	1.671	1.609	1.671	1.671	1.656	1.467	1.621	4.58
15) Benzyl alcohol	1.217	1.218	1.179	1.212	1.242	1.192	1.048	1.187	5.44
16)P 2-Methylphenol	1.682	1.698	1.609	1.650	1.709	1.626	1.439	1.630	5.64
17)P bis(2-chloroisopr	3.473	3.505	3.311	3.296	3.337	3.063	2.583	3.224	9.84
18)P Acetophenone	2.194	2.543	2.326	2.295	2.430	2.154	1.859	2.257	9.75
19)P N-Nitroso-di-n-pr	1.298	1.292	1.192	1.238	1.291	1.145	0.996	1.207	9.07
20)P 3&4-Methylphenol	1.751	1.762	1.684	1.693	1.798	1.648	1.426	1.680	7.35
21)P Hexachloroethane	0.698	0.725	0.701	0.723	0.793	0.710	0.617	0.710	7.31
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.461	0.459	0.437	0.443	0.456	0.438	0.376	0.438	6.67
24)P Nitrobenzene	0.464	0.450	0.430	0.440	0.444	0.420	0.356	0.429	8.16
25)P Isophorone	0.893	0.890	0.820	0.834	0.853	0.820	0.713	0.832	7.27
26)P 2-Nitrophenol	0.177	0.187	0.188	0.198	0.212	0.210	0.187	0.194	6.68
27)P 2,4-Dimethylpheno	0.436	0.431	0.407	0.398	0.419	0.399	0.350	0.406	7.05
28)P bis(2-Chloroethox	0.557	0.562	0.516	0.498	0.501	0.485	0.415	0.505	9.75
29) Benzoic Acid	0.164	0.252	0.291	0.307	0.341	0.358	0.346	0.294	23.12
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9959									
Response Ratio = 0.00000 + 0.29799 *A + 0.02197 *A^2									
30)P 2,4-Dichloropheno	0.302	0.307	0.302	0.306	0.320	0.319	0.279	0.305	4.52
31) 1,2,4-Trichlorobe	0.332	0.328	0.329	0.338	0.338	0.338	0.299	0.329	4.24
32)P Naphthalene	1.192	1.193	1.153	1.197	1.174	1.155	1.010	1.153	5.69
33)P 4-Chloroaniline	0.518	0.520	0.496	0.525	0.492	0.497	0.434	0.497	6.21
34) 2,6-Dichloropheno	0.319	0.324	0.314	0.339	0.315	0.316	0.274	0.314	6.28
35)P Hexachlorobutadie	0.174	0.172	0.168	0.182	0.164	0.168	0.143	0.167	7.35
36)P Caprolactam	0.117	0.150	0.131	0.143	0.140	0.133	0.118	0.133	9.32
37)P 4-Chloro-3-methyl	0.336	0.350	0.328	0.364	0.353	0.337	0.293	0.337	6.80
38)P 2-Methylnaphthale	0.713	0.719	0.696	0.784	0.771	0.745	0.646	0.725	6.48
39) 1-Methylnaphthale	0.685	0.677	0.656	0.732	0.725	0.700	0.607	0.683	6.28

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Lab FileID: X024407.D

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40)P 1,2,4,5-Tetrachlo 0.308 0.308 0.295 0.321 0.326 0.309 0.271 0.305   5.92

41) I   Acenaphthene-d10      ----------------ISTD---------------------
42)P Hexachlorocyclope 0.274 0.297 0.330 0.357 0.371 0.367 0.323 0.331  11.07
43)P 2,4,6-Trichloroph 0.351 0.367 0.376 0.393 0.407 0.404 0.355 0.379   5.97
44)P 2,4,5-Trichloroph 0.380 0.390 0.389 0.417 0.425 0.424 0.372 0.400   5.44
45)S 2-Fluorobiphenyl  1.372 1.386 1.370 1.428 1.440 1.419 1.235 1.379   5.01
46)P 1,1'-Biphenyl     1.449 1.735 1.657 1.631 1.654 1.595 1.381 1.586   7.93
47)P 2-Chloronaphthale 1.195 1.205 1.206 1.264 1.282 1.244 1.072 1.210   5.70
48)P 2-Nitroaniline    0.356 0.373 0.387 0.407 0.402 0.393 0.340 0.380   6.55
49)  p-Dinitrobenzene  0.180 0.202 0.223 0.256 0.257 0.255 0.226 0.229  13.16
50)P Dimethylphthalate 1.313 1.332 1.291 1.357 1.352 1.314 1.155 1.302   5.29
51)  m-Dinitrobenzene  0.178 0.189 0.207 0.233 0.237 0.237 0.211 0.213  11.20
52)P 2,6-Dinitrotoluen 0.265 0.280 0.289 0.306 0.308 0.301 0.265 0.288   6.39
53)  o-Dinitrobenzene  0.176 0.187 0.195 0.207 0.206 0.197 0.174 0.192   7.01
54)P Acenaphthylene    2.021 2.029 1.999 2.074 2.069 2.010 1.748 1.993   5.60
55)P 3-Nitroaniline    0.362 0.377 0.377 0.405 0.410 0.405 0.362 0.385   5.43
56)P Acenaphthene      1.278 1.285 1.269 1.329 1.308 1.280 1.112 1.266   5.58
57)P 2,4-Dinitrophenol 0.023 0.047 0.085 0.122 0.137 0.149       0.094  54.26
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.05782 *A + 0.04986 *A^2

58)P 4-Nitrophenol     0.157 0.167 0.166 0.183 0.183 0.179 0.157 0.170   6.53
59)P Dibenzofuran      1.627 1.638 1.627 1.705 1.699 1.650 1.435 1.626   5.55
60)P 2,4-Dinitrotoluen 0.299 0.328 0.350 0.397 0.401 0.393 0.356 0.361  10.81
61)P 2,3,5,6-Tetrachlo 0.272 0.289 0.295 0.321 0.321 0.316 0.279 0.299   6.85
62)P 2,3,4,6-Tetrachlo 0.268 0.296 0.292 0.313 0.314 0.310 0.271 0.295   6.54
63)P Diethylphthalate  1.271 1.343 1.294 1.382 1.389 1.342 1.187 1.315   5.39
64)P Fluorene          1.346 1.376 1.338 1.429 1.421 1.375 1.194 1.354   5.80
65)P 4-Chlorophenyl-ph 0.575 0.591 0.577 0.607 0.607 0.578 0.496 0.576   6.57
66)P 4-Nitroaniline    0.314 0.342 0.345 0.379 0.389 0.377 0.339 0.355   7.64

67) I   Phenanthrene-d10      ----------------ISTD---------------------
68)P 4,6-Dinitro-2-met 0.042 0.061 0.091 0.119 0.127 0.135       0.096  39.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.07313 *A + 0.03408 *A^2

69)P n-Nitrosodiphenyl 0.604 0.614 0.603 0.617 0.620 0.620 0.551 0.604   4.05
70)  1,2-Diphenylhydra 1.065 1.052 1.038 1.000 0.969 0.939 0.786 0.978   9.84
71)S 2,4,6-Tribromophe 0.113 0.114 0.113 0.107 0.107 0.102 0.086 0.106   9.02
72)P 4-Bromophenyl-phe 0.213 0.215 0.211 0.211 0.212 0.209 0.184 0.208   5.09
73)P Hexachlorobenzene 0.238 0.243 0.234 0.230 0.227 0.220 0.191 0.226   7.57
74)  Simazine          0.101 0.102 0.099 0.102 0.105 0.104 0.089 0.100   5.27
75)P Atrazine          0.179 0.222 0.207 0.203 0.210 0.202 0.173 0.199   8.68
76)P Pentachlorophenol 0.128 0.131 0.143 0.159 0.162 0.163 0.140 0.147  10.07
77)P Phenanthrene      1.189 1.186 1.156 1.170 1.169 1.171 1.015 1.151   5.29
78)P Anthracene        1.197 1.213 1.192 1.216 1.215 1.217 1.036 1.184   5.57
79)P Carbazole         1.140 1.165 1.133 1.159 1.154 1.138 0.991 1.126   5.37
80)P Di-n-butylphthala 1.380 1.404 1.404 1.449 1.445 1.431 1.235 1.392   5.31
81)P Fluoranthene      1.080 1.103 1.099 1.116 1.125 1.098 0.936 1.079   6.02

82) I   Chrysene-d12          ----------------ISTD---------------------
83)  Benzidine         0.880 0.777 0.757 0.717 0.672 0.687 0.583 0.725  12.90
84)P Pyrene            1.495 1.461 1.434 1.505 1.489 1.518 1.353 1.465   3.89
85)S Terphenyl-d14     0.954 0.928 0.905 0.938 0.938 0.935 0.823 0.917   4.81
86)P Butylbenzylphthal 0.709 0.709 0.693 0.738 0.741 0.747 0.682 0.717   3.52
87)P 3,3'-Dichlorobenz 0.420 0.428 0.435 0.440 0.429 0.415 0.360 0.418   6.43
88)P Benzo[a]anthracen 1.164 1.142 1.128 1.203 1.195 1.201 1.055 1.155   4.61
89)P Chrysene          1.116 1.120 1.097 1.151 1.142 1.116 0.997 1.106   4.63
90)P bis(2-Ethylhexyl) 0.957 0.969 0.971 1.031 1.026 1.041 0.915 0.987   4.72
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Project: Holloman AFB; NM

Sample: SX1186-ICC1186
Lab FileID: X024407.D

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91) I   Perylene-d12          ----------------ISTD---------------------
92)P Di-n-octylphthala 1.699 1.687 1.727 1.891 1.896 1.807 1.573 1.754   6.68
93)P Benzo[b]fluoranth 1.103 1.128 1.073 1.170 1.184 1.147 1.023 1.118   5.07
94)P Benzo[k]fluoranth 1.267 1.241 1.213 1.272 1.226 1.143 0.964 1.189   9.10
95)P Benzo[a]pyrene    1.125 1.113 1.095 1.177 1.170 1.134 1.010 1.118   5.01
96)P Indeno[1,2,3-cd]p 0.820 0.832 0.859 1.215 0.982 1.027 0.889 0.946  14.96
97)P Dibenz[a,h]anthra 0.898 0.950 0.967 0.992 1.048 1.035 0.881 0.967   6.57
98)P Benzo[g,h,i]peryl 1.056 1.024 1.044 1.011 1.127 1.103 0.938 1.043   5.97
---------------------------------------------------------------------------
(#) = Out of Range

          8270d.m           Mon Jul 23 08:33:23 2012
```

8.9.6

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024409.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\072112\X024409.D Vial: 9
Acq On : 21 Jul 2012 1:51 pm Operator: fouads
Sample : icv1186-50 Inst : MSBNA05
Misc : op42733,sx1186,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 23 07:34:34 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	96	0.00	5.24
2		1,4-Dioxane	50.000	53.995	-8.0	95	0.03	2.86
3		N-nitrosodimethylamine	50.000	52.563	-5.1	94	0.02	3.18
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	50.288	-0.6	91	0.00	5.04
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	48.908	2.2	84	0.00	4.98
11	P	2-Chlorophenol	50.000	51.912	-3.8	93	0.00	5.09
12		1,3-Dichlorobenzene	50.000	52.358	-4.7	97	0.00	5.21
13		1,4-Dichlorobenzene	50.000	52.464	-4.9	96	0.00	5.25
14		1,2-Dichlorobenzene	50.000	52.473	-4.9	98	0.00	5.41
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	47.704	4.6	90	0.00	5.46
17	P	bis(2-chloroisopropyl)eth	50.000	49.442	1.1	93	0.00	5.49
18	P	Acetophenone	50.000	48.803	2.4	92	0.00	5.60
19	P	N-Nitroso-di-n-propylamin	50.000	50.716	-1.4	95	0.00	5.62
20	P	3&4-Methylphenol	100.000	91.971	8.0	89	0.00	5.59
21	P	Hexachloroethane	50.000	52.481	-5.0	99	0.00	5.68
22	I	Naphthalene-d8	40.000	40.000	0.0	93	0.00	6.44
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	51.703	-3.4	94	0.00	5.76
25	P	Isophorone	50.000	42.385	15.2	78	0.00	5.97
26	P	2-Nitrophenol	50.000	54.798	-9.6	100	0.00	6.06
27	P	2,4-Dimethylphenol	50.000	44.672	10.7	84	0.00	6.08
28	P	bis(2-Chloroethoxy)methan	50.000	51.222	-2.4	96	0.00	6.18
		----------	Amount	Calc.	%Drift	----------		
29		Benzoic Acid	100.000	89.649	10.4	72	0.02	6.24
		----------	Amount	Calc.	%Drift	----------		
30	P	2,4-Dichlorophenol	50.000	51.590	-3.2	95	0.00	6.29
31		1,2,4-Trichlorobenzene	50.000	50.240	-0.5	91	0.00	6.39
32	P	Naphthalene	50.000	50.693	-1.4	91	0.00	6.46
33	P	4-Chloroaniline		----------NA----------				

8.9.7

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024409.D

34		2,6-Dichlorophenol	50.000	48.601	2.8	84	0.00	6.54
35	P	Hexachlorobutadiene	50.000	51.332	-2.7	88	0.00	6.65
36	P	Caprolactam	50.000	45.678	8.6	79	-0.02	6.92
37	P	4-Chloro-3-methylphenol	50.000	47.595	4.8	82	0.00	7.09
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene	50.000	47.610	4.8	82	0.00	7.42
40	P	1,2,4,5-Tetrachlorobenzen	50.000	44.399	11.2	78	0.00	7.55
41	I	Acenaphthene-d10	40.000	40.000	0.0	82	0.00	8.80
42	P	Hexachlorocyclopentadiene	50.000	58.096	-16.2	89	0.00	7.58
43	P	2,4,6-Trichlorophenol	50.000	53.181	-6.4	84	0.00	7.69
44	P	2,4,5-Trichlorophenol	50.000	53.445	-6.9	84	0.00	7.73
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	52.344	-4.7	84	0.00	7.93
47	P	2-Chloronaphthalene	50.000	52.718	-5.4	83	0.00	7.94
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	52.061	-4.1	82	-0.02	8.46
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	51.116	-2.2	79	0.00	8.56
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene	50.000	51.946	-3.9	82	0.00	8.56
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	52.735	-5.5	83	0.00	8.86
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	100.000	81.946	18.1	0	-0.01	8.93
		----------	Amount	Calc.	%Drift		----------	
58	P	4-Nitrophenol	100.000	108.372	-8.4	85	0.00	9.06
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	51.959	-3.9	78	-0.01	9.18
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol	50.000	50.706	-1.4	79	0.00	9.39
63	P	Diethylphthalate	50.000	51.236	-2.5	80	0.00	9.64
64	P	Fluorene	50.000	49.980	0.0	78	0.00	9.68
65	P	4-Chlorophenyl-phenylethe	50.000	52.232	-4.5	82	0.00	9.70
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	75	0.00	11.31
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	100.000	93.365	6.6	0	-0.01	9.87
		----------	Amount	Calc.	%Drift		----------	
69	P	n-Nitrosodiphenylamine	50.000	51.899	-3.8	64	-0.01	9.92
70		1,2-Diphenylhydrazine	50.000	54.103	-8.2	80	0.00	9.97
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether	50.000	53.597	-7.2	79	0.00	10.54
73	P	Hexachlorobenzene	50.000	51.223	-2.4	76	0.00	10.78
74		Simazine		----------NA----------				
75	P	Atrazine	50.000	50.520	-1.0	74	-0.01	10.96
76	P	Pentachlorophenol	100.000	103.638	-3.6	74	0.00	11.10
77	P	Phenanthrene	50.000	51.434	-2.9	76	0.00	11.35
78	P	Anthracene	50.000	51.289	-2.6	75	0.00	11.43
79	P	Carbazole		----------NA----------				
80	P	Di-n-butylphthalate	50.000	50.649	-1.3	73	0.00	12.60
81	P	Fluoranthene	50.000	47.303	5.4	69	0.00	13.54
82	I	Chrysene-d12	40.000	40.000	0.0	69	0.00	16.27
83		Benzidine		----------NA----------				

8.9.7

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024409.D

84	P	Pyrene	50.000	52.022	-4.0	70	0.00	13.95
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate	50.000	52.272	-4.5	70	0.00	15.42
87	P	3,3'-Dichlorobenzidine		----------NA----------				
88	P	Benzo[a]anthracene	50.000	50.409	-0.8	67	0.00	16.24
89	P	Chrysene	50.000	51.102	-2.2	68	-0.01	16.32
90	P	bis(2-Ethylhexyl)phthalat	50.000	54.011	-8.0	71	0.00	16.62
91	I	Perylene-d12	40.000	40.000	0.0	66	0.00	18.80
92	P	Di-n-octylphthalate	50.000	54.794	-9.6	67	0.00	17.74
93	P	Benzo[b]fluoranthene	50.000	50.469	-0.9	63	0.00	18.18
94	P	Benzo[k]fluoranthene	50.000	52.743	-5.5	65	0.00	18.22
95	P	Benzo[a]pyrene	50.000	49.501	1.0	62	-0.01	18.70
96	P	Indeno[1,2,3-cd]pyrene	50.000	47.995	4.0	49	0.00	20.40
97	P	Dibenz[a,h]anthracene	50.000	50.697	-1.4	65	0.00	20.43
98	P	Benzo[g,h,i]perylene	50.000	50.125	-0.3	68	-0.01	20.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X024405.D 8270d.m Mon Jul 23 08:35:26 2012

8.9.7

8

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024410.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\072112\X024410.D          Vial: 10
Acq On    : 21 Jul 2012   2:18 pm                   Operator: fouads
Sample    : icv1186-50                              Inst    : MSBNA05
Misc      : op42733,sx1186,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Jul 23 07:34:34 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	94	0.00	5.23
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	55.814	-11.6	97	0.00	3.16
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	P	Benzaldehyde	25.000	23.573	5.7	87	0.00	4.89
		----------	Amount	Calc.	%Drift	----------		
7		Aniline	50.000	42.897	14.2	74	0.00	5.00
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	49.930	0.1	92	0.00	5.36
16	P	2-Methylphenol		----------NA----------				
17	P	bis(2-chloroisopropyl)eth		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	N-Nitroso-di-n-propylamin		----------NA----------				
20	P	3&4-Methylphenol		----------NA----------				
21	P	Hexachloroethane		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	105	0.00	6.44
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	40.928	18.1	85	-0.01	5.96
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
29		Benzoic Acid		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	39.016	22.0#	79	0.00	6.53

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024410.D

34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	44.035	11.9	85	0.00	7.28
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	91	0.00	8.80
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	53.334	-6.7	91	0.00	8.13
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene	50.000	47.547	4.9	79	-0.02	8.47
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline	50.000	45.967	8.1	80	0.00	8.77
56	P	Acenaphthene		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
58	P	4-Nitrophenol		----------NA----------				
59	P	Dibenzofuran	50.000	49.404	1.2	86	0.00	9.11
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	51.179	-2.4	88	-0.02	9.78
67	I	Phenanthrene-d10	40.000	40.000	0.0	88	0.00	11.30
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
69	P	n-Nitrosodiphenylamine		----------NA----------				
70		1,2-Diphenylhydrazine		----------NA----------				
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether		----------NA----------				
73	P	Hexachlorobenzene		----------NA----------				
74		Simazine	50.000	32.488	35.0#	56	-0.03	10.87
75	P	Atrazine		----------NA----------				
76	P	Pentachlorophenol		----------NA----------				
77	P	Phenanthrene		----------NA----------				
78	P	Anthracene		----------NA----------				
79	P	Carbazole	50.000	48.443	3.1	83	0.00	11.75
80	P	Di-n-butylphthalate		----------NA----------				
81	P	Fluoranthene		----------NA----------				
82	I	Chrysene-d12	40.000	40.000	0.0	84	-0.01	16.27

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1186-ICV1186
Lab FileID: X024410.D

83		Benzidine	50.000	58.747	-17.5	99	0.00	13.86
84	P	Pyrene		----------NA----------				
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate		----------NA----------				
87	P	3,3'-Dichlorobenzidine	50.000	44.527	10.9	71	0.00	16.29
88	P	Benzo[a]anthracene		----------NA----------				
89	P	Chrysene		----------NA----------				
90	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
91	I	Perylene-d12	40.000	40.000	0.0	83	0.00	18.80
92	P	Di-n-octylphthalate		----------NA----------				
93	P	Benzo[b]fluoranthene		----------NA----------				
94	P	Benzo[k]fluoranthene		----------NA----------				
95	P	Benzo[a]pyrene		----------NA----------				
96	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
97	P	Dibenz[a,h]anthracene		----------NA----------				
98	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X024405.D 8270d.m Mon Jul 23 08:50:22 2012

8.9.8

8

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1192-CC1186
Lab FileID: X024535.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\072812\X024535.D Vial: 2
Acq On : 28 Jul 2012 9:14 am Operator: fouads
Sample : cc1186-50 Inst : MSBNA05
Misc : op41650,sx1192,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Jul 30 06:49:53 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	152	0.00	5.10
2		1,4-Dioxane	0.712	0.710	0.3	139	-0.05	2.71
3		N-nitrosodimethylamine	0.835	0.757	9.3	128	-0.04	3.04
4		Pyridine	1.960	1.890	3.6	136	-0.05	3.03
5	S	2-Fluorophenol	1.563	1.485	5.0	136	-0.01	4.14
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	50.833	-1.7	147	0.00	4.76
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.911	2.626	9.8	126	0.00	4.87
8	P	bis(2-Chloroethyl)ether	1.793	1.718	4.2	137	0.00	4.92
9	S	Phenol-d5	2.044	1.818	11.1	129	0.00	4.85
10	P	Phenol	2.288	2.032	11.2	121	0.00	4.86
11	P	2-Chlorophenol	1.649	1.667	-1.1	143	0.00	4.96
12		1,3-Dichlorobenzene	1.701	1.722	-1.2	149	0.00	5.07
13		1,4-Dichlorobenzene	1.736	1.719	1.0	143	0.00	5.12
14		1,2-Dichlorobenzene	1.621	1.617	0.2	147	0.00	5.27
15		Benzyl alcohol	1.187	1.176	0.9	147	0.00	5.23
16	P	2-Methylphenol	1.630	1.584	2.8	146	0.00	5.33
17	P	bis(2-chloroisopropyl)eth	3.224	2.839	11.9	131	0.00	5.35
18	P	Acetophenone	2.257	1.918	15.0	127	0.00	5.47
19	P	N-Nitroso-di-n-propylamin	1.207	1.134	6.0	139	0.01	5.49
20	P	3&4-Methylphenol	1.680	1.505	10.4	135	0.01	5.45
21	P	Hexachloroethane	0.710	0.681	4.1	143	0.00	5.54
22	I	Naphthalene-d8	1.000	1.000	0.0	152	0.00	6.28
23	S	Nitrobenzene-d5	0.438	0.429	2.1	147	0.00	5.60
24	P	Nitrobenzene	0.429	0.411	4.2	142	0.00	5.61
25	P	Isophorone	0.832	0.787	5.4	143	0.00	5.83
26	P	2-Nitrophenol	0.194	0.213	-9.8	164	0.00	5.91
27	P	2,4-Dimethylphenol	0.406	0.381	6.2	146	0.00	5.94
28	P	bis(2-Chloroethoxy)methan	0.505	0.459	9.1	140	0.00	6.04
		----------	Amount	Calc.	%Drift		----------	
29		Benzoic Acid	50.000	57.490	-15.0	187	0.02	6.09
		----------	AvgRF	CCRF	%Dev		----------	
30	P	2,4-Dichlorophenol	0.305	0.305	0.0	152	0.00	6.14
31		1,2,4-Trichlorobenzene	0.329	0.330	-0.3	149	0.00	6.24
32	P	Naphthalene	1.153	1.114	3.4	142	0.00	6.30
33	P	4-Chloroaniline	0.508	0.463	8.9	134	0.00	6.38

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: SX1192-CC1186
Lab FileID: X024535.D

34		2,6-Dichlorophenol	0.314	0.297	5.4	133	0.00	6.39
35	P	Hexachlorobutadiene	0.167	0.158	5.4	132	0.00	6.50
36	P	Caprolactam	0.133	0.126	5.3	135	0.02	6.78
37	P	4-Chloro-3-methylphenol	0.337	0.324	3.9	135	0.01	6.94
38	P	2-Methylnaphthalene	0.725	0.698	3.7	135	0.00	7.11
39		1-Methylnaphthalene	0.683	0.656	4.0	136	0.00	7.25
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.291	4.6	138	0.00	7.38
41	I	Acenaphthene-d10	1.000	1.000	0.0	145	0.00	8.62
42	P	Hexachlorocyclopentadiene	0.331	0.339	-2.4	138	-0.01	7.41
43	P	2,4,6-Trichlorophenol	0.379	0.391	-3.2	144	0.00	7.51
44	P	2,4,5-Trichlorophenol	0.400	0.410	-2.5	142	0.00	7.57
45	S	2-Fluorobiphenyl	1.379	1.344	2.5	136	0.00	7.63
46	P	1,1'-Biphenyl	1.586	1.441	9.1	128	0.00	7.75
47	P	2-Chloronaphthalene	1.210	1.160	4.1	133	0.00	7.77
48	P	2-Nitroaniline	0.380	0.397	-4.5	141	0.00	7.96
49		p-Dinitrobenzene	0.229	0.265	-15.7	150	0.00	8.12
50	P	Dimethylphthalate	1.302	1.254	3.7	134	0.00	8.30
51		m-Dinitrobenzene	0.213	0.235	-10.3	146	0.00	8.31
52	P	2,6-Dinitrotoluene	0.288	0.294	-2.1	139	0.00	8.39
53		o-Dinitrobenzene	0.192	0.190	1.0	133	0.00	8.49
54	P	Acenaphthylene	1.993	1.890	5.2	132	0.00	8.39
55	P	3-Nitroaniline	0.385	0.401	-4.2	143	0.00	8.60
56	P	Acenaphthene	1.266	1.200	5.2	131	0.00	8.67
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	42.652	14.7	113	0.00	8.75
		----------	AvgRF	CCRF	%Dev	----------		
58	P	4-Nitrophenol	0.170	0.186	-9.4	148	0.02	8.89
59	P	Dibenzofuran	1.626	1.599	1.7	136	0.00	8.93
60	P	2,4-Dinitrotoluene	0.361	0.402	-11.4	147	0.01	9.01
61	P	2,3,5,6-Tetrachlorophenol	0.299	0.316	-5.7	143	0.01	9.13
62	P	2,3,4,6-Tetrachlorophenol	0.295	0.302	-2.4	139	0.01	9.20
63	P	Diethylphthalate	1.315	1.310	0.4	137	0.02	9.46
64	P	Fluorene	1.354	1.318	2.7	134	0.02	9.49
65	P	4-Chlorophenyl-phenylethe	0.576	0.558	3.1	133	0.02	9.51
66	P	4-Nitroaniline	0.355	0.376	-5.9	143	0.03	9.62
67	I	Phenanthrene-d10	1.000	1.000	0.0	142	0.00	11.11
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	53.040	-6.1	151	-0.01	9.69
		----------	AvgRF	CCRF	%Dev	----------		
69	P	n-Nitrosodiphenylamine	0.604	0.589	2.5	136	-0.02	9.74
70		1,2-Diphenylhydrazine	0.978	0.885	9.5	126	-0.02	9.78
71	S	2,4,6-Tribromophenol	0.106	0.096	9.4	127	-0.02	9.94
72	P	4-Bromophenyl-phenylether	0.208	0.199	4.3	135	0.00	10.35
73	P	Hexachlorobenzene	0.226	0.210	7.1	129	0.00	10.58
74		Simazine	0.100	0.086	14.0	119	0.00	10.71
75	P	Atrazine	0.199	0.187	6.0	131	0.01	10.79
76	P	Pentachlorophenol	0.147	0.158	-7.5	141	0.00	10.91
77	P	Phenanthrene	1.151	1.092	5.1	133	0.00	11.15
78	P	Anthracene	1.184	1.126	4.9	132	0.00	11.23
79	P	Carbazole	1.126	1.066	5.3	131	0.01	11.56
80	P	Di-n-butylphthalate	1.392	1.341	3.7	132	0.03	12.41
81	P	Fluoranthene	1.079	1.036	4.0	132	0.03	13.34
82	I	Chrysene-d12	1.000	1.000	0.0	130	0.00	16.07

Continuing Calibration Summary

Job Number: F95274 **Sample:** SX1192-CC1186
Account: SEITXH SHAW E & I **Lab FileID:** X024535.D
Project: Holloman AFB; NM

83		Benzidine	0.725	0.737	-1.7	134	-0.03	13.66
84	P	Pyrene	1.465	1.483	-1.2	128	-0.03	13.74
85	S	Terphenyl-d14	0.917	0.924	-0.8	128	-0.02	14.15
86	P	Butylbenzylphthalate	0.717	0.745	-3.9	131	0.00	15.22
87	P	3,3'-Dichlorobenzidine	0.418	0.431	-3.1	127	0.00	16.09
88	P	Benzo[a]anthracene	1.155	1.171	-1.4	127	0.00	16.03
89	P	Chrysene	1.106	1.075	2.8	122	0.00	16.12
90	P	bis(2-Ethylhexyl)phthalat	0.987	1.002	-1.5	127	0.02	16.42
91	I	Perylene-d12	1.000	1.000	0.0	131	0.00	18.59
92	P	Di-n-octylphthalate	1.754	1.878	-7.1	130	0.00	17.54
93	P	Benzo[b]fluoranthene	1.118	1.163	-4.0	130	0.00	17.98
94	P	Benzo[k]fluoranthene	1.189	1.142	4.0	117	0.00	18.02
95	P	Benzo[a]pyrene	1.118	1.123	-0.4	125	0.00	18.49
96	P	Indeno[1,2,3-cd]pyrene	0.946	0.927	2.0	100	0.01	20.18
97	P	Dibenz[a,h]anthracene	0.967	0.937	3.1	123	0.02	20.23
98	P	Benzo[g,h,i]perylene	1.043	0.989	5.2	128	0.00	20.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X024405.D 8270d.m Mon Jul 30 08:34:28 2012

8.9.9

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058485.D
Acq On : 30 Jul 2012 8:02 pm
Operator : nancyf
Sample : f95274-1
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 07:51:50 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.262	152	89329	40.00 ppm	0.00
22) Naphthalene-d8	5.255	136	324250	40.00 ppm	0.00
42) Acenaphthene-d10	7.290	164	182357	40.00 ppm	0.00
68) Phenanthrene-d10	9.619	188	275945	40.00 ppm	0.00
83) Chrysene-d12	14.442	240	232632	40.00 ppm	-0.01
92) Perylene-d12	16.920	264	200118	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.359	112	234278	72.82 ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.82%		
9) Phenol-d5	4.086	99	305128	85.82 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 85.82%		
23) Nitrobenzene-d5	4.689	82	138355	38.31 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.62%		
46) 2-Fluorobiphenyl	6.425	172	261191	41.72 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 83.44%		
72) 2,4,6-Tribromophenol	8.519	330	70433	92.24 ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 92.24%		
86) Terphenyl-d14	12.621	244	230920	43.99 ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 87.98%		

Target Compounds					Qvalue
81) Di-n-butylphthalate	10.970	149	5913	0.71 ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

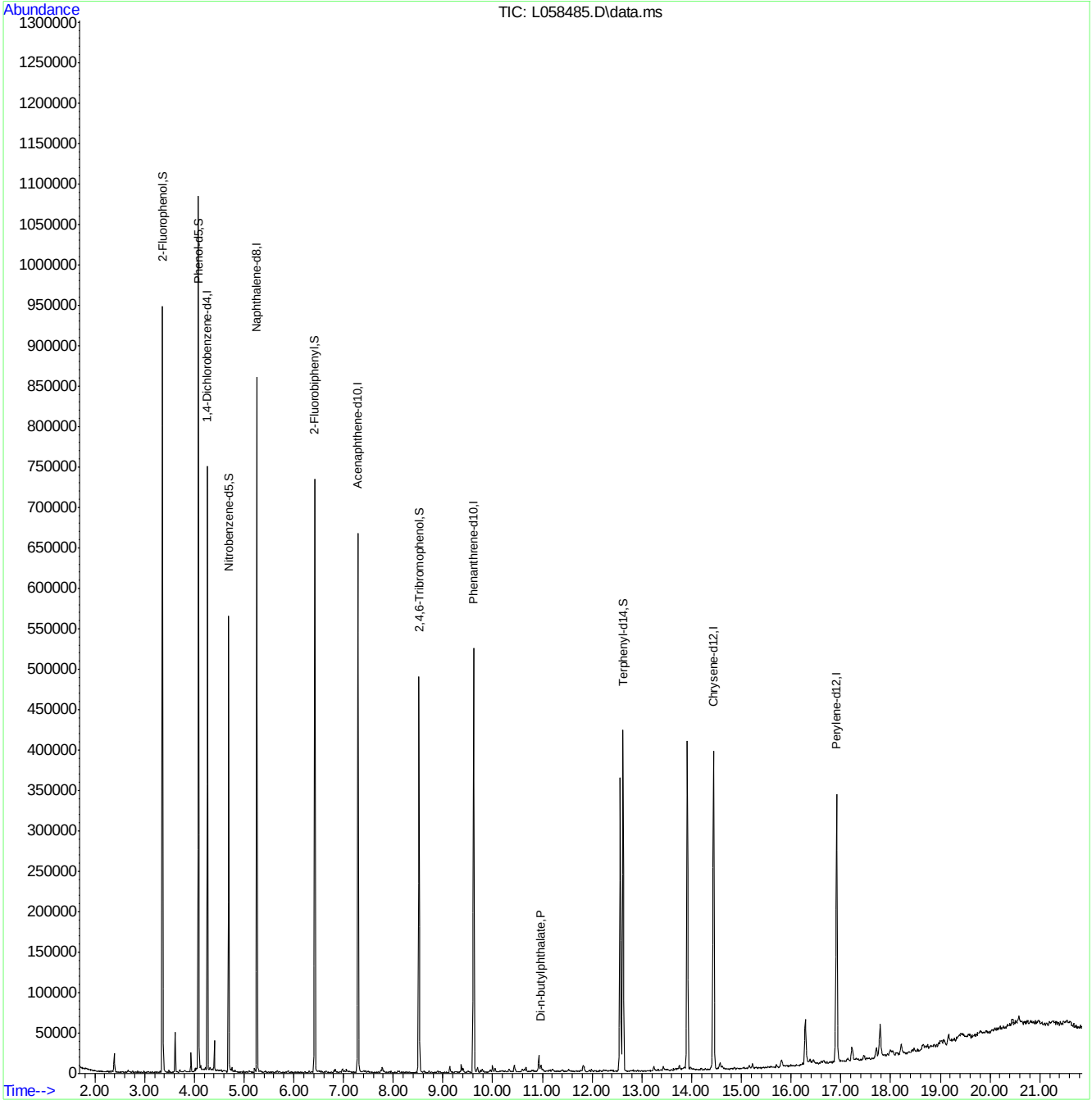
9.1.1

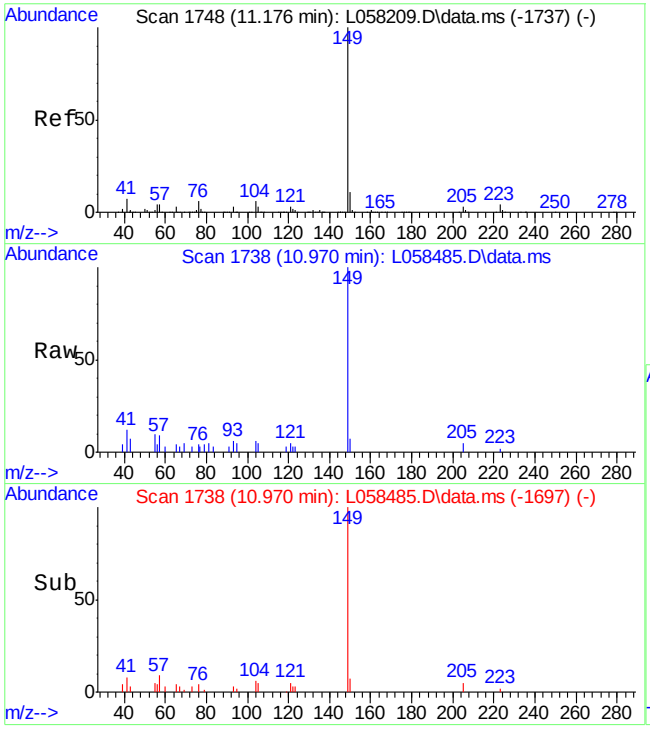
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058485.D
Acq On : 30 Jul 2012 8:02 pm
Operator : nancyf
Sample : f95274-1
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 07:51:50 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

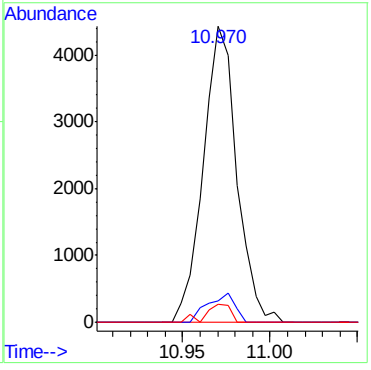




#81
Di-n-butylphthalate
Concen: 0.71 ppm
RT: 10.970 min Scan# 1738
Delta R.T. 0.018 min
Lab File: L058485.D
Acq: 30 Jul 2012 8:02 pm

Tgt Ion:149 Resp: 5913

Ion	Ratio	Lower	Upper
149	100		
150	7.2	0.0	40.7
104	6.0	0.0	35.3



9.1.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058486.D
Acq On : 30 Jul 2012 8:30 pm
Operator : nancyf
Sample : f95274-2
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 07:52:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.262	152	86086	40.00	ppm	0.00
22) Naphthalene-d8	5.255	136	313738	40.00	ppm	0.00
42) Acenaphthene-d10	7.290	164	179680	40.00	ppm	0.00
68) Phenanthrene-d10	9.619	188	276944	40.00	ppm	0.00
83) Chrysene-d12	14.447	240	233435	40.00	ppm	0.00
92) Perylene-d12	16.920	264	203867	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.359	112	196921	63.51	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 63.51%			
9) Phenol-d5	4.085	99	246664	70.52	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.52%			
23) Nitrobenzene-d5	4.689	82	113753	32.56	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 65.12%			
46) 2-Fluorobiphenyl	6.419	172	210578	34.14	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.28%			
72) 2,4,6-Tribromophenol	8.518	330	61283	79.97	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 79.97%			
86) Terphenyl-d14	12.620	244	214804	40.78	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 81.56%			

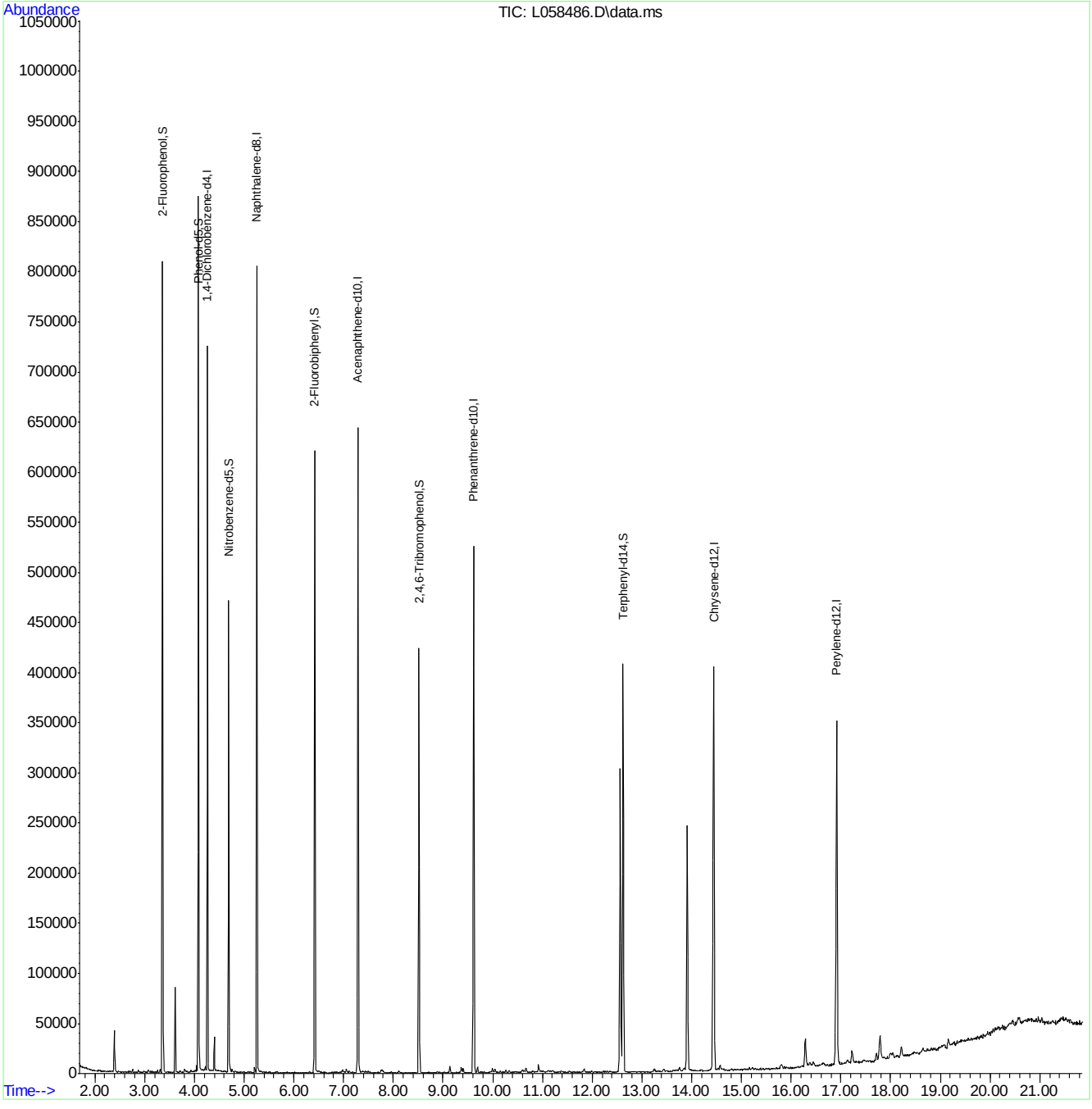
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058486.D
Acq On : 30 Jul 2012 8:30 pm
Operator : nancyf
Sample : f95274-2
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 07:52:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



8270da.m Tue Jul 31 08:30:50 2012 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058487.D
Acq On : 30 Jul 2012 8:58 pm
Operator : nancyf
Sample : f95274-3
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 31 08:02:20 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.264	152	89293	40.00	ppm	0.00
22) Naphthalene-d8	5.257	136	325970	40.00	ppm	0.00
42) Acenaphthene-d10	7.292	164	187622	40.00	ppm	0.00
68) Phenanthrene-d10	9.616	188	281945	40.00	ppm	0.00
83) Chrysene-d12	14.444	240	235121	40.00	ppm	0.00
92) Perylene-d12	16.917	264	201060	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.356	112	197278	61.34	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 61.34%			
9) Phenol-d5	4.082	99	252649	69.54	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 69.54%			
23) Nitrobenzene-d5	4.691	82	111896	30.82	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 61.64%			
46) 2-Fluorobiphenyl	6.422	172	215631	33.48	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 66.96%			
72) 2,4,6-Tribromophenol	8.521	330	65317	83.72	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 83.72%			
86) Terphenyl-d14	12.623	244	212861	40.12	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 80.24%			

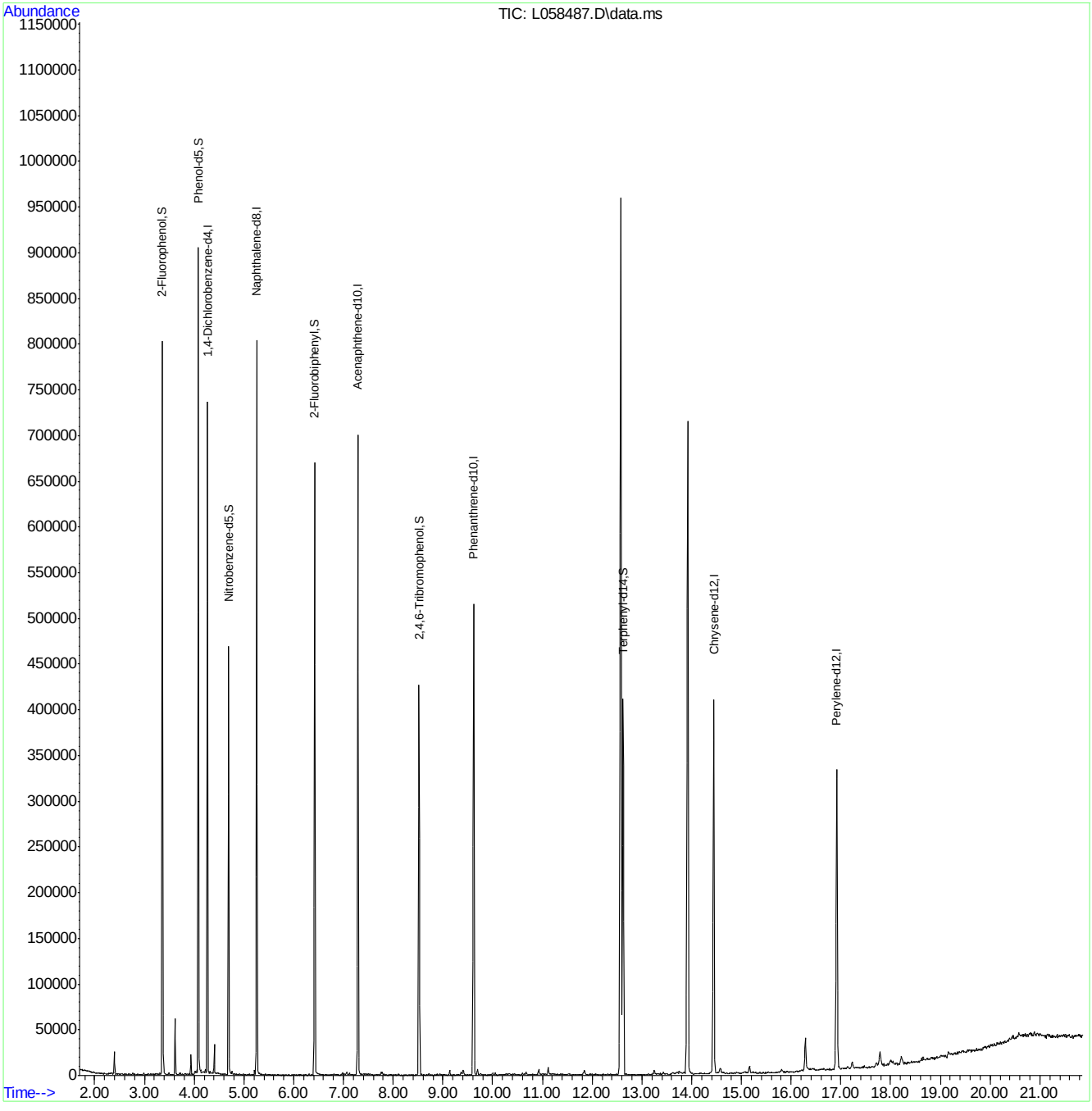
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058487.D
Acq On : 30 Jul 2012 8:58 pm
Operator : nancyf
Sample : f95274-3
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 31 08:02:20 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058488.D
Acq On : 30 Jul 2012 9:25 pm
Operator : nancyf
Sample : f95274-4
Misc : op42829,sl2984,30.4,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 31 08:02:40 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.263	152	92539	40.00	ppm	0.00
22) Naphthalene-d8	5.256	136	340362	40.00	ppm	0.00
42) Acenaphthene-d10	7.291	164	195711	40.00	ppm	0.00
68) Phenanthrene-d10	9.620	188	295382	40.00	ppm	0.00
83) Chrysene-d12	14.443	240	241979	40.00	ppm	-0.01
92) Perylene-d12	16.921	264	210298	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.360	112	213648	64.10	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 64.10%			
9) Phenol-d5	4.081	99	272335	72.63	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 72.63%			
23) Nitrobenzene-d5	4.690	82	124412	32.82	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 65.64%			
46) 2-Fluorobiphenyl	6.421	172	234626	34.92	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.84%			
72) 2,4,6-Tribromophenol	8.520	330	64568	78.99	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.99%			
86) Terphenyl-d14	12.622	244	208083	38.11	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 76.22%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

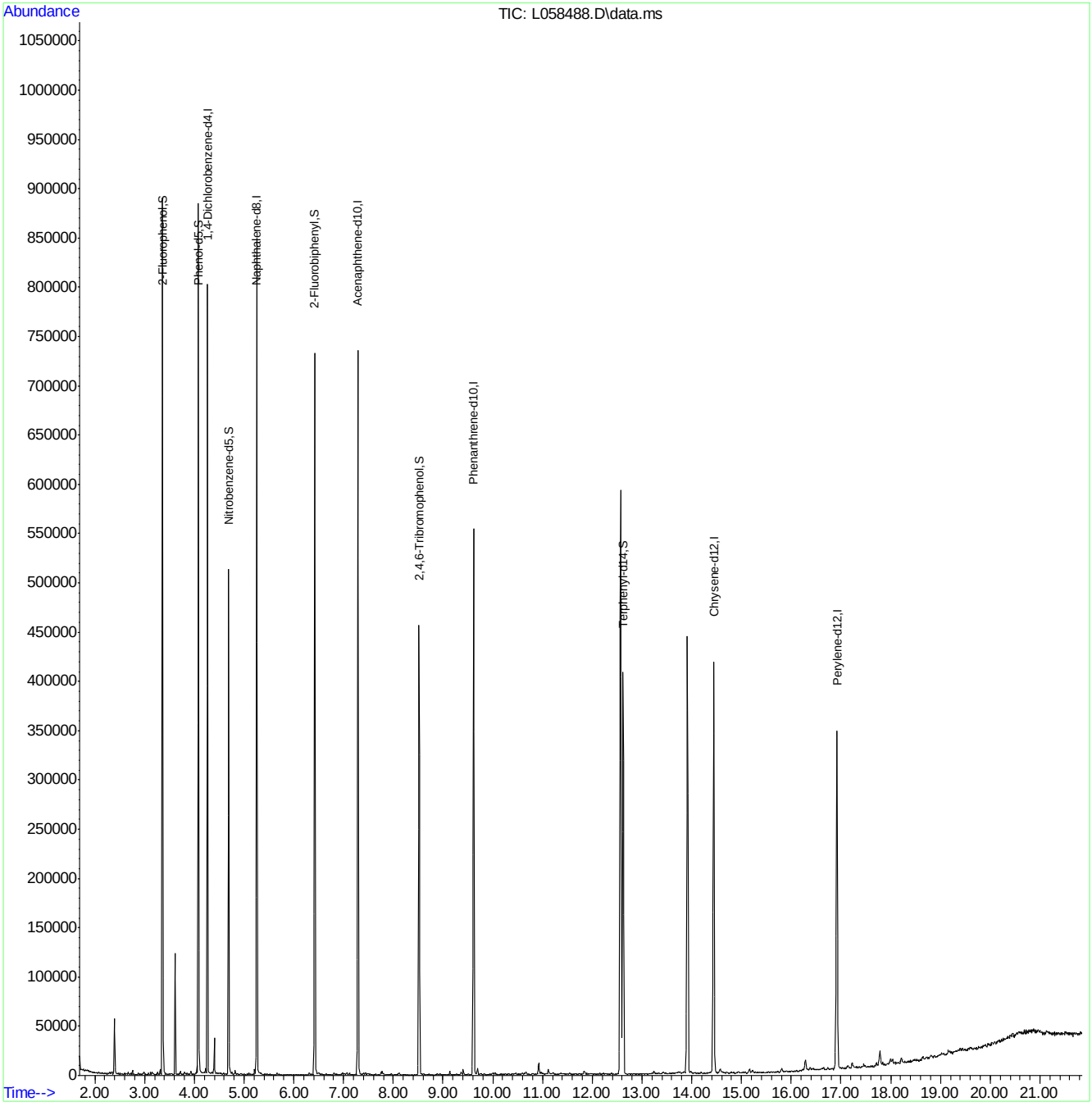
9.1.4

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058488.D
Acq On : 30 Jul 2012 9:25 pm
Operator : nancyf
Sample : f95274-4
Misc : op42829,sl2984,30.4,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 31 08:02:40 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058489.D
Acq On : 30 Jul 2012 9:53 pm
Operator : nancyf
Sample : f95274-5
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 31 08:03:05 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.263	152	92100	40.00	ppm	0.00
22) Naphthalene-d8	5.256	136	338289	40.00	ppm	0.00
42) Acenaphthene-d10	7.291	164	192911	40.00	ppm	0.00
68) Phenanthrene-d10	9.620	188	296146	40.00	ppm	0.00
83) Chrysene-d12	14.443	240	245347	40.00	ppm	-0.01
92) Perylene-d12	16.921	264	211675	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.355	112	218945	66.00	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 66.00%			
9) Phenol-d5	4.081	99	281951	75.89	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 75.89%			
23) Nitrobenzene-d5	4.690	82	128072	33.99	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 67.98%			
46) 2-Fluorobiphenyl	6.420	172	239023	36.09	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 72.18%			
72) 2,4,6-Tribromophenol	8.520	330	67024	81.79	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 81.79%			
86) Terphenyl-d14	12.621	244	228924	41.35	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 82.70%			

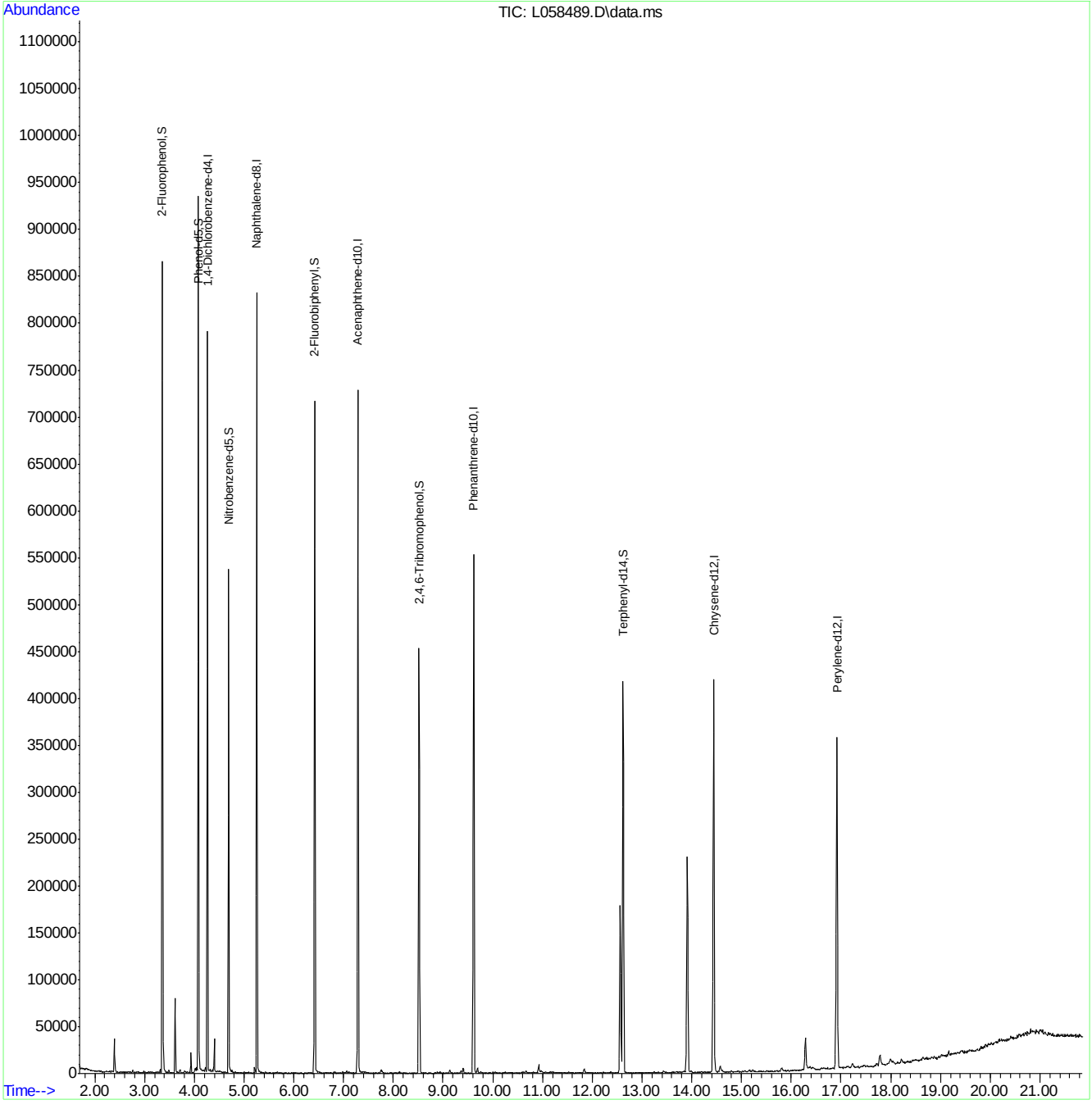
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058489.D
Acq On : 30 Jul 2012 9:53 pm
Operator : nancyf
Sample : f95274-5
Misc : op42829,sl2984,30.1,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 31 08:03:05 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058490.D
Acq On : 30 Jul 2012 10:20 pm
Operator : nancyf
Sample : f95274-6
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 31 08:03:22 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.265	152	96391	40.00	ppm	0.00
22) Naphthalene-d8	5.253	136	352163	40.00	ppm	0.00
42) Acenaphthene-d10	7.293	164	200734	40.00	ppm	0.00
68) Phenanthrene-d10	9.616	188	305099	40.00	ppm	0.00
83) Chrysene-d12	14.445	240	256194	40.00	ppm	0.00
92) Perylene-d12	16.923	264	216205	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.357	112	234523	67.55	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 67.55%			
9) Phenol-d5	4.083	99	296886	76.40	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 76.40%			
23) Nitrobenzene-d5	4.692	82	135925	34.66	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.32%			
46) 2-Fluorobiphenyl	6.422	172	255321	37.05	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 74.10%			
72) 2,4,6-Tribromophenol	8.522	330	74293	88.00	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 88.00%			
86) Terphenyl-d14	12.623	244	245004	42.38	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 84.76%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

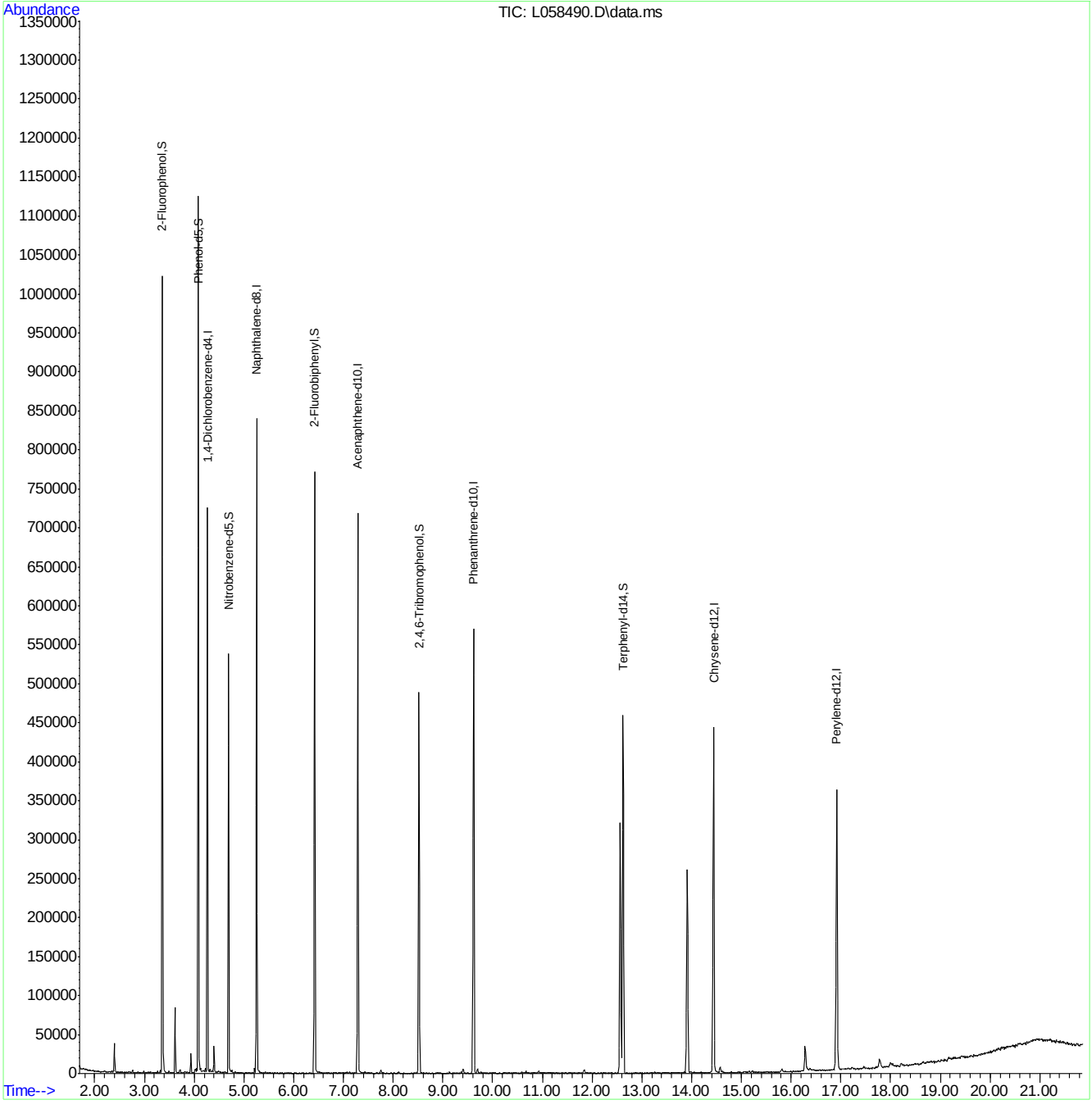
9.1.6

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058490.D
Acq On : 30 Jul 2012 10:20 pm
Operator : nancyf
Sample : f95274-6
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 31 08:03:22 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



8270da.m Tue Jul 31 08:31:32 2012 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024556.D
Acq On : 28 Jul 2012 7:04 pm
Operator : fouads
Sample : f95274-7a
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 07:23:45 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

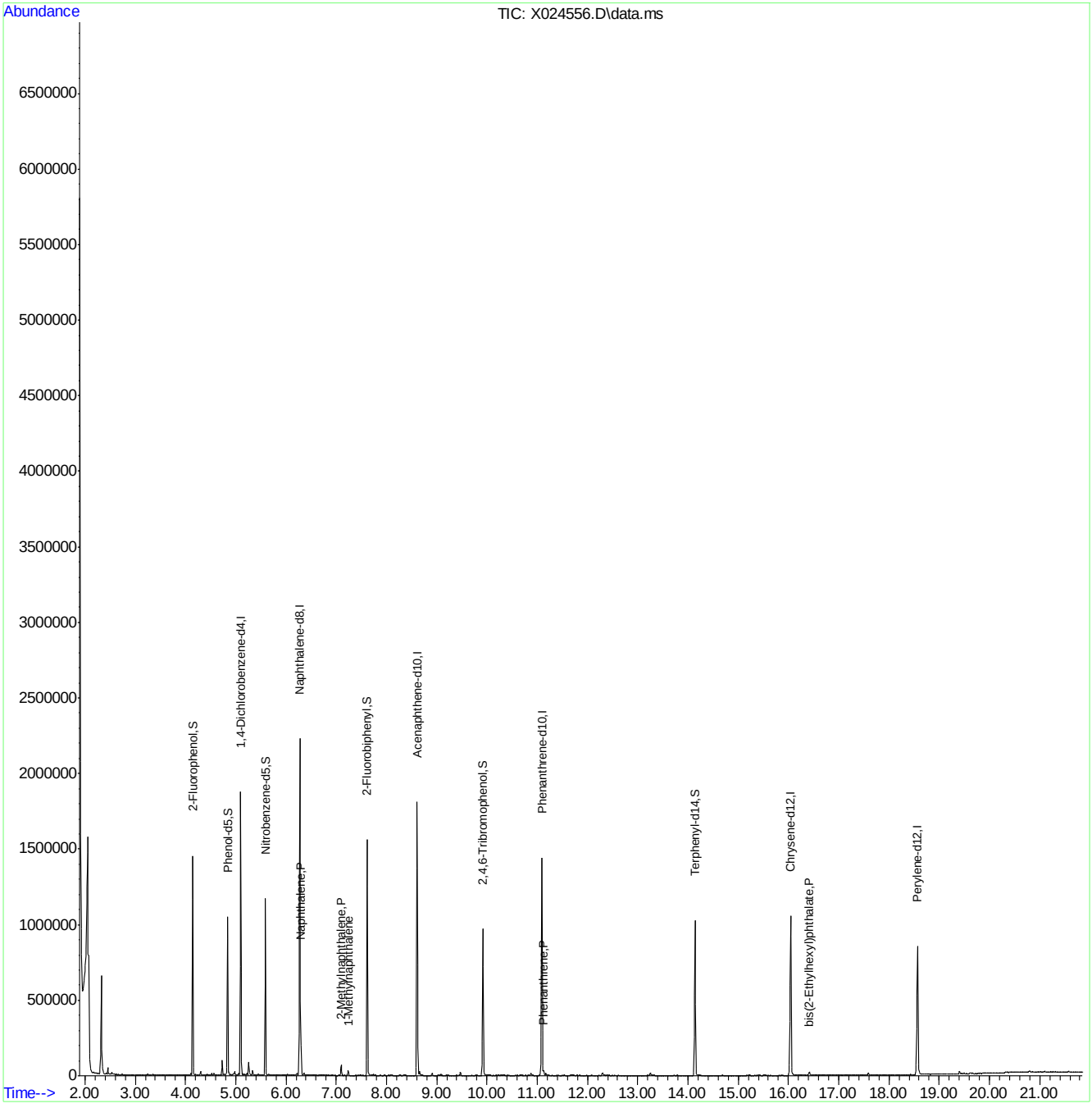
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	295061	40.00 ppm	0.00
22) Naphthalene-d8	6.278	136	1112220	40.00 ppm	0.00
41) Acenaphthene-d10	8.610	164	539767	40.00 ppm	-0.01
67) Phenanthrene-d10	11.097	188	789261	40.00 ppm	-0.01
82) Chrysene-d12	16.045	240	564215	40.00 ppm	-0.02
91) Perylene-d12	18.569	264	488616	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	4.144	112	410568	35.60 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 35.60%		
9) Phenol-d5	4.839	99	354793	23.54 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 23.54%		
23) Nitrobenzene-d5	5.588	82	369969	30.35 ppm	-0.02
Spiked Amount 50.000	Range 42 - 108		Recovery = 60.70%		
45) 2-Fluorobiphenyl	7.615	172	571013	30.69 ppm	-0.02
Spiked Amount 50.000	Range 40 - 106		Recovery = 61.38%		
71) 2,4,6-Tribromophenol	9.920	330	139808	66.82 ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 66.82%		
85) Terphenyl-d14	14.140	244	497781	38.47 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 76.94%		
Target Compounds					Qvalue
32) Naphthalene	6.294	128	270656	8.44 ppm	100
38) 2-Methylnaphthalene	7.096	142	22482	1.12 ppm	96
39) 1-Methylnaphthalene	7.241	142	10054	0.53 ppm	99
77) Phenanthrene	11.129	178	12663	0.56 ppm	98
90) bis(2-Ethylhexyl)phtha...	16.414	149	9733	0.70 ppm	92

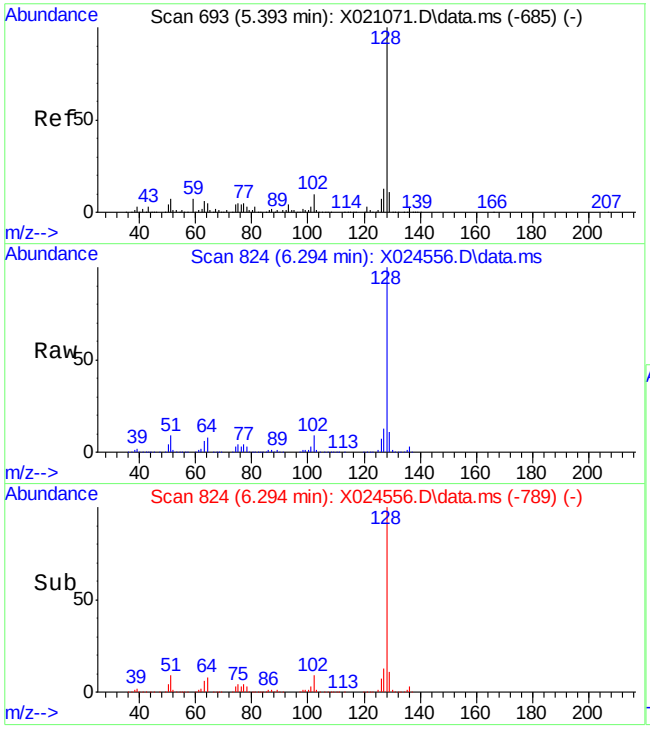
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024556.D
Acq On : 28 Jul 2012 7:04 pm
Operator : fouads
Sample : f95274-7a
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 07:23:45 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

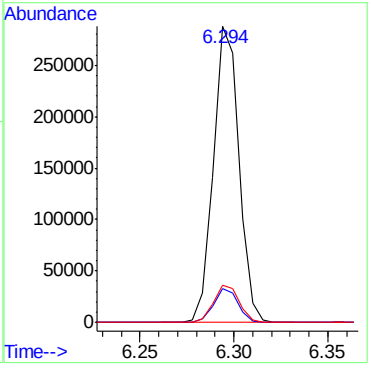


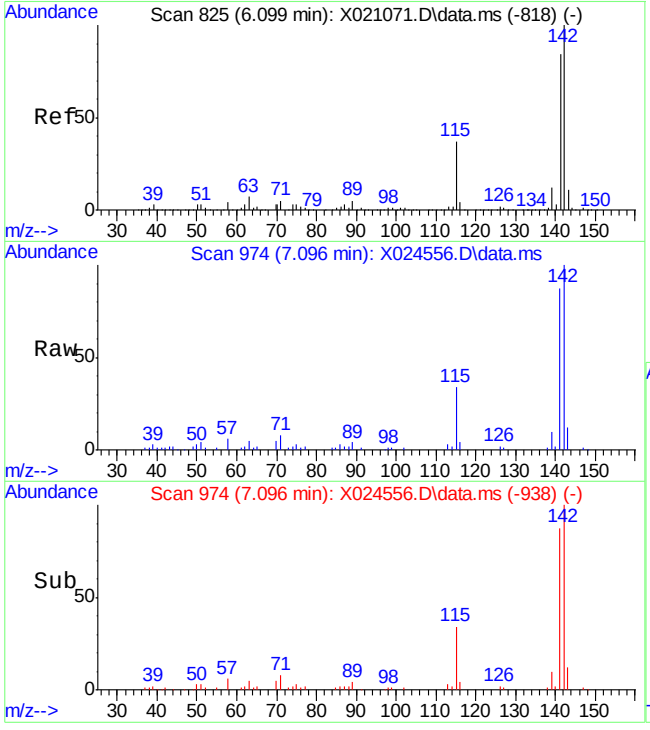


#32
Naphthalene
Concen: 8.44 ppm
RT: 6.294 min Scan# 824
Delta R.T. -0.014 min
Lab File: X024556.D
Acq: 28 Jul 2012 7:04 pm

Tgt Ion:128 Resp: 270656

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.1
127	12.7	0.0	42.7

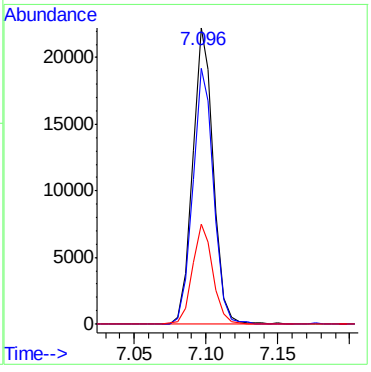


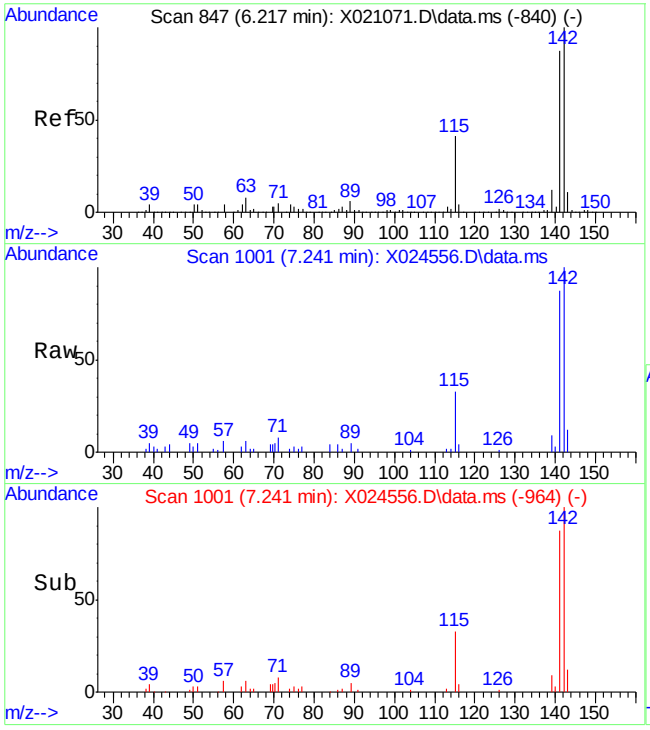


#38
2-Methylnaphthalene
Concen: 1.12 ppm
RT: 7.096 min Scan# 974
Delta R.T. -0.007 min
Lab File: X024556.D
Acq: 28 Jul 2012 7:04 pm

Tgt Ion:142 Resp: 22482

Ion	Ratio	Lower	Upper
142	100		
141	86.5	53.1	113.1
115	33.7	0.6	60.6

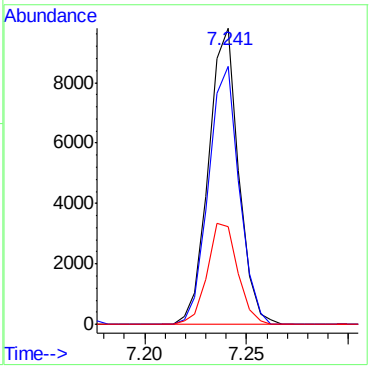


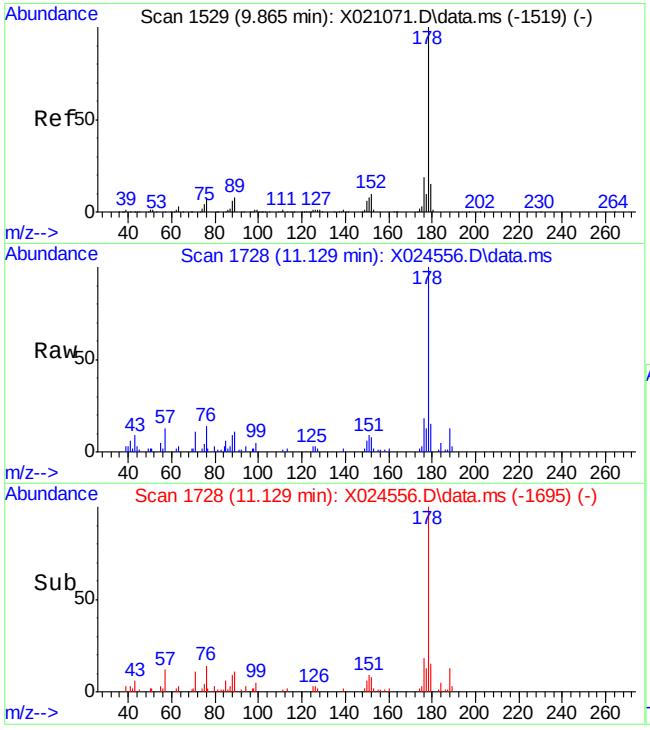


#39
1-Methylnaphthalene
Concen: 0.53 ppm
RT: 7.241 min Scan# 1001
Delta R.T. -0.002 min
Lab File: X024556.D
Acq: 28 Jul 2012 7:04 pm

Tgt Ion:142 Resp: 10054

Ion	Ratio	Lower	Upper
142	100		
141	87.2	56.2	116.2
115	32.8	2.0	62.0

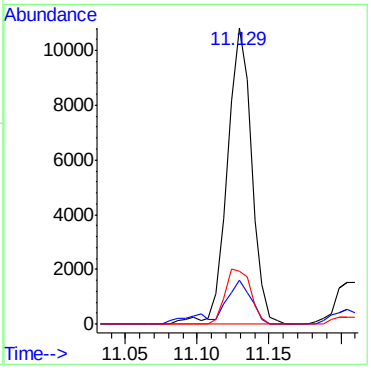


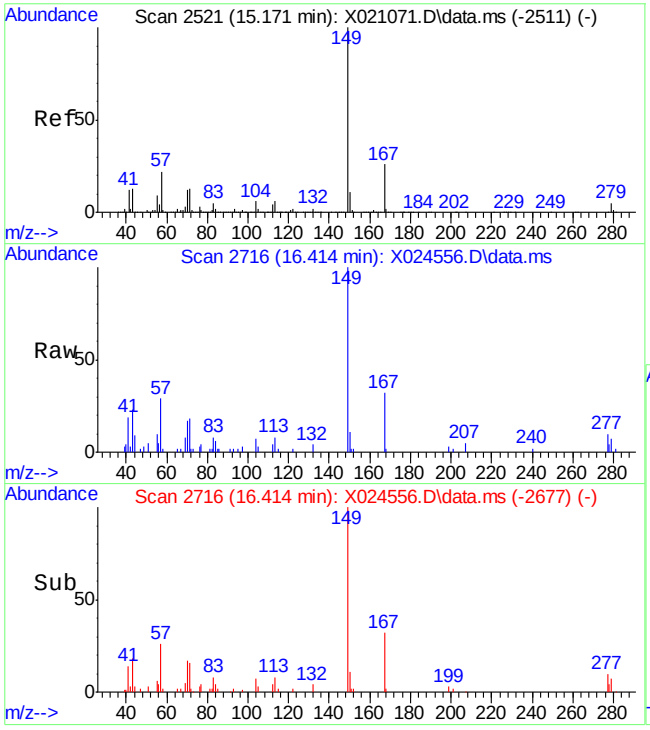


#77
Phenanthrene
Concen: 0.56 ppm
RT: 11.129 min Scan# 1728
Delta R.T. -0.023 min
Lab File: X024556.D
Acq: 28 Jul 2012 7:04 pm

Tgt Ion:178 Resp: 12663

Ion	Ratio	Lower	Upper
178	100		
179	14.7	0.0	45.5
176	17.7	0.0	48.9

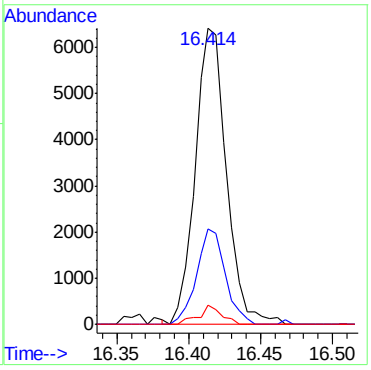




#90
bis(2-Ethylhexyl)phthalate
Concen: 0.70 ppm
RT: 16.414 min Scan# 2716
Delta R.T. 0.008 min
Lab File: X024556.D
Acq: 28 Jul 2012 7:04 pm

Tgt Ion:149 Resp: 9733

Ion	Ratio	Lower	Upper
149	100		
167	32.7	0.0	58.2
279	6.7	0.0	34.2



9.1.7

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058469.D
Acq On : 30 Jul 2012 12:25 pm
Operator : nancyf
Sample : op42829-mb
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:10:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.263	152	152688	40.00	ppm	0.00
22) Naphthalene-d8	5.257	136	544375	40.00	ppm	0.00
42) Acenaphthene-d10	7.292	164	315863	40.00	ppm	0.00
68) Phenanthrene-d10	9.615	188	467476	40.00	ppm	0.00
83) Chrysene-d12	14.443	240	376640	40.00	ppm	0.00
92) Perylene-d12	16.916	264	298535	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.382	112	390003	70.92	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 70.92%			
9) Phenol-d5	4.082	99	492426	80.44	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 80.44%			
23) Nitrobenzene-d5	4.690	82	242623	40.02	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 80.04%			
46) 2-Fluorobiphenyl	6.421	172	428419	39.51	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.02%			
72) 2,4,6-Tribromophenol	8.520	330	111633	86.30	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 86.30%			
86) Terphenyl-d14	12.622	244	383192	45.09	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 90.18%			

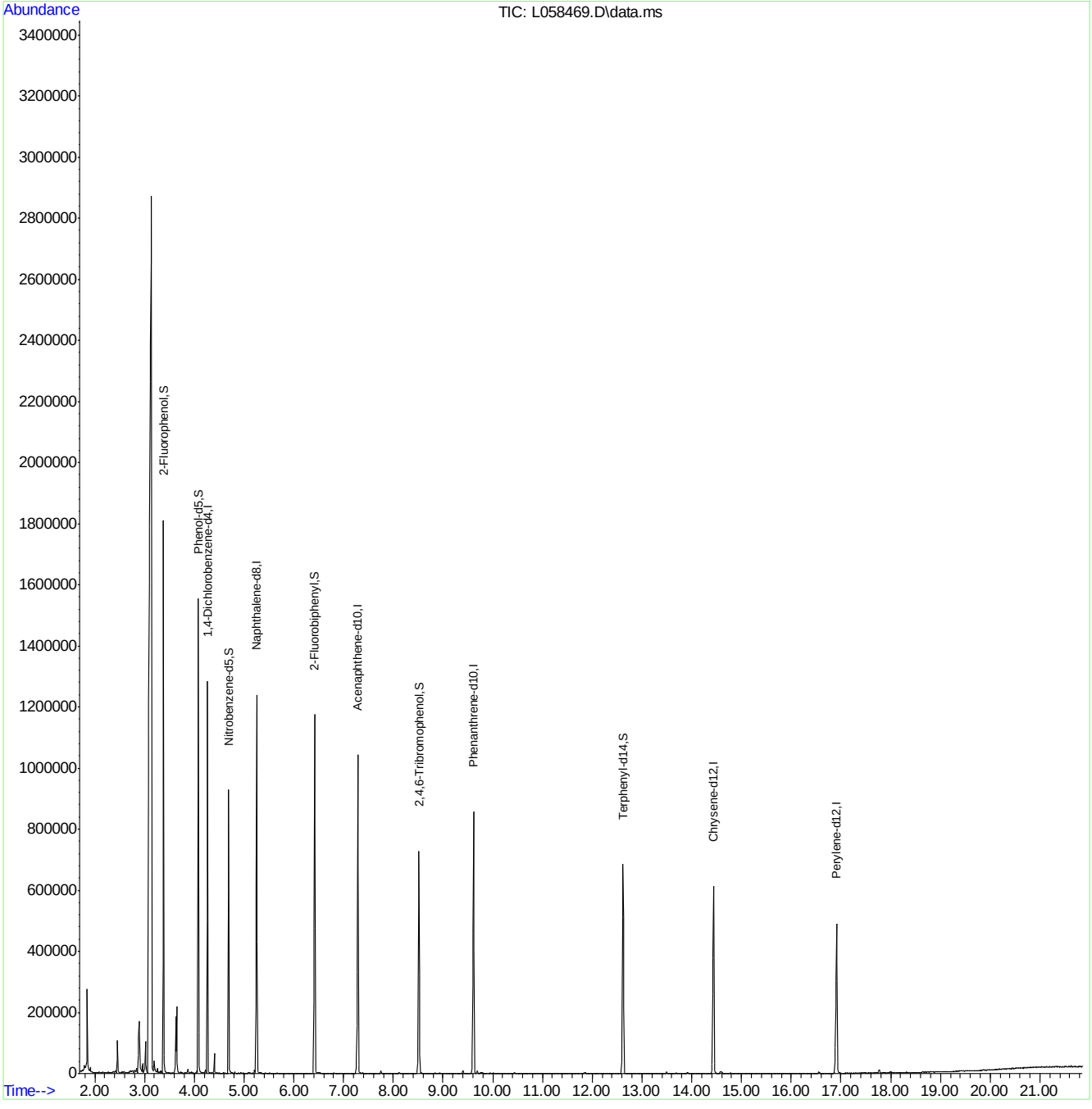
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058469.D
Acq On : 30 Jul 2012 12:25 pm
Operator : nancyf
Sample : op42829-mb
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 15:10:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058499.D
Acq On : 31 Jul 2012 11:56 am
Operator : nancyf
Sample : op42829-mb
Misc : op42829,sl2985,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 12:28:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.252	152	132534	40.00	ppm	0.00
22) Naphthalene-d8	5.240	136	475282	40.00	ppm	0.00
42) Acenaphthene-d10	7.270	164	272475	40.00	ppm	0.00
68) Phenanthrene-d10	9.593	188	383643	40.00	ppm	0.00
83) Chrysene-d12	14.411	240	284697	40.00	ppm	-0.02
92) Perylene-d12	16.884	264	214839	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	3.366	112	345973	72.48	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.48%			
9) Phenol-d5	4.071	99	437301	82.53	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 82.53%			
23) Nitrobenzene-d5	4.680	82	205506	38.83	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 77.66%			
46) 2-Fluorobiphenyl	6.405	172	372124	39.78	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.56%			
72) 2,4,6-Tribromophenol	8.493	330	92968	87.57	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.57%			
86) Terphenyl-d14	12.595	244	304093	47.34	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 94.68%			

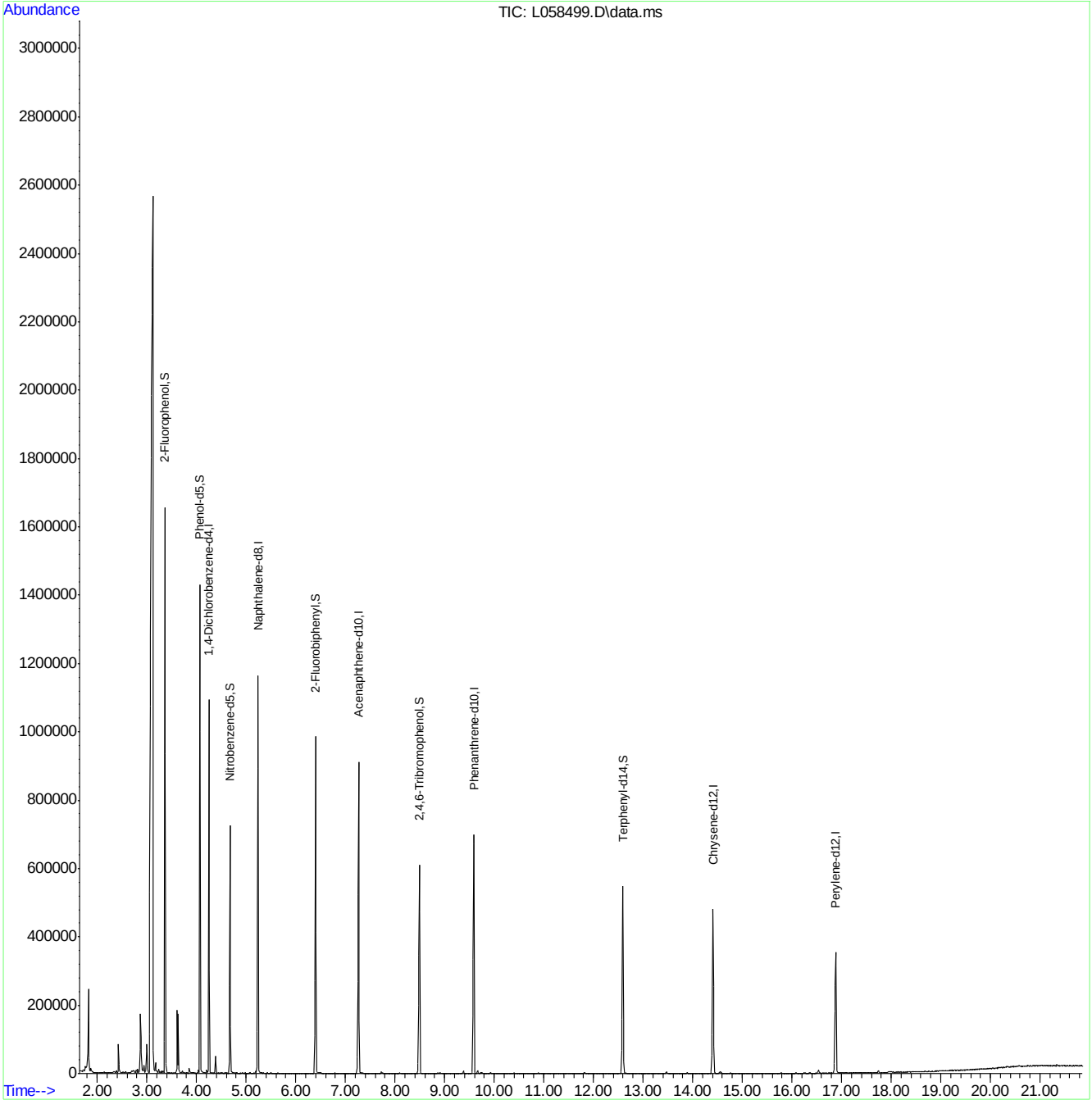
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058499.D
Acq On : 31 Jul 2012 11:56 am
Operator : nancyf
Sample : op42829-mb
Misc : op42829,sl2985,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 12:28:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration



8270da.m Tue Jul 31 12:28:51 2012 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024550.D
Acq On : 28 Jul 2012 4:19 pm
Operator : fouads
Sample : op42844-lb
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 07:10:50 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	273827	40.00 ppm	0.00
22) Naphthalene-d8	6.278	136	1044387	40.00 ppm	0.00
41) Acenaphthene-d10	8.610	164	505949	40.00 ppm	-0.01
67) Phenanthrene-d10	11.092	188	738295	40.00 ppm	-0.02
82) Chrysene-d12	16.045	240	533899	40.00 ppm	-0.02
91) Perylene-d12	18.569	264	476215	40.00 ppm	-0.02

System Monitoring Compounds					
5) 2-Fluorophenol	4.144	112	382046	35.70 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 35.70%		
9) Phenol-d5	4.839	99	315130	22.53 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 22.53%		
23) Nitrobenzene-d5	5.588	82	385718	33.69 ppm	-0.02
Spiked Amount 50.000	Range 42 - 108		Recovery = 67.38%		
45) 2-Fluorobiphenyl	7.615	172	594844	34.11 ppm	-0.02
Spiked Amount 50.000	Range 40 - 106		Recovery = 68.22%		
71) 2,4,6-Tribromophenol	9.920	330	140984	72.03 ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 72.03%		
85) Terphenyl-d14	14.140	244	524084	42.80 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 85.60%		

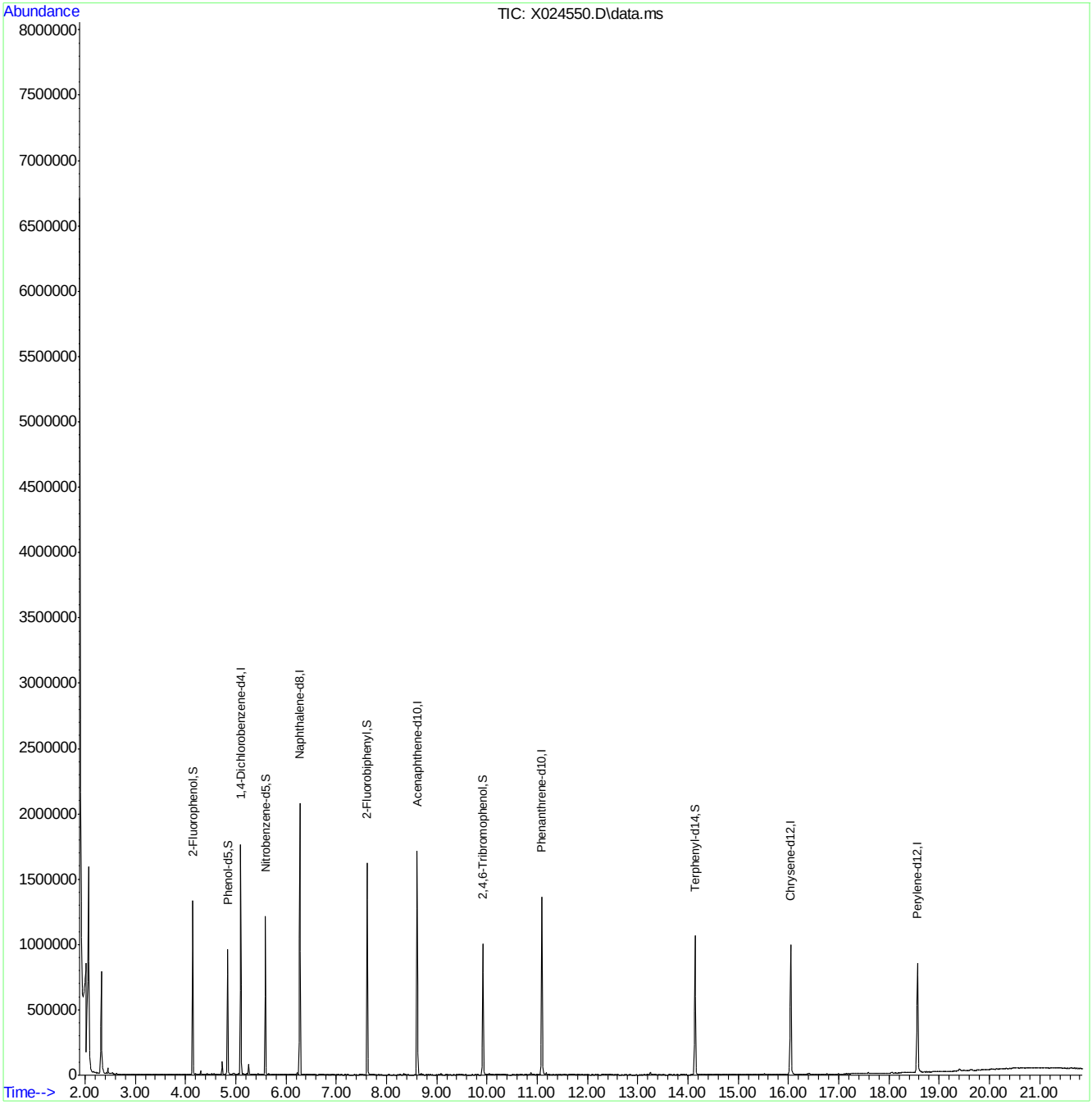
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024550.D
Acq On : 28 Jul 2012 4:19 pm
Operator : fouads
Sample : op42844-lb
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 07:10:50 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/31/12 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On : 30 Jul 2012 11:57 am
Operator : nancyf
Sample : op42829-bs
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:09:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.268	152	147924	40.00 ppm	0.00
22) Naphthalene-d8	5.261	136	515629	40.00 ppm	0.00
42) Acenaphthene-d10	7.296	164	291202	40.00 ppm	0.00
68) Phenanthrene-d10	9.625	188	431827	40.00 ppm	0.00
83) Chrysene-d12	14.453	240	323404	40.00 ppm	0.00
92) Perylene-d12	16.921	264	249050	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	3.381	112	345382	64.83 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 64.83%		
9) Phenol-d5	4.086	99	431832	71.99 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 71.99%		
23) Nitrobenzene-d5	4.695	82	207230	36.09 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 72.18%		
46) 2-Fluorobiphenyl	6.425	172	368417	36.85 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.70%		
72) 2,4,6-Tribromophenol	8.524	330	95658	80.05 ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 80.05%		
86) Terphenyl-d14	12.621	244	309173	42.37 ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 84.74%		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.843	88	56724	20.75 ppm	# 71
3) N-nitrosodimethylamine	2.190	42	76885	31.96 ppm	99
4) Pyridine	2.174	79	181563	28.02 ppm	99
5) Benzaldehyde	3.952	106	131773	30.32 ppm	97
6) Aniline	4.065	93	257969	29.04 ppm	69
8) bis(2-Chloroethyl)ether	4.113	93	182508	33.64 ppm	93
10) Phenol	4.097	94	248674	32.95 ppm	86
11) 2-Chlorophenol	4.145	128	202390	35.34 ppm	98
12) 1,3-Dichlorobenzene	4.235	146	198632	32.55 ppm	98
13) 1,4-Dichlorobenzene	4.278	146	199027	33.34 ppm	98
14) 1,2-Dichlorobenzene	4.412	146	193982	33.69 ppm	98
15) Benzyl alcohol	4.401	108	145399	35.68 ppm	99
16) bis(2-chloroisopropyl)...	4.508	45	216418	34.16 ppm	96
17) 2-Methylphenol	4.513	108	179029	33.93 ppm	85
18) Acetophenone	4.583	105	263732	34.50 ppm	99
19) Hexachloroethane	4.631	117	79975	33.09 ppm	92
20) N-Nitroso-di-n-propyla...	4.615	70	138907	35.32 ppm	99
21) 3&4-Methylphenol	4.620	108	358355	70.85 ppm	96
24) Nitrobenzene	4.711	77	204369	36.65 ppm	96
25) Isophorone	4.892	82	313529	31.16 ppm	96
26) 2-Nitrophenol	4.957	139	119113	39.07 ppm	98
27) 2,4-Dimethylphenol	5.015	107	179659	33.46 ppm	99
28) bis(2-Chloroethoxy)met...	5.085	93	231953	37.79 ppm	99
29) Benzoic Acid	5.208	105	320625	67.94 ppm	96
30) 2,4-Dichlorophenol	5.165	162	171175	39.15 ppm	98
31) 1,2,4-Trichlorobenzene	5.229	180	168914	35.56 ppm	98
32) alpha-Terpineol	5.288	59	139780	37.13 ppm	99
33) Naphthalene	5.277	128	495727	39.11 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On : 30 Jul 2012 11:57 am
Operator : nancyf
Sample : op42829-bs
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:09:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 4-Chloroaniline	5.357	127	128909	20.26	ppm		97
35) 2,6-Dichlorophenol	5.362	162	162438	37.53	ppm		97
36) Hexachlorobutadiene	5.448	225	96195	38.48	ppm		98
37) Caprolactam	5.710	113	63935m	35.43	ppm		
38) 4-Chloro-3-methylphenol	5.875	107	180133	38.26	ppm	#	100
39) 2-Methylnaphthalene	5.961	142	357871	37.98	ppm		99
40) 1-Methylnaphthalene	6.078	142	337582	37.96	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.201	216	166024	36.43	ppm		99
43) Hexachlorocyclopentadiene	6.222	237	104508	40.37	ppm		99
44) 2,4,6-Trichlorophenol	6.340	196	118275	39.14	ppm		100
45) 2,4,5-Trichlorophenol	6.393	196	121720	38.36	ppm		98
47) 1,1'-Biphenyl	6.527	154	399000	39.78	ppm		100
48) 2-Chloronaphthalene	6.527	162	319024	38.03	ppm		99
49) 2-Nitroaniline	6.724	65	105725	36.78	ppm		96
51) Acenaphthylene	7.077	152	504823	36.90	ppm		98
52) Dimethylphthalate	7.045	163	363141	38.33	ppm		99
53) m-Dinitrobenzene	7.045	168	66118	36.36	ppm	#	57
54) 2,6-Dinitrotoluene	7.120	165	91621	37.62	ppm		97
56) Acenaphthene	7.344	153	326174	38.23	ppm		99
57) 3-Nitroaniline	7.301	138	62180	22.22	ppm		95
58) 2,4-Dinitrophenol	7.461	184	102499	62.86	ppm		98
59) Dibenzofuran	7.574	168	440088	37.38	ppm		99
60) 2,4-Dinitrotoluene	7.691	165	115454	36.43	ppm		99
61) 4-Nitrophenol	7.659	109	91987	69.68	ppm		93
63) 2,3,4,6-Tetrachlorophenol	7.857	232	94224	38.26	ppm		98
64) Fluorene	8.097	166	366572	37.76	ppm		99
65) 4-Chlorophenyl-phenyle...	8.145	204	172179	38.39	ppm		100
66) Diethylphthalate	8.124	149	345708	38.34	ppm		100
67) 4-Nitroaniline	8.263	138	93861	34.40	ppm		100
69) 4,6-Dinitro-2-methylph...	8.337	198	145896	83.04	ppm		64
70) n-Nitrosodiphenylamine	8.369	169	252922	39.22	ppm		98
71) 1,2-Diphenylhydrazine	8.396	77	377918	39.63	ppm		99
73) 4-Bromophenyl-phenylether	8.925	248	101109	41.38	ppm		98
74) Hexachlorobenzene	9.128	284	105711	40.40	ppm		99
76) Atrazine	9.400	200	95357	39.55	ppm		95
77) Pentachlorophenol	9.475	266	133310	78.60	ppm		97
78) Phenanthrene	9.667	178	441053	39.01	ppm		100
79) Anthracene	9.742	178	449842	38.73	ppm		98
80) Carbazole	10.084	167	430209	37.18	ppm		100
81) Di-n-butylphthalate	10.976	149	494685	38.00	ppm		100
82) Fluoranthene	11.777	202	422949	36.35	ppm		99
84) Benzidine	12.135	184	75179	11.87	ppm		99
85) Pyrene	12.162	202	435128	41.62	ppm		98
87) Butylbenzylphthalate	13.716	149	199652	40.96	ppm		95
88) 3,3'-Dichlorobenzidine	14.512	252	78841	22.73	ppm		99
89) Benzo[a]anthracene	14.421	228	360659	40.15	ppm		99
90) Chrysene	14.496	228	313839	39.37	ppm		100
91) bis(2-Ethylhexyl)phtha...	14.944	149	266595	42.62	ppm		99
93) Di-n-octylphthalate	16.050	149	418449	45.50	ppm		100
94) Benzo[b]fluoranthene	16.317	252	306539	41.22	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On : 30 Jul 2012 11:57 am
Operator : nancyf
Sample : op42829-bs
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:09:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Benzo[k]fluoranthene	16.365	252	292113	40.36 ppm	98
96) Benzo[a]pyrene	16.819	252	268244	37.86 ppm	100
97) Indeno[1,2,3-cd]pyrene	18.491	276	223251	38.56 ppm	100
98) Dibenz[a,h]anthracene	18.544	278	220530	38.01 ppm	99
99) Benzo[g,h,i]perylene	18.822	276	229168	37.31 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

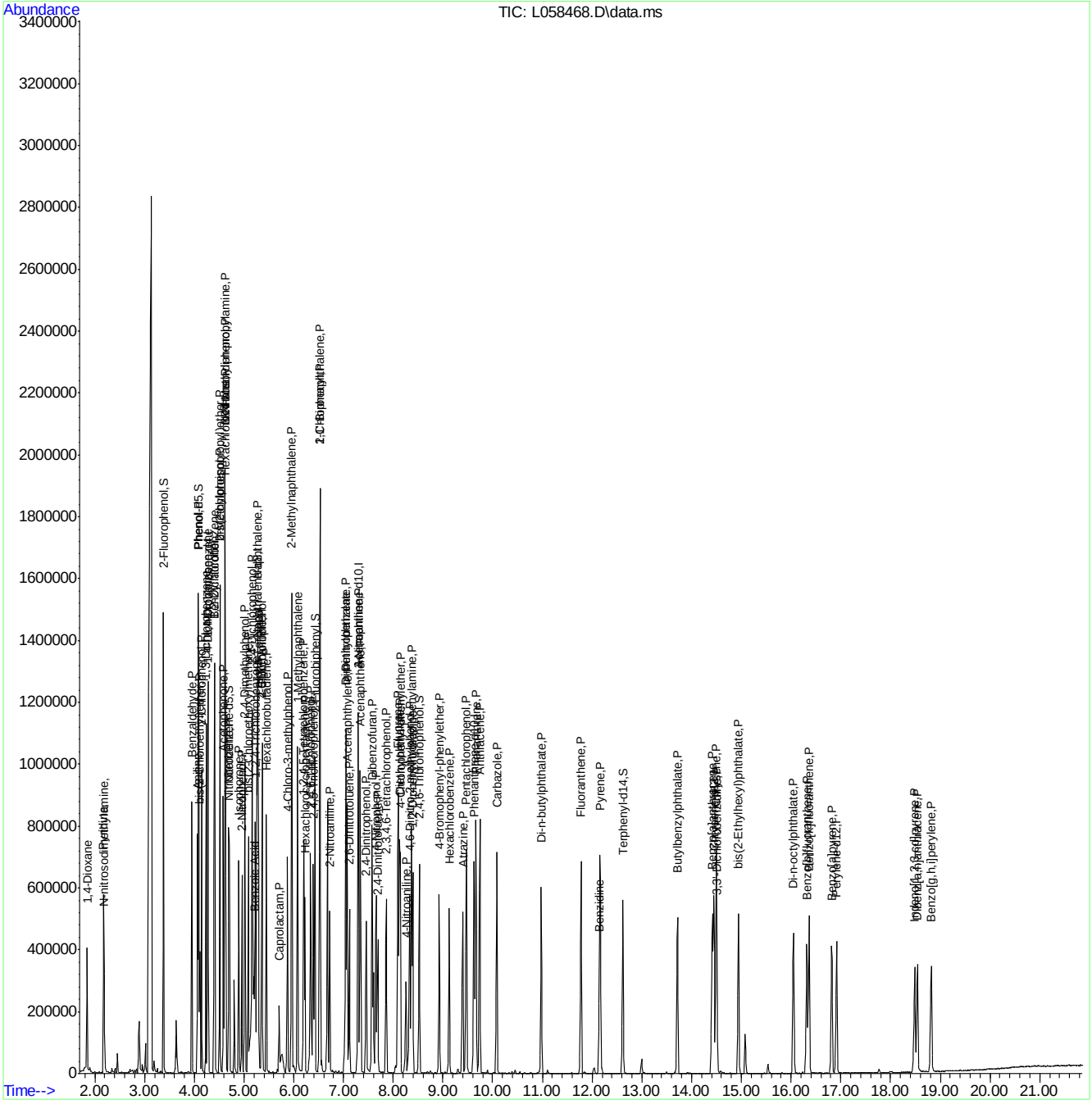
9.4.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On : 30 Jul 2012 11:57 am
Operator : nancyf
Sample : op42829-bs
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:09:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	OP42829-BS	**Method:**	SW846 8270D
Lab FileID:	L058468.D	**Analyst approved:**	07/31/12 08:57 Nancy Filiault
Injection Time:	07/30/12 11:57	**Supervisor approved:**	07/31/12 09:58 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.71	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On    : 30 Jul 2012  11:57 am
Operator  : nancyf
Sample    : op42829-bs
Misc      : op42829,sl2984,30.0,,,1,1,soil
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Jul 30 15:07:01 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration
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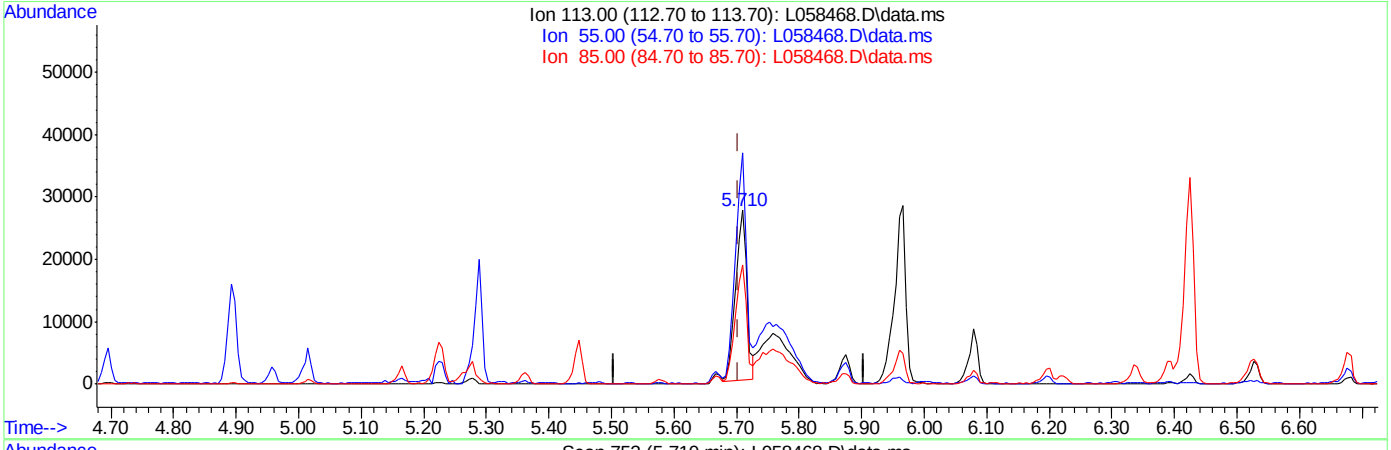
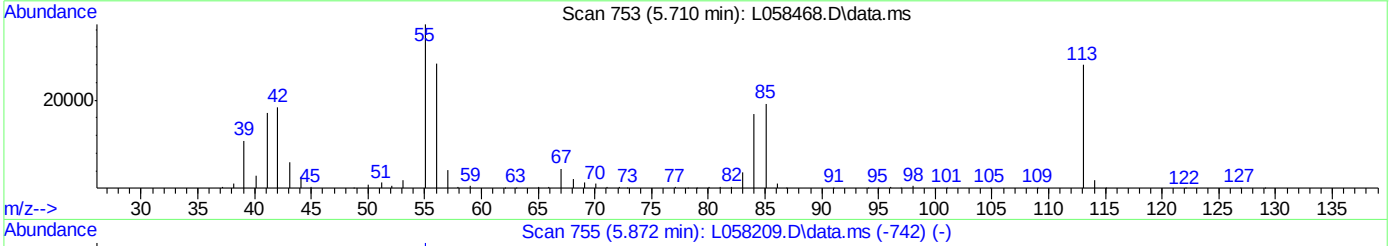
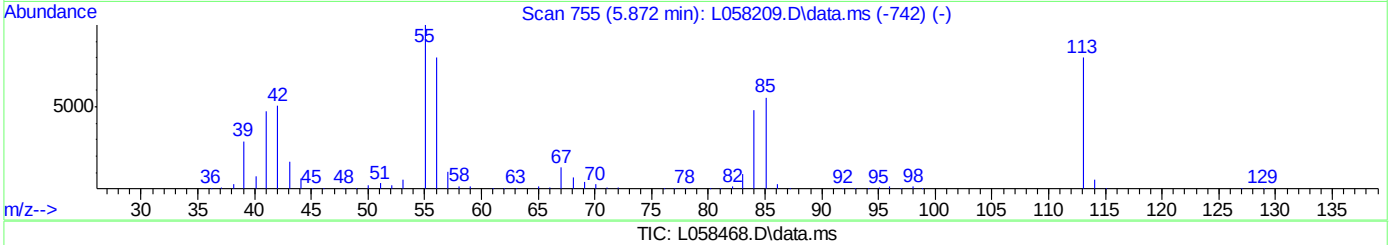






TIC: L058468.D\data.ms

(37) Caprolactam (P)

5.710min (+0.006) 18.84ppm

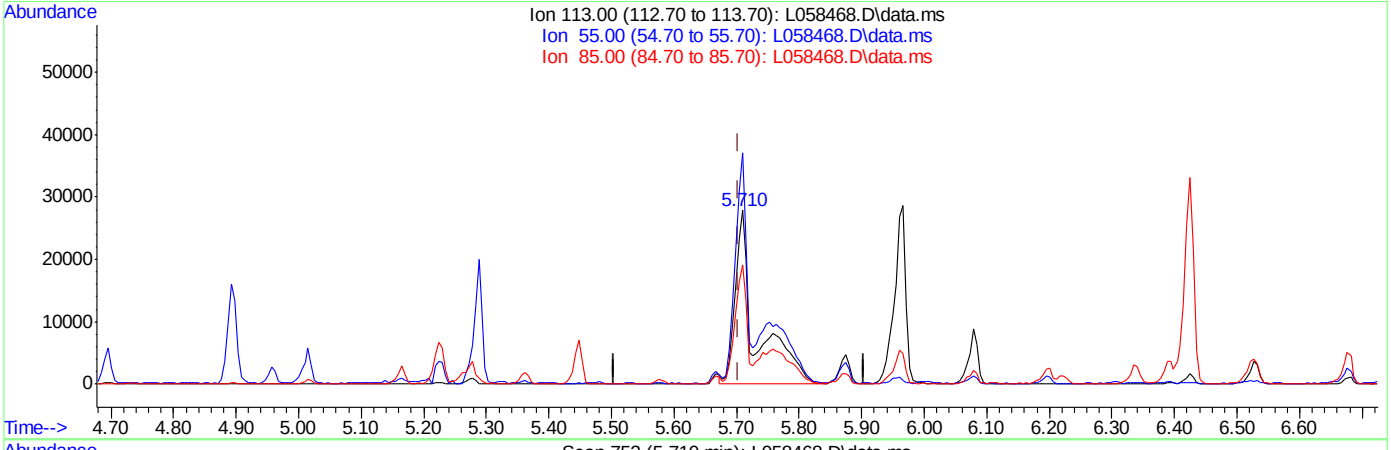
response 34004

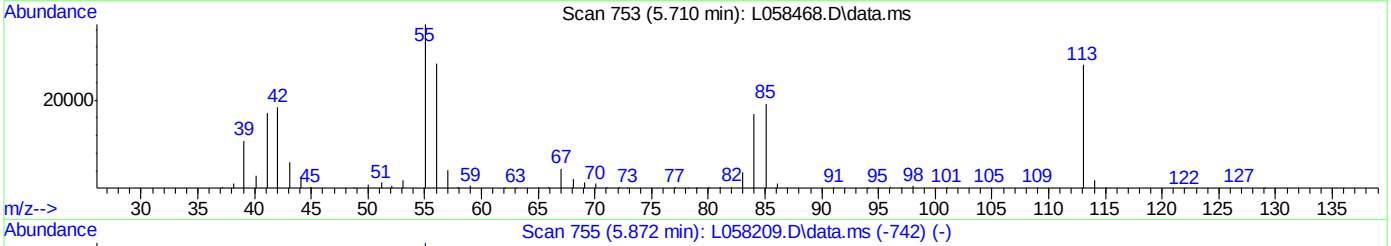
Ion	Exp%	Act%
113.00	100	100
55.00	126.00	133.78
85.00	69.20	69.25
0.00	0.00	0.00

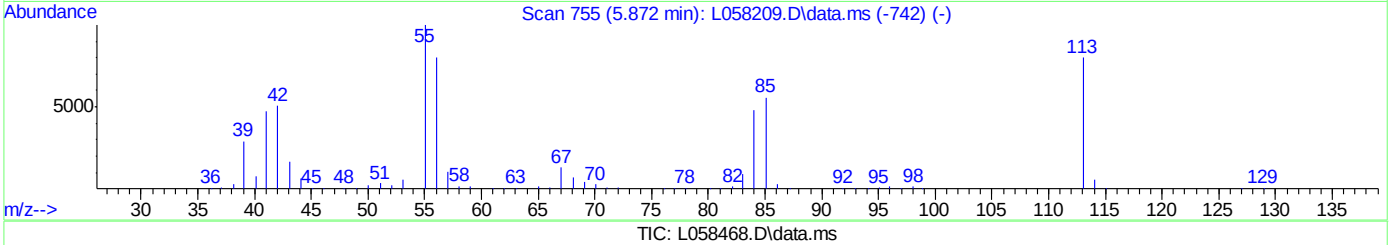
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058468.D
Acq On : 30 Jul 2012 11:57 am
Operator : nancyf
Sample : op42829-bs
Misc : op42829,sl2984,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 30 15:07:01 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration







TIC: L058468.D\data.ms

(37) Caprolactam (P)

5.710min (+0.006) 35.43ppm m

response 63935

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	133.07
85.00	69.20	68.68
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024549.D
Acq On : 28 Jul 2012 3:52 pm
Operator : fouads
Sample : op42844-lbs
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:09:38 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.102	152	318602	40.00 ppm	0.00
22) Naphthalene-d8	6.278	136	1278743	40.00 ppm	0.00
41) Acenaphthene-d10	8.616	164	577759	40.00 ppm	0.00
67) Phenanthrene-d10	11.103	188	832335	40.00 ppm	0.00
82) Chrysene-d12	16.056	240	590346	40.00 ppm	-0.01
91) Perylene-d12	18.575	264	529624	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	4.149	112	514553	41.32 ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 41.32%		
9) Phenol-d5	4.845	99	439809	27.02 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 27.02%		
23) Nitrobenzene-d5	5.594	82	486418	34.70 ppm	-0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 69.40%		
45) 2-Fluorobiphenyl	7.621	172	757999	38.07 ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 76.14%		
71) 2,4,6-Tribromophenol	9.926	330	182652	82.78 ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 82.78%		
85) Terphenyl-d14	14.141	244	587499	43.39 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 86.78%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.716	88	116968	20.63 ppm	95
3) N-nitrosodimethylamine	3.032	42	132124	19.86 ppm	91
4) Pyridine	3.037	79	324956	20.81 ppm	95
6) Benzaldehyde	4.765	106	346622	42.14 ppm	99
7) Aniline	4.872	93	746972	32.22 ppm	99
8) bis(2-Chloroethyl)ether	4.909	93	505418	35.38 ppm	99
10) Phenol	4.850	94	296824	16.29 ppm	99
11) 2-Chlorophenol	4.962	128	444794	33.86 ppm	100
12) 1,3-Dichlorobenzene	5.075	146	478817	35.34 ppm	99
13) 1,4-Dichlorobenzene	5.112	146	490221	35.46 ppm	97
14) 1,2-Dichlorobenzene	5.273	146	457958	35.47 ppm	98
15) Benzyl alcohol	5.225	108	292006	30.89 ppm	98
16) 2-Methylphenol	5.332	108	370153	28.50 ppm	95
17) bis(2-chloroisopropyl)...	5.353	45	824401	32.10 ppm	97
18) Acetophenone	5.455	105	594247	33.05 ppm	98
19) N-Nitroso-di-n-propyla...	5.476	70	328389	34.15 ppm	94
20) 3&4-Methylphenol	5.449	108	637303	47.62 ppm	99
21) Hexachloroethane	5.535	117	193351	34.21 ppm	97
24) Nitrobenzene	5.610	77	483301	35.23 ppm	96
25) Isophorone	5.818	82	755901	28.42 ppm	97
26) 2-Nitrophenol	5.909	139	226017	36.43 ppm	91
27) 2,4-Dimethylphenol	5.931	107	376945	29.06 ppm	94
28) bis(2-Chloroethoxy)met...	6.027	93	559842	34.69 ppm	99
29) Benzoic Acid	6.038	105	241582	24.27 ppm	99
30) 2,4-Dichlorophenol	6.139	162	343928	35.28 ppm	98
31) 1,2,4-Trichlorobenzene	6.235	180	347936	33.11 ppm	100
32) Naphthalene	6.300	128	1237882	33.57 ppm	100
33) 4-Chloroaniline	6.369	127	524222	32.28 ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024549.D
Acq On : 28 Jul 2012 3:52 pm
Operator : fouads
Sample : op42844-lbs
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:09:38 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.385	162	326885	32.52	ppm		98
35) Hexachlorobutadiene	6.497	225	185850	34.73	ppm		99
36) Caprolactam	6.733	113	40799	9.60	ppm		95
37) 4-Chloro-3-methylphenol	6.925	107	348568	32.32	ppm		97
38) 2-Methylnaphthalene	7.102	142	775671	33.47	ppm		97
39) 1-Methylnaphthalene	7.246	142	732041	33.52	ppm		100
40) 1,2,4,5-Tetrachloroben...	7.375	216	305778	31.32	ppm		97
42) Hexachlorocyclopentadiene	7.401	237	111758	23.36	ppm		98
43) 2,4,6-Trichlorophenol	7.508	196	219431	40.10	ppm		99
44) 2,4,5-Trichlorophenol	7.562	196	229916	39.84	ppm		98
46) 1,1'-Biphenyl	7.744	154	860034	37.54	ppm		99
47) 2-Chloronaphthalene	7.754	162	657230	37.61	ppm		97
48) 2-Nitroaniline	7.947	65	231204	42.15	ppm		93
50) Dimethylphthalate	8.284	163	756086	40.21	ppm		100
51) m-Dinitrobenzene	8.295	168	122553	39.81	ppm		94
52) 2,6-Dinitrotoluene	8.380	165	166963	40.17	ppm		94
54) Acenaphthylene	8.375	152	1054406	36.63	ppm		99
55) 3-Nitroaniline	8.583	138	225764	40.55	ppm		99
56) Acenaphthene	8.664	153	691024	37.80	ppm		99
57) 2,4-Dinitrophenol	8.739	184	2785	3.12	ppm		91
58) 4-Nitrophenol	8.867	109	76916	31.28	ppm		91
59) Dibenzofuran	8.915	168	899982	38.32	ppm		96
60) 2,4-Dinitrotoluene	8.995	165	214107	41.12	ppm		97
62) 2,3,4,6-Tetrachlorophenol	9.193	232	168737	39.59	ppm		98
63) Diethylphthalate	9.445	149	763895	40.21	ppm		100
64) Fluorene	9.482	166	742079	37.95	ppm		99
65) 4-Chlorophenyl-phenyle...	9.509	204	329837	39.67	ppm		97
66) 4-Nitroaniline	9.594	138	210903	41.10	ppm		97
68) 4,6-Dinitro-2-methylph...	9.669	198	20692	11.94	ppm	#	62
69) n-Nitrosodiphenylamine	9.728	169	515430	41.01	ppm		98
70) 1,2-Diphenylhydrazine	9.771	77	801548	39.37	ppm		97
72) 4-Bromophenyl-phenylether	10.343	248	178734	41.34	ppm		98
73) Hexachlorobenzene	10.573	284	189578	40.25	ppm		98
75) Atrazine	10.766	200	166938	40.25	ppm		97
76) Pentachlorophenol	10.905	266	253939	83.26	ppm		97
77) Phenanthrene	11.140	178	960125	40.09	ppm		99
78) Anthracene	11.220	178	978212	39.71	ppm		99
79) Carbazole	11.547	167	924921	39.48	ppm		99
80) Di-n-butylphthalate	12.408	149	1113216	38.42	ppm		99
81) Fluoranthene	13.333	202	840013	37.40	ppm		100
83) Benzidine	13.649	184	358539	33.52	ppm		99
84) Pyrene	13.734	202	907182	41.96	ppm		99
86) Butylbenzylphthalate	15.216	149	447767	42.31	ppm		95
87) 3,3'-Dichlorobenzidine	16.077	252	254300	41.21	ppm		98
88) Benzo[a]anthracene	16.023	228	699194	41.00	ppm		99
89) Chrysene	16.104	228	658838	40.37	ppm		100
90) bis(2-Ethylhexyl)phtha...	16.419	149	610702	41.93	ppm		99
92) Di-n-octylphthalate	17.537	149	1011896	43.56	ppm		99
93) Benzo[b]fluoranthene	17.960	252	631015	42.61	ppm		99
94) Benzo[k]fluoranthene	18.002	252	614484	39.02	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024549.D
Acq On : 28 Jul 2012 3:52 pm
Operator : fouads
Sample : op42844-lbs
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:09:38 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Benzo[a]pyrene	18.478	252	568012	38.38 ppm	98
96) Indeno[1,2,3-cd]pyrene	20.174	276	521976	41.66 ppm	95
97) Dibenz[a,h]anthracene	20.211	278	537370	41.96 ppm	95
98) Benzo[g,h,i]perylene	20.522	276	562991	40.76 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

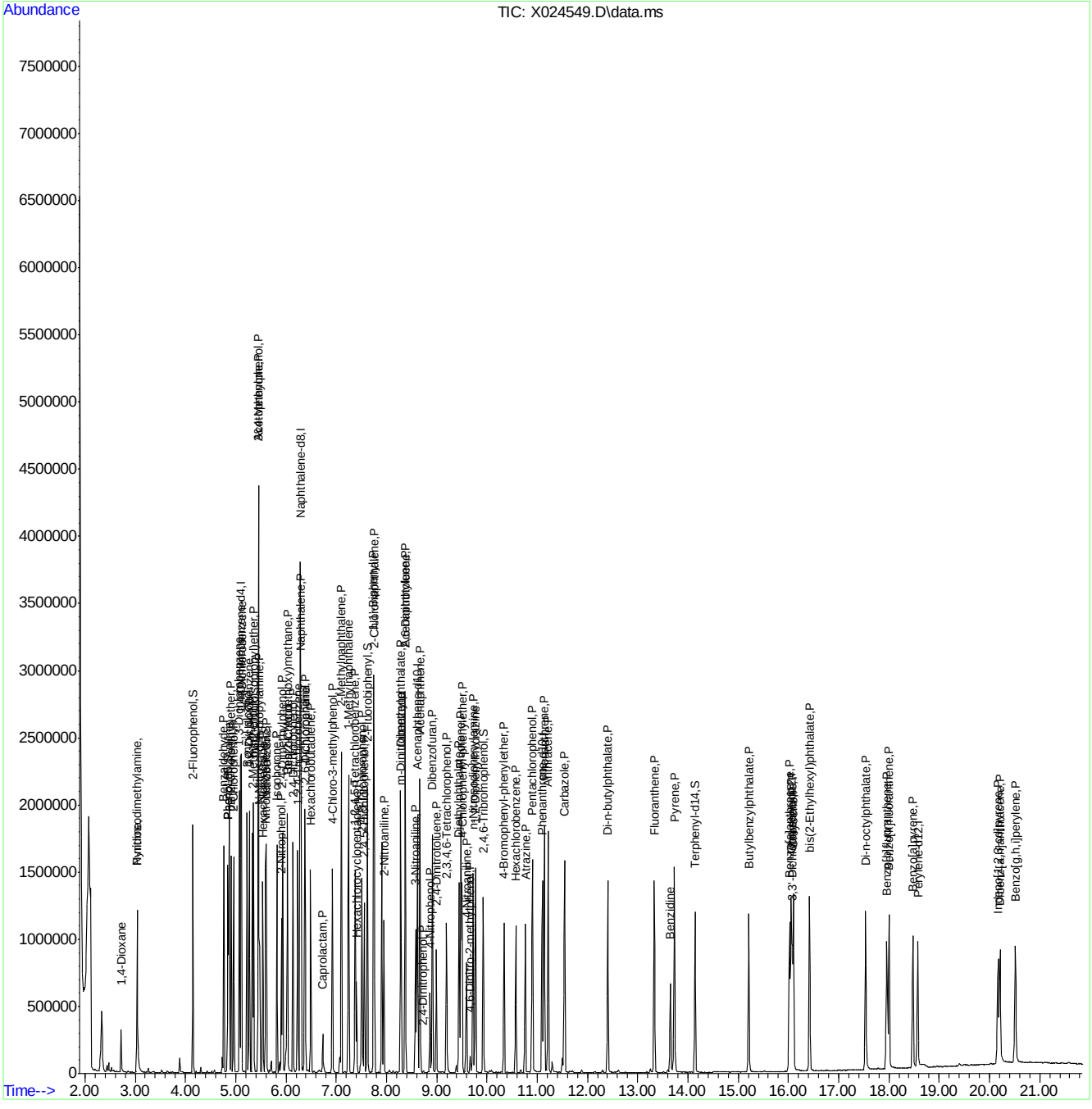
9.4.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024549.D
Acq On : 28 Jul 2012 3:52 pm
Operator : fouads
Sample : op42844-lbs
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 30 07:09:38 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/31/12 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On : 30 Jul 2012 1:23 pm
Operator : nancyf
Sample : op42829-ms
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 07:36:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.265	152	146227	40.00	ppm	0.00
22) Naphthalene-d8	5.258	136	498367	40.00	ppm	0.00
42) Acenaphthene-d10	7.304	164	255283	40.00	ppm	0.00
68) Phenanthrene-d10	9.638	188	385486	40.00	ppm	0.01
83) Chrysene-d12	14.450	240	313594	40.00	ppm	0.00
92) Perylene-d12	16.918	264	233848	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.378	112	283363	53.80	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 53.80%			
9) Phenol-d5	4.083	99	356984	59.19	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 59.19%			
23) Nitrobenzene-d5	4.692	82	164710	29.68	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 59.36%			
46) 2-Fluorobiphenyl	6.428	172	276001	31.49	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 62.98%			
72) 2,4,6-Tribromophenol	8.543	330	68971	64.66	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 64.66%			
86) Terphenyl-d14	12.629	244	230222	32.54	ppm	-0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 65.08%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.845	88	49859	18.45	ppm #	81
3) N-nitrosodimethylamine	2.193	42	62843	26.42	ppm	96
4) Pyridine	2.177	79	141536	22.10	ppm	96
5) Benzaldehyde	3.950	106	101481	22.53	ppm	99
6) Aniline	4.062	93	219579	25.00	ppm	76
8) bis(2-Chloroethyl)ether	4.115	93	146376	27.30	ppm	85
10) Phenol	4.094	94	203163	27.23	ppm	90
11) 2-Chlorophenol	4.147	128	162921	28.78	ppm	98
12) 1,3-Dichlorobenzene	4.238	146	146109	24.22	ppm	98
13) 1,4-Dichlorobenzene	4.276	146	145641	24.68	ppm	97
14) 1,2-Dichlorobenzene	4.414	146	144922	25.46	ppm	97
15) Benzyl alcohol	4.398	108	119546	29.68	ppm	98
16) bis(2-chloroisopropyl)...	4.511	45	167130	26.01	ppm	84
17) 2-Methylphenol	4.398	108	119546	22.92	ppm	74
18) Acetophenone	4.585	105	222689	29.47	ppm	96
19) Hexachloroethane	4.633	117	60251	25.22	ppm	98
20) N-Nitroso-di-n-propyla...	4.612	70	110043	28.31	ppm	99
21) 3&4-Methylphenol	4.623	108	295208	57.35	ppm	99
24) Nitrobenzene	4.708	77	160152	29.72	ppm	100
25) Isophorone	4.895	82	245881	25.29	ppm	99
26) 2-Nitrophenol	4.959	139	93475	31.72	ppm	95
27) 2,4-Dimethylphenol	5.018	107	145546	28.04	ppm	100
28) bis(2-Chloroethoxy)met...	5.082	93	182691	30.80	ppm	98
29) Benzoic Acid	5.200	105	344104m	75.44	ppm	
30) 2,4-Dichlorophenol	5.168	162	133778	31.65	ppm	98
31) 1,2,4-Trichlorobenzene	5.226	180	128598	28.01	ppm	98
32) alpha-Terpineol	5.290	59	107850	29.26	ppm	98
33) Naphthalene	5.280	128	386258	30.76	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On : 30 Jul 2012 1:23 pm
Operator : nancyf
Sample : op42829-ms
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 07:36:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 4-Chloroaniline	5.360	127	127005	20.65	ppm		98
35) 2,6-Dichlorophenol	5.365	162	126830	30.31	ppm		93
36) Hexachlorobutadiene	5.451	225	70880	29.34	ppm		99
37) Caprolactam	5.712	113	59662	34.21	ppm	#	67
38) 4-Chloro-3-methylphenol	5.878	107	139732	30.70	ppm		98
39) 2-Methylnaphthalene	5.969	142	386648	42.46	ppm		99
40) 1-Methylnaphthalene	6.086	142	344353	40.06	ppm		100
41) 1,2,4,5-Tetrachloroben...	6.204	216	121478	27.58	ppm		99
43) Hexachlorocyclopentadiene	6.230	237	74160	32.68	ppm		98
44) 2,4,6-Trichlorophenol	6.343	196	85794	32.38	ppm		99
45) 2,4,5-Trichlorophenol	6.396	196	89159	32.05	ppm		98
47) 1,1'-Biphenyl	6.535	154	324393	36.46	ppm		100
48) 2-Chloronaphthalene	6.535	162	236038	32.09	ppm		98
49) 2-Nitroaniline	6.727	65	79074	31.38	ppm		92
51) Acenaphthylene	7.085	152	373421	31.13	ppm		99
52) Dimethylphthalate	7.053	163	259790	31.28	ppm		98
53) m-Dinitrobenzene	7.053	168	50150	31.46	ppm		79
54) 2,6-Dinitrotoluene	7.128	165	66059	30.94	ppm		99
56) Acenaphthene	7.352	153	247341	33.07	ppm		99
57) 3-Nitroaniline	7.309	138	54829	22.35	ppm		98
58) 2,4-Dinitrophenol	7.475	184	87127	61.13	ppm		90
59) Dibenzofuran	7.587	168	348053	33.72	ppm		99
60) 2,4-Dinitrotoluene	7.694	165	87268	31.41	ppm		93
61) 4-Nitrophenol	7.662	109	75539	65.27	ppm		89
63) 2,3,4,6-Tetrachlorophenol	7.870	232	67167	31.11	ppm		98
64) Fluorene	8.110	166	266027	31.26	ppm		99
65) 4-Chlorophenyl-phenyle...	8.159	204	121317	30.85	ppm		90
66) Diethylphthalate	8.143	149	236544	29.93	ppm		98
67) 4-Nitroaniline	8.255	138	59163	24.73	ppm		99
69) 4,6-Dinitro-2-methylph...	8.340	198	108399	69.12	ppm		85
70) n-Nitrosodiphenylamine	8.378	169	247343	42.97	ppm		94
71) 1,2-Diphenylhydrazine	8.410	77	270881	31.82	ppm		98
73) 4-Bromophenyl-phenylether	8.938	248	66425	30.45	ppm		96
74) Hexachlorobenzene	9.147	284	72645	31.10	ppm		99
76) Atrazine	9.414	200	68323	31.75	ppm		96
77) Pentachlorophenol	9.488	266	98361	64.97	ppm		98
78) Phenanthrene	9.681	178	411835	40.81	ppm		100
79) Anthracene	9.756	178	314804	30.36	ppm		98
80) Carbazole	10.097	167	322359	31.21	ppm		99
81) Di-n-butylphthalate	10.989	149	360004	30.98	ppm		98
82) Fluoranthene	11.790	202	309483	29.80	ppm		99
85) Pyrene	12.175	202	338751	33.42	ppm		98
87) Butylbenzylphthalate	13.719	149	150204	31.78	ppm		97
88) 3,3'-Dichlorobenzidine	14.514	252	60353	17.94	ppm		98
89) Benzo[a]anthracene	14.424	228	269198	30.91	ppm		99
90) Chrysene	14.498	228	242793	31.41	ppm		98
91) bis(2-Ethylhexyl)phtha...	14.942	149	204209	33.67	ppm		99
93) Di-n-octylphthalate	16.047	149	318363	36.87	ppm		99
94) Benzo[b]fluoranthene	16.314	252	234933	33.65	ppm		98
95) Benzo[k]fluoranthene	16.357	252	220100	32.39	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On : 30 Jul 2012 1:23 pm
Operator : nancyf
Sample : op42829-ms
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 07:36:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[a]pyrene	16.816	252	194936	29.30 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.483	276	173426	31.90 ppm	99
98) Dibenz[a,h]anthracene	18.536	278	174387	32.01 ppm	99
99) Benzo[g,h,i]perylene	18.814	276	180667	31.32 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

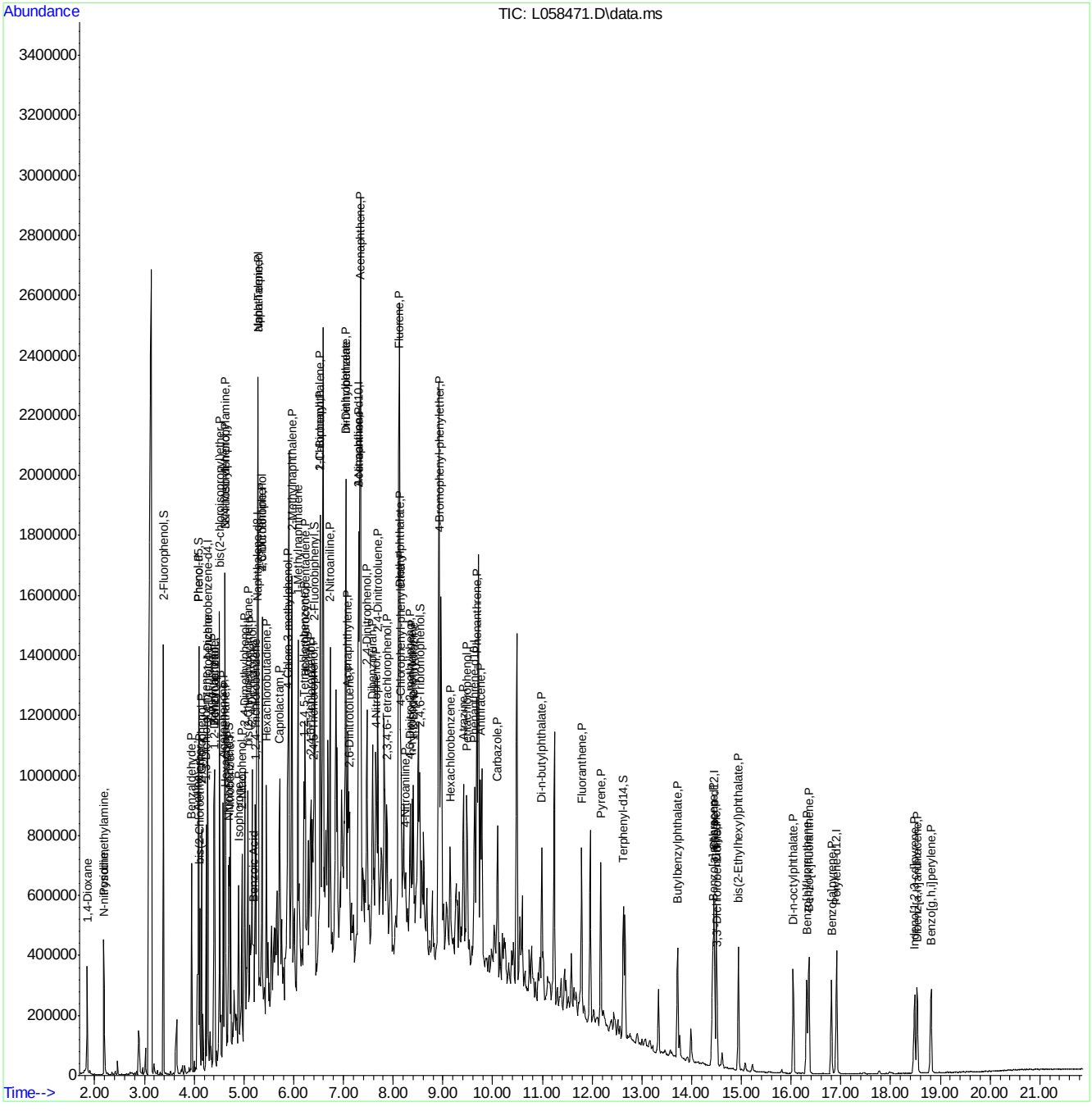
9.5.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On : 30 Jul 2012 1:23 pm
Operator : nancyf
Sample : op42829-ms
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 07:36:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

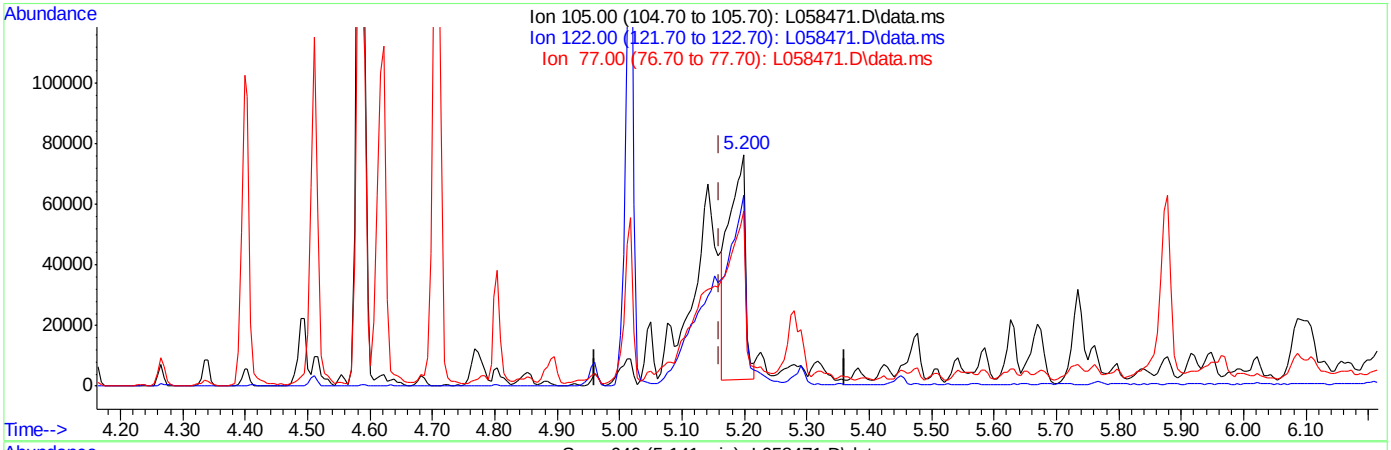
Sample Number:	OP42829-MS	**Method:**	SW846 8270D
Lab FileID:	L058471.D	**Analyst approved:**	07/31/12 08:59 Nancy Filiault
Injection Time:	07/30/12 13:23	**Supervisor approved:**	07/31/12 09:58 Naresh Jiawan

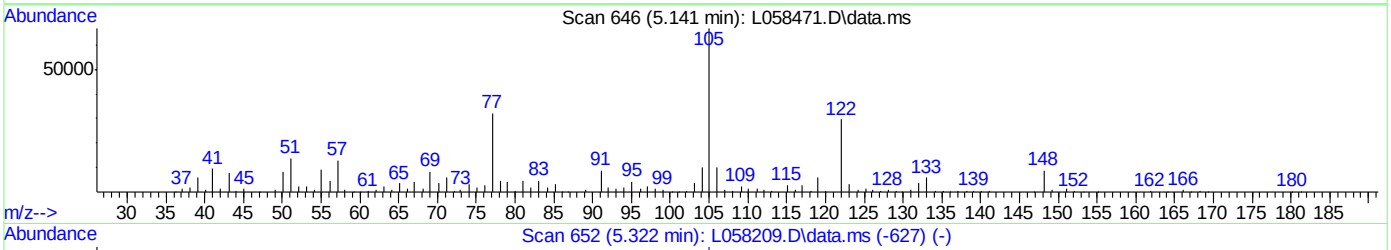
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.20	Split peak

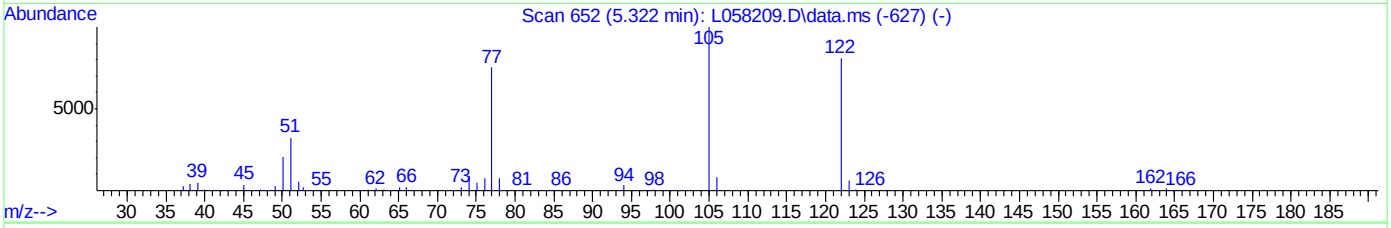
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On : 30 Jul 2012 1:23 pm
Operator : nancyf
Sample : op42829-ms
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 07:25:56 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration







TIC: L058471.D\data.ms

(29) Benzoic Acid

5.200min (+0.039) 31.49ppm

response 143626

Ion	Exp%	Act%
105.00	100	100
122.00	84.70	84.70
77.00	72.70	73.63
0.00	0.00	0.00

ACCUTEST LABORATORIES F95274

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058471.D
Acq On    : 30 Jul 2012   1:23 pm
Operator  : nancyf
Sample    : op42829-ms
Misc      : op42829,sl2984,30.2,,,1,1,soil
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Jul 31 07:25:56 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration
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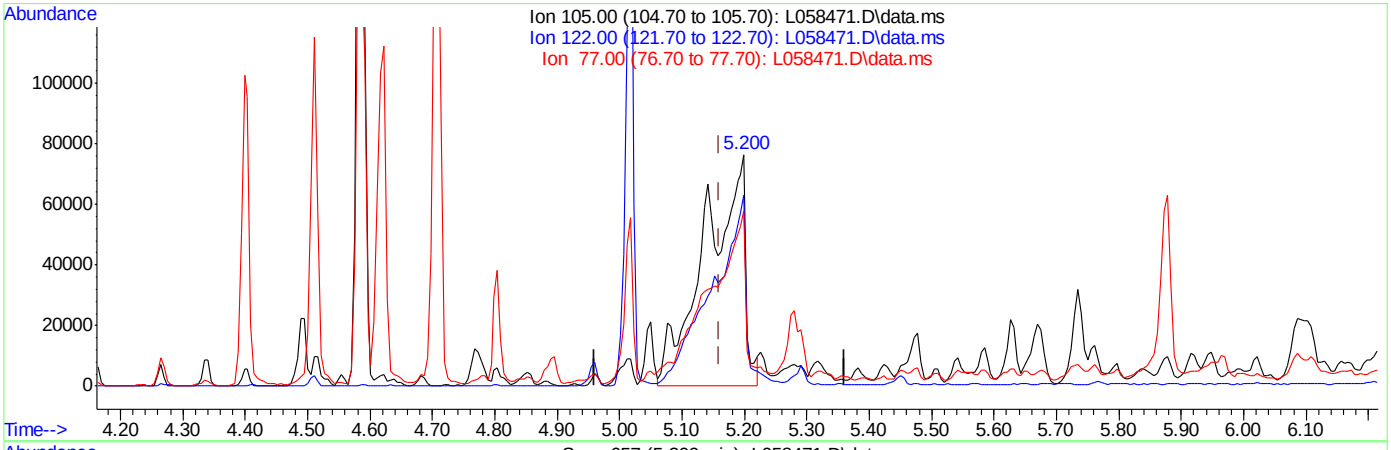
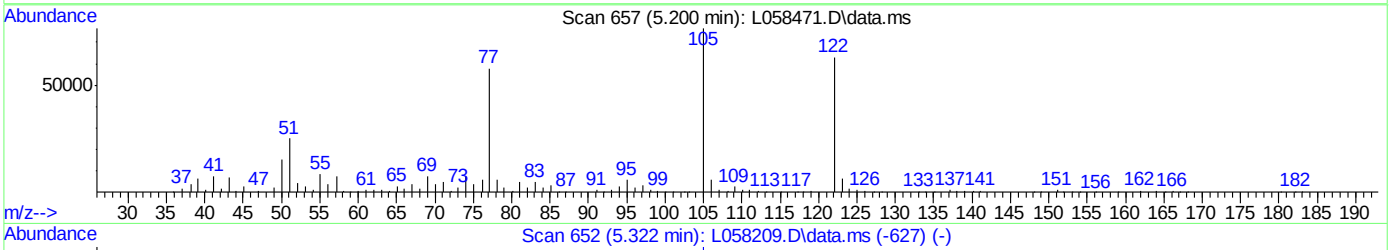
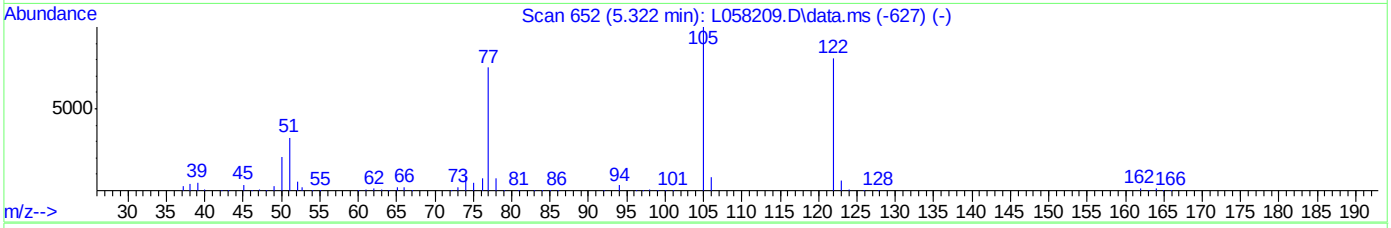






TIC: L058471.D\data.ms

(29) Benzoic Acid

5.200min (+0.039) 75.44ppm m

response 344104

Ion	Exp%	Act%
105.00	100	100
122.00	84.70	82.48
77.00	72.70	75.51
0.00	0.00	0.00

ACCUTEST LABORATORIES F95274

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/31/12 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On : 30 Jul 2012 1:51 pm
Operator : nancyf
Sample : op42829-msd
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 07:38:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.268	152	138499	40.00	ppm	0.00
22) Naphthalene-d8	5.261	136	484376	40.00	ppm	0.00
42) Acenaphthene-d10	7.307	164	256882	40.00	ppm	0.01
68) Phenanthrene-d10	9.641	188	379912	40.00	ppm	0.02
83) Chrysene-d12	14.453	240	312578	40.00	ppm	0.00
92) Perylene-d12	16.915	264	228268	40.00	ppm	-0.01

System Monitoring Compounds

7) 2-Fluorophenol	3.376	112	280142	56.16	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 56.16%			
9) Phenol-d5	4.086	99	353550	62.13	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 62.13%			
23) Nitrobenzene-d5	4.695	82	165084	30.60	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 61.20%			
46) 2-Fluorobiphenyl	6.431	172	277277	31.44	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 62.88%			
72) 2,4,6-Tribromophenol	8.541	330	68082	64.76	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 64.76%			
86) Terphenyl-d14	12.626	244	235293	33.36	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 66.72%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.838	88	48200	18.83	ppm #	82
3) N-nitrosodimethylamine	2.185	42	61022	27.09	ppm	99
4) Pyridine	2.174	79	131914	21.74	ppm	99
5) Benzaldehyde	3.953	106	105352	25.07	ppm	96
6) Aniline	4.065	93	190862	22.95	ppm #	52
8) bis(2-Chloroethyl)ether	4.113	93	145949	28.73	ppm	94
10) Phenol	4.091	94	204071	28.88	ppm	92
11) 2-Chlorophenol	4.145	128	162297	30.27	ppm	98
12) 1,3-Dichlorobenzene	4.236	146	150214	26.29	ppm	97
13) 1,4-Dichlorobenzene	4.278	146	151162	27.05	ppm	97
14) 1,2-Dichlorobenzene	4.412	146	149033	27.64	ppm	98
15) Benzyl alcohol	4.401	108	116133	30.44	ppm	99
16) bis(2-chloroisopropyl)...	4.508	45	165796	27.35	ppm	89
17) 2-Methylphenol	4.513	108	145425	29.44	ppm	98
18) Acetophenone	4.583	105	222748	31.12	ppm	95
19) Hexachloroethane	4.631	117	61744	27.29	ppm	92
20) N-Nitroso-di-n-propyla...	4.615	70	111305	30.23	ppm	97
21) 3&4-Methylphenol	4.620	108	296386	61.31	ppm	98
24) Nitrobenzene	4.706	77	164976	31.50	ppm	96
25) Isophorone	4.893	82	242258	25.63	ppm	98
26) 2-Nitrophenol	4.957	139	92551	32.32	ppm	95
27) 2,4-Dimethylphenol	5.015	107	141727	28.10	ppm	99
28) bis(2-Chloroethoxy)met...	5.085	93	180789	31.35	ppm	97
29) Benzoic Acid	5.197	105	337884m	76.21	ppm	
30) 2,4-Dichlorophenol	5.165	162	134862	32.83	ppm	100
31) 1,2,4-Trichlorobenzene	5.229	180	131058	29.37	ppm	97
32) alpha-Terpineol	5.288	59	104377	29.13	ppm	98
33) Naphthalene	5.277	128	391955	32.26	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On : 30 Jul 2012 1:51 pm
Operator : nancyf
Sample : op42829-msd
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 07:38:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
34) 4-Chloroaniline	5.357	127	79681	13.33 ppm		98
35) 2,6-Dichlorophenol	5.368	162	126468	31.10 ppm		95
36) Hexachlorobutadiene	5.453	225	72152	30.72 ppm		98
37) Caprolactam	5.715	113	65132	38.42 ppm	#	78
38) 4-Chloro-3-methylphenol	5.881	107	140843	31.84 ppm		98
39) 2-Methylnaphthalene	5.966	142	387972	43.83 ppm		99
40) 1-Methylnaphthalene	6.084	142	363587	43.52 ppm		99
41) 1,2,4,5-Tetrachloroben...	6.207	216	122569	28.63 ppm		99
43) Hexachlorocyclopentadiene	6.228	237	75526	33.07 ppm		99
44) 2,4,6-Trichlorophenol	6.345	196	87986	33.01 ppm		98
45) 2,4,5-Trichlorophenol	6.399	196	90335	32.28 ppm		100
47) 1,1'-Biphenyl	6.532	154	328638	36.75 ppm		99
48) 2-Chloronaphthalene	6.532	162	238327	32.20 ppm		97
49) 2-Nitroaniline	6.730	65	78094	30.80 ppm		93
51) Acenaphthylene	7.088	152	375466	31.11 ppm		98
52) Dimethylphthalate	7.050	163	259261	31.02 ppm		98
53) m-Dinitrobenzene	7.056	168	48523	30.25 ppm		87
54) 2,6-Dinitrotoluene	7.125	165	67806	31.56 ppm		88
56) Acenaphthene	7.349	153	250244	33.25 ppm		99
57) 3-Nitroaniline	7.307	138	44930	18.20 ppm		97
58) 2,4-Dinitrophenol	7.472	184	83303	58.34 ppm		89
59) Dibenzofuran	7.590	168	343366	33.06 ppm		98
60) 2,4-Dinitrotoluene	7.697	165	85796	30.68 ppm		93
61) 4-Nitrophenol	7.659	109	74232	63.74 ppm		94
63) 2,3,4,6-Tetrachlorophenol	7.873	232	68814	31.67 ppm		96
64) Fluorene	8.113	166	272291	31.79 ppm		98
65) 4-Chlorophenyl-phenyle...	8.156	204	122335	30.92 ppm		96
66) Diethylphthalate	8.145	149	238264	29.96 ppm		98
67) 4-Nitroaniline	8.252	138	68844	28.60 ppm		96
69) 4,6-Dinitro-2-methylph...	8.343	198	109086	70.58 ppm		70
70) n-Nitrosodiphenylamine	8.380	169	249527	43.98 ppm		94
71) 1,2-Diphenylhydrazine	8.407	77	269548	32.13 ppm		97
73) 4-Bromophenyl-phenylether	8.941	248	65882	30.65 ppm		96
74) Hexachlorobenzene	9.149	284	72350	31.43 ppm		99
76) Atrazine	9.411	200	66601	31.40 ppm		91
77) Pentachlorophenol	9.491	266	97958	65.65 ppm		96
78) Phenanthrene	9.678	178	420163	42.24 ppm		99
79) Anthracene	9.753	178	322488	31.56 ppm		99
80) Carbazole	10.100	167	314910	30.94 ppm		99
81) Di-n-butylphthalate	10.987	149	361106	31.53 ppm		99
82) Fluoranthene	11.793	202	313784	30.65 ppm		99
85) Pyrene	12.172	202	347329	34.38 ppm		99
87) Butylbenzylphthalate	13.716	149	149986	31.84 ppm		100
88) 3,3'-Dichlorobenzidine	14.512	252	47279	14.10 ppm		98
89) Benzo[a]anthracene	14.421	228	274149	31.58 ppm		99
90) Chrysene	14.496	228	244128	31.68 ppm		98
91) bis(2-Ethylhexyl)phtha...	14.939	149	204360	33.80 ppm		100
93) Di-n-octylphthalate	16.045	149	314311	37.29 ppm		98
94) Benzo[b]fluoranthene	16.317	252	231952	34.03 ppm		98
95) Benzo[k]fluoranthene	16.360	252	217337	32.76 ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On : 30 Jul 2012 1:51 pm
Operator : nancyf
Sample : op42829-msd
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 07:38:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[a]pyrene	16.814	252	194286	29.92 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.480	276	170642	32.15 ppm	97
98) Dibenz[a,h]anthracene	18.534	278	171720	32.29 ppm	98
99) Benzo[g,h,i]perylene	18.811	276	180190	32.00 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

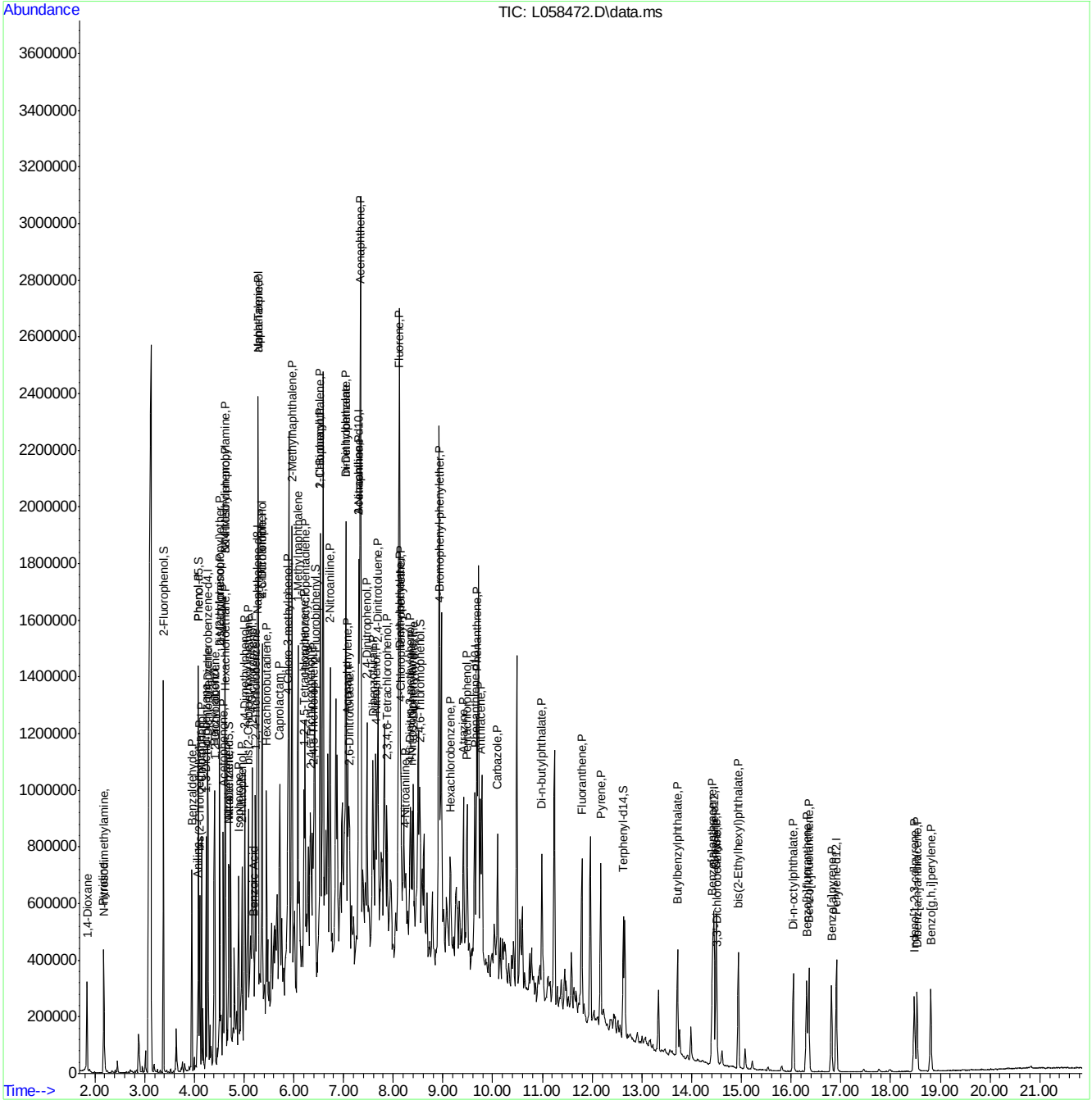
9.5.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On : 30 Jul 2012 1:51 pm
Operator : nancyf
Sample : op42829-msd
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 07:38:41 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	OP42829-MSD	**Method:**	SW846 8270D
Lab FileID:	L058472.D	**Analyst approved:**	07/31/12 08:59 Nancy Filiault
Injection Time:	07/30/12 13:51	**Supervisor approved:**	07/31/12 09:58 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.20	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On    : 30 Jul 2012   1:51 pm
Operator  : nancyf
Sample    : op42829-msd
Misc      : op42829,sl2984,30.2,,,1,1,soil
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jul 31 07:25:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration
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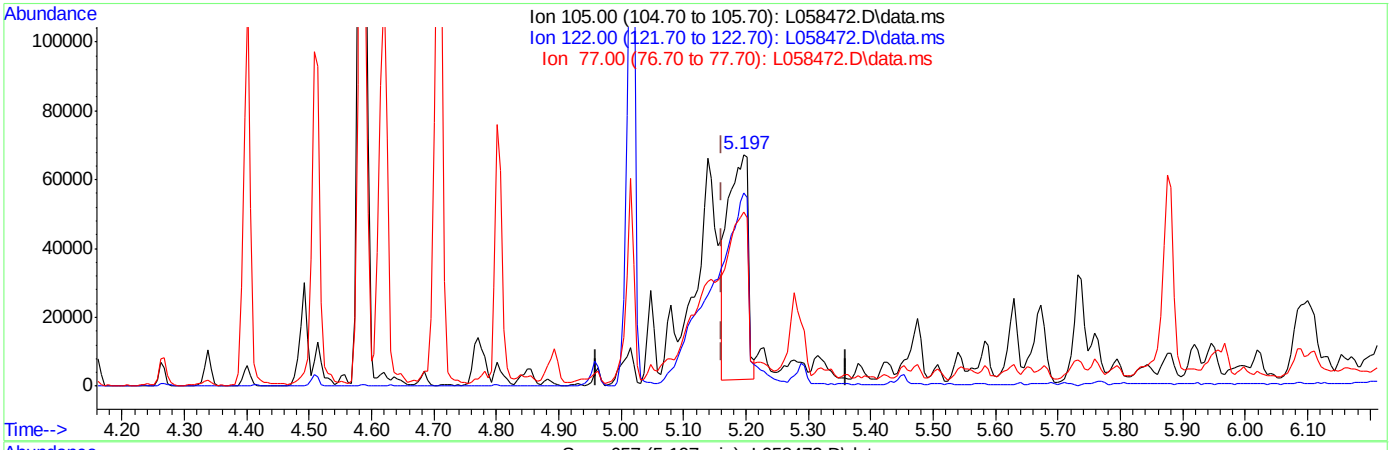
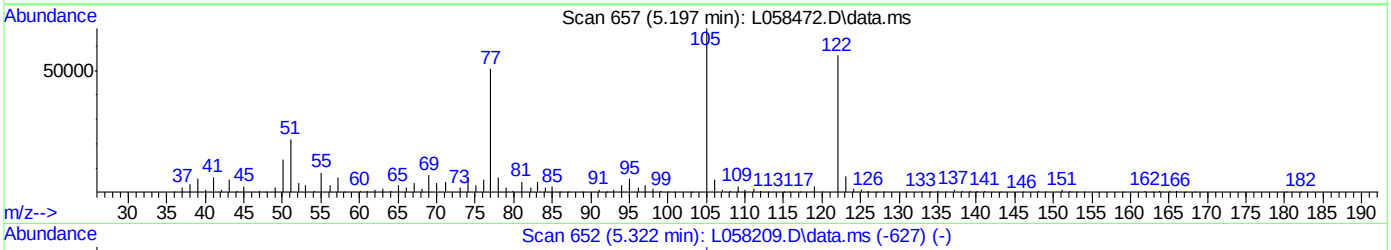
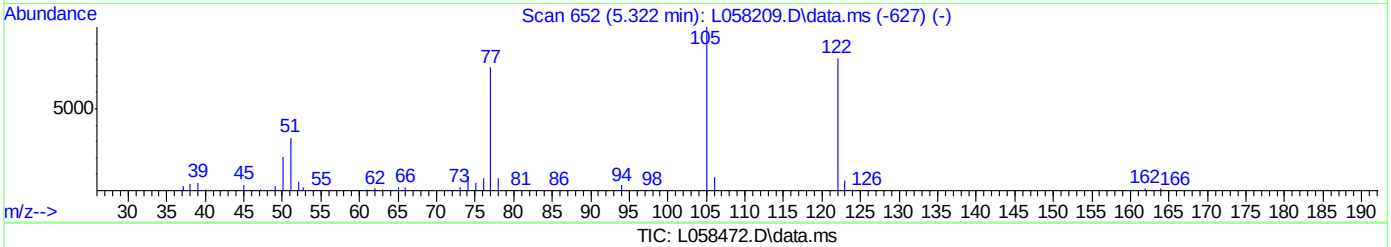






TIC: L058472.D\data.ms

(29) Benzoic Acid

5.197min (+0.036) 34.21ppm

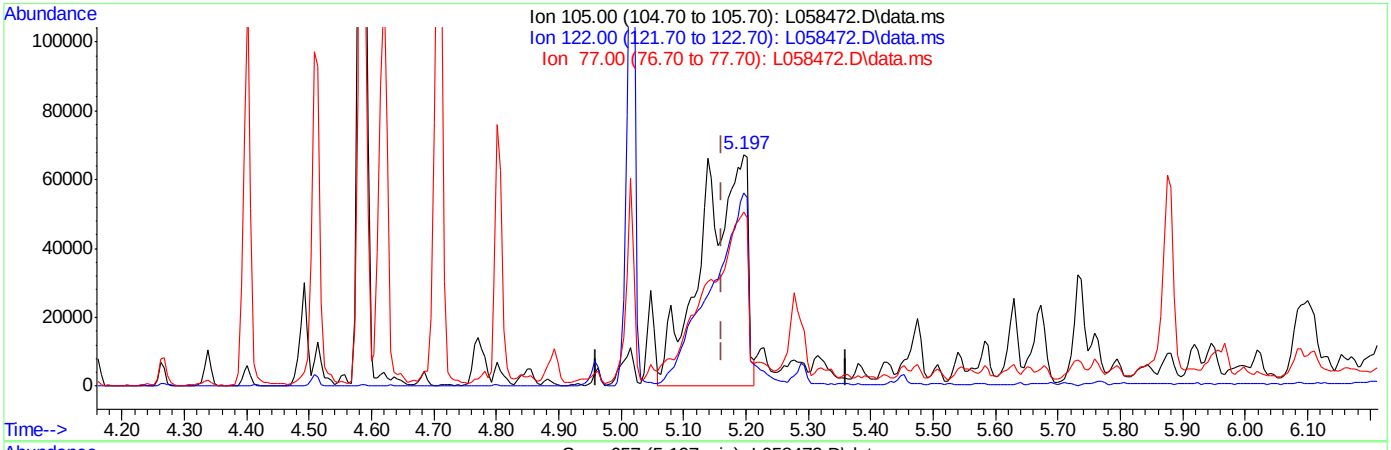
response 151664

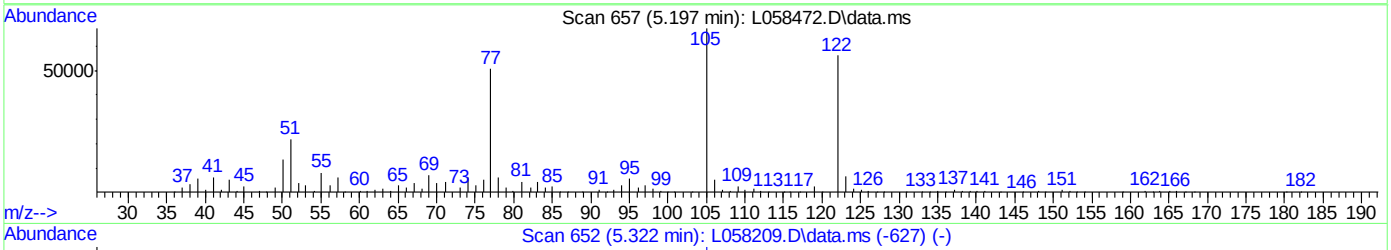
Ion	Exp%	Act%
105.00	100	100
122.00	84.70	84.63
77.00	72.70	73.87
0.00	0.00	0.00

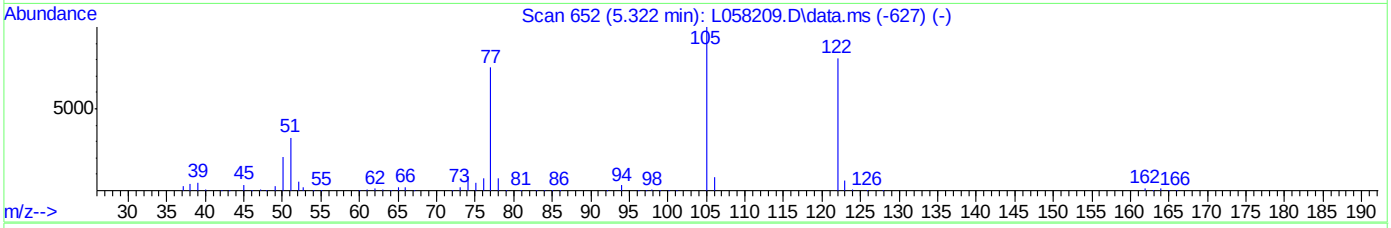
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058472.D
Acq On : 30 Jul 2012 1:51 pm
Operator : nancyf
Sample : op42829-msd
Misc : op42829,sl2984,30.2,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 07:25:58 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration







TIC: L058472.D\data.ms

(29) Benzoic Acid

5.197min (+0.036) 76.21ppm m

response 337884

Ion	Exp%	Act%
105.00	100	100
122.00	84.70	83.37
77.00	72.70	75.13
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024552.D
Acq On : 28 Jul 2012 5:14 pm
Operator : fouads
Sample : op42844-ms
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 07:13:59 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	313126	40.00 ppm	0.00
22) Naphthalene-d8	6.283	136	1260935	40.00 ppm	0.00
41) Acenaphthene-d10	8.615	164	566376	40.00 ppm	0.00
67) Phenanthrene-d10	11.102	188	817967	40.00 ppm	0.00
82) Chrysene-d12	16.055	240	583236	40.00 ppm	-0.01
91) Perylene-d12	18.574	264	528004	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	4.144	112	537997	43.96 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 43.96%		
9) Phenol-d5	4.845	99	468911	29.31 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 29.31%		
23) Nitrobenzene-d5	5.593	82	504711	36.51 ppm	-0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 73.02%		
45) 2-Fluorobiphenyl	7.620	172	794808	40.72 ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 81.44%		
71) 2,4,6-Tribromophenol	9.926	330	188243	86.81 ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 86.81%		
85) Terphenyl-d14	14.146	244	608286	45.48 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 90.96%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.710	88	120254	21.58 ppm	93
3) N-nitrosodimethylamine	3.026	42	133977	20.49 ppm	91
4) Pyridine	3.031	79	346819	22.60 ppm	93
6) Benzaldehyde	4.759	106	352973	44.35 ppm	98
7) Aniline	4.871	93	719728	31.59 ppm	98
8) bis(2-Chloroethyl)ether	4.909	93	515499	36.72 ppm	100
10) Phenol	4.850	94	313268	17.49 ppm	98
11) 2-Chlorophenol	4.957	128	448880	34.77 ppm	96
12) 1,3-Dichlorobenzene	5.075	146	488049	36.65 ppm	99
13) 1,4-Dichlorobenzene	5.112	146	498688	36.70 ppm	97
14) 1,2-Dichlorobenzene	5.272	146	469265	36.98 ppm	99
15) Benzyl alcohol	5.224	108	299272	32.21 ppm	98
16) 2-Methylphenol	5.331	108	385886	30.23 ppm	100
17) bis(2-chloroisopropyl)...	5.353	45	846584	33.54 ppm	98
18) Acetophenone	5.454	105	606692	34.33 ppm	98
19) N-Nitroso-di-n-propyla...	5.476	70	335111	35.46 ppm	93
20) 3&4-Methylphenol	5.454	108	669165	50.87 ppm	95
21) Hexachloroethane	5.535	117	195409	35.18 ppm	100
24) Nitrobenzene	5.609	77	484822	35.84 ppm	96
25) Isophorone	5.818	82	779915	29.74 ppm	97
26) 2-Nitrophenol	5.909	139	232674	38.03 ppm	97
27) 2,4-Dimethylphenol	5.936	107	417673	32.66 ppm	98
28) bis(2-Chloroethoxy)met...	6.032	93	569412	35.78 ppm	99
29) Benzoic Acid	6.037	105	242620	24.70 ppm	96
30) 2,4-Dichlorophenol	6.139	162	346866	36.09 ppm	97
31) 1,2,4-Trichlorobenzene	6.235	180	357146	34.47 ppm	99
32) Naphthalene	6.310	128	4771697	131.24 ppm	100
33) 4-Chloroaniline	6.369	127	488734	30.52 ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024552.D
Acq On : 28 Jul 2012 5:14 pm
Operator : fouads
Sample : op42844-ms
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 07:13:59 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.385	162	333203	33.61	ppm		98
35) Hexachlorobutadiene	6.497	225	191147	36.23	ppm		99
36) Caprolactam	6.733	113	43552	10.39	ppm		96
37) 4-Chloro-3-methylphenol	6.925	107	357922	33.66	ppm		96
38) 2-Methylnaphthalene	7.102	142	1045204	45.74	ppm		98
39) 1-Methylnaphthalene	7.246	142	925318	42.97	ppm		98
40) 1,2,4,5-Tetrachloroben...	7.374	216	313778	32.59	ppm		98
42) Hexachlorocyclopentadiene	7.401	237	122059	26.03	ppm		100
43) 2,4,6-Trichlorophenol	7.508	196	225660	42.06	ppm		98
44) 2,4,5-Trichlorophenol	7.562	196	236449	41.80	ppm		98
46) 1,1'-Biphenyl	7.743	154	935513	41.66	ppm		99
47) 2-Chloronaphthalene	7.754	162	671655	39.21	ppm		97
48) 2-Nitroaniline	7.947	65	236731	44.03	ppm		95
50) Dimethylphthalate	8.284	163	769283	41.73	ppm		100
51) m-Dinitrobenzene	8.294	168	126140	41.79	ppm		91
52) 2,6-Dinitrotoluene	8.380	165	169257	41.54	ppm		95
54) Acenaphthylene	8.375	152	1110850	39.37	ppm		99
55) 3-Nitroaniline	8.583	138	216947	39.75	ppm		99
56) Acenaphthene	8.669	153	960491	53.60	ppm		99
57) 2,4-Dinitrophenol	8.733	184	7764	8.08	ppm	#	9
58) 4-Nitrophenol	8.867	109	79426	32.95	ppm		96
59) Dibenzofuran	8.915	168	1123678	48.81	ppm		91
60) 2,4-Dinitrotoluene	8.995	165	220282	43.15	ppm		96
62) 2,3,4,6-Tetrachlorophenol	9.198	232	172502	41.29	ppm		95
63) Diethylphthalate	9.444	149	779793	41.87	ppm		100
64) Fluorene	9.482	166	970687	50.63	ppm		99
65) 4-Chlorophenyl-phenyle...	9.509	204	335663	41.19	ppm		97
66) 4-Nitroaniline	9.594	138	212754	42.30	ppm		97
68) 4,6-Dinitro-2-methylph...	9.669	198	39505	21.19	ppm		89
69) n-Nitrosodiphenylamine	9.728	169	532716	43.13	ppm		98
70) 1,2-Diphenylhydrazine	9.771	77	813723	40.67	ppm		97
72) 4-Bromophenyl-phenylether	10.343	248	183481	43.18	ppm		97
73) Hexachlorobenzene	10.573	284	192404	41.57	ppm		99
75) Atrazine	10.771	200	170995	41.95	ppm		100
76) Pentachlorophenol	10.905	266	254728	84.99	ppm		96
77) Phenanthrene	11.145	178	1371708	58.28	ppm		99
78) Anthracene	11.220	178	1064290	43.97	ppm		98
79) Carbazole	11.557	167	1792595	77.86	ppm		100
80) Di-n-butylphthalate	12.408	149	1159300	40.71	ppm		100
81) Fluoranthene	13.333	202	943767	42.75	ppm		99
83) Benzidine	13.648	184	235868	22.32	ppm		97
84) Pyrene	13.734	202	982699	46.01	ppm		99
86) Butylbenzylphthalate	15.216	149	455412	43.56	ppm		94
87) 3,3'-Dichlorobenzidine	16.077	252	250403	41.07	ppm		98
88) Benzo[a]anthracene	16.023	228	724934	43.03	ppm		99
89) Chrysene	16.103	228	684759	42.47	ppm		100
90) bis(2-Ethylhexyl)phtha...	16.419	149	626939	43.56	ppm		99
92) Di-n-octylphthalate	17.537	149	1035376	44.71	ppm		99
93) Benzo[b]fluoranthene	17.959	252	654893	44.36	ppm		99
94) Benzo[k]fluoranthene	18.002	252	660851	42.09	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024552.D
Acq On : 28 Jul 2012 5:14 pm
Operator : fouads
Sample : op42844-ms
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 07:13:59 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Benzo[a]pyrene	18.478	252	593488	40.23 ppm	97
96) Indeno[1,2,3-cd]pyrene	20.174	276	549269	43.97 ppm	96
97) Dibenz[a,h]anthracene	20.211	278	568758	44.54 ppm	94
98) Benzo[g,h,i]perylene	20.521	276	594317	43.16 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

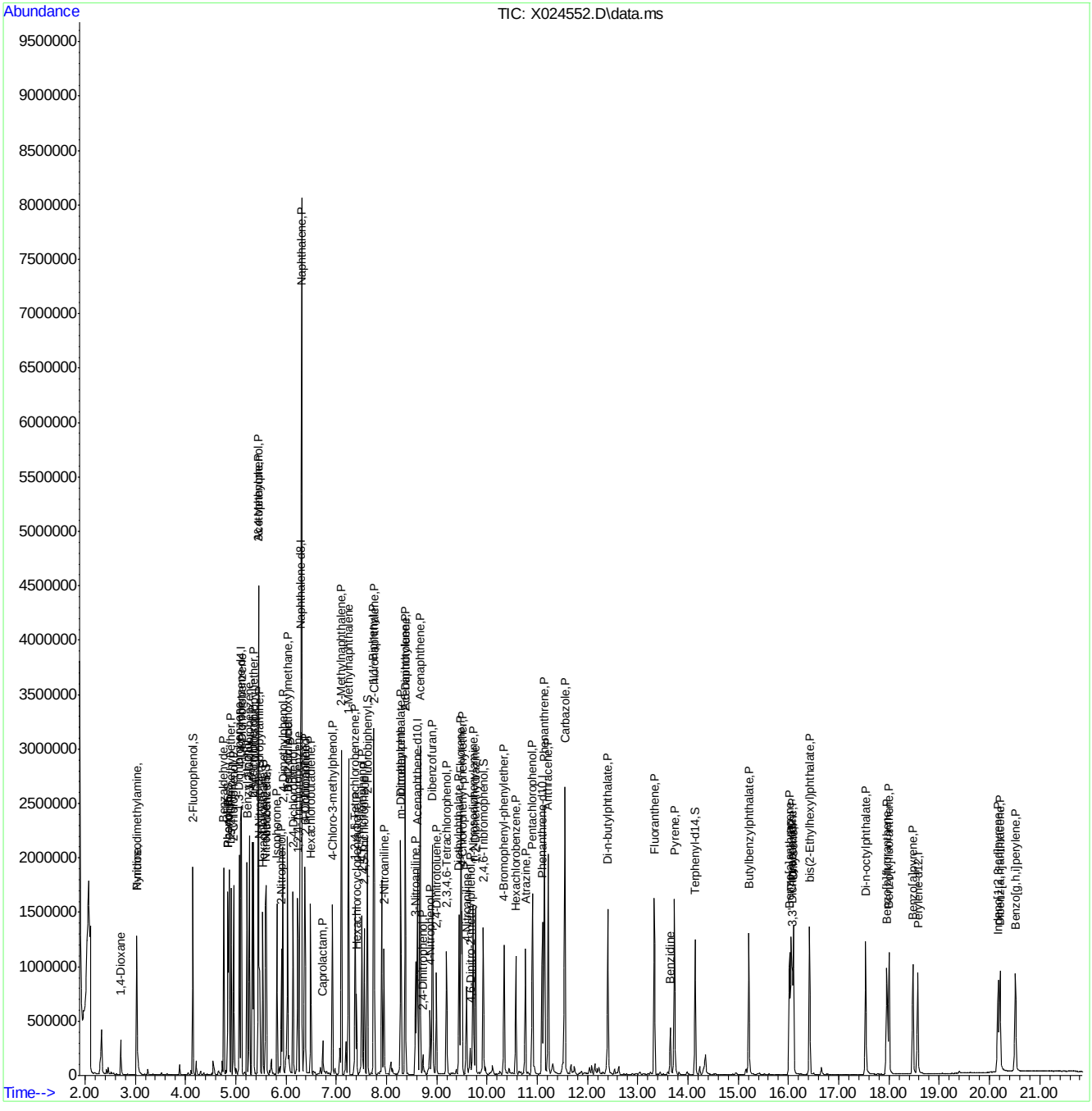
9.5.3

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024552.D
Acq On : 28 Jul 2012 5:14 pm
Operator : fouads
Sample : op42844-ms
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 07:13:59 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024553.D
Acq On : 28 Jul 2012 5:41 pm
Operator : fouads
Sample : op42844-msd
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 07:15:04 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	288555	40.00 ppm	0.00
22) Naphthalene-d8	6.283	136	1159820	40.00 ppm	0.00
41) Acenaphthene-d10	8.615	164	523825	40.00 ppm	0.00
67) Phenanthrene-d10	11.097	188	755240	40.00 ppm	-0.01
82) Chrysene-d12	16.055	240	542543	40.00 ppm	-0.01
91) Perylene-d12	18.574	264	485121	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	4.144	112	523232	46.40 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 46.40%		
9) Phenol-d5	4.845	99	461055	31.27 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 31.27%		
23) Nitrobenzene-d5	5.593	82	437977	34.45 ppm	-0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 68.90%		
45) 2-Fluorobiphenyl	7.620	172	685349	37.96 ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 75.92%		
71) 2,4,6-Tribromophenol	9.926	330	164617	82.22 ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 82.22%		
85) Terphenyl-d14	14.140	244	515139	41.40 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 82.80%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.710	88	114729	22.34 ppm	94
3) N-nitrosodimethylamine	3.026	42	132207	21.94 ppm	91
4) Pyridine	3.031	79	323692	22.89 ppm	96
6) Benzaldehyde	4.759	106	312088	41.79 ppm	99
7) Aniline	4.866	93	648621	30.89 ppm	98
8) bis(2-Chloroethyl)ether	4.909	93	457478	35.36 ppm	99
10) Phenol	4.850	94	307374	18.62 ppm	97
11) 2-Chlorophenol	4.957	128	406246	34.14 ppm	95
12) 1,3-Dichlorobenzene	5.074	146	424485	34.59 ppm	99
13) 1,4-Dichlorobenzene	5.112	146	435363	34.77 ppm	96
14) 1,2-Dichlorobenzene	5.272	146	411902	35.23 ppm	98
15) Benzyl alcohol	5.224	108	271375	31.69 ppm	98
16) 2-Methylphenol	5.326	108	356406	30.30 ppm	98
17) bis(2-chloroisopropyl)...	5.353	45	741950	31.90 ppm	98
18) Acetophenone	5.454	105	539092	33.11 ppm	98
19) N-Nitroso-di-n-propyla...	5.476	70	291788	33.51 ppm	93
20) 3&4-Methylphenol	5.449	108	621324	51.26 ppm	99
21) Hexachloroethane	5.534	117	170838	33.38 ppm	99
24) Nitrobenzene	5.609	77	431184	34.65 ppm	97
25) Isophorone	5.818	82	674275	27.95 ppm	98
26) 2-Nitrophenol	5.909	139	206489	36.69 ppm	98
27) 2,4-Dimethylphenol	5.936	107	367881	31.27 ppm	99
28) bis(2-Chloroethoxy)met...	6.032	93	498659	34.06 ppm	99
29) Benzoic Acid	6.037	105	251637	27.71 ppm	96
30) 2,4-Dichlorophenol	6.139	162	308679	34.92 ppm	98
31) 1,2,4-Trichlorobenzene	6.235	180	313130	32.86 ppm	99
32) Naphthalene	6.305	128	4455160	133.22 ppm	100
33) 4-Chloroaniline	6.369	127	435632	29.58 ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024553.D
Acq On : 28 Jul 2012 5:41 pm
Operator : fouads
Sample : op42844-msd
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 07:15:04 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.385	162	292650	32.10	ppm		98
35) Hexachlorobutadiene	6.492	225	164000	33.79	ppm		100
36) Caprolactam	6.733	113	42558	11.04	ppm		95
37) 4-Chloro-3-methylphenol	6.925	107	317797	32.49	ppm		98
38) 2-Methylnaphthalene	7.102	142	922545	43.89	ppm		97
39) 1-Methylnaphthalene	7.246	142	809953	40.90	ppm		98
40) 1,2,4,5-Tetrachloroben...	7.374	216	276178	31.19	ppm		98
42) Hexachlorocyclopentadiene	7.401	237	100172	23.10	ppm		100
43) 2,4,6-Trichlorophenol	7.508	196	195909	39.48	ppm		99
44) 2,4,5-Trichlorophenol	7.562	196	205100	39.20	ppm		97
46) 1,1'-Biphenyl	7.743	154	823015	39.63	ppm		99
47) 2-Chloronaphthalene	7.754	162	583685	36.84	ppm		98
48) 2-Nitroaniline	7.947	65	206334	41.49	ppm		93
50) Dimethylphthalate	8.284	163	667074	39.13	ppm		99
51) m-Dinitrobenzene	8.289	168	107073	38.36	ppm	#	61
52) 2,6-Dinitrotoluene	8.375	165	145524	38.62	ppm		83
54) Acenaphthylene	8.375	152	966402	37.03	ppm		99
55) 3-Nitroaniline	8.583	138	190582	37.76	ppm		100
56) Acenaphthene	8.663	153	843606	50.90	ppm		100
57) 2,4-Dinitrophenol	8.738	184	8534	9.38	ppm		90
58) 4-Nitrophenol	8.867	109	78506	35.21	ppm		91
59) Dibenzofuran	8.915	168	983325	46.18	ppm		94
60) 2,4-Dinitrotoluene	8.995	165	191472	40.56	ppm		99
62) 2,3,4,6-Tetrachlorophenol	9.193	232	148235	38.36	ppm		98
63) Diethylphthalate	9.444	149	668389	38.81	ppm		100
64) Fluorene	9.482	166	850097	47.94	ppm		98
65) 4-Chlorophenyl-phenyle...	9.509	204	291501	38.67	ppm		97
66) 4-Nitroaniline	9.594	138	186697	40.13	ppm		99
68) 4,6-Dinitro-2-methylph...	9.669	198	40874	23.28	ppm	#	76
69) n-Nitrosodiphenylamine	9.722	169	454540	39.86	ppm		99
70) 1,2-Diphenylhydrazine	9.771	77	706401	38.24	ppm		97
72) 4-Bromophenyl-phenylether	10.343	248	157534	40.15	ppm		97
73) Hexachlorobenzene	10.573	284	168089	39.33	ppm		99
75) Atrazine	10.765	200	146209	38.85	ppm		98
76) Pentachlorophenol	10.905	266	221574	80.07	ppm		96
77) Phenanthrene	11.140	178	1220297	56.15	ppm		99
78) Anthracene	11.220	178	911887	40.80	ppm		99
79) Carbazole	11.552	167	1585675	74.60	ppm		100
80) Di-n-butylphthalate	12.402	149	978263	37.21	ppm		99
81) Fluoranthene	13.327	202	809819	39.73	ppm		99
83) Benzidine	13.648	184	226439	23.04	ppm		97
84) Pyrene	13.734	202	829540	41.75	ppm		99
86) Butylbenzylphthalate	15.216	149	388629	39.96	ppm		97
87) 3,3'-Dichlorobenzidine	16.077	252	218897	38.60	ppm		98
88) Benzo[a]anthracene	16.023	228	610105	38.93	ppm		100
89) Chrysene	16.098	228	584429	38.97	ppm		98
90) bis(2-Ethylhexyl)phtha...	16.419	149	528749	39.50	ppm		100
92) Di-n-octylphthalate	17.537	149	872796	41.02	ppm		99
93) Benzo[b]fluoranthene	17.959	252	561648	41.41	ppm		97
94) Benzo[k]fluoranthene	18.002	252	536582	37.20	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024553.D
Acq On : 28 Jul 2012 5:41 pm
Operator : fouads
Sample : op42844-msd
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 07:15:04 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) Benzo[a]pyrene	18.478	252	501463	36.99 ppm	96
96) Indeno[1,2,3-cd]pyrene	20.168	276	471055	41.05 ppm	97
97) Dibenz[a,h]anthracene	20.211	278	481487	41.04 ppm	93
98) Benzo[g,h,i]perylene	20.516	276	507068	40.08 ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.5.4

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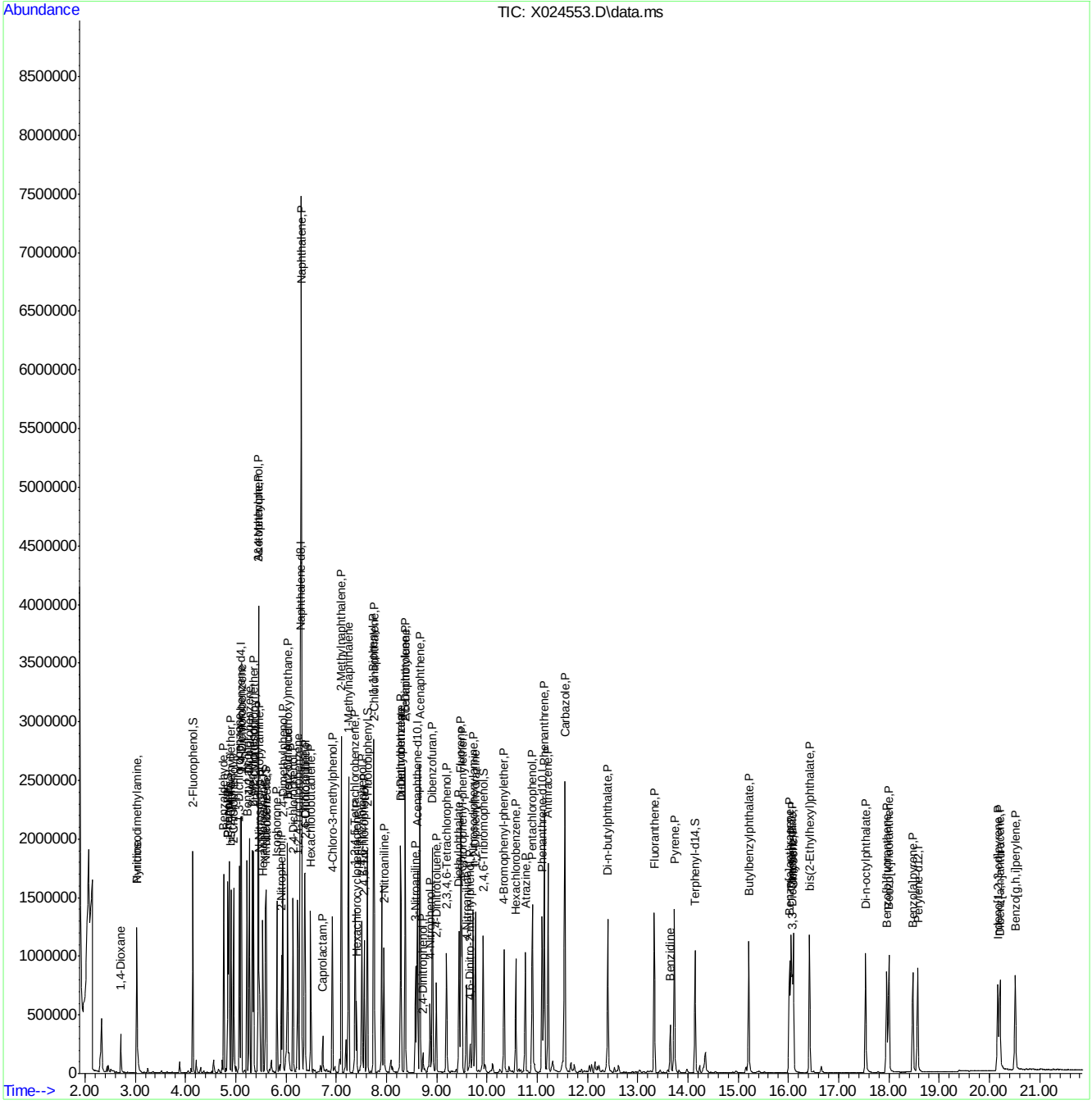
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024553.D
Acq On : 28 Jul 2012 5:41 pm
Operator : fouads
Sample : op42844-msd
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 07:15:04 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024555.D
Acq On : 28 Jul 2012 6:36 pm
Operator : fouads
Sample : op42844-dup
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 30 07:21:52 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration

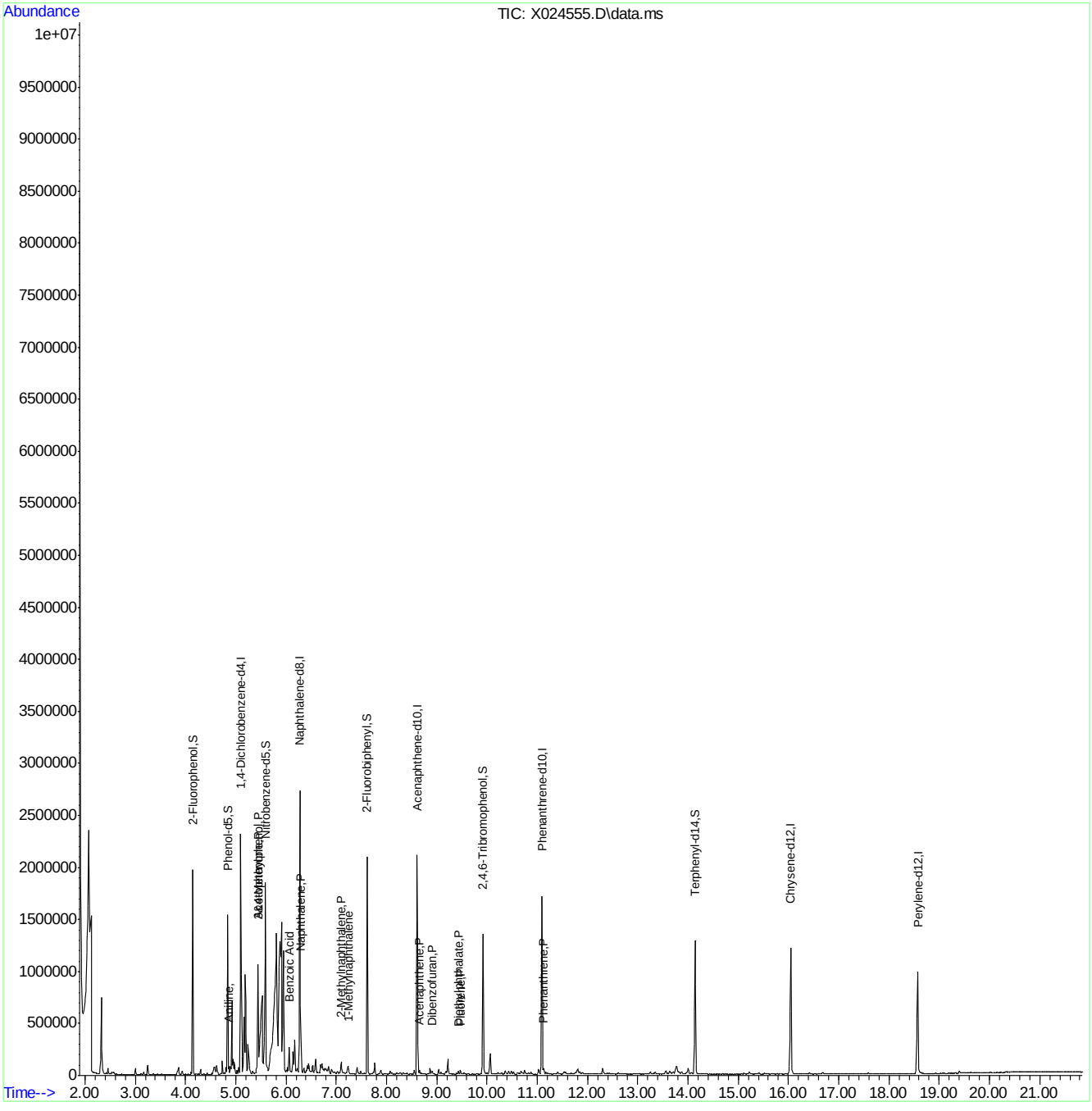
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	347727	40.00 ppm	0.00
22) Naphthalene-d8	6.278	136	1319438	40.00 ppm	0.00
41) Acenaphthene-d10	8.610	164	629409	40.00 ppm	-0.01
67) Phenanthrene-d10	11.097	188	916906	40.00 ppm	-0.01
82) Chrysene-d12	16.050	240	661330	40.00 ppm	-0.02
91) Perylene-d12	18.575	264	571577	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	4.144	112	563136	41.44 ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 41.44%		
9) Phenol-d5	4.839	99	510445	28.73 ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 28.73%		
23) Nitrobenzene-d5	5.588	82	499197	34.51 ppm	-0.02
Spiked Amount 50.000	Range 42 - 108		Recovery = 69.02%		
45) 2-Fluorobiphenyl	7.615	172	776233	35.78 ppm	-0.02
Spiked Amount 50.000	Range 40 - 106		Recovery = 71.56%		
71) 2,4,6-Tribromophenol	9.926	330	200324	82.41 ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 82.41%		
85) Terphenyl-d14	14.146	244	652040	42.99 ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 85.98%		
Target Compounds					Qvalue
7) Aniline	4.866	93	25323	1.00 ppm	90
18) Acetophenone	5.449	105	10825	0.55 ppm	89
20) 3&4-Methylphenol	5.444	108	217734	14.91 ppm	91
29) Benzoic Acid	6.059	105	13146	1.33 ppm	88
32) Naphthalene	6.300	128	325297	8.55 ppm	100
38) 2-Methylnaphthalene	7.096	142	23834	1.00 ppm	96
39) 1-Methylnaphthalene	7.241	142	13568	0.60 ppm	98
56) Acenaphthene	8.653	153	11724	0.59 ppm	91
59) Dibenzofuran	8.910	168	14481	0.57 ppm	89
63) Diethylphthalate	9.428	149	11712	0.57 ppm	95
64) Fluorene	9.477	166	13140	0.62 ppm	92
77) Phenanthrene	11.129	178	20588	0.78 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

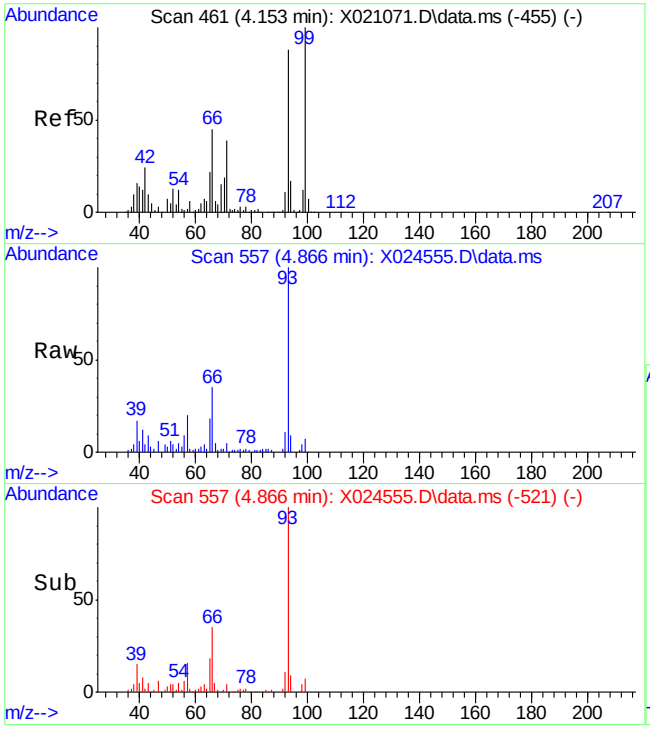
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024555.D
Acq On : 28 Jul 2012 6:36 pm
Operator : fouads
Sample : op42844-dup
Misc : op42844,sx1192,100,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 30 07:21:52 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 06:49:53 2012
Response via : Initial Calibration



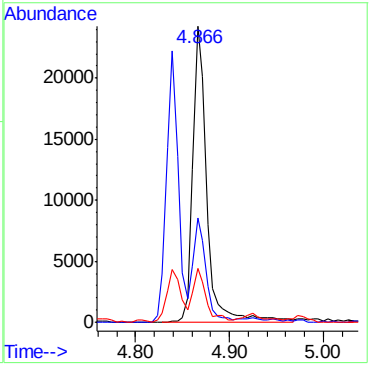
8270d.m Mon Jul 30 07:56:33 2012 Page: 2

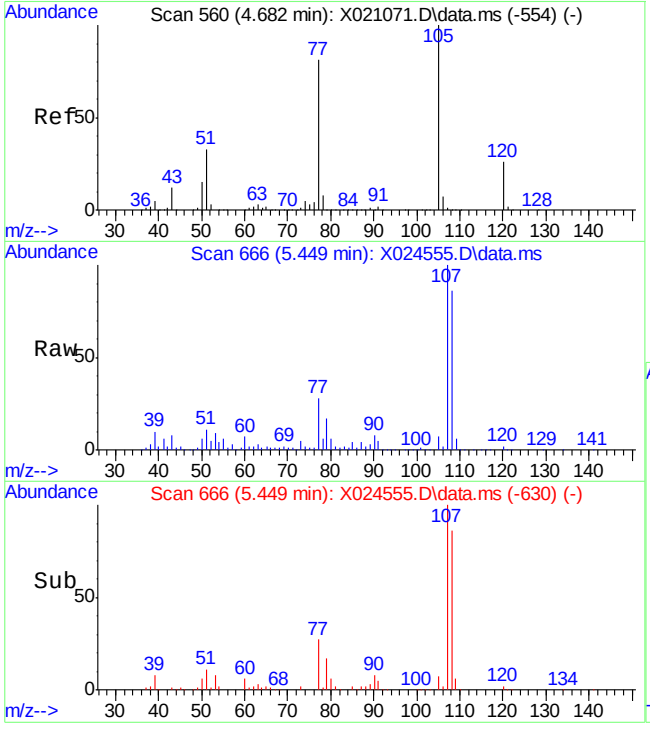


#7
Aniline
Concen: 1.00 ppm
RT: 4.866 min Scan# 557
Delta R.T. -0.006 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion: 93 Resp: 25323

Ion	Ratio	Lower	Upper
93	100		
66	26.9	4.8	64.8
65	16.1	0.0	47.7

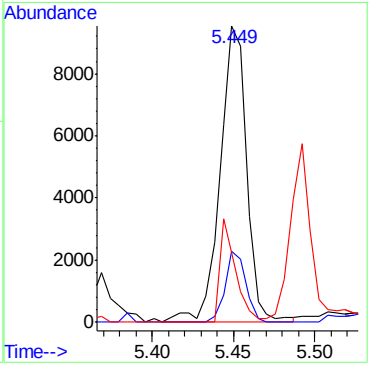




#18
Acetophenone
Concen: 0.55 ppm
RT: 5.449 min Scan# 666
Delta R.T. -0.009 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:105 Resp: 10825

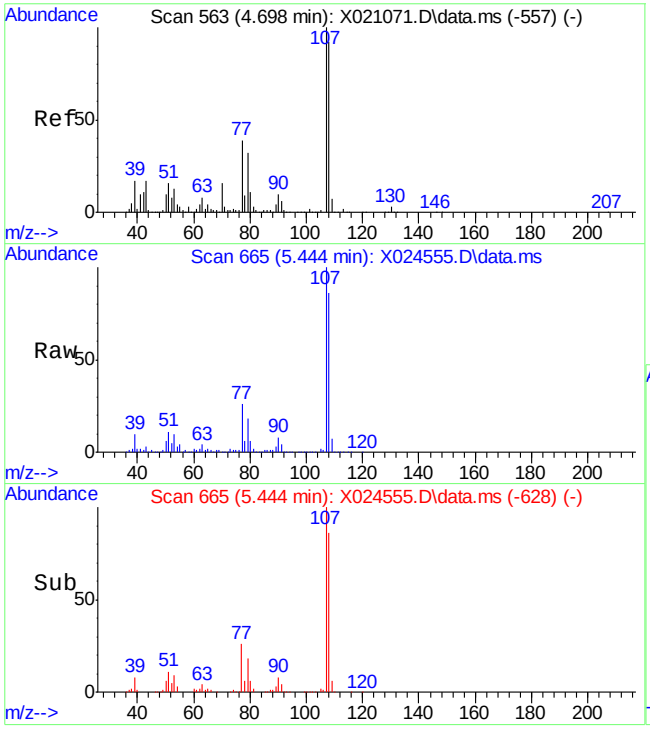
Ion	Ratio	Lower	Upper
105	100		
120	24.2	0.0	59.3
106	2.9	0.0	37.9



9.6.1

9

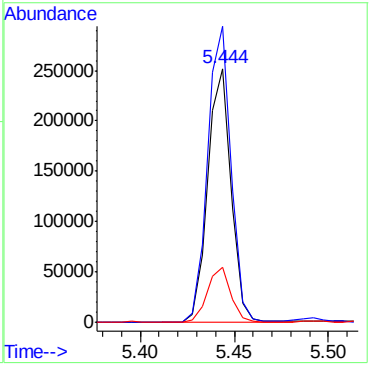
ACCUTEST LABORATORIES F95274

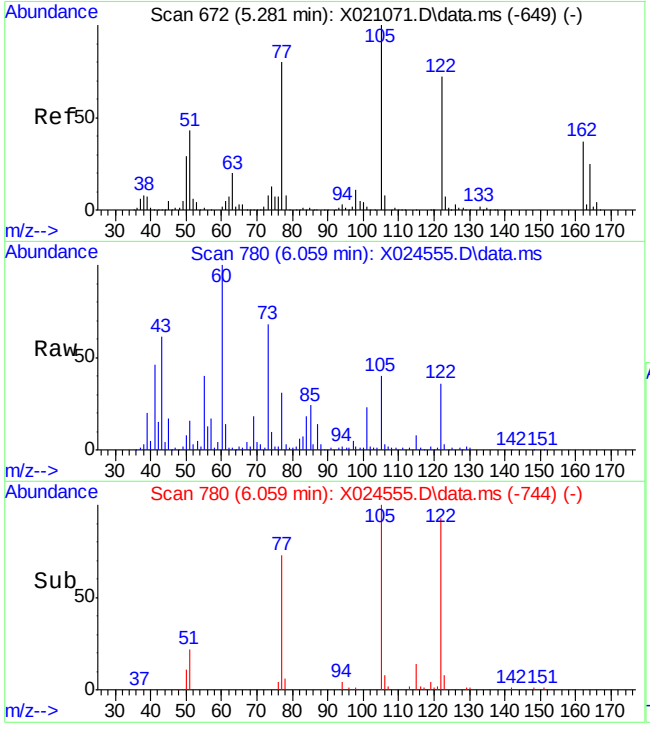


#20
3&4-Methylphenol
Concen: 14.91 ppm
RT: 5.444 min Scan# 665
Delta R.T. 0.000 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:108 Resp: 217734

Ion	Ratio	Lower	Upper
108	100		
107	116.4	76.6	136.6
79	21.4	0.0	55.4

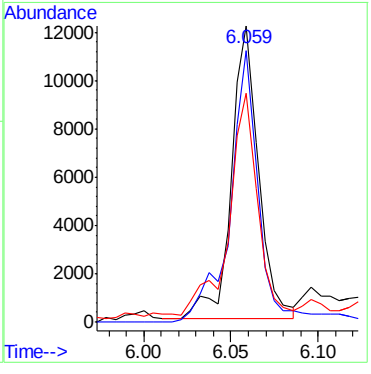




#29
Benzoic Acid
Concen: 1.33 ppm
RT: 6.059 min Scan# 780
Delta R.T. -0.010 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:105 Resp: 13146

Ion	Ratio	Lower	Upper
105	100		
122	92.6	49.1	109.1
77	76.4	39.0	99.0



9.6.1

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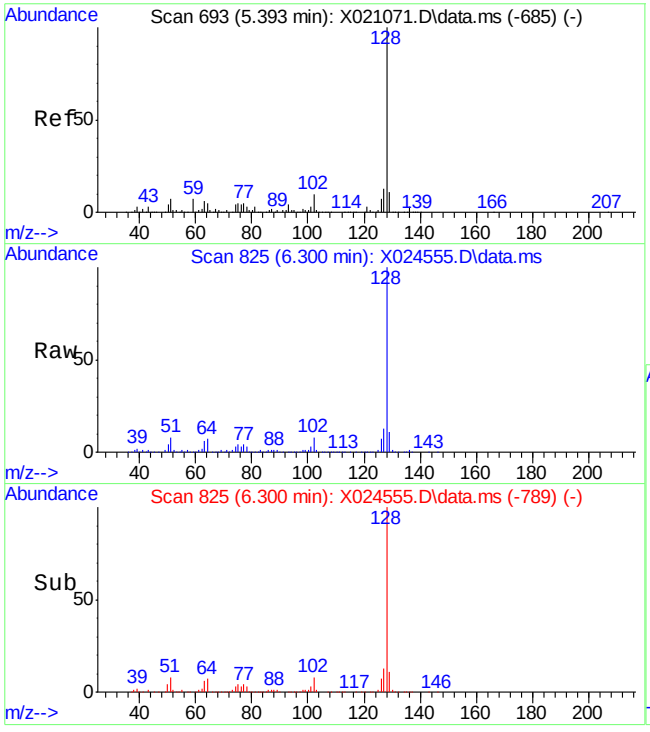
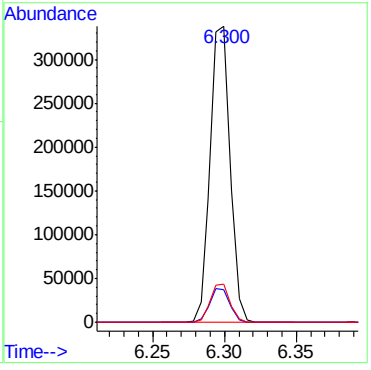
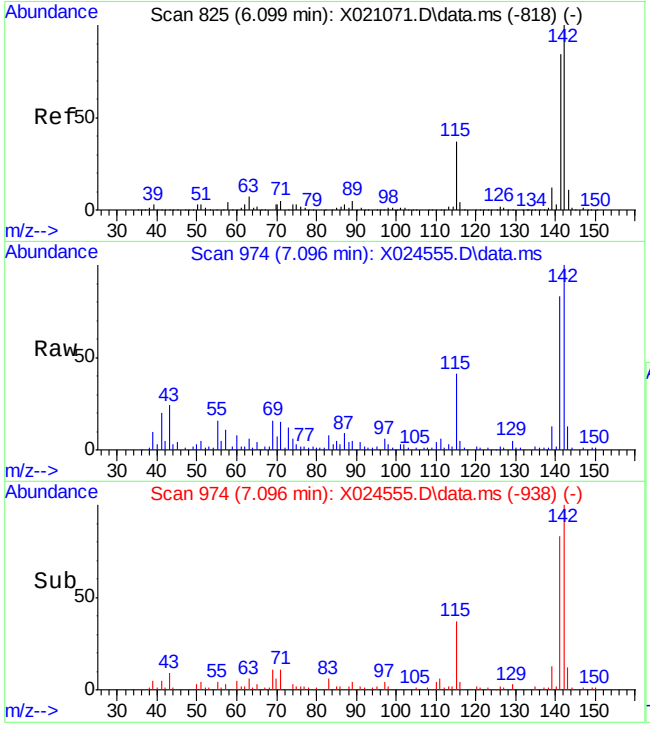


#32
Naphthalene
Concen: 8.55 ppm
RT: 6.300 min Scan# 825
Delta R.T. -0.009 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:128 Resp: 325297

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.1
127	12.8	0.0	42.7

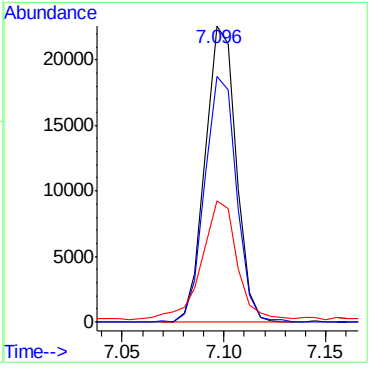




#38
2-Methylnaphthalene
Concen: 1.00 ppm
RT: 7.096 min Scan# 974
Delta R.T. -0.006 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:142 Resp: 23834

Ion	Ratio	Lower	Upper
142	100		
141	82.6	53.1	113.1
115	38.9	0.6	60.6



9.6.1

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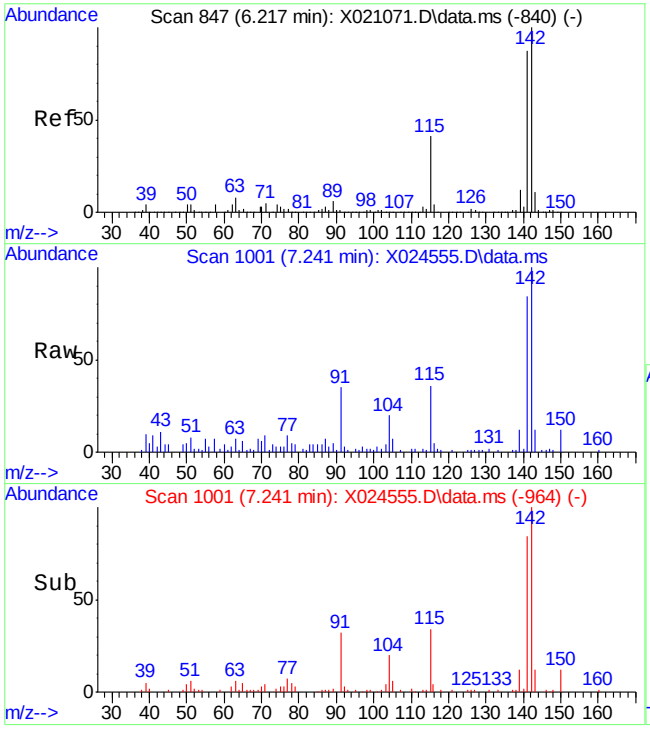
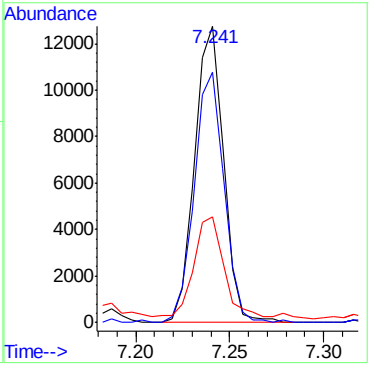
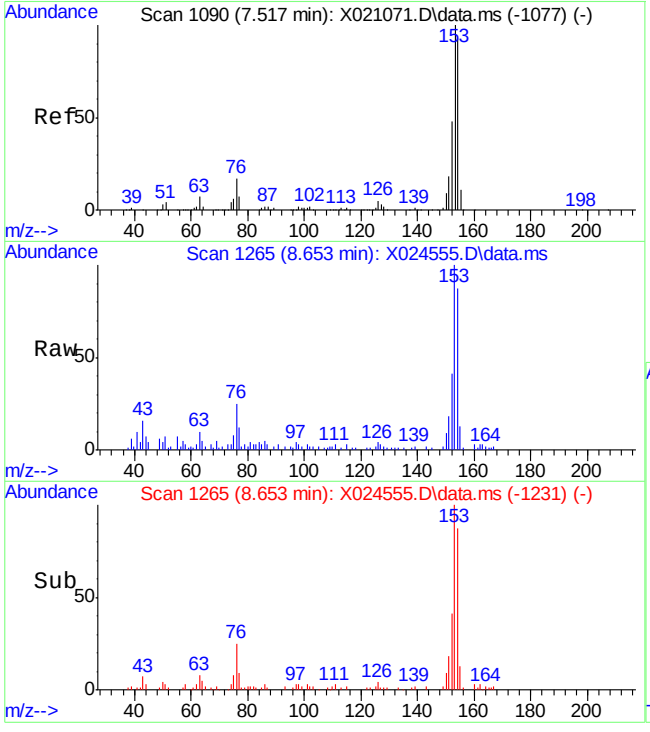


#39
1-Methylnaphthalene
Concen: 0.60 ppm
RT: 7.241 min Scan# 1001
Delta R.T. -0.002 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:142 Resp: 13568

Ion	Ratio	Lower	Upper
142	100		
141	84.4	56.2	116.2
115	33.7	2.0	62.0

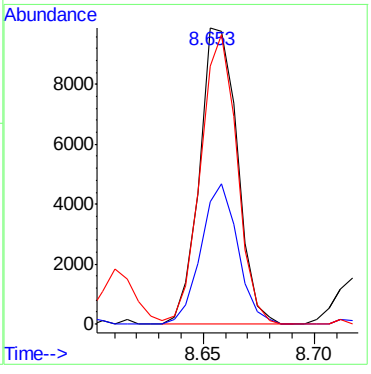




#56
Acenaphthene
Concen: 0.59 ppm
RT: 8.653 min Scan# 1265
Delta R.T. -0.020 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:153 Resp: 11724

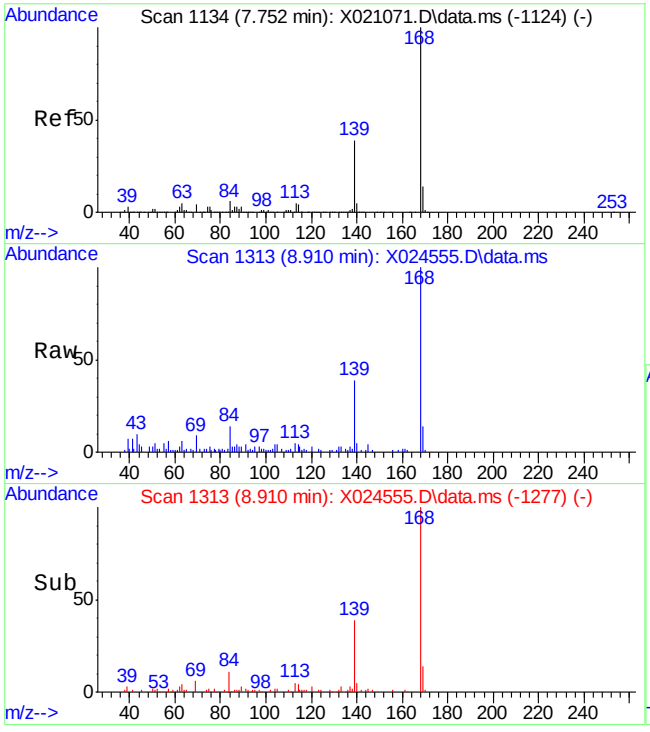
Ion	Ratio	Lower	Upper
153	100		
152	41.5	17.5	77.5
154	86.6	64.9	124.9



9.6.1

9

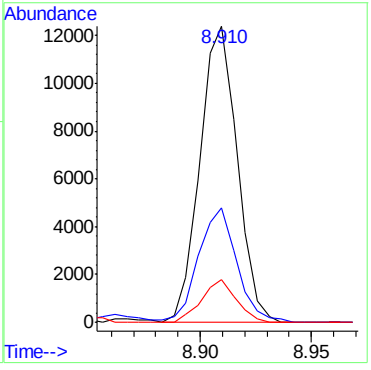
ACCUTEST LABORATORIES F95274

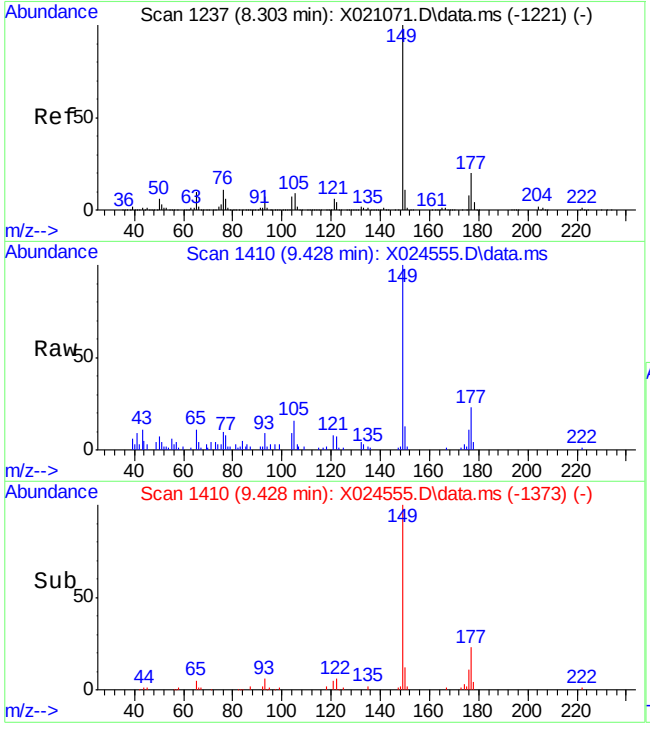


#59
Dibenzofuran
Concen: 0.57 ppm
RT: 8.910 min Scan# 1313
Delta R.T. -0.009 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:168 Resp: 14481

Ion	Ratio	Lower	Upper
168	100		
139	38.3	0.1	60.1
169	14.4	0.0	43.6

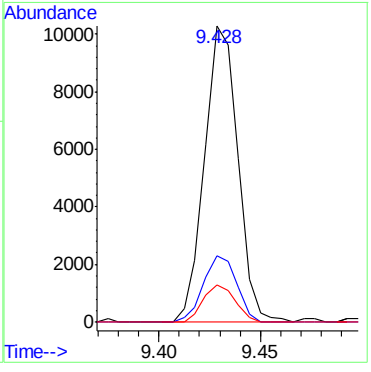


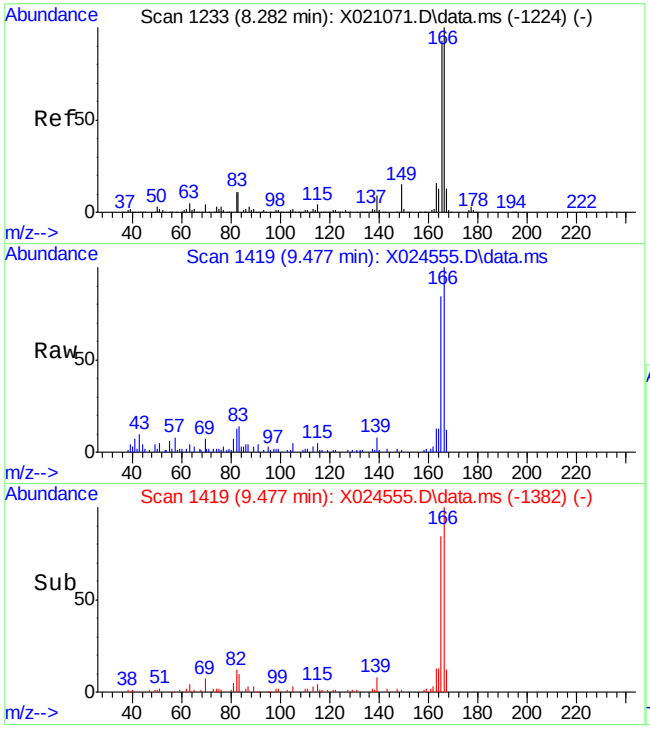


#63
Diethylphthalate
Concen: 0.57 ppm
RT: 9.428 min Scan# 1410
Delta R.T. -0.005 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:149 Resp: 11712

Ion	Ratio	Lower	Upper
149	100		
177	22.5	0.0	50.0
150	12.7	0.0	41.6

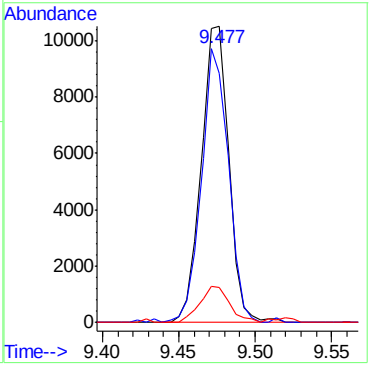


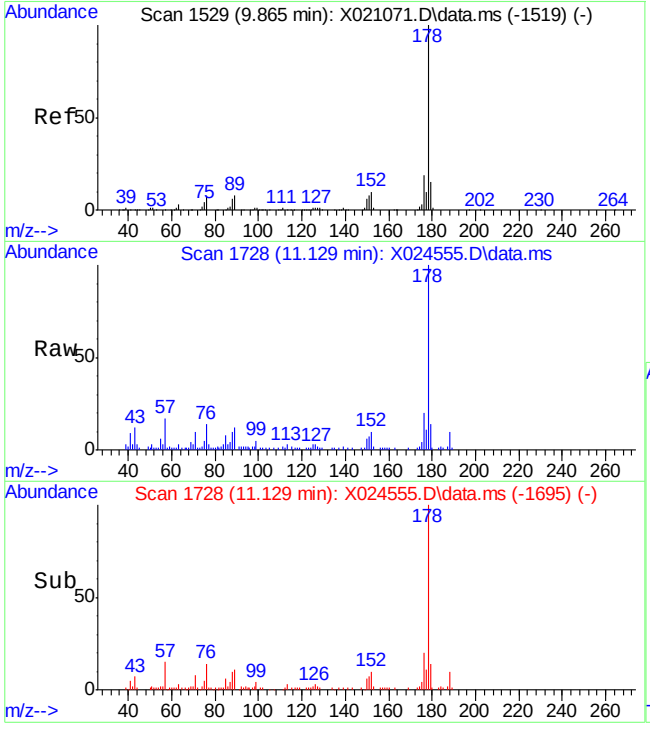


#64
Fluorene
Concen: 0.62 ppm
RT: 9.477 min Scan# 1419
Delta R.T. -0.001 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:166 Resp: 13140

Ion	Ratio	Lower	Upper
166	100		
165	84.0	61.6	121.6
167	11.2	0.0	43.1

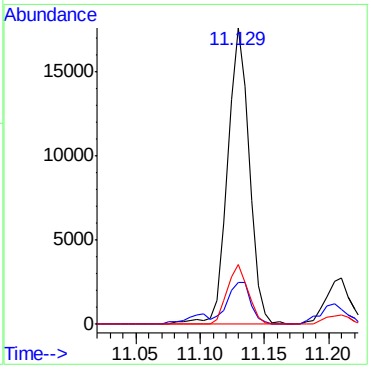




#77
Phenanthrene
Concen: 0.78 ppm
RT: 11.129 min Scan# 1728
Delta R.T. -0.023 min
Lab File: X024555.D
Acq: 28 Jul 2012 6:36 pm

Tgt Ion:178 Resp: 20588

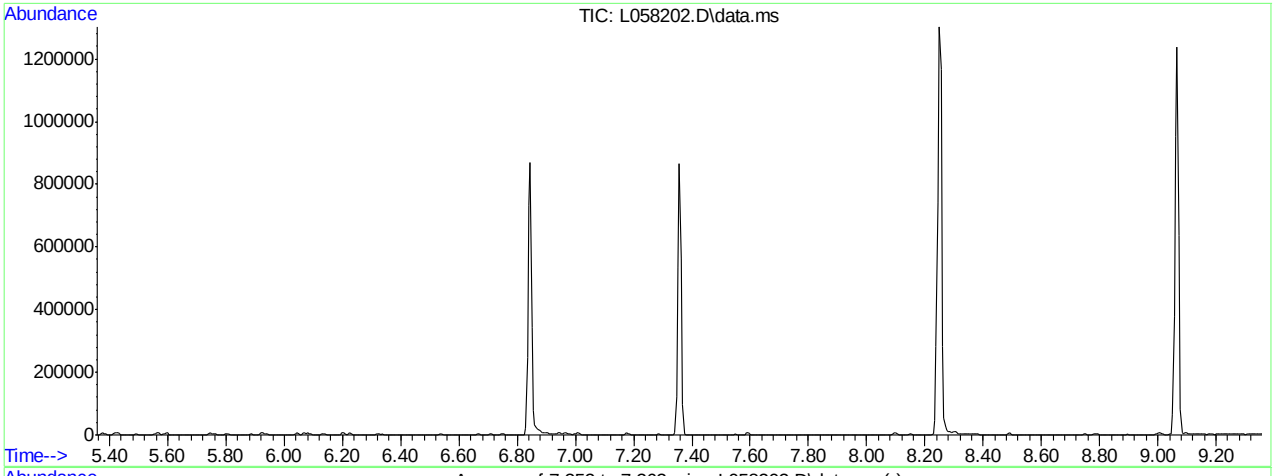
Ion	Ratio	Lower	Upper
178	100		
179	14.2	0.0	45.5
176	20.0	0.0	48.9

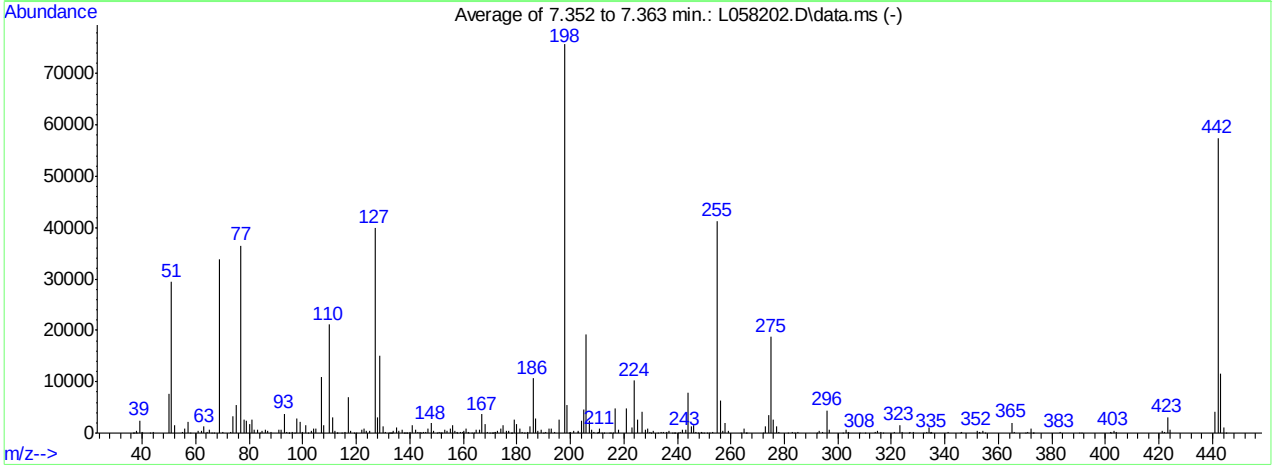


SW-846 Method 8270

Data File : C:\msdchem\2\DATA\071312a\L058202.D Vial: 1
Acq On : 13 Jul 2012 1:33 pm Operator: nancyf
Sample : dftpp Inst : MSBNA02
Misc : op42019,sl2972,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 517, 518, 519; Background Corrected with Scan 512

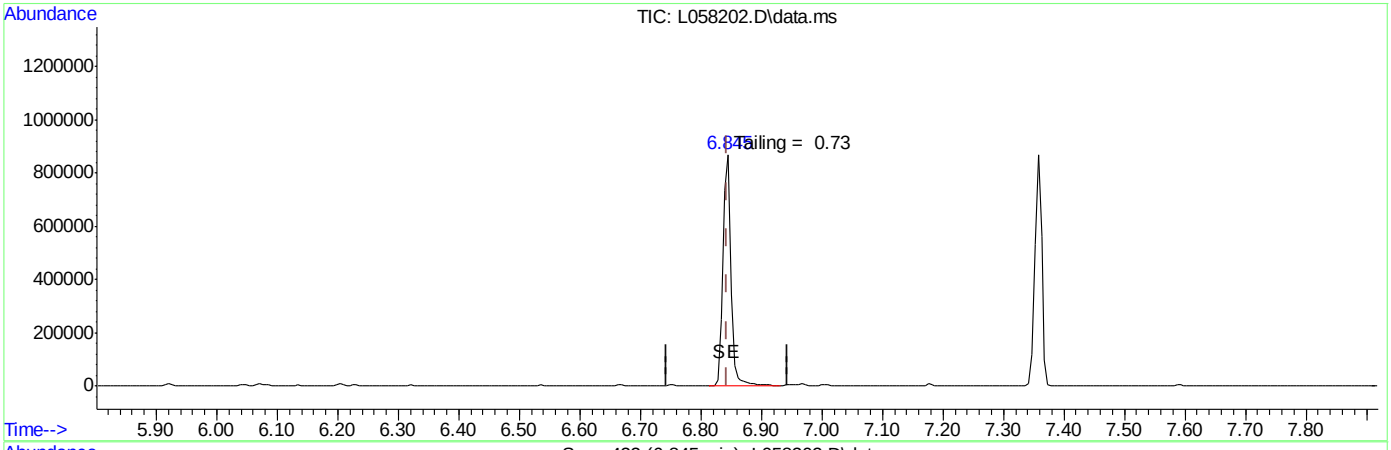
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	29378	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.8	33930	PASS
70	69	0.00	2	0.7	228	PASS
127	198	40	60	52.8	39925	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	75653	PASS
199	198	5	9	7.2	5450	PASS
275	198	10	30	24.7	18668	PASS
365	198	1	100	2.6	1990	PASS
441	443	0.01	100	35.1	4059	PASS
442	198	40	100	75.9	57426	PASS
443	442	17	23	20.2	11578	PASS

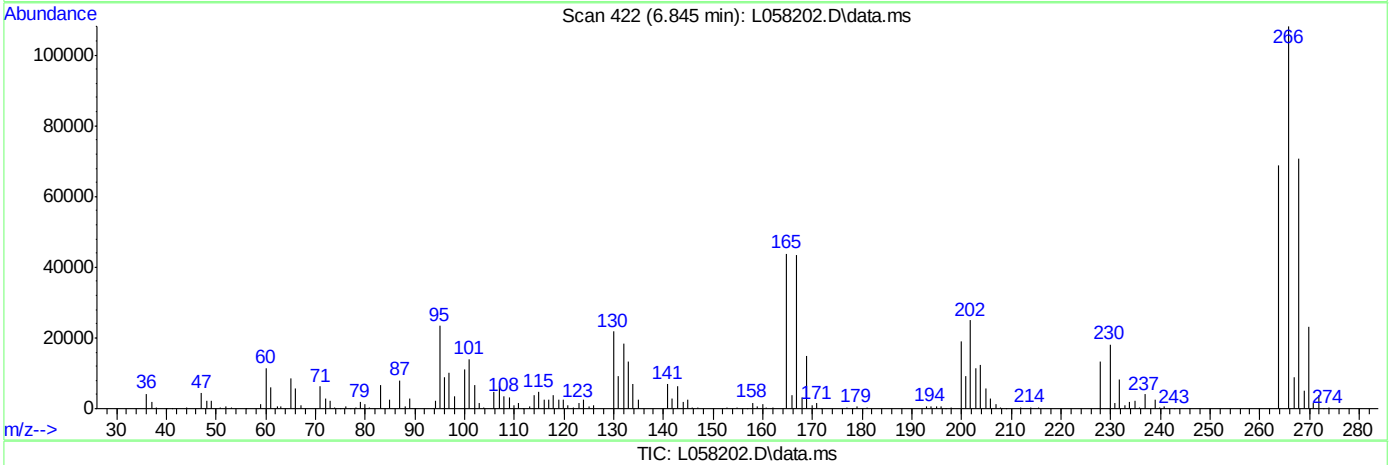
L058202.D dftpp.m Mon Jul 16 10:08:39 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On : 13 Jul 2012 1:33 pm
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2972,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration





TIC: L058202.D\data.ms

(1) Pentachlorophenol

6.845min (0.000) 32.38

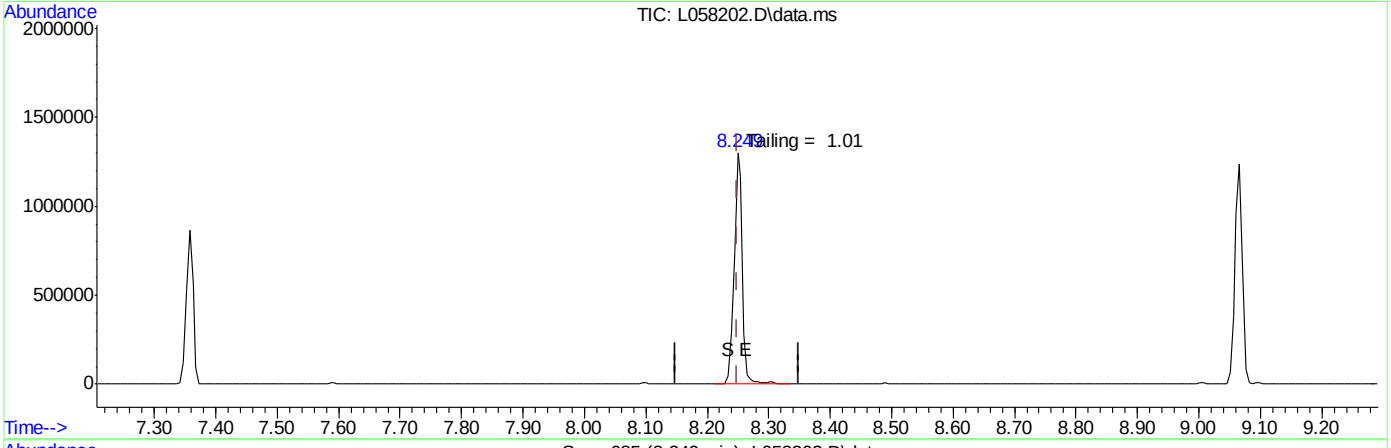
response 774540

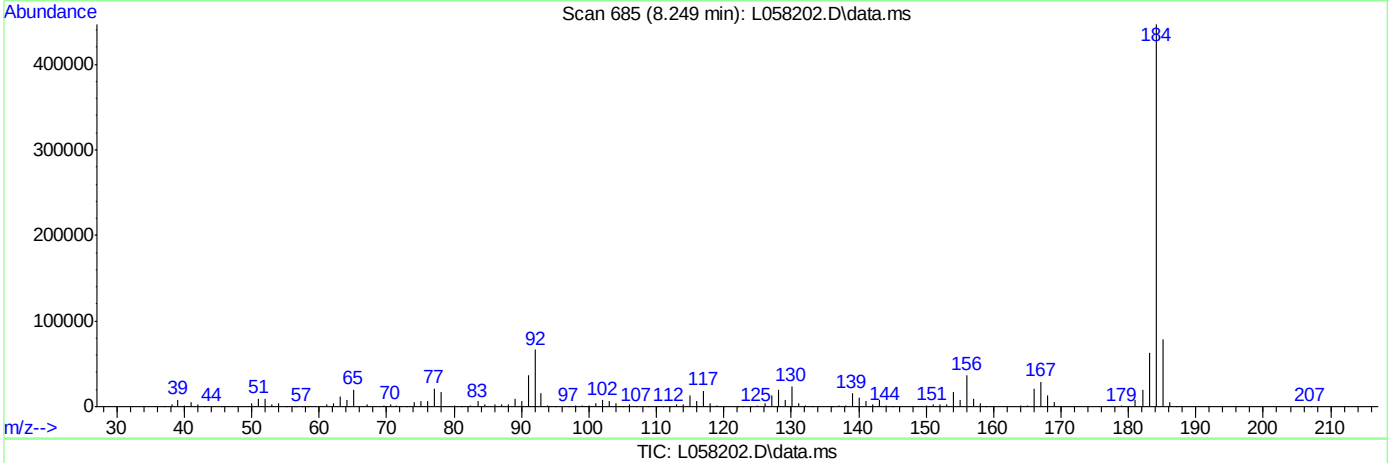
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On    : 13 Jul 2012   1:33 pm
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2972,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration
```





TIC: L058202.D\data.ms

(3) Benzidine

8.249min (0.000) 29.82

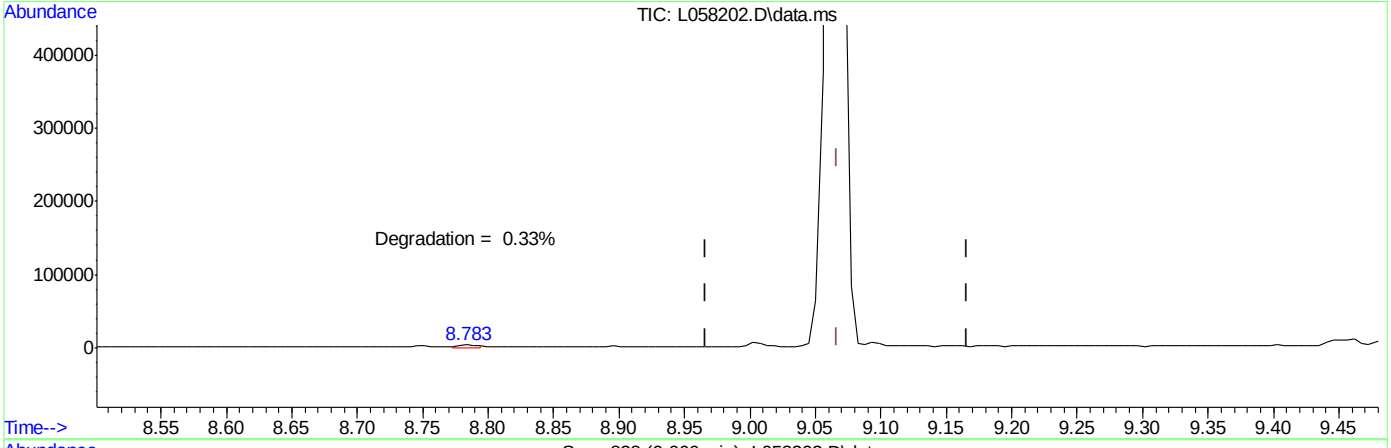
response 1264788

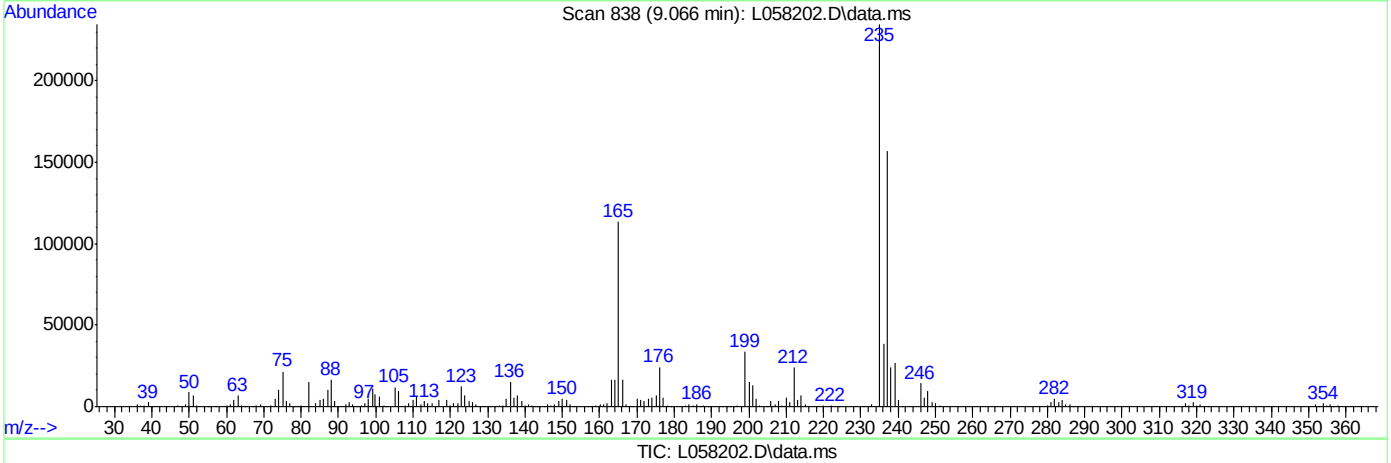
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058202.D
Acq On : 13 Jul 2012 1:33 pm
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2972,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 14:17:18 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Fri Jul 13 14:17:15 2012
Response via : Initial Calibration





TIC: L058202.D\data.ms

(4) DDT

9.066min (0.000) 30.78

response 1074629

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

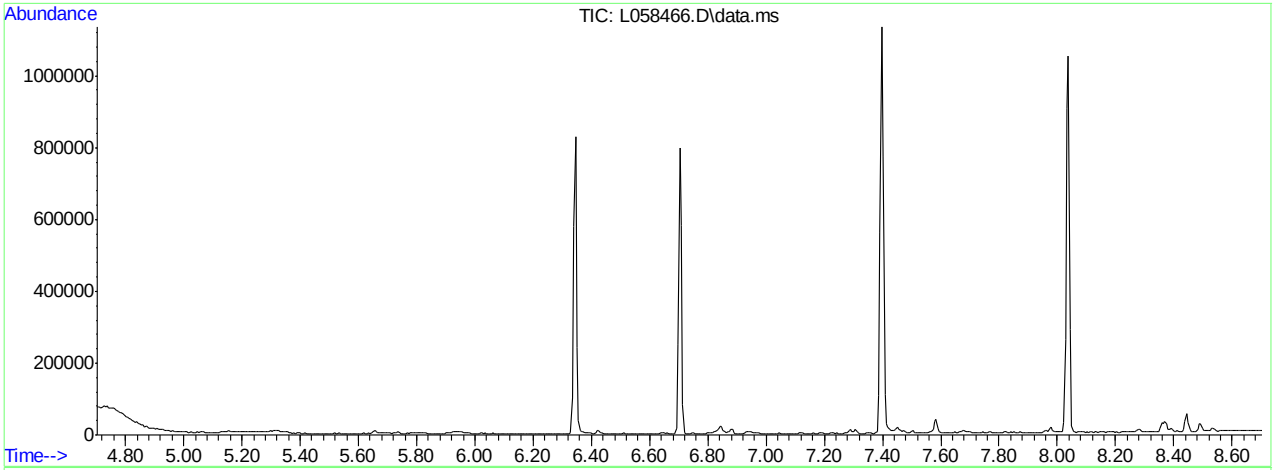
9.7.1.3

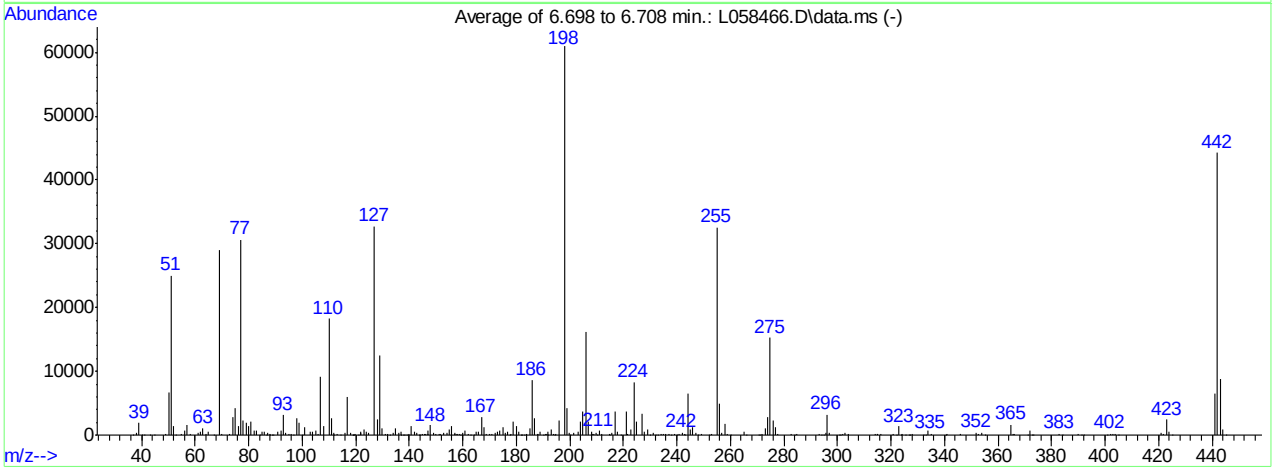
9

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\073012\L058466.D Vial: 1
Acq On : 30 Jul 2012 11:12 am Operator: nancyf
Sample : dftpp Inst : MSBNA02
Misc : op42019,sl2984,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 395, 396, 397; Background Corrected with Scan 391

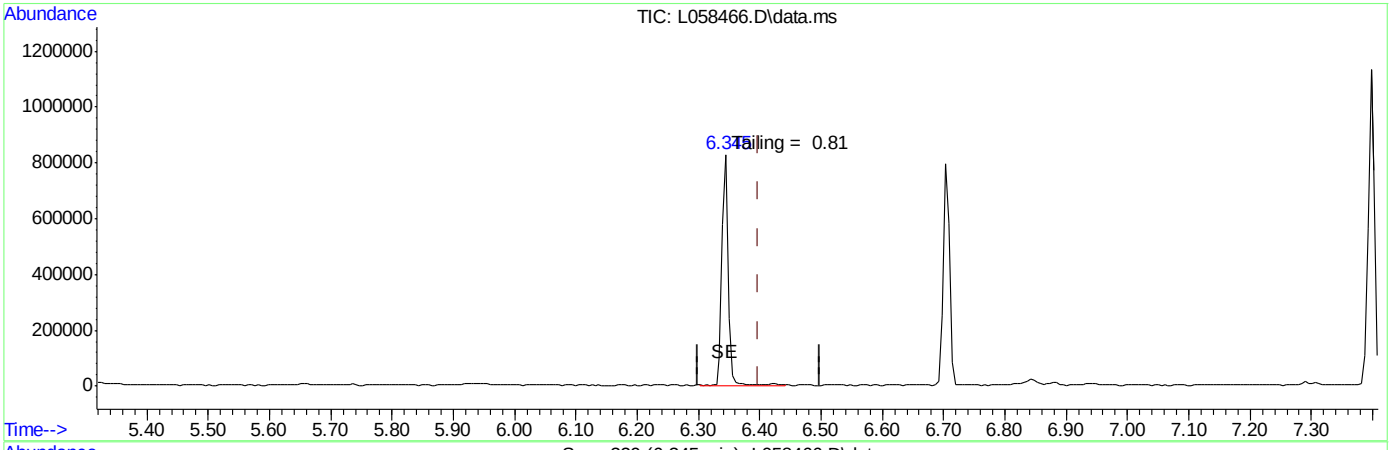
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	25008	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.7	29065	PASS
70	69	0.00	2	0.6	181	PASS
127	198	40	60	53.8	32757	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60922	PASS
199	198	5	9	7.0	4289	PASS
275	198	10	30	25.0	15232	PASS
365	198	1	100	2.7	1625	PASS
441	443	0.01	100	73.3	6430	PASS
442	198	40	100	72.6	44225	PASS
443	442	17	23	19.8	8773	PASS

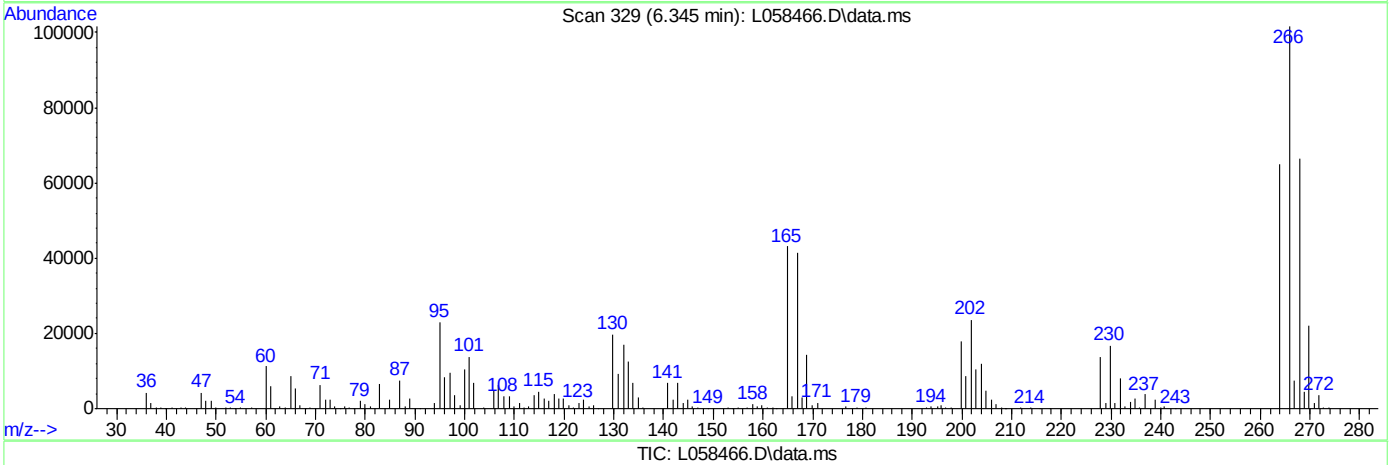
L058466.D dftpp.m Mon Jul 30 15:05:34 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058466.D
Acq On : 30 Jul 2012 11:12 am
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:05:38 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 23 09:35:37 2012
Response via : Initial Calibration





TIC: L058466.D\data.ms

(1) Pentachlorophenol

6.345min (-0.054) 24.48

response 585488

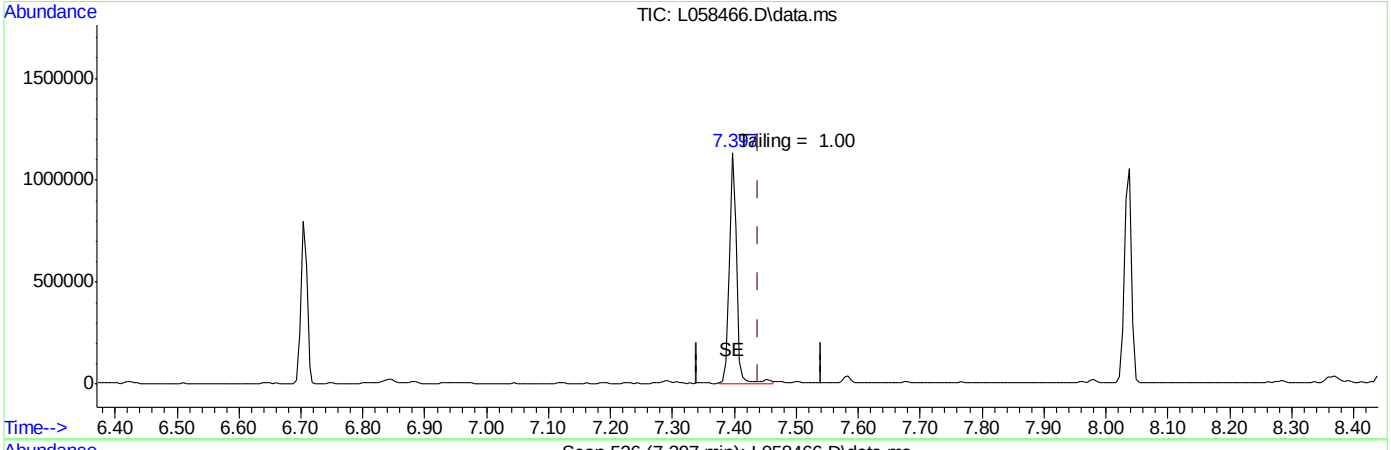
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST LABORATORIES F95274

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058466.D
Acq On    : 30 Jul 2012  11:12 am
Operator  : nancyf
Sample    : dftpp
Misc      : op42019,sl2984,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 30 15:05:38 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Mon Jul 23 09:35:37 2012
Response via : Initial Calibration
```



TIC: L058466.D\data.ms

(3) Benzidine

7.397min (-0.043) 20.83

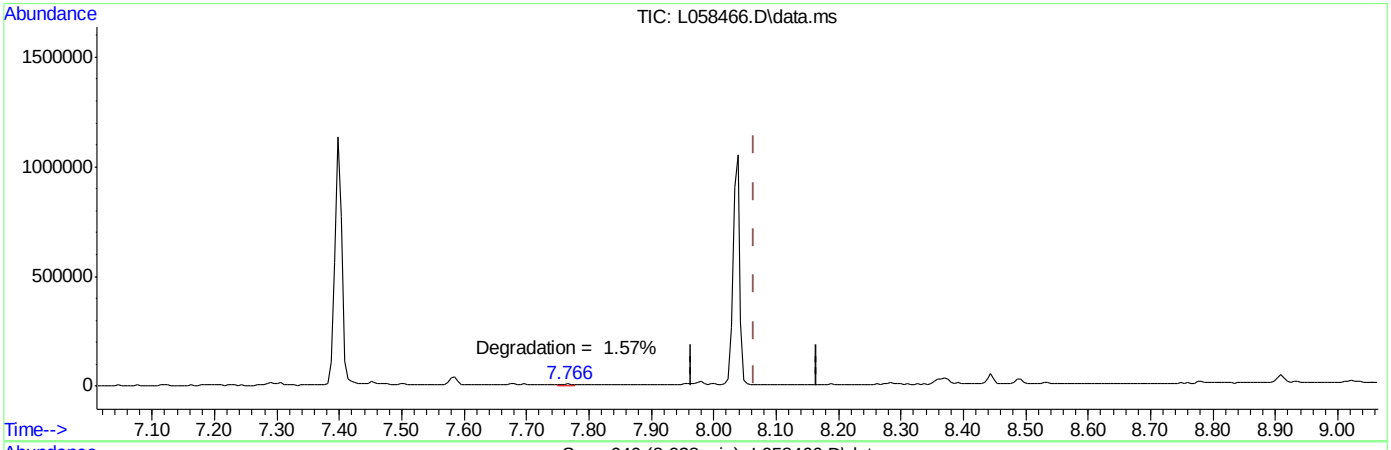
response 883427

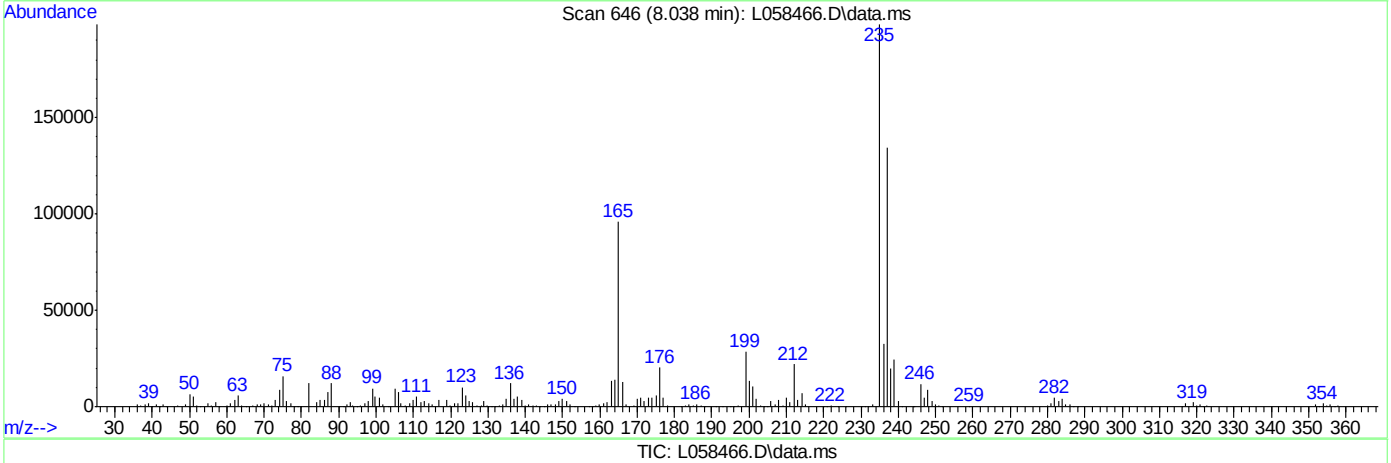
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058466.D
Acq On : 30 Jul 2012 11:12 am
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 15:05:38 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 23 09:35:37 2012
Response via : Initial Calibration





TIC: L058466.D\data.ms

(4) DDT

8.038min (-0.027) 23.34

response 814853

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

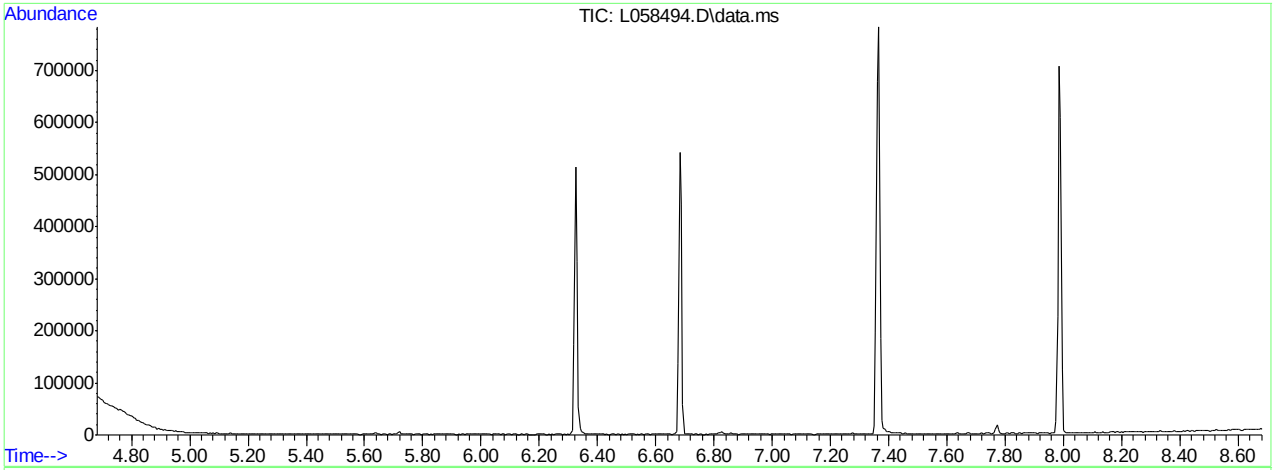
9.7.2.3

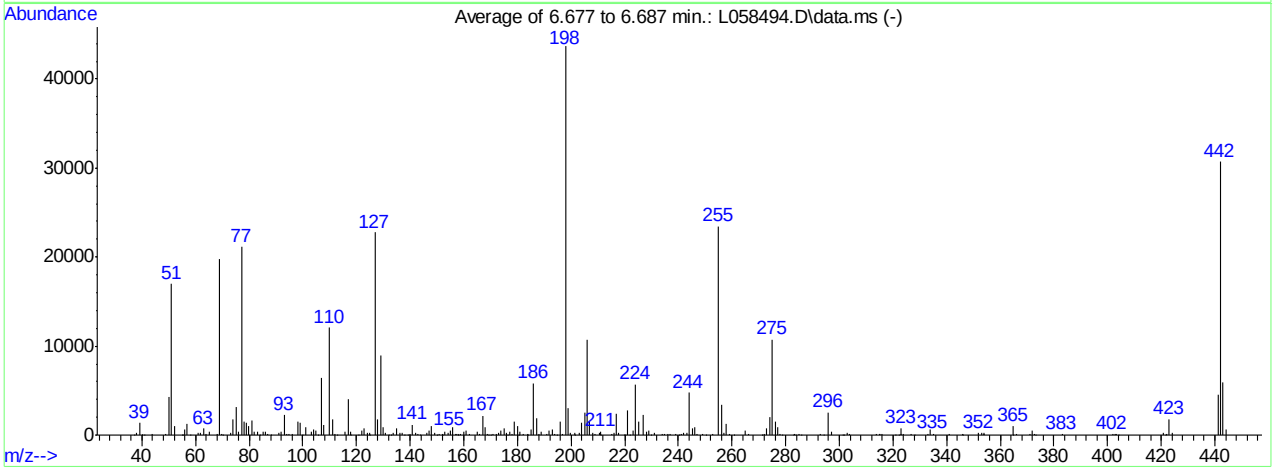
9

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\073112\L058494.D Vial: 1
Acq On : 31 Jul 2012 9:33 am Operator: nancyf
Sample : dftpp Inst : MSBNA02
Misc : op42019,sl2985,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 391, 392, 393; Background Corrected with Scan 387

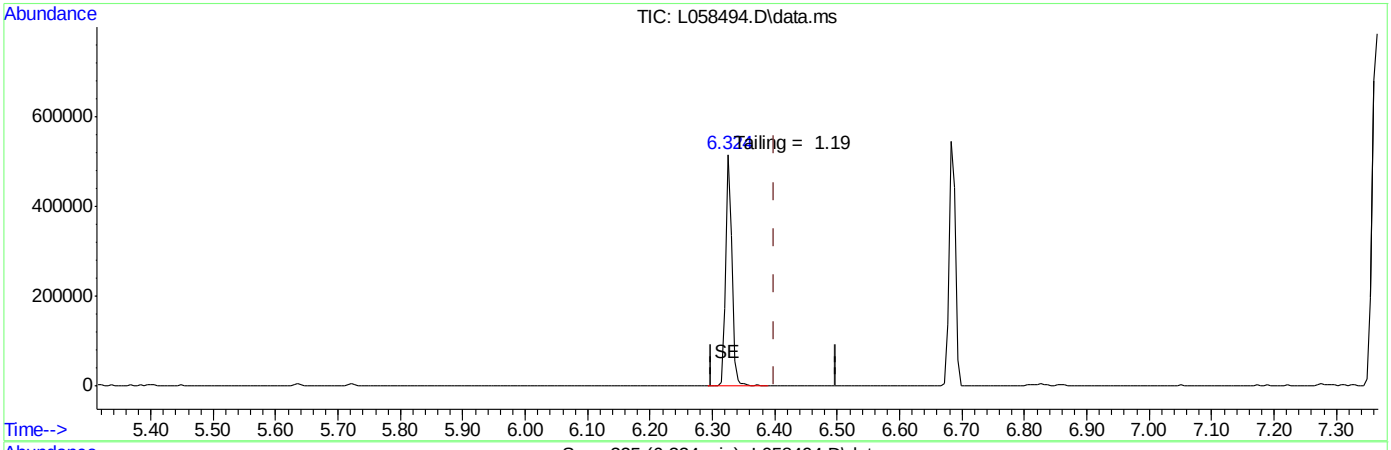
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	16958	PASS
68	69	0.00	2	0.8	149	PASS
69	198	0.00	100	45.2	19712	PASS
70	69	0.00	2	0.5	93	PASS
127	198	40	60	52.2	22780	PASS
197	198	0.00	1	0.2	88	PASS
198	198	100	100	100.0	43656	PASS
199	198	5	9	7.0	3068	PASS
275	198	10	30	24.6	10734	PASS
365	198	1	100	2.4	1064	PASS
441	443	0.01	100	76.8	4593	PASS
442	198	40	100	70.3	30701	PASS
443	442	17	23	19.5	5979	PASS

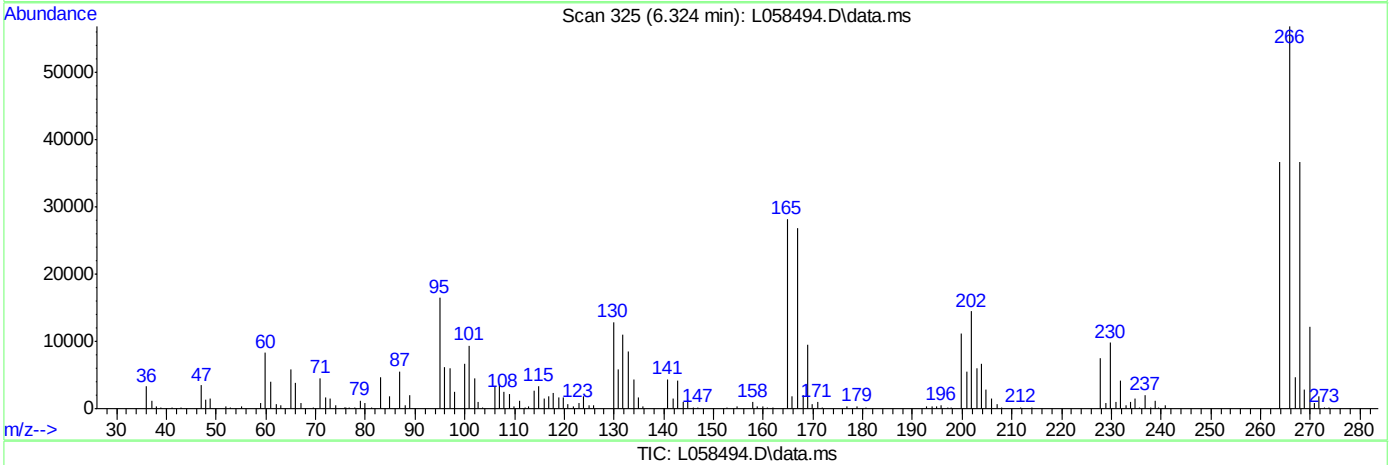
L058494.D dftpp.m Tue Jul 31 11:27:38 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058494.D
Acq On : 31 Jul 2012 9:33 am
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 11:27:42 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 23 09:35:37 2012
Response via : Initial Calibration





TIC: L058494.D\data.ms

(1) Pentachlorophenol

6.324min (-0.075) 14.61

response 349432

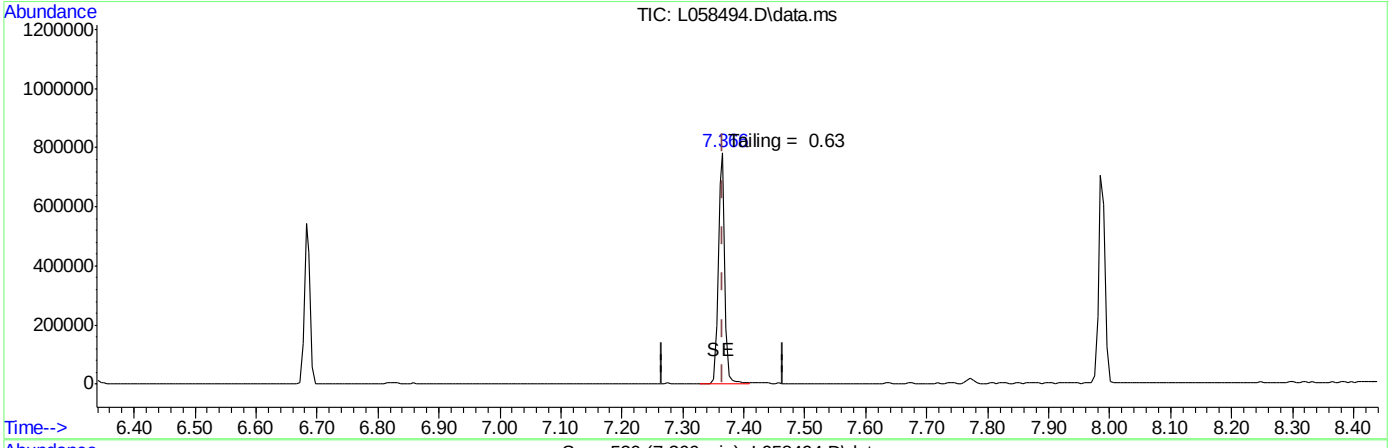
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

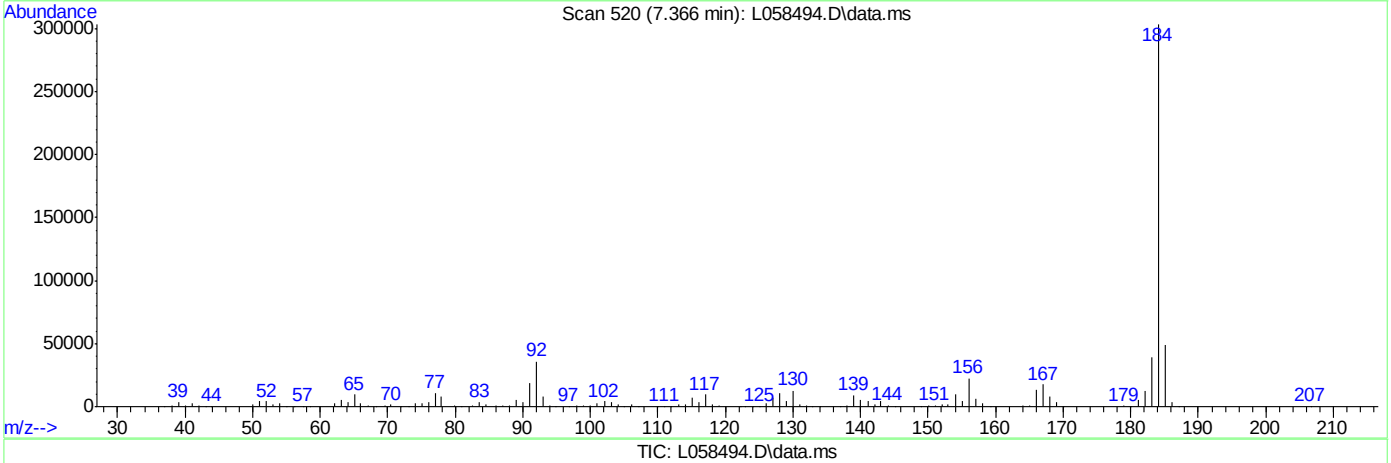
ACCUTEST LABORATORIES F95274

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058494.D
Acq On : 31 Jul 2012 9:33 am
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 11:28:09 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Jul 31 11:28:06 2012
Response via : Initial Calibration





TIC: L058494.D\data.ms

(3) Benzidine

7.366min (0.000) 14.60

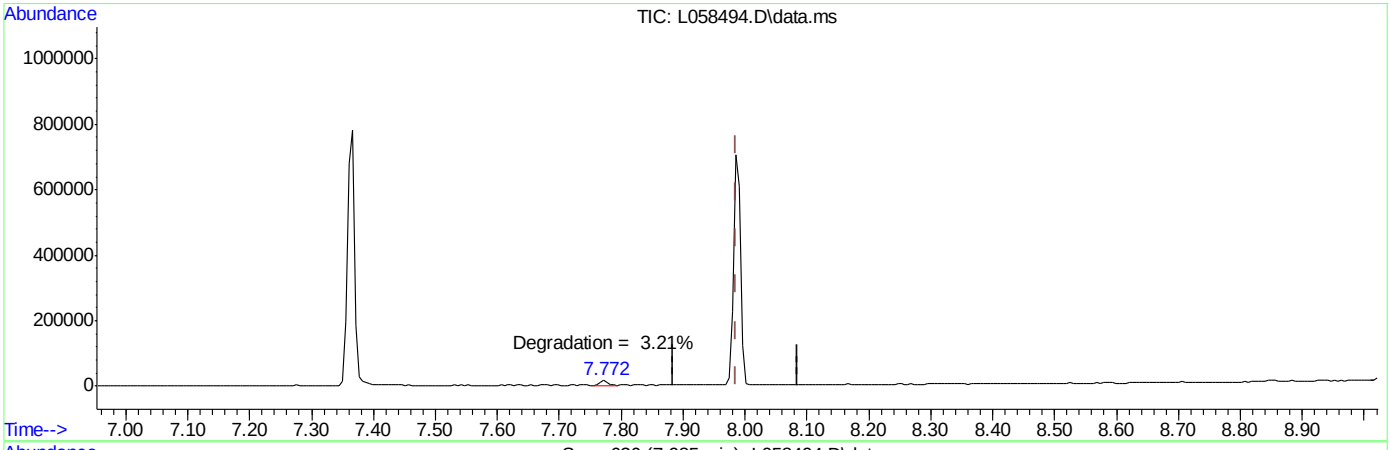
response 619475

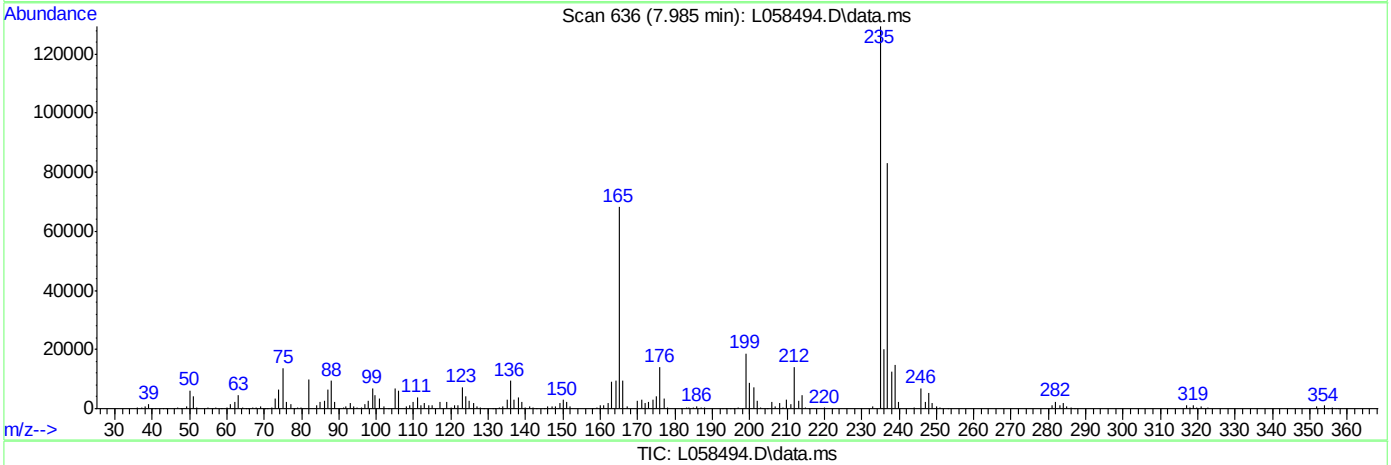
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058494.D
Acq On : 31 Jul 2012 9:33 am
Operator : nancyf
Sample : dftpp
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 11:28:09 2012
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Jul 31 11:28:06 2012
Response via : Initial Calibration





TIC: L058494.D\data.ms

(4) DDT

7.985min (0.000) 15.55

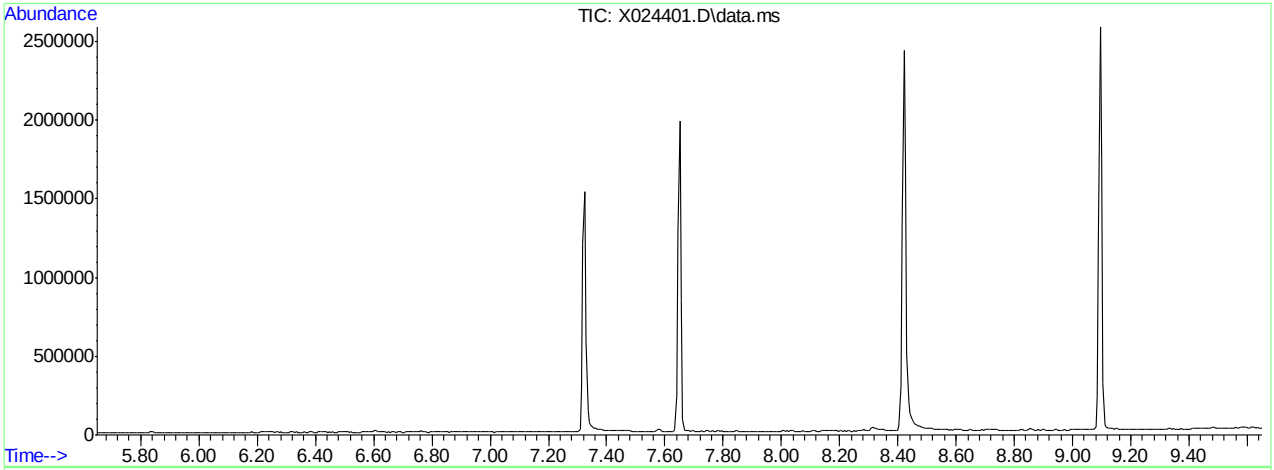
response 542837

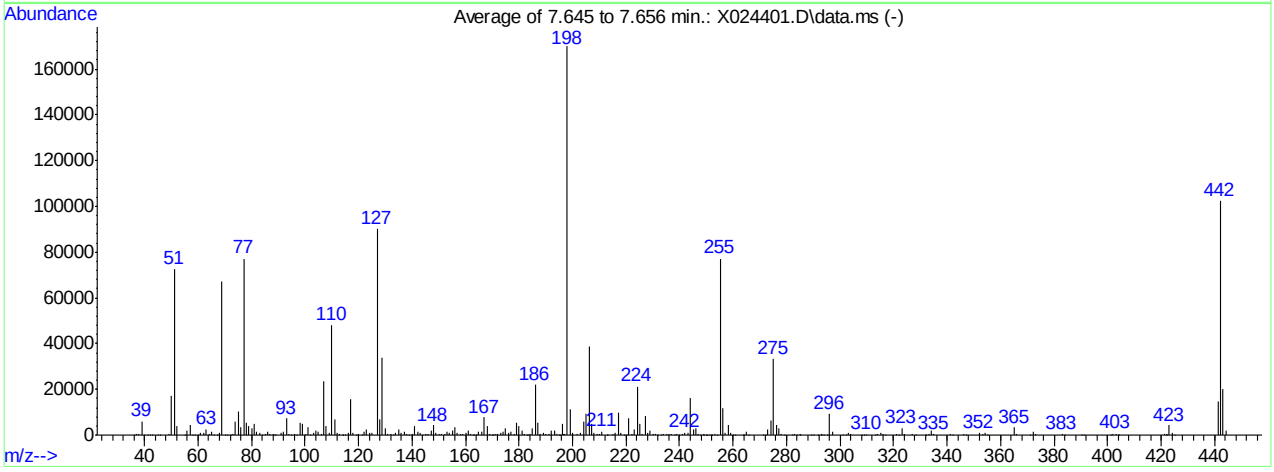
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\072112\X024401.D Vial: 1
Acq On : 21 Jul 2012 10:24 am Operator: fouads
Sample : dftpp Inst : MSBNA05
Misc : op42733,sx1186,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625





AutoFind: Scans 1086, 1087, 1088; Background Corrected with Scan 1081

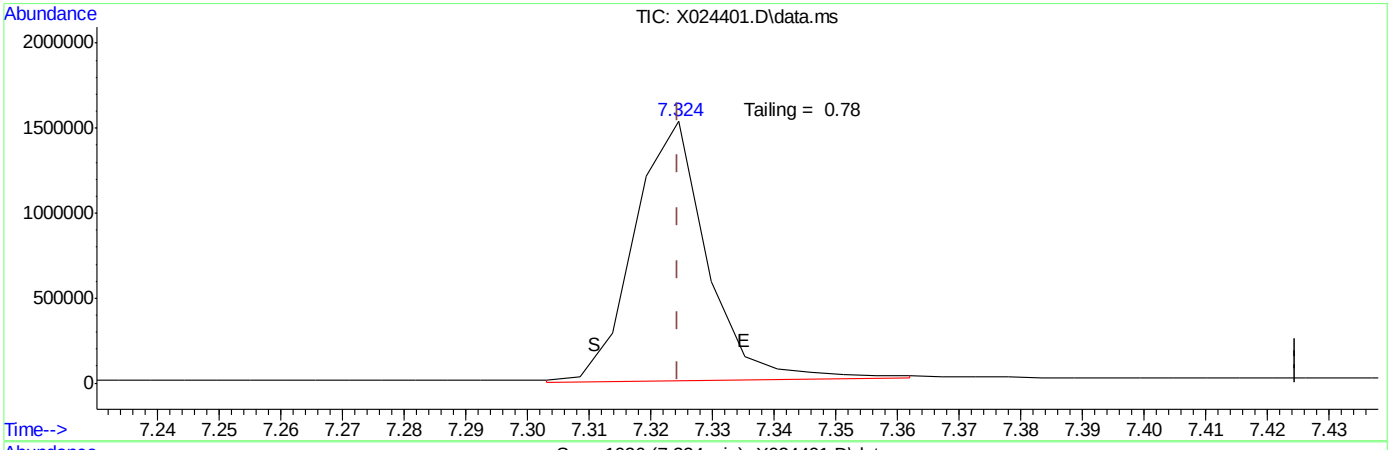
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.7	72616	PASS
68	69	0.00	2	1.6	1099	PASS
69	198	0.00	100	39.7	67393	PASS
70	69	0.00	2	0.3	227	PASS
127	198	40	60	53.0	90050	PASS
197	198	0.00	1	0.3	472	PASS
198	198	100	100	100.0	169922	PASS
199	198	5	9	6.8	11516	PASS
275	198	10	30	19.6	33314	PASS
365	198	1	100	1.9	3298	PASS
441	443	0.01	100	74.4	14958	PASS
442	198	40	100	60.2	102322	PASS
443	442	17	23	19.6	20092	PASS

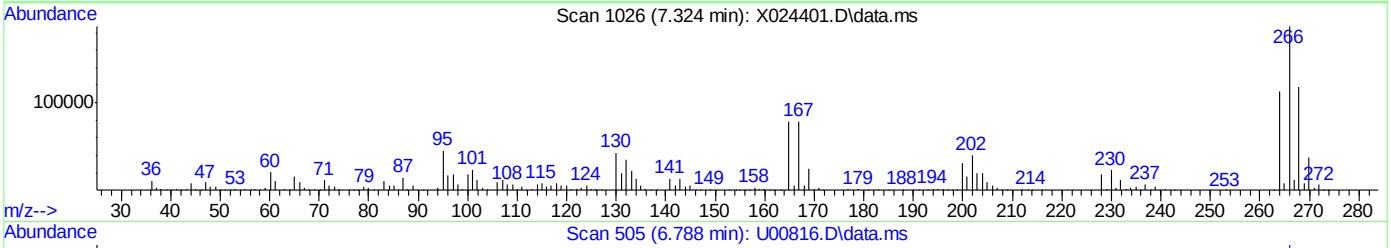
X024401.D 8270d.m Mon Jul 23 08:59:21 2012

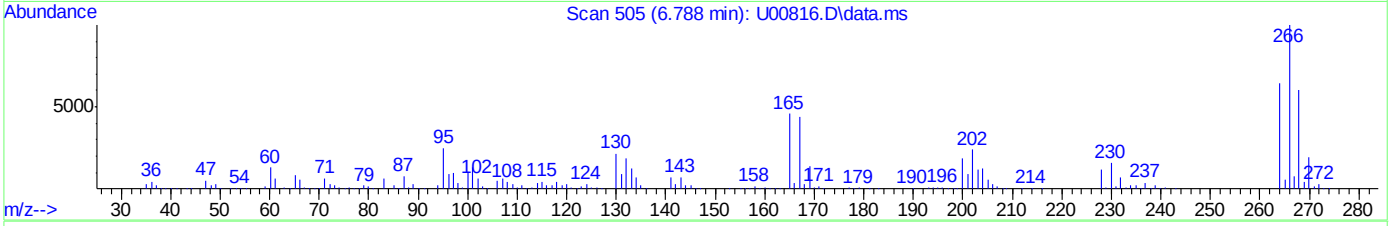
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024401.D
Acq On : 21 Jul 2012 10:24 am
Operator : fouads
Sample : dftpp
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 23 07:50:40 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 23 07:50:30 2012
Response via : Initial Calibration







TIC: X024401.D\data.ms

(1) Pentachlorophenol

7.324min (0.000) 53.81

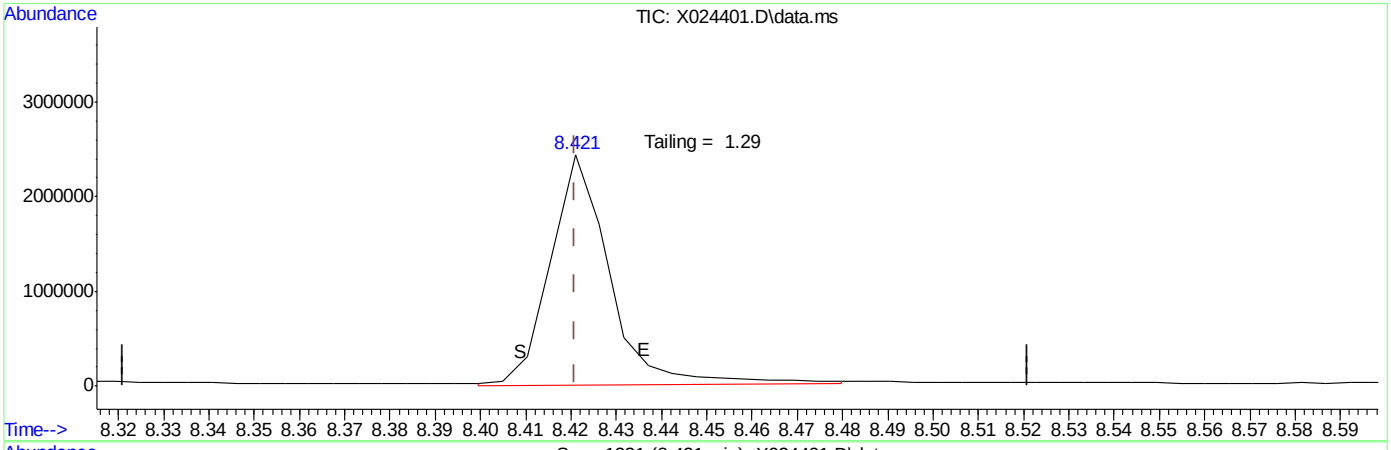
response 1287189

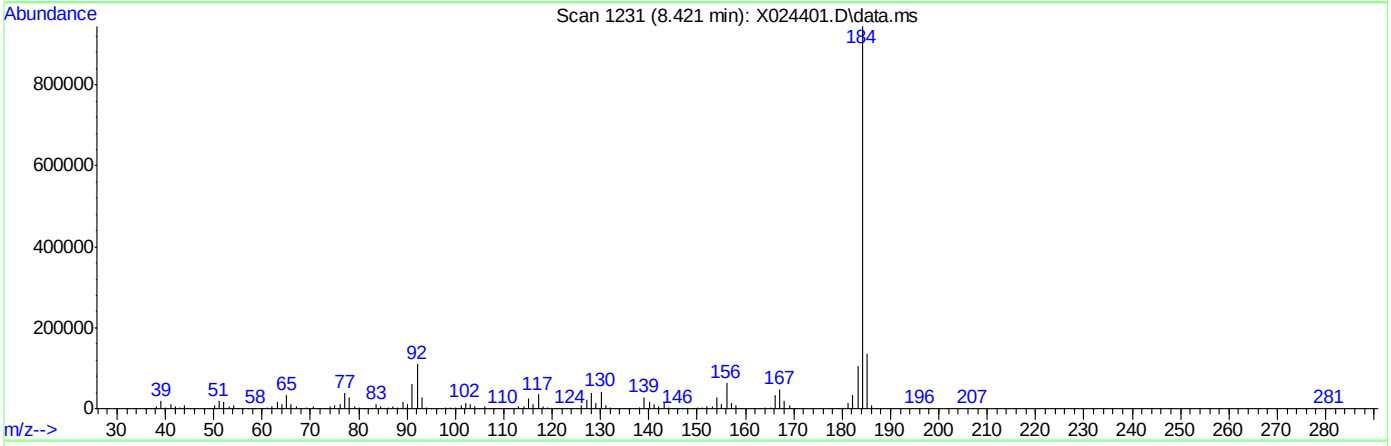
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\072112\
Data File : X024401.D
Acq On    : 21 Jul 2012  10:24 am
Operator  : fouads
Sample    : dftpp
Misc      : op41650,sx1186,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 23 07:50:40 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Mon Jul 23 07:50:30 2012
Response via : Initial Calibration
```





TIC: X024401.D\data.ms

(3) Benzidine

8.421min (0.000) 51.55

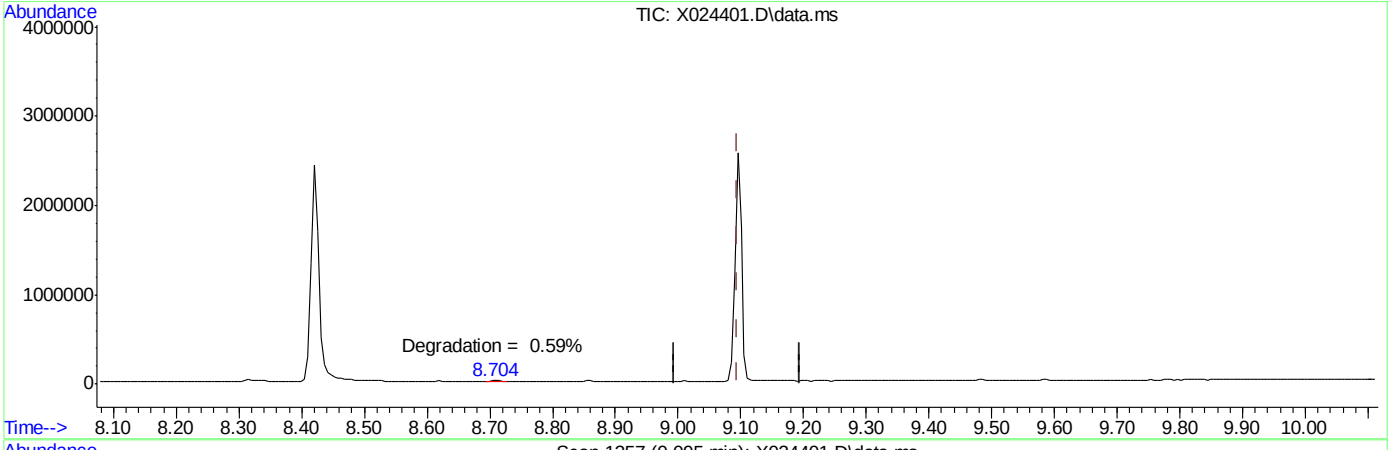
response 2186684

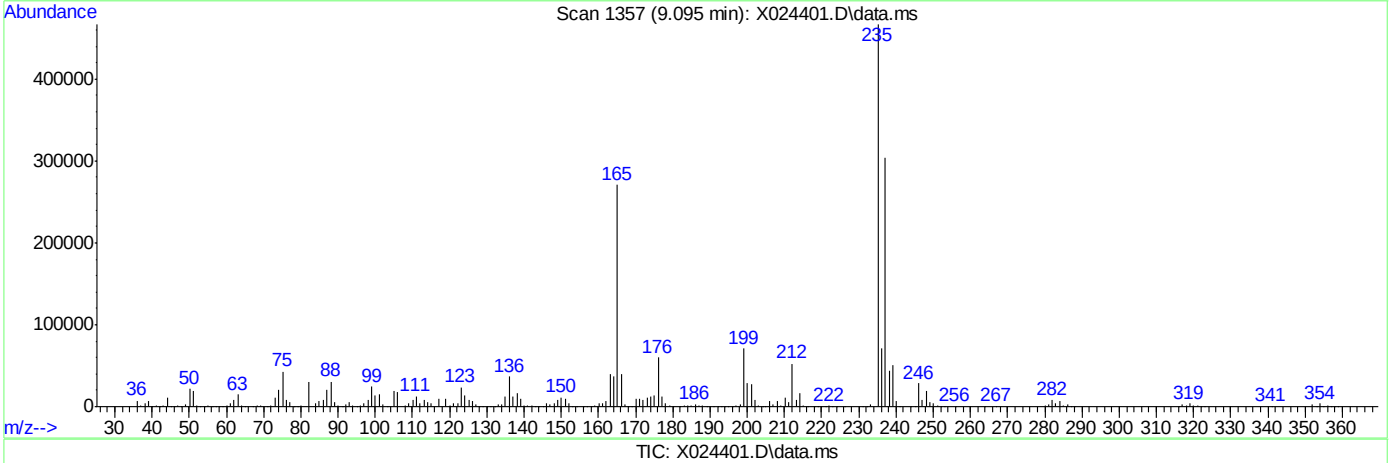
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024401.D
Acq On : 21 Jul 2012 10:24 am
Operator : fouads
Sample : dftpp
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 23 07:50:40 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 23 07:50:30 2012
Response via : Initial Calibration





TIC: X024401.D\data.ms

(4) DDT

8.704min (-0.390) 0.20 m

response 6938

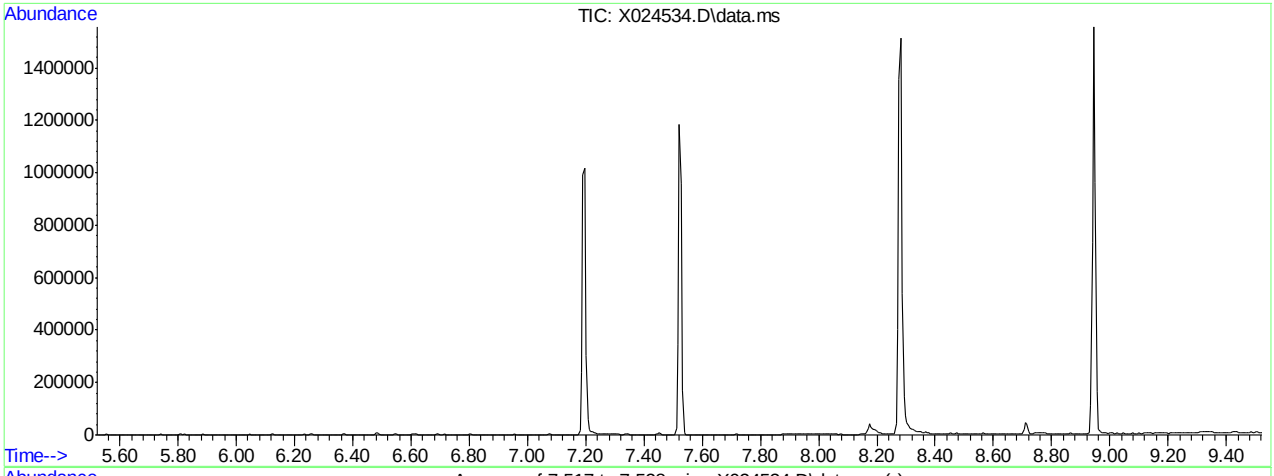
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

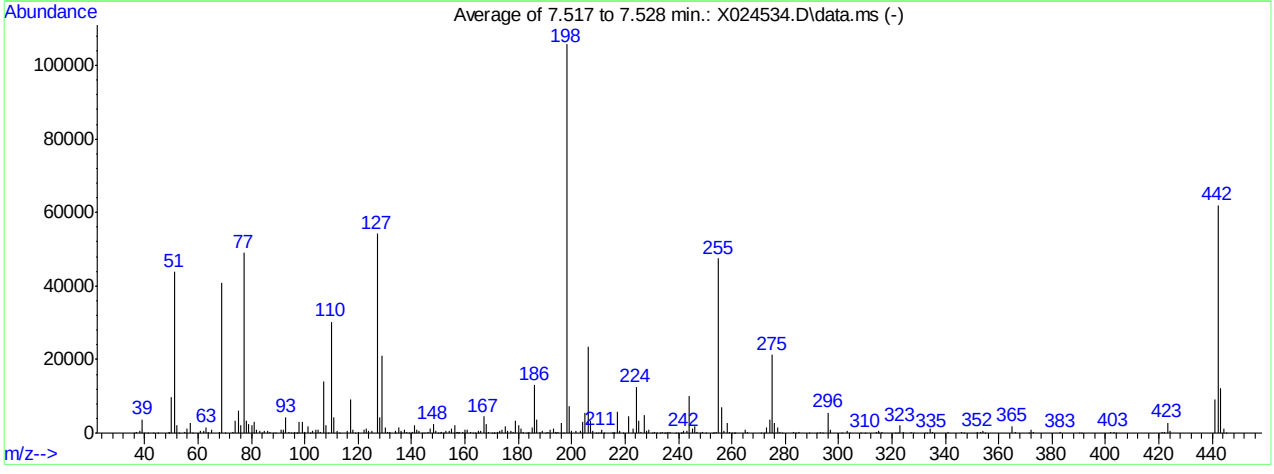
ACCUTEST LABORATORIES F95274

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\072812\X024534.D Vial: 1
Acq On : 28 Jul 2012 8:57 am Operator: fouads
Sample : dftpp Inst : MSBNA05
Misc : op41650,sx1192,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 1062, 1063, 1064; Background Corrected with Scan 1059

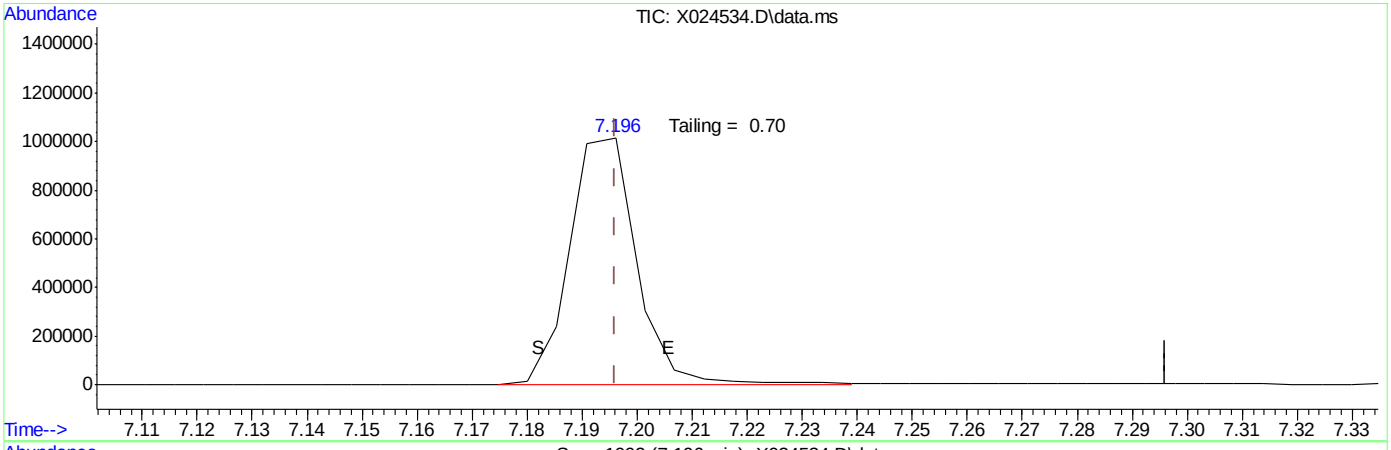
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	43866	PASS
68	69	0.00	2	1.0	404	PASS
69	198	0.00	100	38.6	40854	PASS
70	69	0.00	2	0.3	115	PASS
127	198	40	60	51.3	54261	PASS
197	198	0.00	1	0.1	106	PASS
198	198	100	100	100.0	105706	PASS
199	198	5	9	6.8	7199	PASS
275	198	10	30	20.2	21343	PASS
365	198	1	100	1.8	1888	PASS
441	443	0.01	100	73.9	9041	PASS
442	198	40	100	58.6	61900	PASS
443	442	17	23	19.8	12242	PASS

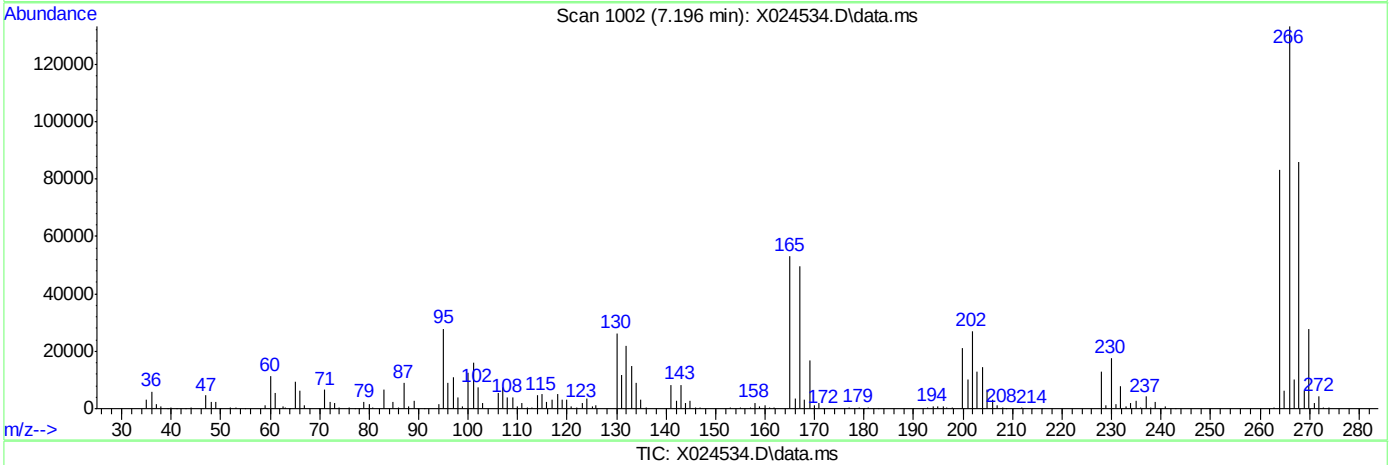
X024534.D dftpp.m Mon Jul 30 07:52:05 2012

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024534.D
Acq On : 28 Jul 2012 8:57 am
Operator : fouads
Sample : dftpp
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 07:51:00 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 30 07:50:53 2012
Response via : Initial Calibration





TIC: X024534.D\data.ms

(1) Pentachlorophenol

7.196min (0.000) 36.37

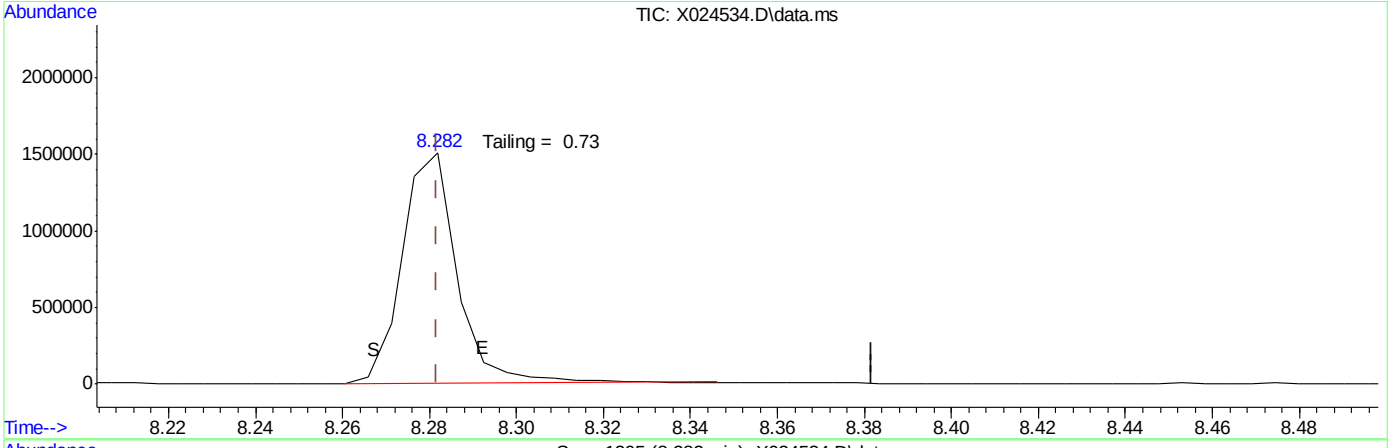
response 870073

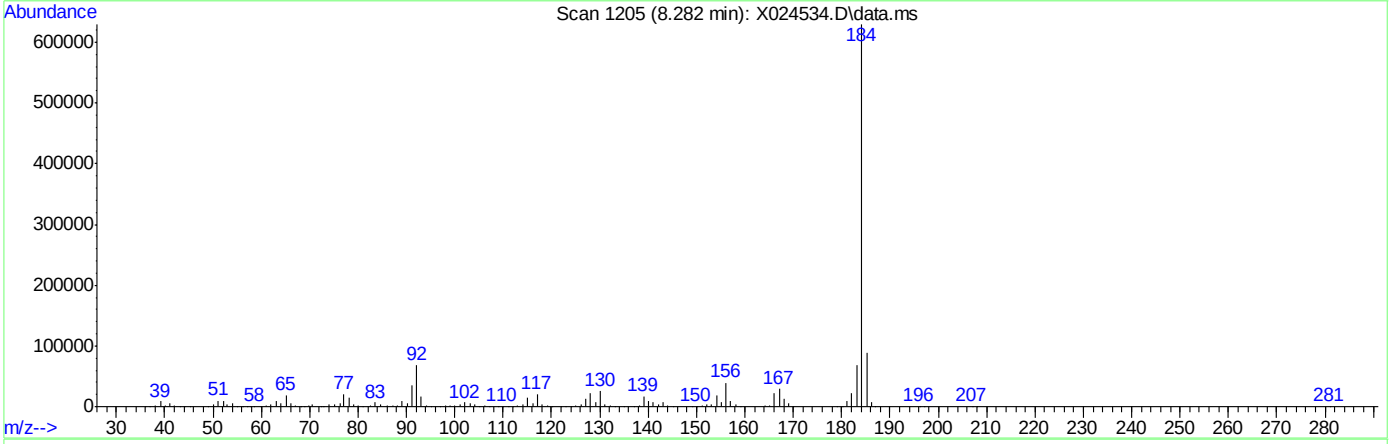
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024534.D
Acq On : 28 Jul 2012 8:57 am
Operator : fouads
Sample : dftpp
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 07:51:00 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 30 07:50:53 2012
Response via : Initial Calibration





TIC: X024534.D\data.ms

(3) Benzidine

8.282min (0.000) 31.88

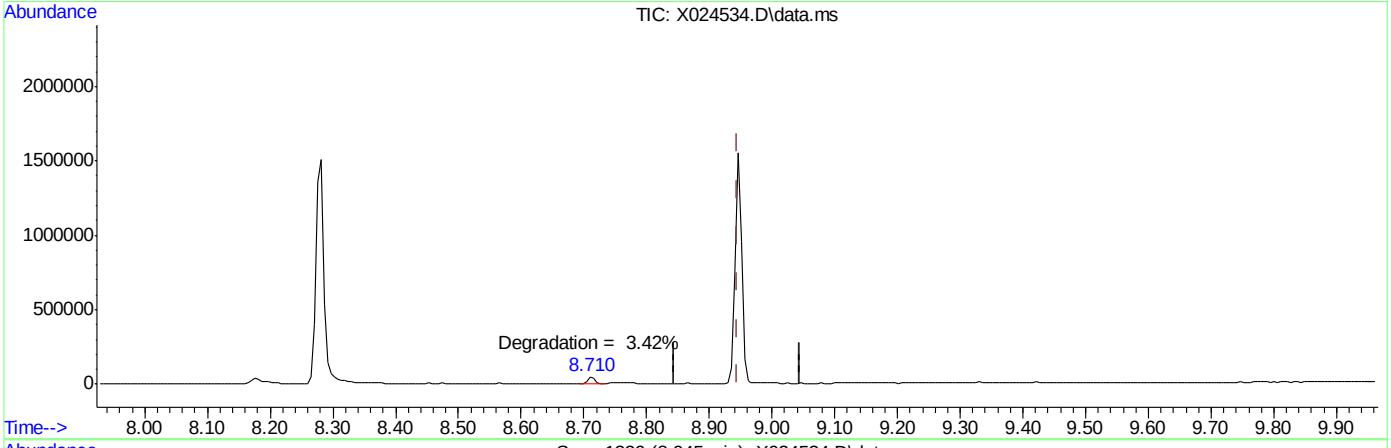
response 1352199

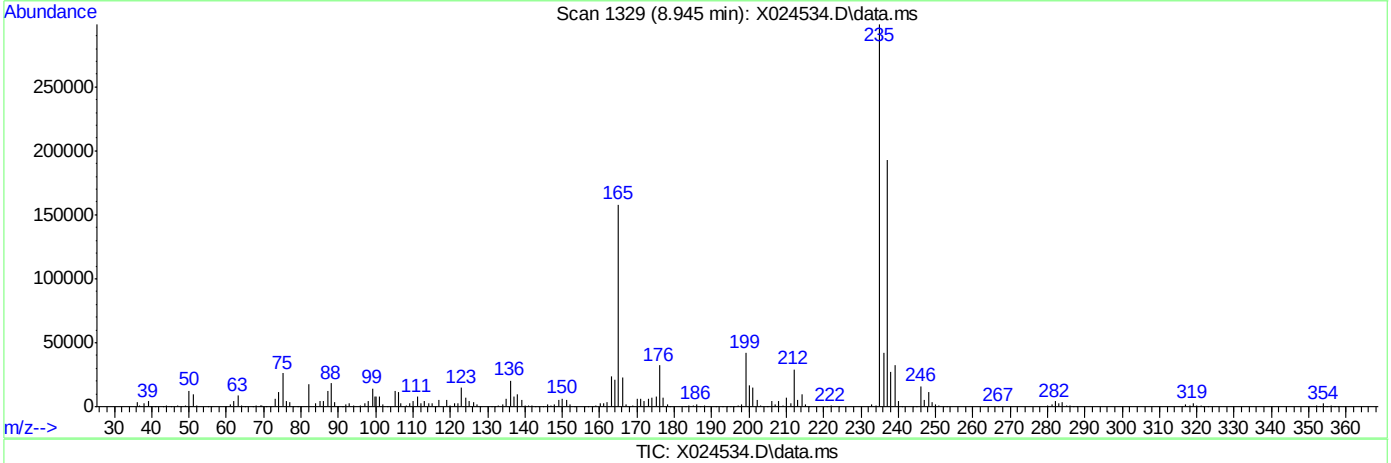
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024534.D
Acq On : 28 Jul 2012 8:57 am
Operator : fouads
Sample : dftpp
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 30 07:51:00 2012
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Jul 30 07:50:53 2012
Response via : Initial Calibration





TIC: X024534.D\data.ms

(4) DDT

8.945min (0.000) 32.49

response 1134321

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	145414	40.00 ppm	0.00
22) Naphthalene-d8	5.384	136	515305	40.00 ppm	0.00
42) Acenaphthene-d10	7.462	164	299713	40.00 ppm	0.00
68) Phenanthrene-d10	9.807	188	464952	40.00 ppm	0.00
83) Chrysene-d12	14.651	240	400255	40.00 ppm	0.00
92) Perylene-d12	17.129	264	353193	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.456	112	62216	12.58 ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 12.58%#		
9) Phenol-d5	4.166	99	76948	14.09 ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 14.09%		
23) Nitrobenzene-d5	4.802	82	33626	5.51 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 11.02%#		
46) 2-Fluorobiphenyl	6.570	172	62903	5.96 ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 11.92%#		
72) 2,4,6-Tribromophenol	8.690	330	14197	11.41 ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 11.41%#		
86) Terphenyl-d14	12.808	244	51307	6.19 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 12.38%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.886	88	14363	6.31 ppm	99
3) N-nitrosodimethylamine	2.265	42	12583	5.57 ppm	96
4) Pyridine	2.254	79	32658	5.48 ppm	95
5) Benzaldehyde	4.054	106	23717	5.12 ppm	95
6) Aniline	4.161	93	53023	6.34 ppm	93
8) bis(2-Chloroethyl)ether	4.209	93	29241	5.66 ppm	99
10) Phenol	4.177	94	44615	6.26 ppm	95
11) 2-Chlorophenol	4.247	128	32653	6.10 ppm	93
12) 1,3-Dichlorobenzene	4.343	146	34522	5.98 ppm	98
13) 1,4-Dichlorobenzene	4.380	146	34497	6.12 ppm	96
14) 1,2-Dichlorobenzene	4.519	146	33144	6.14 ppm	99
15) Benzyl alcohol	4.498	108	22164	5.88 ppm	91
16) bis(2-chloroisopropyl)...	4.610	45	38046	5.82 ppm	90
17) 2-Methylphenol	4.604	108	29895	5.97 ppm	94
18) Acetophenone	4.684	105	45658	6.64 ppm	94
19) Hexachloroethane	4.743	117	13074	5.83 ppm	94
20) N-Nitroso-di-n-propyla...	4.711	70	22277	5.94 ppm	96
21) 3&4-Methylphenol	4.711	108	31602	6.20 ppm	97
24) Nitrobenzene	4.813	77	33852	5.73 ppm	97
25) Isophorone	5.000	82	59633	5.75 ppm	96
26) 2-Nitrophenol	5.074	139	16627	5.29 ppm	97
27) 2,4-Dimethylphenol	5.122	107	32083	5.76 ppm	99
28) bis(2-Chloroethoxy)met...	5.197	93	37470	5.89 ppm	95
29) Benzoic Acid	5.208	105	19943	3.56 ppm	95
30) 2,4-Dichlorophenol	5.277	162	25332	5.46 ppm	97
31) 1,2,4-Trichlorobenzene	5.352	180	28795	5.77 ppm	98
33) Naphthalene	5.400	128	87550	5.81 ppm	96
34) 4-Chloroaniline	5.480	127	37882	5.76 ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.486	162	25398	5.59	ppm		99
36) Hexachlorobutadiene	5.582	225	14907	5.58	ppm		97
37) Caprolactam	5.774	113	9779	5.02	ppm		95
38) 4-Chloro-3-methylphenol	5.993	107	26649	5.42	ppm		96
39) 2-Methylnaphthalene	6.100	142	58741	5.58	ppm		97
40) 1-Methylnaphthalene	6.223	142	55573	6.09	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.346	216	27001	5.67	ppm		97
43) Hexachlorocyclopentadiene	6.372	237	12579	4.41	ppm		99
44) 2,4,6-Trichlorophenol	6.479	196	16797	5.21	ppm		97
45) 2,4,5-Trichlorophenol	6.527	196	18215	5.36	ppm		99
47) 1,1'-Biphenyl	6.677	154	70790	6.06	ppm		96
48) 2-Chloronaphthalene	6.677	162	51403	5.89	ppm		96
49) 2-Nitroaniline	6.869	65	15768	5.18	ppm		92
50) p-Dinitrobenzene	7.029	75	9956	4.75	ppm		96
51) Acenaphthylene	7.232	152	86640	6.23	ppm		94
52) Dimethylphthalate	7.189	163	58172	5.79	ppm		99
53) m-Dinitrobenzene	7.189	168	9921	5.19	ppm	#	54
54) 2,6-Dinitrotoluene	7.270	165	13742	5.47	ppm	#	74
55) o-Dinitrobenzene	7.350	50	6930	4.95	ppm		98
56) Acenaphthene	7.505	153	51128	5.82	ppm		98
57) 3-Nitroaniline	7.451	138	15185	5.09	ppm		88
58) 2,4-Dinitrophenol	7.606	184	4040	2.72	ppm		89
59) Dibenzofuran	7.740	168	72428	6.06	ppm		94
60) 2,4-Dinitrotoluene	7.841	165	17522	5.27	ppm		96
61) 4-Nitrophenol	7.777	109	6702	4.33	ppm		92
62) 2,3,5,6-Tetrachlorophenol	7.953	232	13681	5.05	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.023	232	13509	5.14	ppm		98
64) Fluorene	8.268	166	59521	6.02	ppm		99
65) 4-Chlorophenyl-phenyle...	8.311	204	26549	5.64	ppm		97
66) Diethylphthalate	8.279	149	53930	5.40	ppm		99
67) 4-Nitroaniline	8.397	138	14766	5.27	ppm		94
69) 4,6-Dinitro-2-methylph...	8.477	198	7869	4.17	ppm	#	34
70) n-Nitrosodiphenylamine	8.525	169	49733	7.12	ppm		99
71) 1,2-Diphenylhydrazine	8.557	77	58169	5.91	ppm		94
73) 4-Bromophenyl-phenylether	9.102	248	14987	5.70	ppm		96
74) Hexachlorobenzene	9.305	284	16123	5.97	ppm		92
75) Simazine	9.465	201	8240	5.62	ppm		96
76) Atrazine	9.545	200	15453	5.75	ppm		95
77) Pentachlorophenol	9.646	266	8382	4.38	ppm		98
78) Phenanthrene	9.839	178	73129	5.67	ppm		96
79) Anthracene	9.919	178	74718	6.01	ppm		96
80) Carbazole	10.261	167	73544	5.91	ppm		95
81) Di-n-butylphthalate	11.158	149	80759	5.72	ppm		98
82) Fluoranthene	11.970	202	73280	5.79	ppm		94
84) Benzidine	12.333	184	46059	6.85	ppm		99
85) Pyrene	12.354	202	75564	5.60	ppm		94
87) Butylbenzylphthalate	13.903	149	31779	4.99	ppm		96
88) 3,3'-Dichlorobenzidine	14.710	252	23889	5.69	ppm		94
89) Benzo[a]anthracene	14.614	228	61842	5.40	ppm		97
90) Chrysene	14.688	228	56524	5.61	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.126	149	40331	4.97 ppm	96
93) Di-n-octylphthalate	16.232	149	65104	4.91 ppm	96
94) Benzo[b]fluoranthene	16.515	252	55407	5.18 ppm	99
95) Benzo[k]fluoranthene	16.552	252	58044	5.62 ppm	99
96) Benzo[a]pyrene	17.017	252	53284	5.22 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.683	276	42546	4.98 ppm	99
98) Dibenz[a,h]anthracene	18.737	278	42307	4.89 ppm	98
99) Benzo[g,h,i]perylene	19.015	276	48024	5.26 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

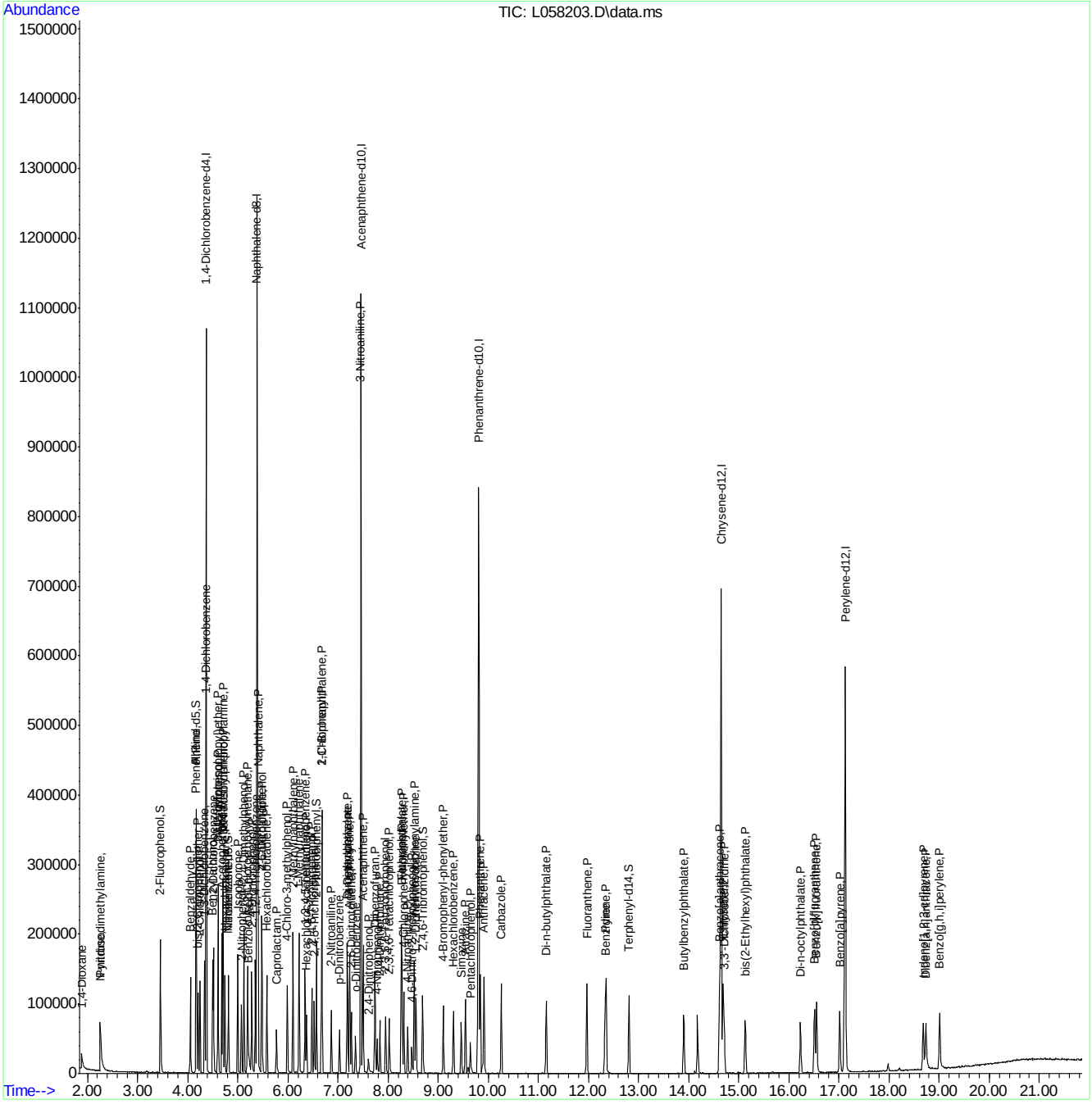
9.8.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058203.D
Acq On : 13 Jul 2012 1:52 pm
Operator : nancyf
Sample : ic2973-5
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 16 08:31:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	112171	40.00	ppm	0.00
22) Naphthalene-d8	5.385	136	419805	40.00	ppm	0.00
42) Acenaphthene-d10	7.463	164	238919	40.00	ppm	0.00
68) Phenanthrene-d10	9.808	188	376744	40.00	ppm	0.00
83) Chrysene-d12	14.647	240	319855	40.00	ppm	-0.01
92) Perylene-d12	17.125	264	272334	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.457	112	90063	23.60	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 23.60%			
9) Phenol-d5	4.168	99	112408	27.16	ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 27.16%			
23) Nitrobenzene-d5	4.798	82	51235	10.30	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 20.60%#			
46) 2-Fluorobiphenyl	6.571	172	91137	10.82	ppm	-0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 21.64%#			
72) 2,4,6-Tribromophenol	8.691	330	21977	21.80	ppm	-0.04
Spiked Amount 100.000	Range 33 - 118		Recovery = 21.80%#			
86) Terphenyl-d14	12.809	244	77145	11.64	ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 23.28%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	1.882	88	21524	12.25	ppm	98
3) N-nitrosodimethylamine	2.250	42	19233	11.04	ppm	98
4) Pyridine	2.245	79	51503	11.20	ppm	98
5) Benzaldehyde	4.050	106	35333	10.17	ppm	96
6) Aniline	4.162	93	76157	12.01	ppm	86
8) bis(2-Chloroethyl)ether	4.210	93	46228	11.59	ppm	97
10) Phenol	4.178	94	66103	12.23	ppm	96
11) 2-Chlorophenol	4.242	128	48514	11.74	ppm	98
12) 1,3-Dichlorobenzene	4.338	146	52331	11.75	ppm	98
13) 1,4-Dichlorobenzene	4.381	146	49952	11.50	ppm	97
14) 1,2-Dichlorobenzene	4.515	146	49317	11.85	ppm	97
15) Benzyl alcohol	4.493	108	32890	11.31	ppm	95
16) bis(2-chloroisopropyl)...	4.611	45	56846	11.45	ppm	92
17) 2-Methylphenol	4.600	108	45221	11.72	ppm	92
18) Acetophenone	4.686	105	64338	12.13	ppm	98
19) Hexachloroethane	4.744	117	19602	11.33	ppm	92
20) N-Nitroso-di-n-propyla...	4.712	70	33874	11.71	ppm	98
21) 3&4-Methylphenol	4.712	108	47880	12.17	ppm	97
24) Nitrobenzene	4.814	77	49834	10.36	ppm	99
25) Isophorone	5.001	82	90496	10.77	ppm	98
26) 2-Nitrophenol	5.075	139	26313	10.28	ppm	89
27) 2,4-Dimethylphenol	5.124	107	48491	10.69	ppm	100
28) bis(2-Chloroethoxy)met...	5.198	93	56139	10.83	ppm	96
29) Benzoic Acid	5.220	105	37698	8.25	ppm	92
30) 2,4-Dichlorophenol	5.278	162	39803	10.53	ppm	97
31) 1,2,4-Trichlorobenzene	5.348	180	41950	10.31	ppm	98
33) Naphthalene	5.401	128	128203	10.60	ppm	96
34) 4-Chloroaniline	5.481	127	57479	10.72	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.487	162	38578	10.42	ppm		98
36) Hexachlorobutadiene	5.583	225	21806	10.03	ppm		98
37) Caprolactam	5.781	113	15493	9.77	ppm		99
38) 4-Chloro-3-methylphenol	5.989	107	41567	10.37	ppm		96
39) 2-Methylnaphthalene	6.101	142	87953	10.38	ppm		97
40) 1-Methylnaphthalene	6.224	142	81011	10.89	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.347	216	40833	10.53	ppm		98
43) Hexachlorocyclopentadiene	6.373	237	19808	8.71	ppm		97
44) 2,4,6-Trichlorophenol	6.480	196	26080	10.14	ppm		98
45) 2,4,5-Trichlorophenol	6.528	196	27770	10.25	ppm		97
47) 1,1'-Biphenyl	6.678	154	101415	11.05	ppm		96
48) 2-Chloronaphthalene	6.678	162	78091	11.22	ppm		97
49) 2-Nitroaniline	6.870	65	24273	9.99	ppm		95
50) p-Dinitrobenzene	7.030	75	15922	9.53	ppm		96
51) Acenaphthylene	7.233	152	128463	11.58	ppm		97
52) Dimethylphthalate	7.191	163	88969	11.10	ppm		98
53) m-Dinitrobenzene	7.191	168	15530	10.20	ppm	#	59
54) 2,6-Dinitrotoluene	7.271	165	20878	10.42	ppm	#	70
55) o-Dinitrobenzene	7.351	50	11314	10.14	ppm		90
56) Acenaphthene	7.506	153	77667	11.09	ppm		99
57) 3-Nitroaniline	7.452	138	23986	10.08	ppm		97
58) 2,4-Dinitrophenol	7.607	184	8967	7.48	ppm		98
59) Dibenzofuran	7.741	168	107002	11.24	ppm		96
60) 2,4-Dinitrotoluene	7.842	165	26368	9.95	ppm		94
61) 4-Nitrophenol	7.778	109	10893	8.83	ppm	#	82
62) 2,3,5,6-Tetrachlorophenol	7.949	232	21361	9.89	ppm		97
63) 2,3,4,6-Tetrachlorophenol	8.024	232	21443	10.23	ppm		93
64) Fluorene	8.269	166	87879	11.16	ppm		98
65) 4-Chlorophenyl-phenyle...	8.318	204	40863	10.88	ppm		96
66) Diethylphthalate	8.280	149	82541	10.37	ppm		99
67) 4-Nitroaniline	8.398	138	22783	10.21	ppm		94
69) 4,6-Dinitro-2-methylph...	8.472	198	14387	9.41	ppm		99
70) n-Nitrosodiphenylamine	8.526	169	74176	13.10	ppm		99
71) 1,2-Diphenylhydrazine	8.563	77	88102	11.04	ppm		98
73) 4-Bromophenyl-phenylether	9.103	248	21975	10.32	ppm		94
74) Hexachlorobenzene	9.306	284	24503	11.20	ppm		96
75) Simazine	9.466	201	12169	10.25	ppm		95
76) Atrazine	9.546	200	22853	10.49	ppm		97
77) Pentachlorophenol	9.642	266	13574	8.76	ppm		98
78) Phenanthrene	9.840	178	110030	10.65	ppm		99
79) Anthracene	9.915	178	114073	11.32	ppm		97
80) Carbazole	10.262	167	112361	11.15	ppm		97
81) Di-n-butylphthalate	11.159	149	127110	11.11	ppm		97
82) Fluoranthene	11.971	202	112409	10.96	ppm		95
84) Benzidine	12.329	184	70789	13.18	ppm		97
85) Pyrene	12.355	202	115677	10.74	ppm		93
87) Butylbenzylphthalate	13.904	149	48659	9.57	ppm		97
88) 3,3'-Dichlorobenzidine	14.711	252	36028	10.73	ppm		98
89) Benzo[a]anthracene	14.615	228	94278	10.30	ppm		97
90) Chrysene	14.684	228	85974	10.68	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.127	149	62868	9.69 ppm	97
93) Di-n-octylphthalate	16.233	149	99456	9.72 ppm	99
94) Benzo[b]fluoranthene	16.516	252	82576	10.00 ppm	94
95) Benzo[k]fluoranthene	16.553	252	89615	11.25 ppm	97
96) Benzo[a]pyrene	17.018	252	82184	10.44 ppm	97
97) Indeno[1,2,3-cd]pyrene	18.685	276	65025	9.87 ppm	97
98) Dibenz[a,h]anthracene	18.738	278	65559	9.83 ppm	95
99) Benzo[g,h,i]perylene	19.016	276	73419	10.42 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

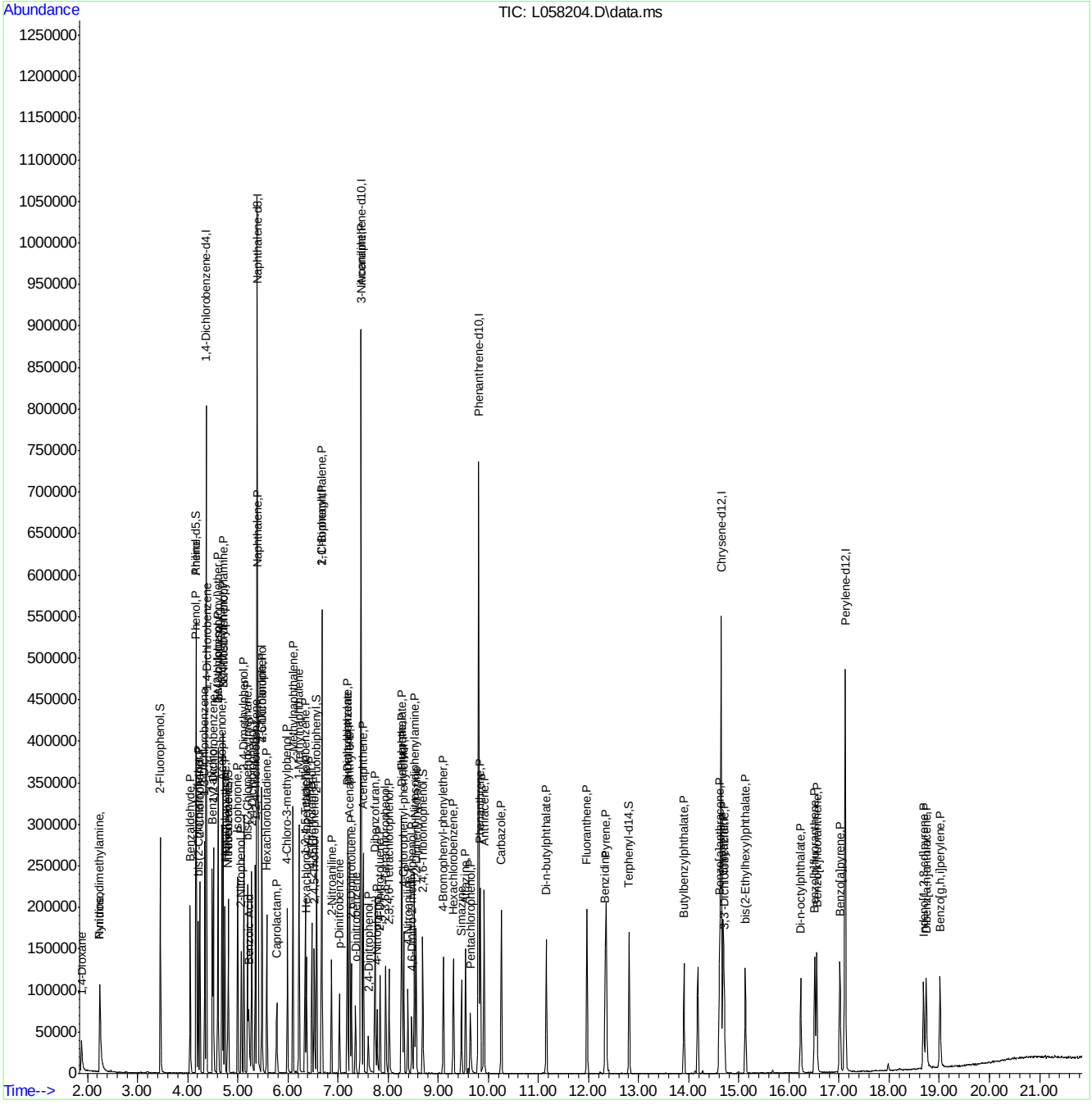
9.8.2

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058204.D
Acq On : 13 Jul 2012 2:21 pm
Operator : nancyf
Sample : ic2973-10
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 16 08:32:39 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	97368	40.00 ppm	0.00
22) Naphthalene-d8	5.384	136	390897	40.00 ppm	0.00
42) Acenaphthene-d10	7.462	164	207288	40.00 ppm	0.00
68) Phenanthrene-d10	9.806	188	322756	40.00 ppm	0.00
83) Chrysene-d12	14.651	240	273054	40.00 ppm	0.00
92) Perylene-d12	17.124	264	232294	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	3.450	112	190491	57.51 ppm	-0.02
Spiked Amount 100.000	Range 14 - 62		Recovery = 57.51%		
9) Phenol-d5	4.171	99	222835	65.38 ppm	-0.02
Spiked Amount 100.000	Range 10 - 40		Recovery = 65.38%#		
23) Nitrobenzene-d5	4.802	82	107132	23.13 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 46.26%		
46) 2-Fluorobiphenyl	6.575	172	188602	25.82 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 51.64%		
72) 2,4,6-Tribromophenol	8.695	330	45773	53.01 ppm	-0.03
Spiked Amount 100.000	Range 33 - 118		Recovery = 53.01%		
86) Terphenyl-d14	12.813	244	156928	27.73 ppm	-0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 55.46%		

Target Compounds					Qvalue
2) 1,4-Dioxane	1.880	88	45664	29.94 ppm	98
3) N-nitrosodimethylamine	2.249	42	41422	27.39 ppm	97
4) Pyridine	2.238	79	111883	28.03 ppm	96
5) Benzaldehyde	4.049	106	72153	26.35 ppm	96
6) Aniline	4.161	93	153488	29.43 ppm	80
8) bis(2-Chloroethyl)ether	4.209	93	93798	27.09 ppm	98
10) Phenol	4.177	94	132238	29.68 ppm	99
11) 2-Chlorophenol	4.241	128	98154	27.36 ppm	99
12) 1,3-Dichlorobenzene	4.342	146	106799	27.62 ppm	98
13) 1,4-Dichlorobenzene	4.380	146	106136	28.14 ppm	98
14) 1,2-Dichlorobenzene	4.519	146	103428	28.62 ppm	99
15) Benzyl alcohol	4.497	108	71043	28.15 ppm	94
16) bis(2-chloroisopropyl)...	4.609	45	114374	27.80 ppm	88
17) 2-Methylphenol	4.604	108	93016	27.76 ppm	96
18) Acetophenone	4.684	105	130932	28.43 ppm	96
19) Hexachloroethane	4.743	117	41934	27.92 ppm	96
20) N-Nitroso-di-n-propyla...	4.711	70	68125	27.14 ppm	97
21) 3&4-Methylphenol	4.711	108	96084	28.14 ppm	98
24) Nitrobenzene	4.812	77	104705	23.38 ppm	95
25) Isophorone	4.999	82	182243	23.56 ppm	95
26) 2-Nitrophenol	5.074	139	56717	23.80 ppm	91
27) 2,4-Dimethylphenol	5.122	107	99220	23.48 ppm	99
28) bis(2-Chloroethoxy)met...	5.197	93	114615	23.75 ppm	96
29) Benzoic Acid	5.240	105	89983	21.16 ppm	96
30) 2,4-Dichlorophenol	5.282	162	81666	23.19 ppm	99
31) 1,2,4-Trichlorobenzene	5.352	180	88785	23.43 ppm	98
33) Naphthalene	5.400	128	253979	23.41 ppm	99
34) 4-Chloroaniline	5.480	127	120467	24.14 ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.491	162	80423	23.33	ppm		98
36) Hexachlorobutadiene	5.582	225	45613	22.52	ppm		98
37) Caprolactam	5.801	113	31665	21.44	ppm		90
38) 4-Chloro-3-methylphenol	5.993	107	86217	23.10	ppm		96
39) 2-Methylnaphthalene	6.105	142	179323	23.55	ppm		98
40) 1-Methylnaphthalene	6.222	142	169568	24.48	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.345	216	84913	23.52	ppm		98
43) Hexachlorocyclopentadiene	6.372	237	46196	23.40	ppm		99
44) 2,4,6-Trichlorophenol	6.479	196	55540	24.90	ppm		100
45) 2,4,5-Trichlorophenol	6.527	196	57548	24.47	ppm		99
47) 1,1'-Biphenyl	6.682	154	197397	25.87	ppm		99
48) 2-Chloronaphthalene	6.676	162	158450	26.25	ppm		97
49) 2-Nitroaniline	6.874	65	51748	24.56	ppm		95
50) p-Dinitrobenzene	7.029	75	35515	24.50	ppm		92
51) Acenaphthylene	7.237	152	256268	26.62	ppm		98
52) Dimethylphthalate	7.195	163	179466	25.82	ppm		99
53) m-Dinitrobenzene	7.189	168	32581	24.66	ppm	#	74
54) 2,6-Dinitrotoluene	7.275	165	44002	25.32	ppm	#	63
55) o-Dinitrobenzene	7.355	50	23365	24.14	ppm		91
56) Acenaphthene	7.504	153	160533	26.41	ppm		97
57) 3-Nitroaniline	7.456	138	50850	24.63	ppm		94
58) 2,4-Dinitrophenol	7.606	184	25128	23.33	ppm		97
59) Dibenzofuran	7.745	168	222076	26.88	ppm		97
60) 2,4-Dinitrotoluene	7.846	165	57297	24.92	ppm		93
61) 4-Nitrophenol	7.782	109	23228	21.70	ppm		86
62) 2,3,5,6-Tetrachlorophenol	7.953	232	45857	24.48	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.022	232	43536	23.94	ppm		96
64) Fluorene	8.268	166	181187	26.52	ppm		99
65) 4-Chlorophenyl-phenyle...	8.316	204	83482	25.62	ppm		99
66) Diethylphthalate	8.284	149	167498	24.24	ppm		100
67) 4-Nitroaniline	8.407	138	48279	24.93	ppm		95
69) 4,6-Dinitro-2-methylph...	8.482	198	33526	25.58	ppm	#	47
70) n-Nitrosodiphenylamine	8.530	169	151825	31.30	ppm		99
71) 1,2-Diphenylhydrazine	8.567	77	179820	26.31	ppm		99
73) 4-Bromophenyl-phenylether	9.107	248	47571	26.07	ppm		93
74) Hexachlorobenzene	9.310	284	49741	26.53	ppm		93
75) Simazine	9.480	201	25463	25.03	ppm		96
76) Atrazine	9.555	200	46003	24.65	ppm		96
77) Pentachlorophenol	9.646	266	31000	23.36	ppm		94
78) Phenanthrene	9.844	178	221965	26.08	ppm		99
79) Anthracene	9.918	178	229322	26.57	ppm		97
80) Carbazole	10.266	167	227051	26.29	ppm		97
81) Di-n-butylphthalate	11.158	149	256995	26.22	ppm		99
82) Fluoranthene	11.975	202	231587	26.36	ppm		94
84) Benzidine	12.333	184	146788	32.01	ppm		99
85) Pyrene	12.359	202	227195	24.70	ppm		96
87) Butylbenzylphthalate	13.908	149	104389	24.05	ppm		99
88) 3,3'-Dichlorobenzidine	14.709	252	76740	26.78	ppm		99
89) Benzo[a]anthracene	14.619	228	195138	24.98	ppm		99
90) Chrysene	14.693	228	174118	25.34	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.131	149	132160	23.87 ppm	97
93) Di-n-octylphthalate	16.237	149	219016	25.10 ppm	99
94) Benzo[b]fluoranthene	16.520	252	181585	25.79 ppm	95
95) Benzo[k]fluoranthene	16.563	252	172103	25.32 ppm	97
96) Benzo[a]pyrene	17.022	252	171397	25.52 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.689	276	135893	24.19 ppm	97
98) Dibenz[a,h]anthracene	18.742	278	136469	23.99 ppm	94
99) Benzo[g,h,i]perylene	19.025	276	140974	23.46 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

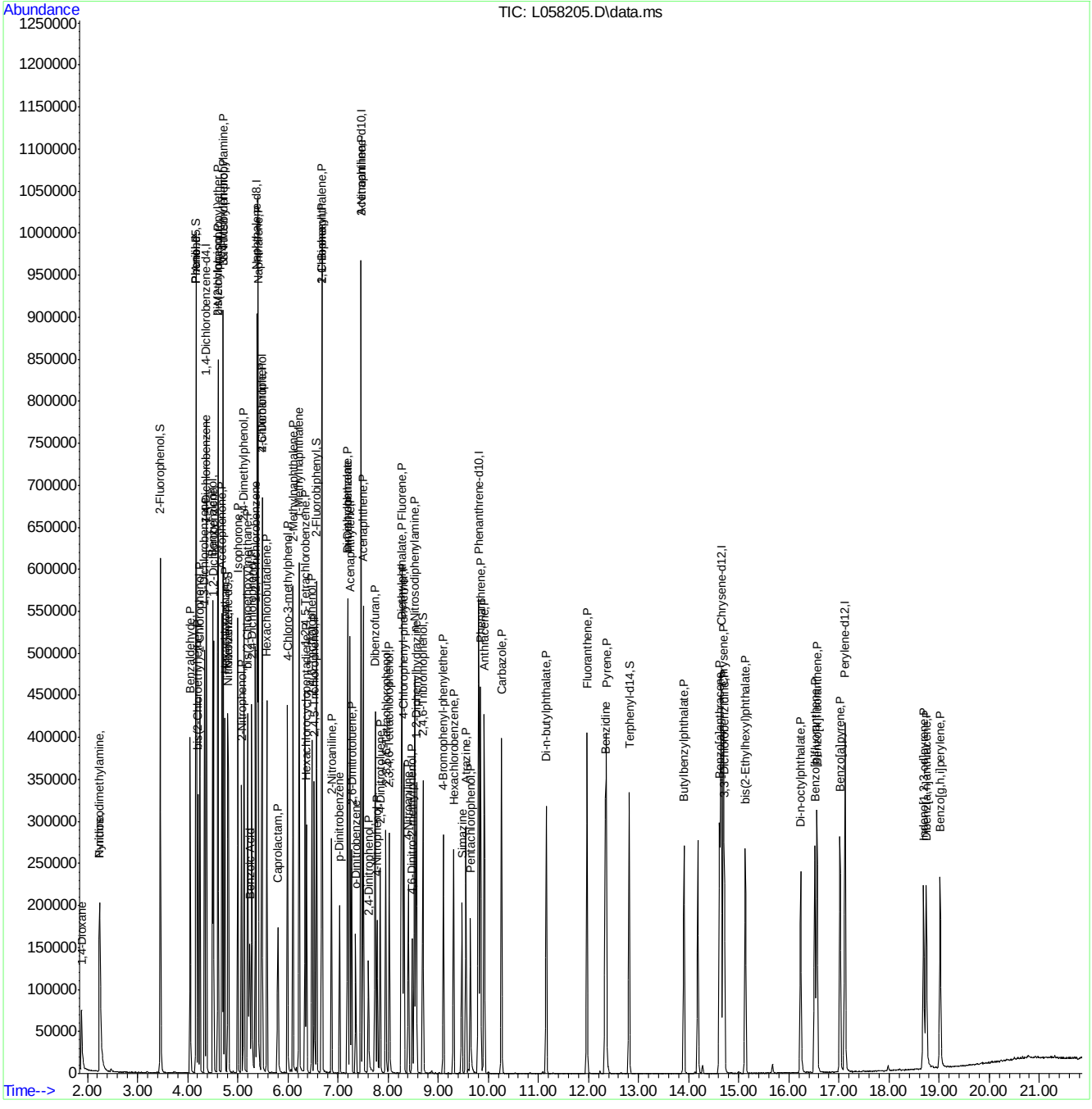
9.8.3

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058205.D
Acq On : 13 Jul 2012 2:49 pm
Operator : nancyf
Sample : ic2973-25
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 16 08:33:51 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	111899	40.00	ppm	0.00
22) Naphthalene-d8	5.385	136	420277	40.00	ppm	0.00
42) Acenaphthene-d10	7.468	164	234288	40.00	ppm	0.00
68) Phenanthrene-d10	9.813	188	366100	40.00	ppm	0.00
83) Chrysene-d12	14.657	240	302086	40.00	ppm	0.00
92) Perylene-d12	17.130	264	249611	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.452	112	386841	101.62	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 101.62%#			
9) Phenol-d5	4.178	99	429365	118.55	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 118.55%#			
23) Nitrobenzene-d5	4.803	82	221821	44.54	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 89.08%			
46) 2-Fluorobiphenyl	6.582	172	381815	46.25	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 92.50%			
72) 2,4,6-Tribromophenol	8.707	330	99986	102.08	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 102.08%			
86) Terphenyl-d14	12.820	244	332363	53.09	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 106.18%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.871	88	102234	58.33	ppm	95
3) N-nitrosodimethylamine	2.245	42	89468	51.48	ppm	99
4) Pyridine	2.229	79	240307	52.38	ppm	99
5) Benzaldehyde	4.050	106	145931	57.56	ppm	96
6) Aniline	4.162	93	316429	58.06	ppm	83
8) bis(2-Chloroethyl)ether	4.216	93	196939	49.50	ppm	90
10) Phenol	4.184	94	265633	56.44	ppm	97
11) 2-Chlorophenol	4.248	128	205482	49.85	ppm	95
12) 1,3-Dichlorobenzene	4.344	146	222625	50.10	ppm	98
13) 1,4-Dichlorobenzene	4.381	146	216334	49.91	ppm	97
14) 1,2-Dichlorobenzene	4.520	146	206658	49.77	ppm	98
15) Benzyl alcohol	4.499	108	150049	51.74	ppm	98
16) bis(2-chloroisopropyl)...	4.611	45	226481	51.41	ppm	81
17) 2-Methylphenol	4.605	108	191515	49.74	ppm	97
18) Acetophenone	4.691	105	271679	51.33	ppm	97
19) Hexachloroethane	4.744	117	88561	51.31	ppm	95
20) N-Nitroso-di-n-propyla...	4.718	70	139593	48.39	ppm	94
21) 3&4-Methylphenol	4.718	108	196897	50.17	ppm	97
24) Nitrobenzene	4.819	77	217689	45.21	ppm	99
25) Isophorone	5.006	82	380299	46.71	ppm	99
26) 2-Nitrophenol	5.075	139	121389	47.38	ppm	98
27) 2,4-Dimethylphenol	5.129	107	209425	46.10	ppm	99
28) bis(2-Chloroethoxy)met...	5.204	93	233811	45.07	ppm	98
29) Benzoic Acid	5.278	105	184717	40.40	ppm	94
30) 2,4-Dichlorophenol	5.284	162	171685	45.35	ppm	100
31) 1,2,4-Trichlorobenzene	5.353	180	184823	45.37	ppm	96
33) Naphthalene	5.407	128	492718	45.20	ppm	99
34) 4-Chloroaniline	5.487	127	247897	46.19	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.492	162	168682	45.52	ppm		97
36) Hexachlorobutadiene	5.583	225	98359	45.17	ppm		97
37) Caprolactam	5.839	113	72229	45.48	ppm		94
38) 4-Chloro-3-methylphenol	6.000	107	185262	46.17	ppm	#	30
39) 2-Methylnaphthalene	6.106	142	361395	47.18	ppm		100
40) 1-Methylnaphthalene	6.229	142	340785	45.76	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.347	216	176877	45.57	ppm		99
43) Hexachlorocyclopentadiene	6.379	237	108295	48.54	ppm		99
44) 2,4,6-Trichlorophenol	6.486	196	119121	47.25	ppm		98
45) 2,4,5-Trichlorophenol	6.534	196	124322	46.78	ppm		99
47) 1,1'-Biphenyl	6.683	154	390151	48.44	ppm		98
48) 2-Chloronaphthalene	6.683	162	322946	47.34	ppm		94
49) 2-Nitroaniline	6.881	65	113828	47.79	ppm		92
50) p-Dinitrobenzene	7.041	75	81002	49.44	ppm		96
51) Acenaphthylene	7.244	152	519346	47.74	ppm		98
52) Dimethylphthalate	7.207	163	362374	46.12	ppm		99
53) m-Dinitrobenzene	7.201	168	72012	48.22	ppm	#	77
54) 2,6-Dinitrotoluene	7.281	165	94983	48.36	ppm	#	68
55) o-Dinitrobenzene	7.372	50	51871	47.42	ppm		96
56) Acenaphthene	7.516	153	327257	47.64	ppm		100
57) 3-Nitroaniline	7.474	138	109078	46.74	ppm		98
58) 2,4-Dinitrophenol	7.618	184	63851	49.60	ppm		96
59) Dibenzofuran	7.751	168	453583	48.57	ppm		99
60) 2,4-Dinitrotoluene	7.858	165	124478	47.91	ppm		95
61) 4-Nitrophenol	7.794	109	51763	42.79	ppm		95
62) 2,3,5,6-Tetrachlorophenol	7.960	232	102514	48.41	ppm		96
63) 2,3,4,6-Tetrachlorophenol	8.029	232	97304	47.33	ppm		97
64) Fluorene	8.275	166	372990	48.30	ppm		100
65) 4-Chlorophenyl-phenyle...	8.323	204	172670	46.88	ppm		98
66) Diethylphthalate	8.296	149	349082	44.70	ppm		99
67) 4-Nitroaniline	8.430	138	109266	49.92	ppm		92
69) 4,6-Dinitro-2-methylph...	8.499	198	78626	52.90	ppm		66
70) n-Nitrosodiphenylamine	8.542	169	312442	56.79	ppm		99
71) 1,2-Diphenylhydrazine	8.574	77	406967	52.49	ppm		99
73) 4-Bromophenyl-phenylether	9.113	248	101703	49.14	ppm		94
74) Hexachlorobenzene	9.316	284	107789	50.69	ppm		93
75) Simazine	9.503	201	56477	48.94	ppm		97
76) Atrazine	9.578	200	97448	46.03	ppm		98
77) Pentachlorophenol	9.653	266	76324	50.70	ppm		98
78) Phenanthrene	9.856	178	453806	50.11	ppm		99
79) Anthracene	9.931	178	472615	48.27	ppm		98
80) Carbazole	10.272	167	471209	48.10	ppm		100
81) Di-n-butylphthalate	11.164	149	531682	47.82	ppm		99
82) Fluoranthene	11.982	202	472548	47.41	ppm		99
84) Benzidine	12.345	184	295309	58.22	ppm		98
85) Pyrene	12.366	202	460492	45.25	ppm		100
87) Butylbenzylphthalate	13.915	149	225786	47.02	ppm		96
88) 3,3'-Dichlorobenzidine	14.721	252	159926	50.44	ppm		98
89) Benzo[a]anthracene	14.625	228	407219	47.11	ppm		100
90) Chrysene	14.705	228	355066	46.71	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.133	149	290701	47.46 ppm	100
93) Di-n-octylphthalate	16.244	149	463631	49.45 ppm	99
94) Benzo[b]fluoranthene	16.532	252	355938	47.05 ppm	94
95) Benzo[k]fluoranthene	16.575	252	353683m	48.43 ppm	
96) Benzo[a]pyrene	17.034	252	345393	47.87 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.701	276	279590	46.32 ppm	97
98) Dibenz[a,h]anthracene	18.754	278	277015	45.33 ppm	94
99) Benzo[g,h,i]perylene	19.037	276	295115	45.71 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

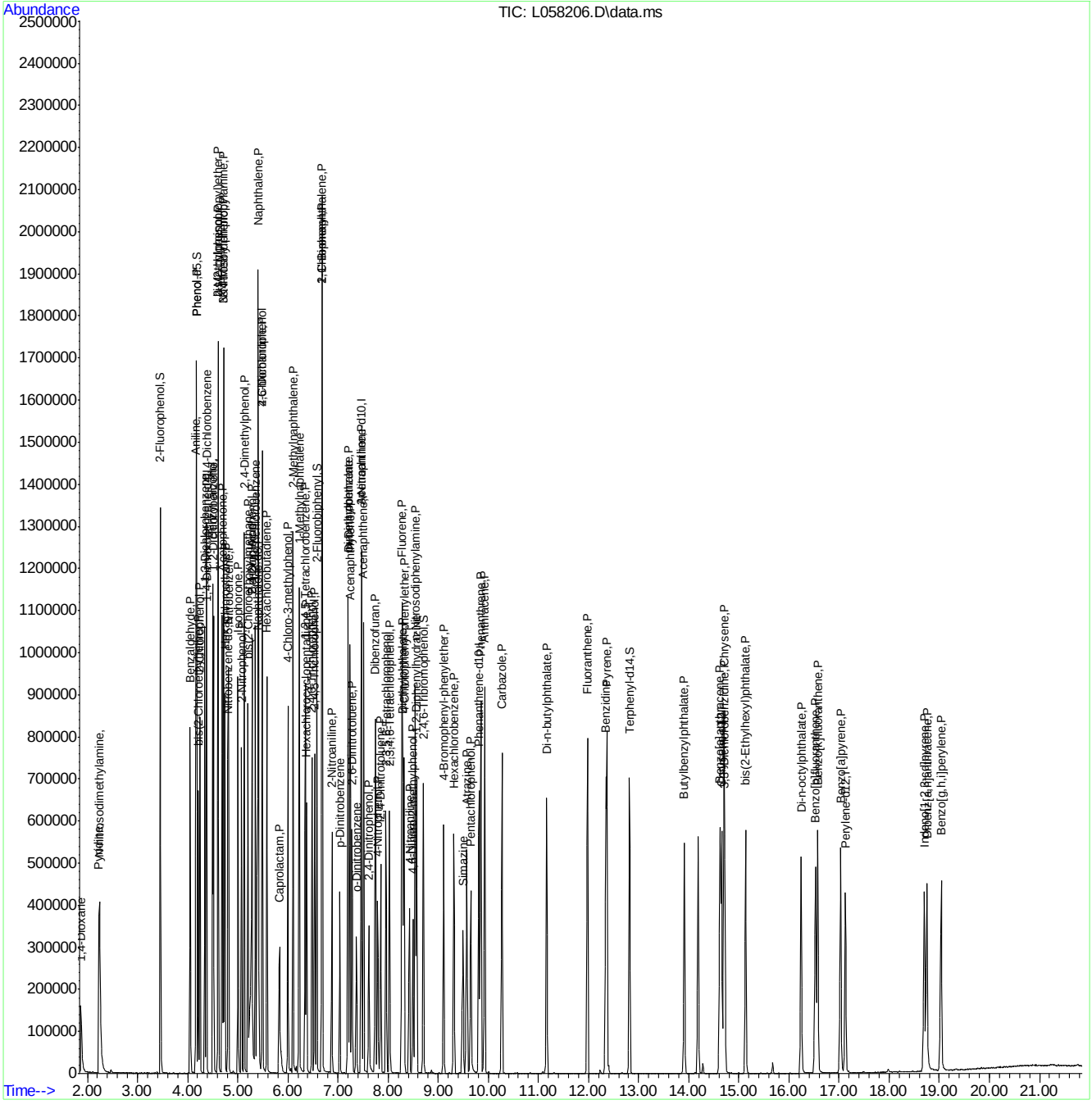
9.8.4

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:36:57 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

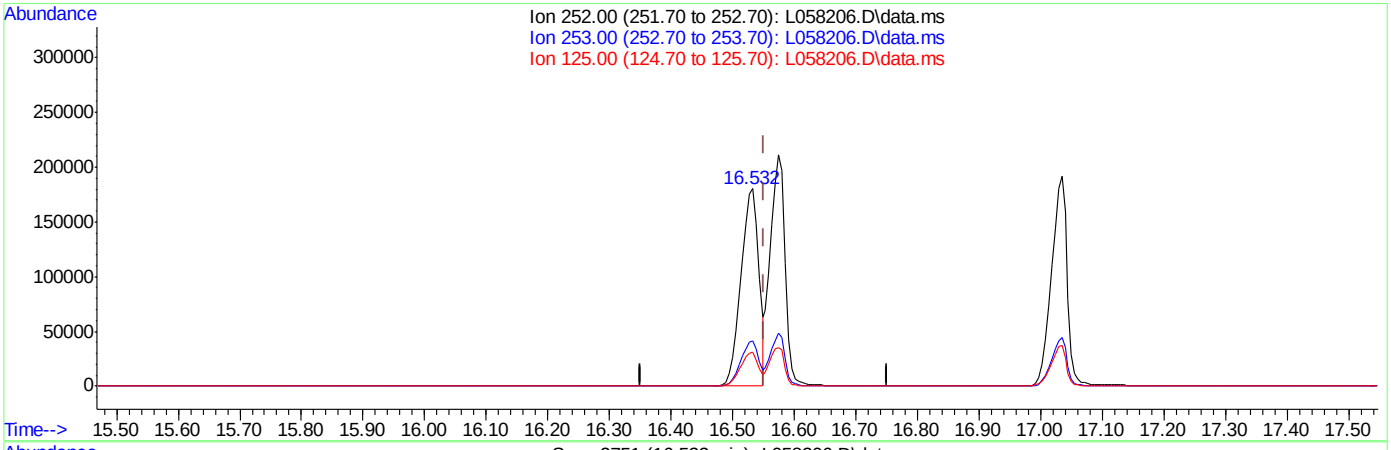
Sample Number:	SL2973-ICC2973	**Method:**	SW846 8270D
Lab FileID:	L058206.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 15:19	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

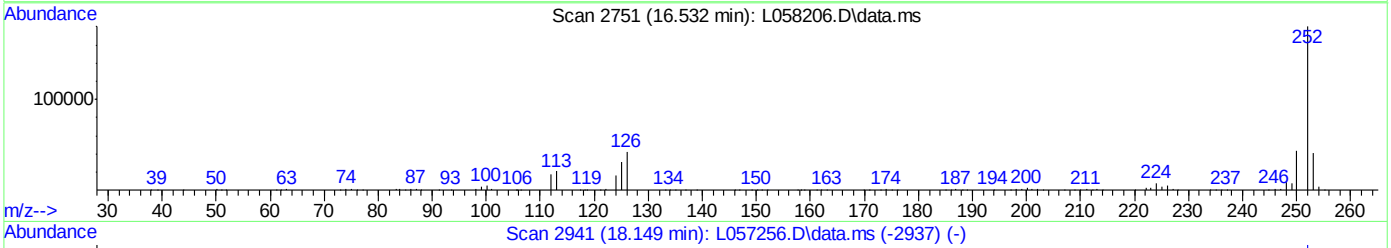
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		16.57	Overlapping peak

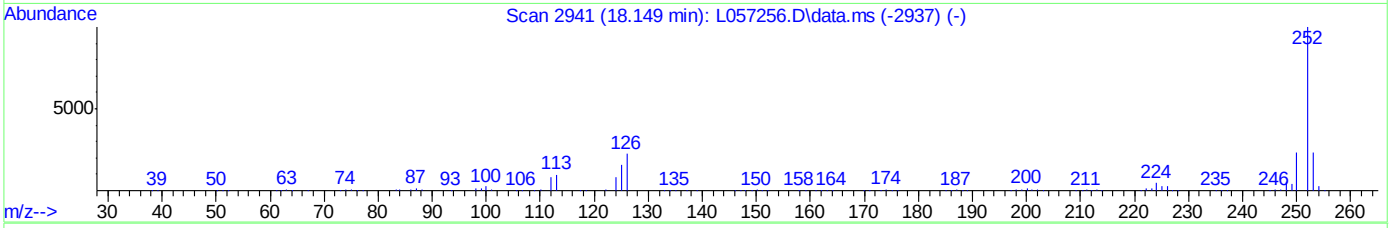
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On : 13 Jul 2012 3:19 pm
Operator : nancyf
Sample : icc2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 16 08:35:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058206.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.532min (-0.020) 48.73ppm

response 355938

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.06
125.00	15.90	17.26
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058206.D
Acq On    : 13 Jul 2012   3:19 pm
Operator  : nancyf
Sample    : icc2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Jul 16 08:35:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration
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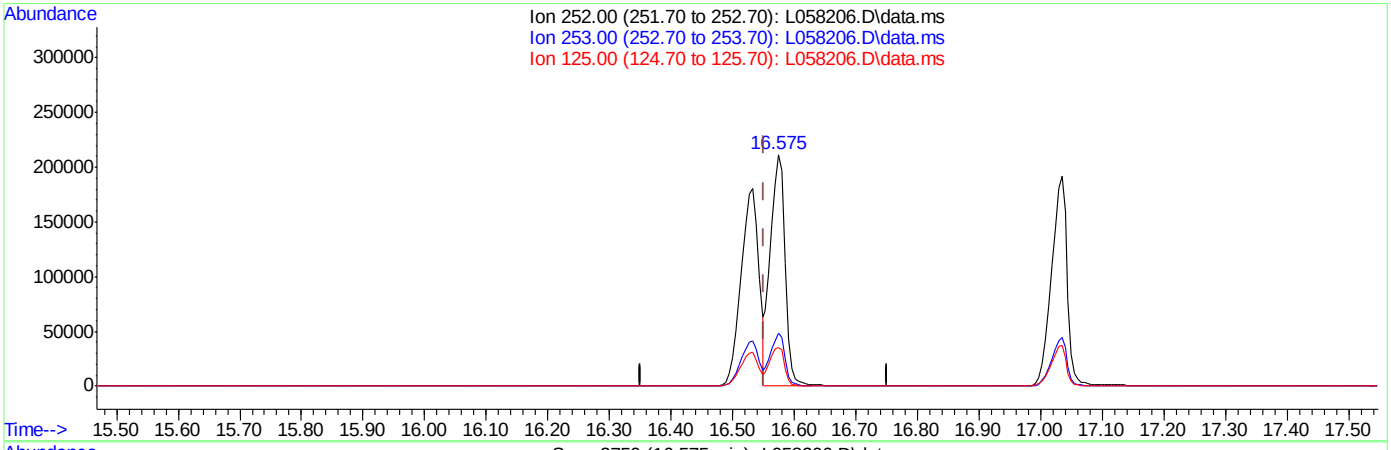
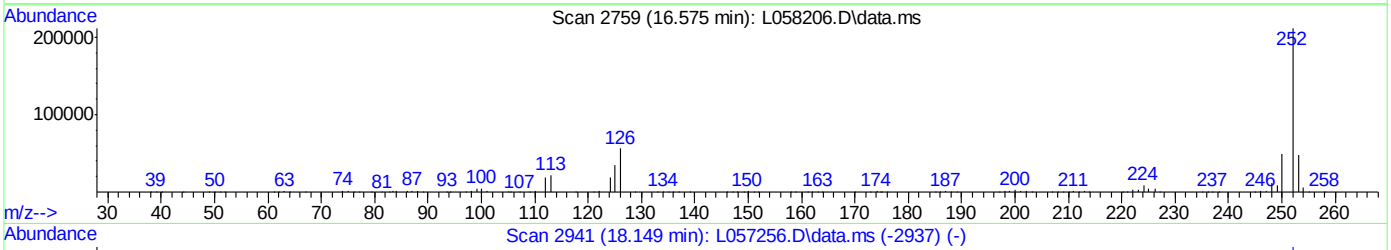
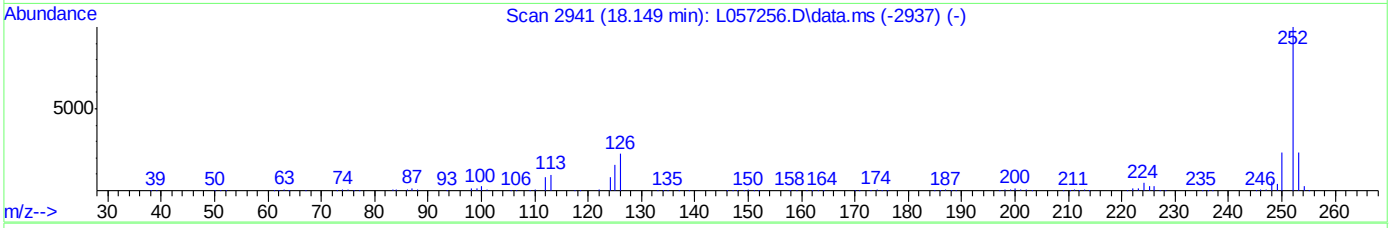






TIC: L058206.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.575min (+0.022) 48.43ppm m

response 353683

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	22.91
125.00	15.90	16.54
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	111276	40.00	ppm	0.00
22) Naphthalene-d8	5.390	136	410708	40.00	ppm	0.00
42) Acenaphthene-d10	7.468	164	232448	40.00	ppm	0.00
68) Phenanthrene-d10	9.812	188	375600	40.00	ppm	0.00
83) Chrysene-d12	14.657	240	306849	40.00	ppm	0.00
92) Perylene-d12	17.130	264	253143	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.451	112	448272	118.41	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 118.41%#			
9) Phenol-d5	4.178	99	498981	144.22	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 144.22%#			
23) Nitrobenzene-d5	4.808	82	262244	53.89	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 107.78%			
46) 2-Fluorobiphenyl	6.581	172	446577	54.52	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 109.04%#			
72) 2,4,6-Tribromophenol	8.707	330	119161	118.58	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 118.58%#			
86) Terphenyl-d14	12.819	244	392262	61.68	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 123.36%#			

Target Compounds

							Qvalue
2) 1,4-Dioxane	1.865	88	120530	69.16	ppm		99
3) N-nitrosodimethylamine	2.244	42	106606	61.69	ppm		100
4) Pyridine	2.228	79	280005	61.37	ppm		99
5) Benzaldehyde	4.049	106	159589	70.08	ppm		98
6) Aniline	4.162	93	369560	71.56	ppm		71
8) bis(2-Chloroethyl)ether	4.215	93	230314	58.21	ppm		89
10) Phenol	4.188	94	313385	70.10	ppm		97
11) 2-Chlorophenol	4.247	128	241034	58.80	ppm		96
12) 1,3-Dichlorobenzene	4.343	146	255617	57.84	ppm		98
13) 1,4-Dichlorobenzene	4.381	146	251388	58.32	ppm		97
14) 1,2-Dichlorobenzene	4.519	146	242024	58.61	ppm		97
15) Benzyl alcohol	4.503	108	175806	60.96	ppm		94
16) bis(2-chloroisopropyl)...	4.610	45	260097	61.24	ppm	#	73
17) 2-Methylphenol	4.610	108	223429	58.35	ppm		99
18) Acetophenone	4.690	105	314402	59.73	ppm		99
19) Hexachloroethane	4.744	117	105359	61.39	ppm		98
20) N-Nitroso-di-n-propyla...	4.722	70	165021	57.52	ppm		97
21) 3&4-Methylphenol	4.717	108	233221	59.76	ppm		98
24) Nitrobenzene	4.819	77	253435	53.86	ppm		99
25) Isophorone	5.011	82	454852	57.77	ppm		99
26) 2-Nitrophenol	5.075	139	145316	58.04	ppm		97
27) 2,4-Dimethylphenol	5.128	107	243502	54.85	ppm		98
28) bis(2-Chloroethoxy)met...	5.203	93	277821	54.80	ppm		99
29) Benzoic Acid	5.289	105	229263	51.31	ppm		98
30) 2,4-Dichlorophenol	5.289	162	200751	54.26	ppm		98
31) 1,2,4-Trichlorobenzene	5.353	180	216975	54.50	ppm		97
33) Naphthalene	5.406	128	565073	54.73	ppm		97
34) 4-Chloroaniline	5.486	127	290394	55.37	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.497	162	199326	55.04	ppm		97
36) Hexachlorobutadiene	5.582	225	116273	54.64	ppm		97
37) Caprolactam	5.844	113	85190	54.89	ppm		92
38) 4-Chloro-3-methylphenol	6.004	107	219623	56.01	ppm	#	46
39) 2-Methylnaphthalene	6.106	142	421375	58.14	ppm		100
40) 1-Methylnaphthalene	6.229	142	401397	55.15	ppm		98
41) 1,2,4,5-Tetrachloroben...	6.351	216	208350	54.93	ppm		99
43) Hexachlorocyclopentadiene	6.378	237	128814	58.19	ppm		99
44) 2,4,6-Trichlorophenol	6.485	196	140674	56.24	ppm		99
45) 2,4,5-Trichlorophenol	6.533	196	148675	56.38	ppm		99
47) 1,1'-Biphenyl	6.688	154	434798	55.67	ppm		96
48) 2-Chloronaphthalene	6.688	162	369049	54.52	ppm		94
49) 2-Nitroaniline	6.880	65	135404	57.30	ppm		96
50) p-Dinitrobenzene	7.040	75	96845	59.58	ppm		95
51) Acenaphthylene	7.243	152	604714	56.02	ppm		97
52) Dimethylphthalate	7.206	163	422182	54.16	ppm		99
53) m-Dinitrobenzene	7.201	168	85703	57.84	ppm	#	81
54) 2,6-Dinitrotoluene	7.286	165	114408	58.71	ppm	#	65
55) o-Dinitrobenzene	7.372	50	63044	58.10	ppm		90
56) Acenaphthene	7.516	153	387314	56.83	ppm		99
57) 3-Nitroaniline	7.478	138	131340	56.72	ppm		97
58) 2,4-Dinitrophenol	7.623	184	80050	61.20	ppm		98
59) Dibenzofuran	7.751	168	525651	56.73	ppm		95
60) 2,4-Dinitrotoluene	7.863	165	150760	58.48	ppm		95
61) 4-Nitrophenol	7.799	109	65186	54.31	ppm		97
62) 2,3,5,6-Tetrachlorophenol	7.959	232	121458	57.81	ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.028	232	116721	57.23	ppm		100
64) Fluorene	8.280	166	435070	56.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.322	204	202890	55.53	ppm		95
66) Diethylphthalate	8.296	149	409659	52.88	ppm		99
67) 4-Nitroaniline	8.434	138	128570	59.20	ppm		97
69) 4,6-Dinitro-2-methylph...	8.504	198	95266	62.47	ppm		97
70) n-Nitrosodiphenylamine	8.547	169	375419	66.51	ppm		97
71) 1,2-Diphenylhydrazine	8.573	77	475840	59.82	ppm		100
73) 4-Bromophenyl-phenylether	9.113	248	119263	56.17	ppm		97
74) Hexachlorobenzene	9.316	284	128402	58.85	ppm		94
75) Simazine	9.508	201	67327	56.86	ppm		98
76) Atrazine	9.583	200	115238	53.05	ppm		98
77) Pentachlorophenol	9.652	266	92240	59.72	ppm		96
78) Phenanthrene	9.855	178	547027	60.62	ppm		99
79) Anthracene	9.935	178	552609	55.02	ppm		98
80) Carbazole	10.277	167	560859	55.81	ppm		99
81) Di-n-butylphthalate	11.169	149	640154	56.12	ppm		100
82) Fluoranthene	11.986	202	567132	55.46	ppm		99
84) Benzidine	12.349	184	345555	67.07	ppm		99
85) Pyrene	12.371	202	554154	53.61	ppm		100
87) Butylbenzylphthalate	13.914	149	272585	55.89	ppm		100
88) 3,3'-Dichlorobenzidine	14.726	252	193248	60.00	ppm		99
89) Benzo[a]anthracene	14.630	228	489040	55.70	ppm		99
90) Chrysene	14.705	228	430212	55.72	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.137	149	353240	56.77 ppm	98
93) Di-n-octylphthalate	16.243	149	569786	59.93 ppm	99
94) Benzo[b]fluoranthene	16.537	252	443534	57.81 ppm	95
95) Benzo[k]fluoranthene	16.580	252	421788m	56.94 ppm	
96) Benzo[a]pyrene	17.039	252	418328	57.17 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.705	276	343601	56.13 ppm	97
98) Dibenz[a,h]anthracene	18.759	278	349554	56.40 ppm	95
99) Benzo[g,h,i]perylene	19.042	276	357290	54.56 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

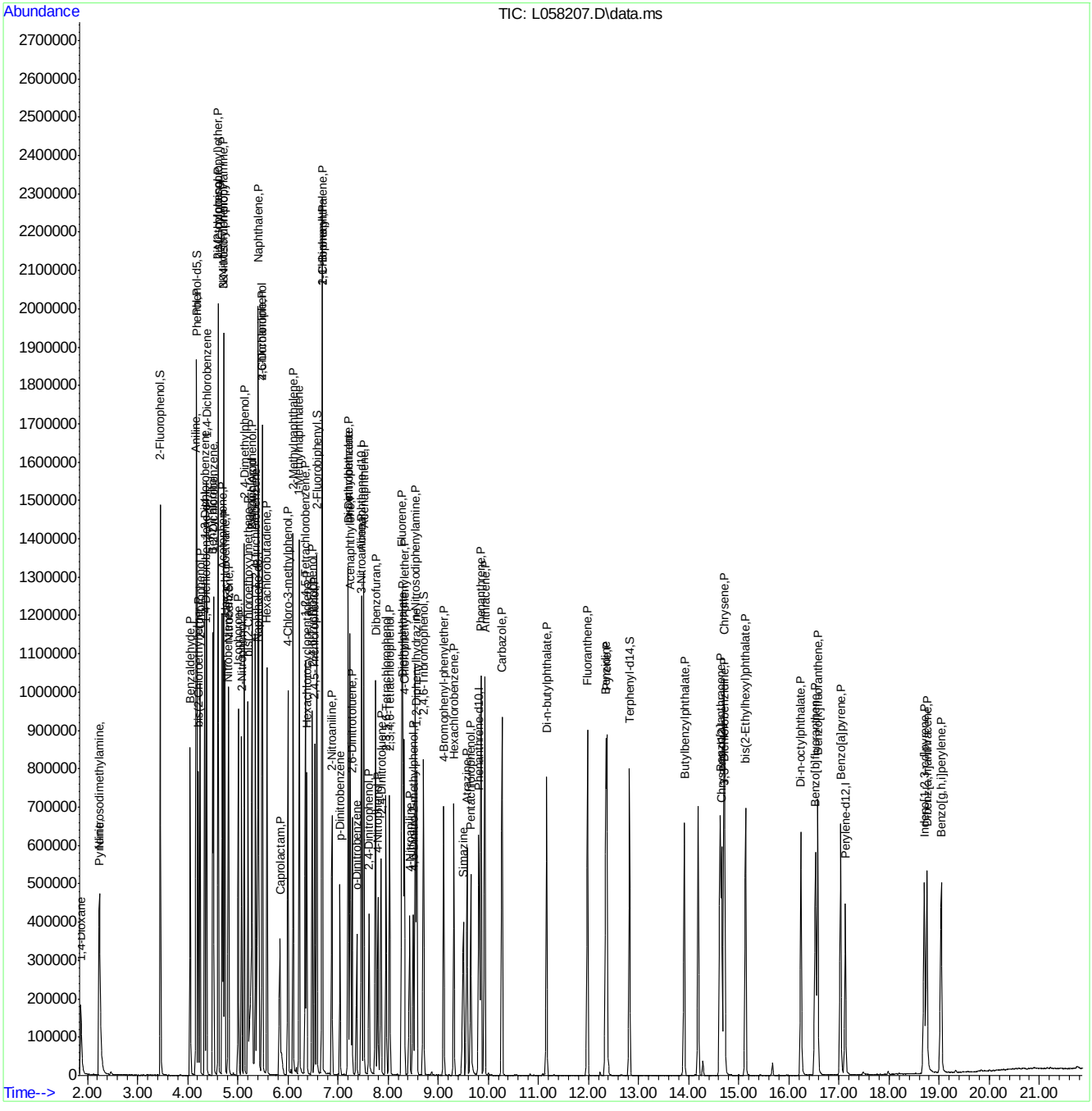
9.8.5

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:39:45 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

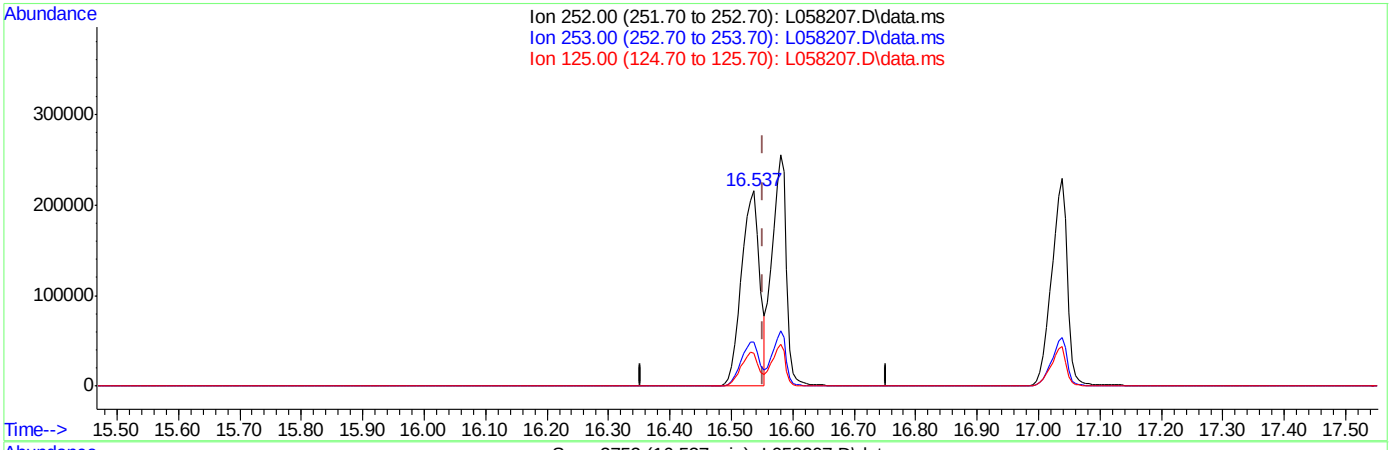
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058207.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 15:49	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

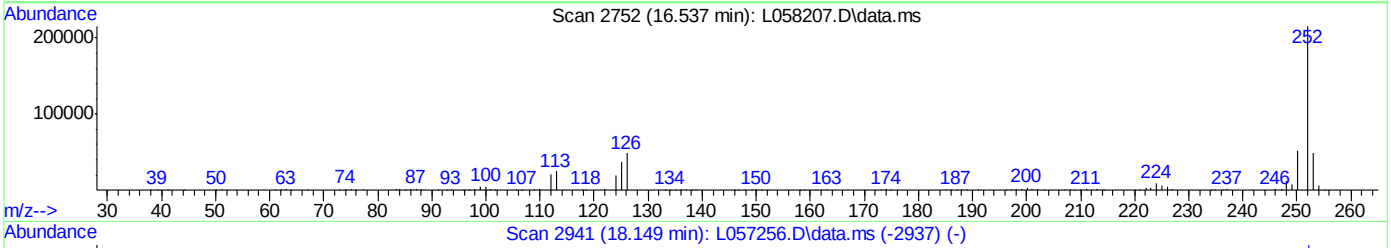
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		16.58	Overlapping peak

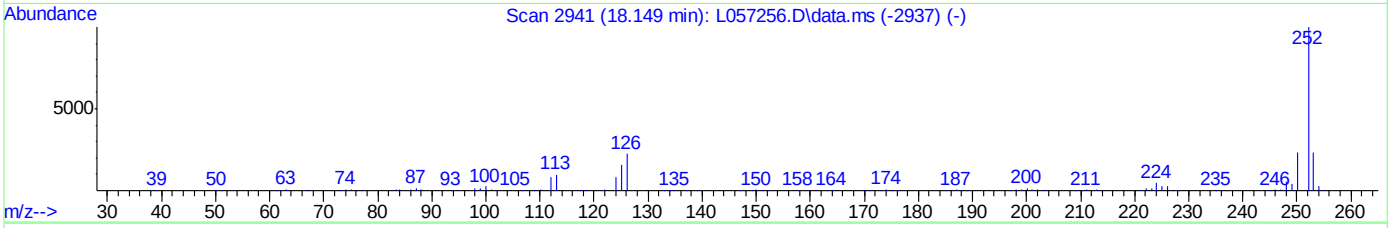
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:37:13 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058207.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.537min (-0.016) 59.88ppm

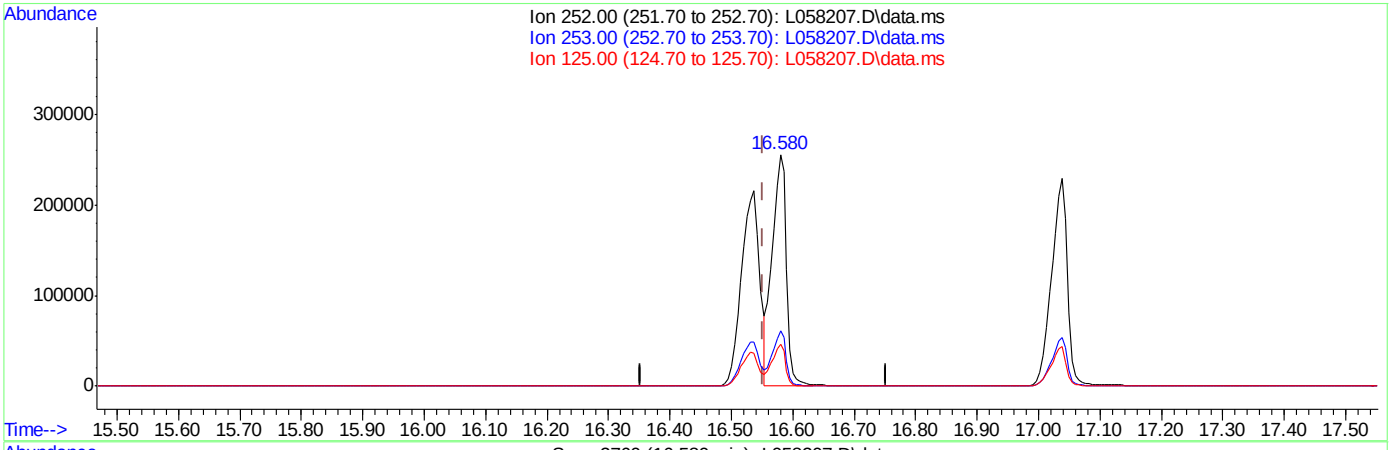
response 443534

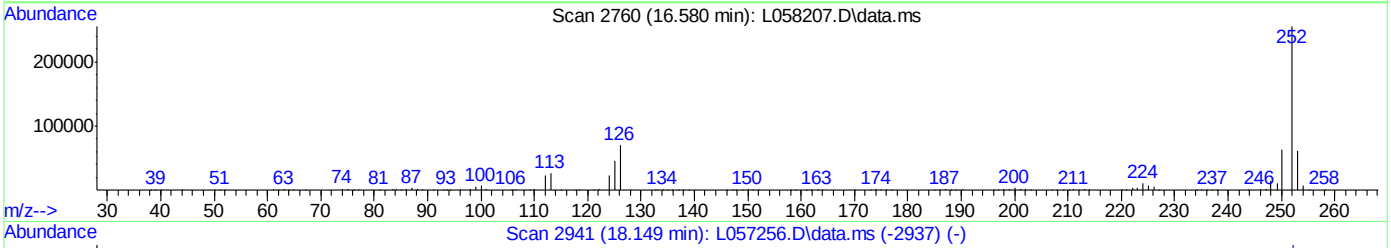
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	22.81
125.00	15.90	16.93
0.00	0.00	0.00

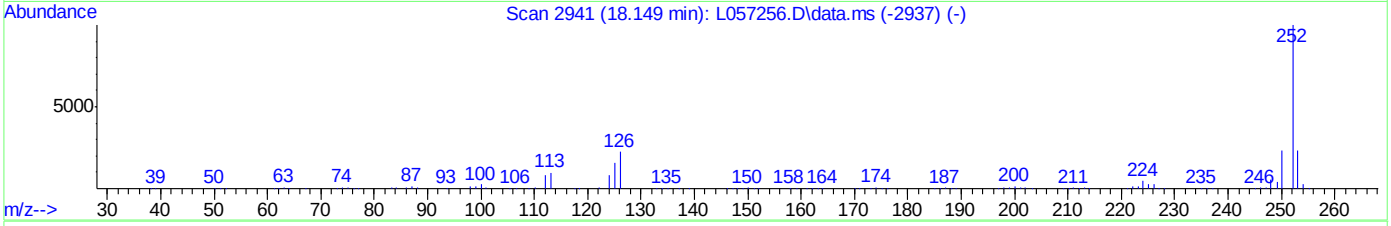
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058207.D
Acq On : 13 Jul 2012 3:49 pm
Operator : nancyf
Sample : ic2973-60
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 16 08:37:13 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058207.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.580min (+0.027) 56.94ppm m

response 421788

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	24.10
125.00	15.90	18.09
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.370	152	110422	40.00	ppm	0.00
22) Naphthalene-d8	5.390	136	406410	40.00	ppm	0.00
42) Acenaphthene-d10	7.468	164	231755	40.00	ppm	0.00
68) Phenanthrene-d10	9.818	188	362540	40.00	ppm	0.00
83) Chrysene-d12	14.657	240	293075	40.00	ppm	0.00
92) Perylene-d12	17.129	264	241483	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.451	112	528350	140.64	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 140.64%#			
9) Phenol-d5	4.177	99	589057	182.84	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 182.84%#			
23) Nitrobenzene-d5	4.808	82	317173	65.87	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 131.74%#			
46) 2-Fluorobiphenyl	6.581	172	524618	64.24	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 128.48%#			
72) 2,4,6-Tribromophenol	8.712	330	142633	147.05	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 147.05%#			
86) Terphenyl-d14	12.825	244	463354	76.29	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 152.58%#			

Target Compounds

							Qvalue
2) 1,4-Dioxane	1.865	88	144810	83.73	ppm		99
3) N-nitrosodimethylamine	2.239	42	126666	73.86	ppm		98
4) Pyridine	2.223	79	351214	77.57	ppm		100
5) Benzaldehyde	4.055	106	177554	Below Cal			98
6) Aniline	4.167	93	439270	93.04	ppm		68
8) bis(2-Chloroethyl)ether	4.215	93	277484	70.67	ppm		95
10) Phenol	4.188	94	370525	89.50	ppm		98
11) 2-Chlorophenol	4.247	128	293168	72.07	ppm		96
12) 1,3-Dichlorobenzene	4.343	146	305913	69.76	ppm		97
13) 1,4-Dichlorobenzene	4.380	146	297563	69.57	ppm		96
14) 1,2-Dichlorobenzene	4.519	146	289627	70.68	ppm		96
15) Benzyl alcohol	4.503	108	209754	73.29	ppm		96
16) bis(2-chloroisopropyl)...	4.610	45	301152	74.66	ppm	#	65
17) 2-Methylphenol	4.610	108	264206	69.53	ppm		97
18) Acetophenone	4.695	105	387543	74.20	ppm		99
19) Hexachloroethane	4.744	117	127606	74.93	ppm		98
20) N-Nitroso-di-n-propyla...	4.722	70	201059	70.62	ppm		95
21) 3&4-Methylphenol	4.717	108	277477	71.65	ppm		98
24) Nitrobenzene	4.824	77	300058	64.44	ppm		94
25) Isophorone	5.011	82	559551	72.85	ppm		99
26) 2-Nitrophenol	5.080	139	172302	69.54	ppm		97
27) 2,4-Dimethylphenol	5.133	107	293270	66.76	ppm		98
28) bis(2-Chloroethoxy)met...	5.208	93	333696	66.52	ppm		97
29) Benzoic Acid	5.299	105	301812	68.26	ppm		95
30) 2,4-Dichlorophenol	5.288	162	238314	65.10	ppm		97
31) 1,2,4-Trichlorobenzene	5.352	180	259916	65.98	ppm		97
33) Naphthalene	5.406	128	666858	68.36	ppm		96
34) 4-Chloroaniline	5.491	127	343813	66.25	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.497	162	237765	66.35	ppm		95
36) Hexachlorobutadiene	5.582	225	136749	64.95	ppm		99
37) Caprolactam	5.854	113	106214m	69.16	ppm		
38) 4-Chloro-3-methylphenol	6.009	107	264330	68.13	ppm		96
39) 2-Methylnaphthalene	6.106	142	494079	71.85	ppm		99
40) 1-Methylnaphthalene	6.228	142	470926	65.39	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.351	216	252075	67.16	ppm		98
43) Hexachlorocyclopentadiene	6.378	237	159313	72.18	ppm		98
44) 2,4,6-Trichlorophenol	6.485	196	170909	68.54	ppm		100
45) 2,4,5-Trichlorophenol	6.538	196	177265	67.42	ppm		99
47) 1,1'-Biphenyl	6.688	154	517760	69.61	ppm		96
48) 2-Chloronaphthalene	6.688	162	445268	65.98	ppm		93
49) 2-Nitroaniline	6.885	65	166007	70.46	ppm		97
50) p-Dinitrobenzene	7.046	75	118648	73.21	ppm		97
51) Acenaphthylene	7.249	152	722264	67.11	ppm		96
52) Dimethylphthalate	7.211	163	498254	64.11	ppm		98
53) m-Dinitrobenzene	7.206	168	105654	71.51	ppm	#	78
54) 2,6-Dinitrotoluene	7.291	165	138544	71.31	ppm	#	63
55) o-Dinitrobenzene	7.377	50	76254	70.48	ppm		90
56) Acenaphthene	7.521	153	456010	67.10	ppm		98
57) 3-Nitroaniline	7.478	138	160795	69.65	ppm		97
58) 2,4-Dinitrophenol	7.628	184	101335	75.52	ppm		96
59) Dibenzofuran	7.756	168	627027	67.88	ppm		97
60) 2,4-Dinitrotoluene	7.868	165	182742	71.10	ppm		87
61) 4-Nitrophenol	7.804	109	78795	65.85	ppm		95
62) 2,3,5,6-Tetrachlorophenol	7.964	232	147554	70.44	ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.034	232	140354	69.02	ppm		97
64) Fluorene	8.285	166	517790	67.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.327	204	243921	66.96	ppm		98
66) Diethylphthalate	8.301	149	485059	62.79	ppm		98
67) 4-Nitroaniline	8.445	138	157591	72.78	ppm		96
69) 4,6-Dinitro-2-methylph...	8.509	198	117447	79.79	ppm		99
70) n-Nitrosodiphenylamine	8.552	169	443043	81.32	ppm		95
71) 1,2-Diphenylhydrazine	8.578	77	565934	73.71	ppm		99
73) 4-Bromophenyl-phenylether	9.118	248	145466	70.97	ppm		94
74) Hexachlorobenzene	9.321	284	155762	73.97	ppm		94
75) Simazine	9.518	201	81467	71.28	ppm		98
76) Atrazine	9.588	200	141465	67.47	ppm		96
77) Pentachlorophenol	9.657	266	112010	75.14	ppm		95
78) Phenanthrene	9.860	178	640701	77.16	ppm		97
79) Anthracene	9.940	178	656194	67.68	ppm		98
80) Carbazole	10.282	167	656000	67.62	ppm		98
81) Di-n-butylphthalate	11.169	149	743934	67.57	ppm		99
82) Fluoranthene	11.986	202	662518	67.12	ppm		99
84) Benzidine	12.349	184	377104	76.63	ppm		99
85) Pyrene	12.376	202	647193	65.56	ppm		99
87) Butylbenzylphthalate	13.919	149	325479	69.87	ppm		97
88) 3,3'-Dichlorobenzidine	14.726	252	222327	72.28	ppm		98
89) Benzo[a]anthracene	14.635	228	578323	68.96	ppm		98
90) Chrysene	14.710	228	502705	68.17	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

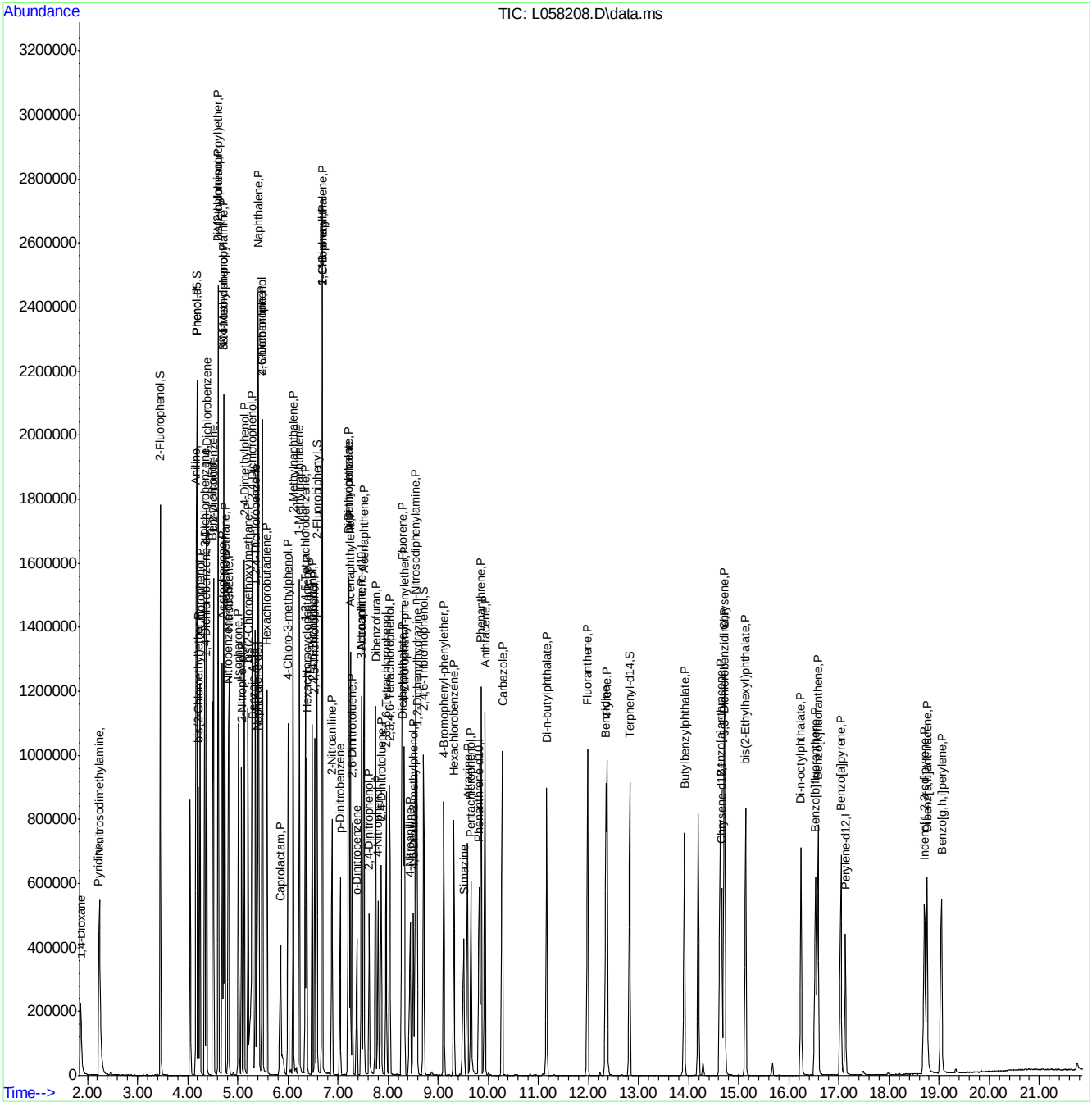
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.137	149	417473	70.25 ppm	99
93) Di-n-octylphthalate	16.243	149	666135	73.44 ppm	98
94) Benzo[b]fluoranthene	16.537	252	525776	71.84 ppm	93
95) Benzo[k]fluoranthene	16.585	252	478529m	67.72 ppm	
96) Benzo[a]pyrene	17.044	252	492679	70.58 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.710	276	411323	70.44 ppm	97
98) Dibenz[a,h]anthracene	18.764	278	416439	70.43 ppm	95
99) Benzo[g,h,i]perylene	19.052	276	420594	67.33 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:41:52 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

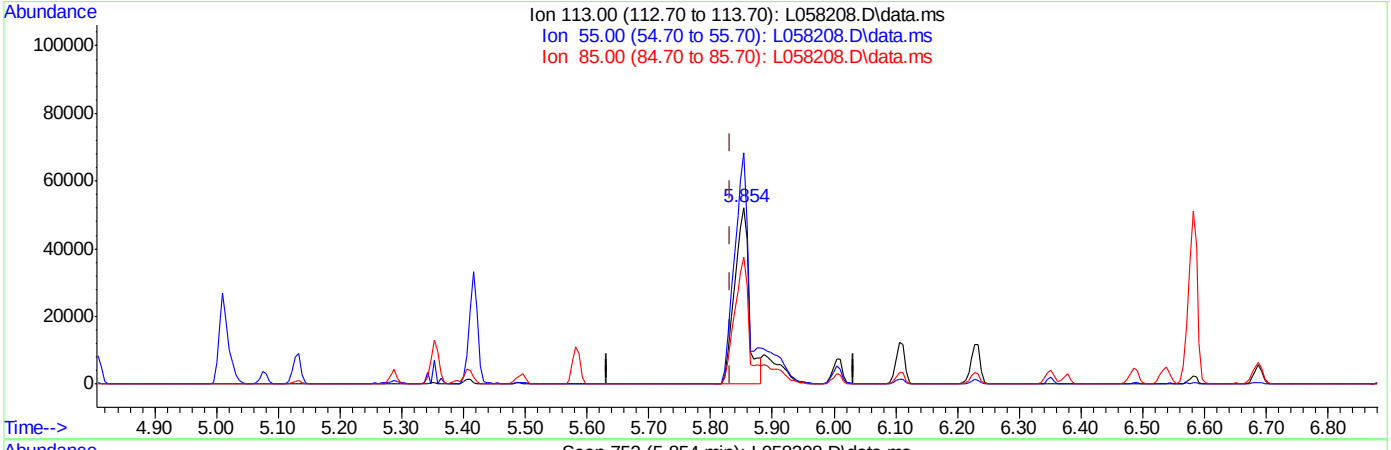
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058208.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 16:18	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

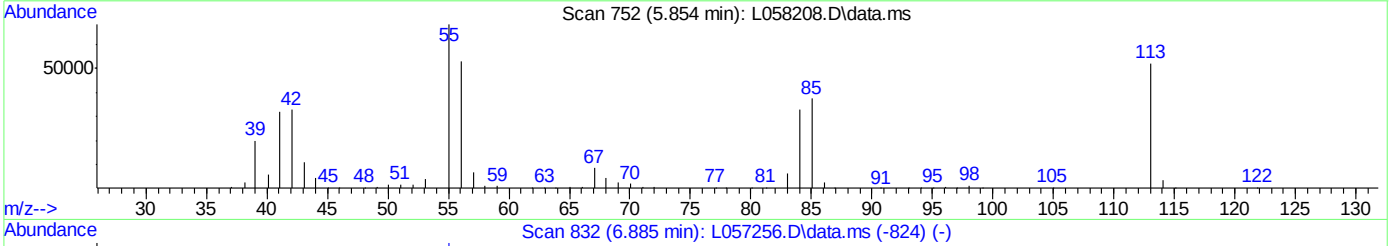
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.85	Split peak
Benzo(k)fluoranthene	207-08-9		16.58	Overlapping peak

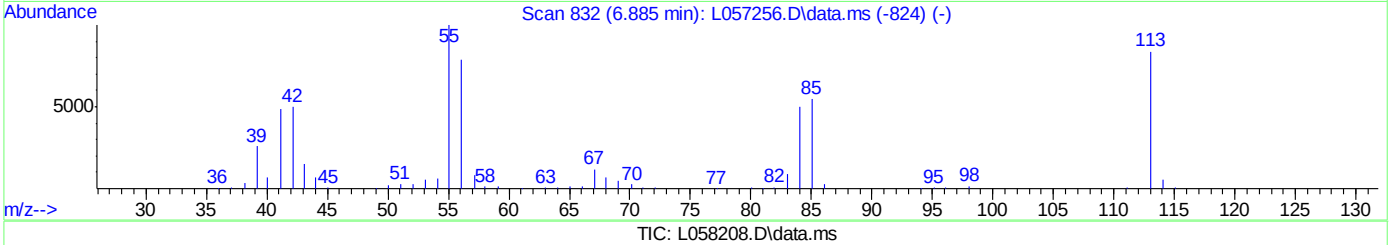
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(37) Caprolactam (P)

5.854min (+0.022) 57.47ppm

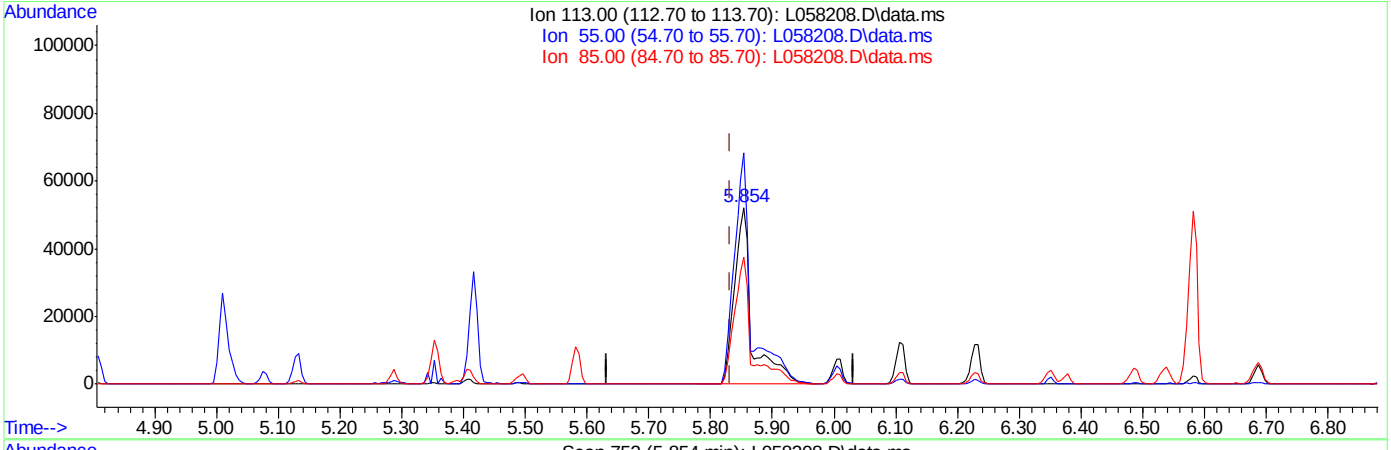
response 88264

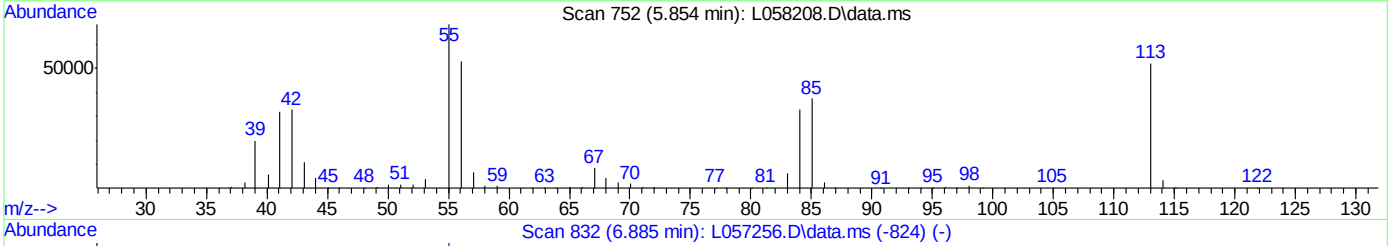
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	130.26
85.00	65.20	71.66
0.00	0.00	0.00

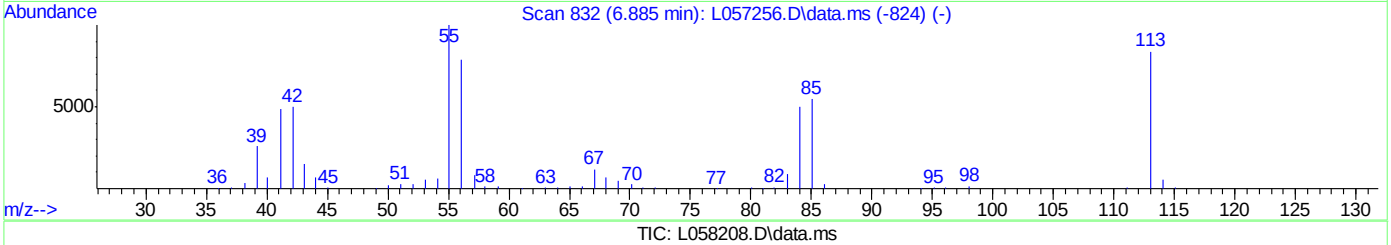
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(37) Caprolactam (P)

5.854min (+0.022) 69.16ppm m

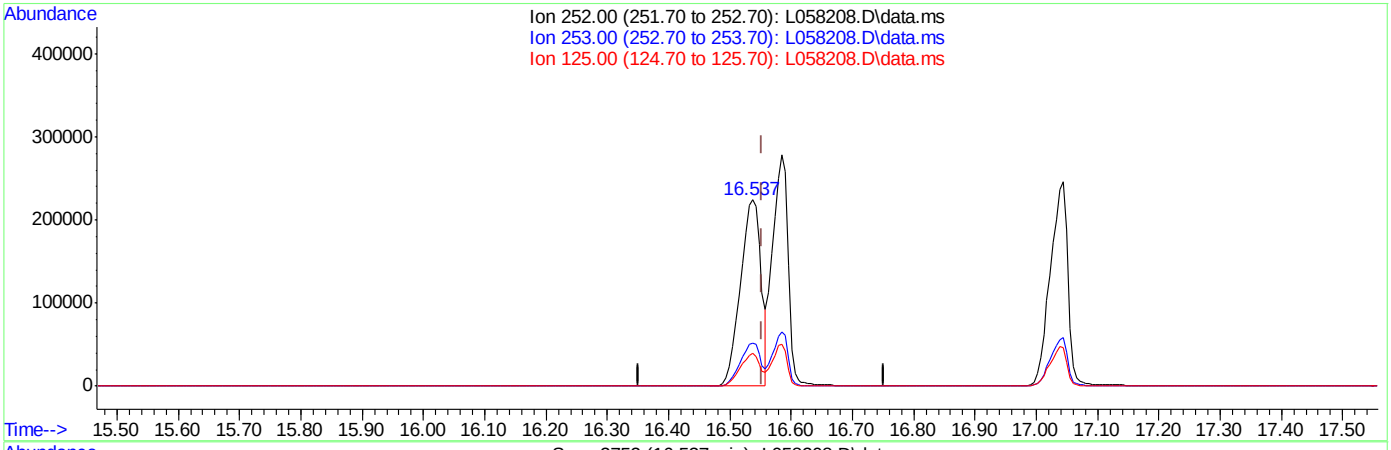
response 106214

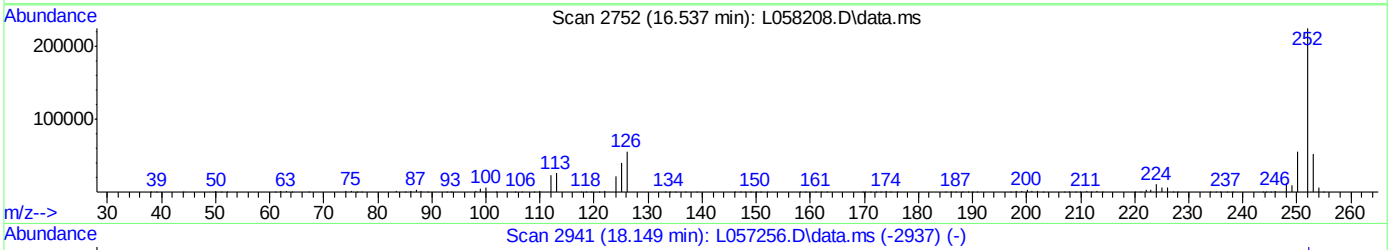
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	131.05
85.00	65.20	71.66
0.00	0.00	0.00

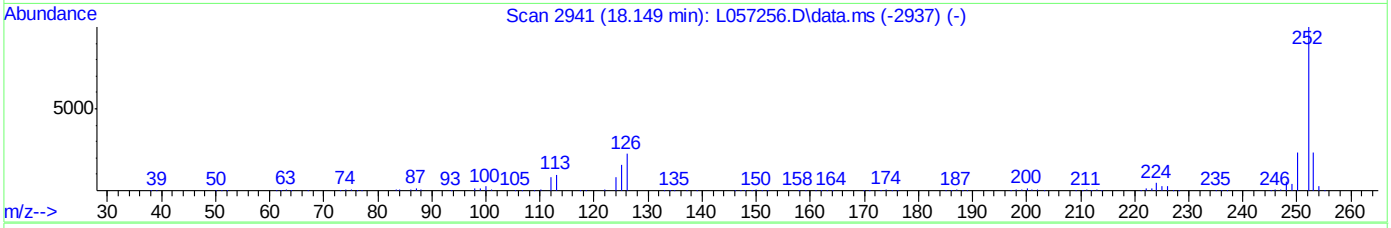
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.537min (-0.016) 74.41ppm

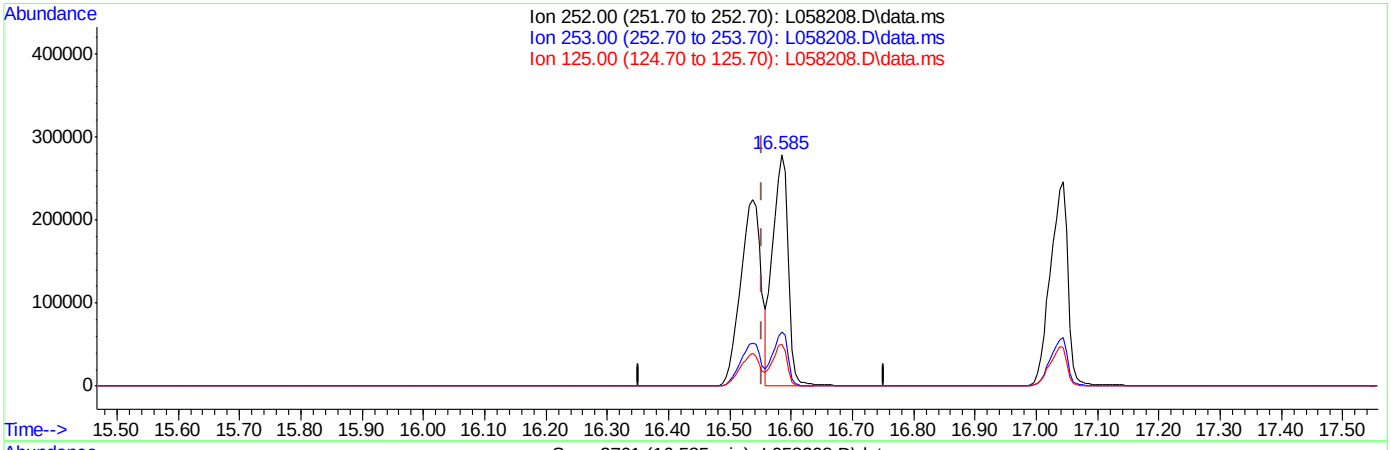
response 525776

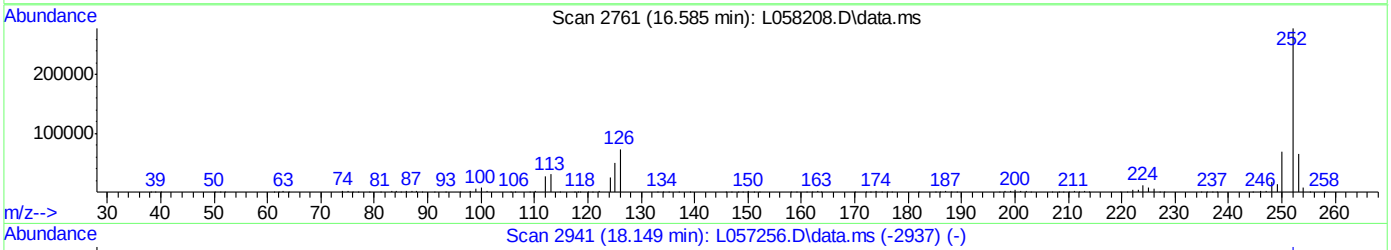
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.04
125.00	15.90	18.02
0.00	0.00	0.00

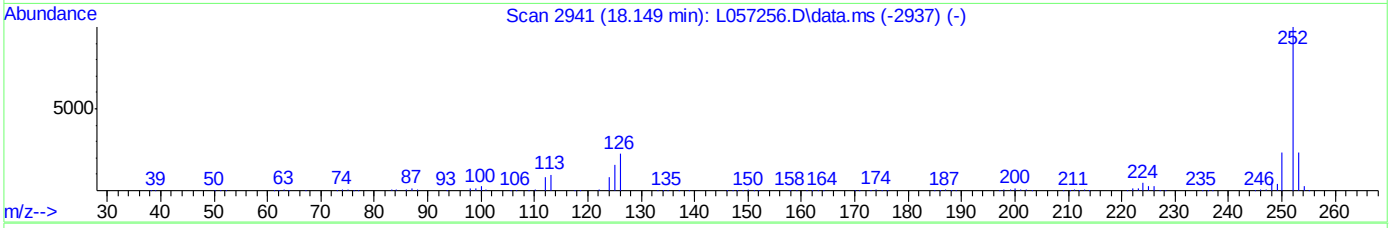
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058208.D
Acq On : 13 Jul 2012 4:18 pm
Operator : nancyf
Sample : ic2973-75
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 16 08:40:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058208.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.585min (+0.032) 67.72ppm m

response 478529

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.52
125.00	15.90	17.91
0.00	0.00	0.00

L058209.D

Manual Integrations APPROVED (compounds with "m" flag)

Naresh Jiawan 07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.372	152	109093	40.00	ppm	0.00
22) Naphthalene-d8	5.392	136	403226	40.00	ppm	0.00
42) Acenaphthene-d10	7.469	164	226712	40.00	ppm	0.00
68) Phenanthrene-d10	9.819	188	360786	40.00	ppm	0.00
83) Chrysene-d12	14.664	240	283751	40.00	ppm	0.00
92) Perylene-d12	17.131	264	234068	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.453	112	655015	176.49	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 176.49%#			
9) Phenol-d5	4.185	99	742878	279.10	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 279.10%#			
23) Nitrobenzene-d5	4.809	82	408659	85.53	ppm	0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 171.06%#			
46) 2-Fluorobiphenyl	6.588	172	657446	82.29	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 164.58%#			
72) 2,4,6-Tribromophenol	8.719	330	185144	191.80	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 191.80%#			
86) Terphenyl-d14	12.826	244	590520	100.42	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 200.84%#			

Target Compounds

							Qvalue
2) 1,4-Dioxane	1.861	88	194838m	114.03	ppm		
3) N-nitrosodimethylamine	2.240	42	165032	97.41	ppm		100
4) Pyridine	2.219	79	464044	103.74	ppm		98
5) Benzaldehyde	4.051	106	181222	Below Cal			99
6) Aniline	4.163	93	562790	Below Cal			70
8) bis(2-Chloroethyl)ether	4.217	93	366046	94.37	ppm		95
10) Phenol	4.190	94	473377	146.61	ppm		92
11) 2-Chlorophenol	4.249	128	374108	93.09	ppm		96
12) 1,3-Dichlorobenzene	4.345	146	390279	90.09	ppm		96
13) 1,4-Dichlorobenzene	4.382	146	377744	89.39	ppm		94
14) 1,2-Dichlorobenzene	4.516	146	352385	87.04	ppm		95
15) Benzyl alcohol	4.505	108	276677	97.86	ppm		96
16) bis(2-chloroisopropyl)...	4.612	45	373027	103.66	ppm	#	61
17) 2-Methylphenol	4.612	108	331895	88.41	ppm	#	78
18) Acetophenone	4.697	105	495142	95.95	ppm		98
19) Hexachloroethane	4.745	117	159870	95.01	ppm		95
20) N-Nitroso-di-n-propyla...	4.729	70	254502	90.49	ppm		97
21) 3&4-Methylphenol	4.724	108	351605	91.90	ppm		95
24) Nitrobenzene	4.826	77	382326	82.75	ppm		96
25) Isophorone	5.012	82	738397	99.42	ppm		99
26) 2-Nitrophenol	5.082	139	223236	90.81	ppm		98
27) 2,4-Dimethylphenol	5.135	107	373881	85.79	ppm		98
28) bis(2-Chloroethoxy)met...	5.210	93	416709	83.72	ppm		96
29) Benzoic Acid	5.322	105	409165	93.27	ppm		96
30) 2,4-Dichlorophenol	5.290	162	304683	83.88	ppm		96
31) 1,2,4-Trichlorobenzene	5.354	180	327046	83.68	ppm		95
33) Naphthalene	5.408	128	814418	91.51	ppm		93
34) 4-Chloroaniline	5.493	127	435596	84.60	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.504	162	305296	85.87 ppm		96
36) Hexachlorobutadiene	5.584	225	177594	85.01 ppm		97
37) Caprolactam	5.872	113	136852m	89.81 ppm		
38) 4-Chloro-3-methylphenol	6.011	107	340978	88.57 ppm	#	29
39) 2-Methylnaphthalene	6.113	142	617005	98.77 ppm		98
40) 1-Methylnaphthalene	6.230	142	587435	82.22 ppm		97
41) 1,2,4,5-Tetrachloroben...	6.353	216	315746	84.79 ppm		97
43) Hexachlorocyclopentadiene	6.380	237	203662	94.33 ppm		97
44) 2,4,6-Trichlorophenol	6.492	196	220202	90.27 ppm		100
45) 2,4,5-Trichlorophenol	6.545	196	224795	87.40 ppm		99
47) 1,1'-Biphenyl	6.690	154	619335	92.08 ppm		94
48) 2-Chloronaphthalene	6.690	162	554527	83.99 ppm		91
49) 2-Nitroaniline	6.887	65	214154	92.92 ppm		98
50) p-Dinitrobenzene	7.053	75	154731	97.60 ppm		99
51) Acenaphthylene	7.250	152	875652	83.18 ppm		94
52) Dimethylphthalate	7.218	163	616208	81.06 ppm		97
53) m-Dinitrobenzene	7.213	168	134413	93.00 ppm	#	47
54) 2,6-Dinitrotoluene	7.293	165	178207	93.76 ppm	#	69
55) o-Dinitrobenzene	7.389	50	97515	92.14 ppm		95
56) Acenaphthene	7.523	153	579587	87.19 ppm		99
57) 3-Nitroaniline	7.491	138	211091	93.47 ppm		96
58) 2,4-Dinitrophenol	7.635	184	132906	97.12 ppm		99
59) Dibenzofuran	7.758	168	783465	86.70 ppm		94
60) 2,4-Dinitrotoluene	7.875	165	237096	94.30 ppm		95
61) 4-Nitrophenol	7.817	109	104136	88.96 ppm		94
62) 2,3,5,6-Tetrachlorophenol	7.966	232	188562	92.02 ppm		99
63) 2,3,4,6-Tetrachlorophenol	8.041	232	182761	91.88 ppm		97
64) Fluorene	8.287	166	659766	88.28 ppm		99
65) 4-Chlorophenyl-phenyle...	8.329	204	307609	86.32 ppm		95
66) Diethylphthalate	8.308	149	607517	80.40 ppm		97
67) 4-Nitroaniline	8.463	138	210265	99.27 ppm		96
69) 4,6-Dinitro-2-methylph...	8.522	198	154349	105.37 ppm		98
70) n-Nitrosodiphenylamine	8.559	169	559741	103.24 ppm		96
71) 1,2-Diphenylhydrazine	8.586	77	712223	93.21 ppm		95
73) 4-Bromophenyl-phenylether	9.120	248	188949	92.64 ppm		94
74) Hexachlorobenzene	9.323	284	198310	94.63 ppm		97
75) Simazine	9.531	201	106589	93.72 ppm		96
76) Atrazine	9.600	200	181299	86.89 ppm		97
77) Pentachlorophenol	9.665	266	146518	98.76 ppm		97
78) Phenanthrene	9.867	178	810813	107.97 ppm		96
79) Anthracene	9.942	178	828617	85.88 ppm		96
80) Carbazole	10.284	167	836694	86.67 ppm		96
81) Di-n-butylphthalate	11.176	149	933530	85.20 ppm		98
82) Fluoranthene	11.993	202	837385	85.25 ppm		99
84) Benzidine	12.351	184	423826	88.95 ppm		98
85) Pyrene	12.378	202	823687	86.18 ppm		97
87) Butylbenzylphthalate	13.921	149	413128	91.60 ppm		99
88) 3,3'-Dichlorobenzidine	14.733	252	267957	89.98 ppm		98
89) Benzo[a]anthracene	14.637	228	726941	89.53 ppm		98
90) Chrysene	14.717	228	629489	88.17 ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	15.139	149	533504	92.73 ppm	99
93) Di-n-octylphthalate	16.250	149	841641	95.73 ppm	97
94) Benzo[b]fluoranthene	16.544	252	685587	96.64 ppm	93
95) Benzo[k]fluoranthene	16.597	252	596670m	87.12 ppm	
96) Benzo[a]pyrene	17.051	252	628961	92.95 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.718	276	553268	97.75 ppm	98
98) Dibenz[a,h]anthracene	18.771	278	546608	95.37 ppm	94
99) Benzo[g,h,i]perylene	19.059	276	557801	92.13 ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

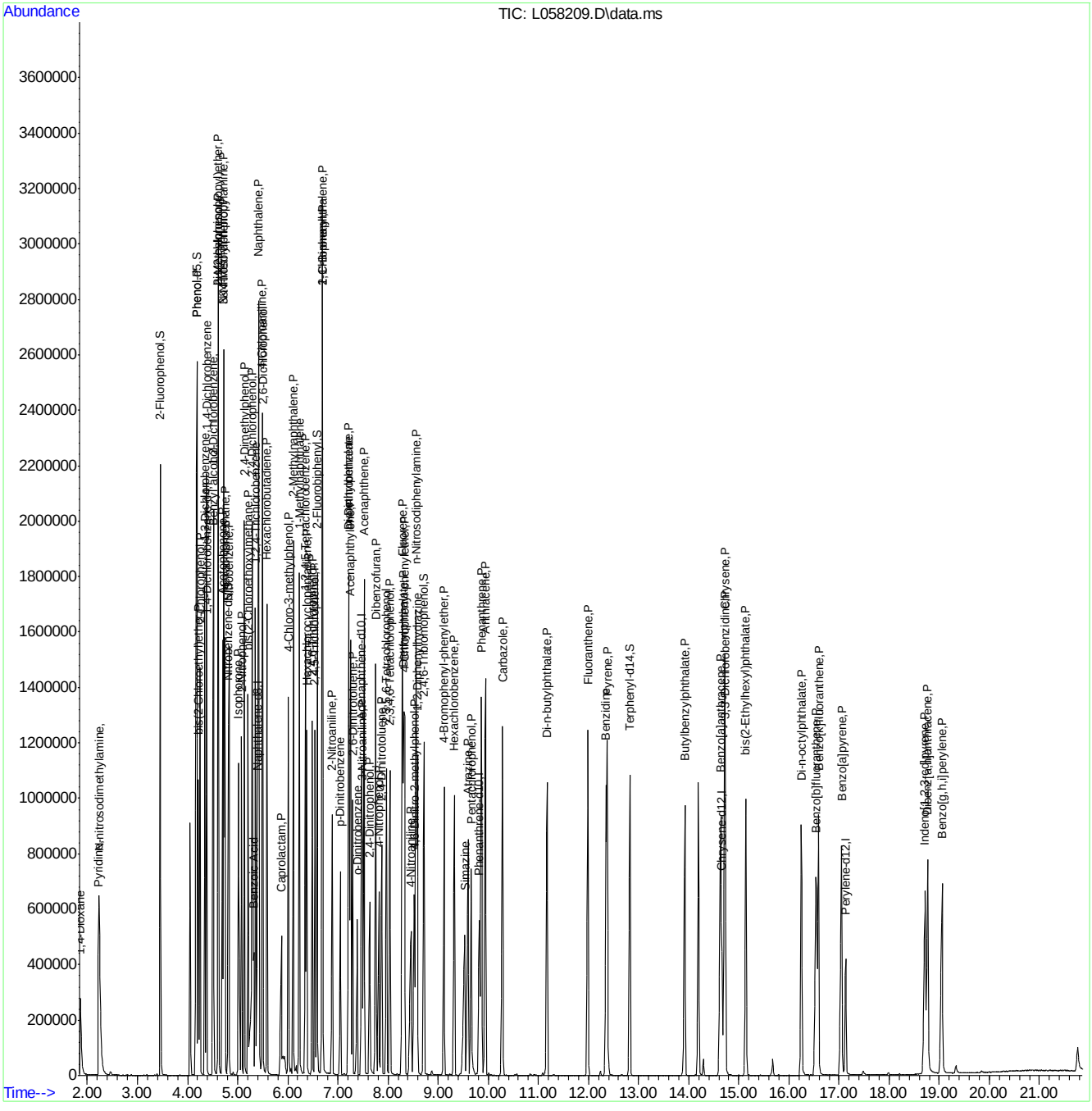
9.8.7

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:44:08 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

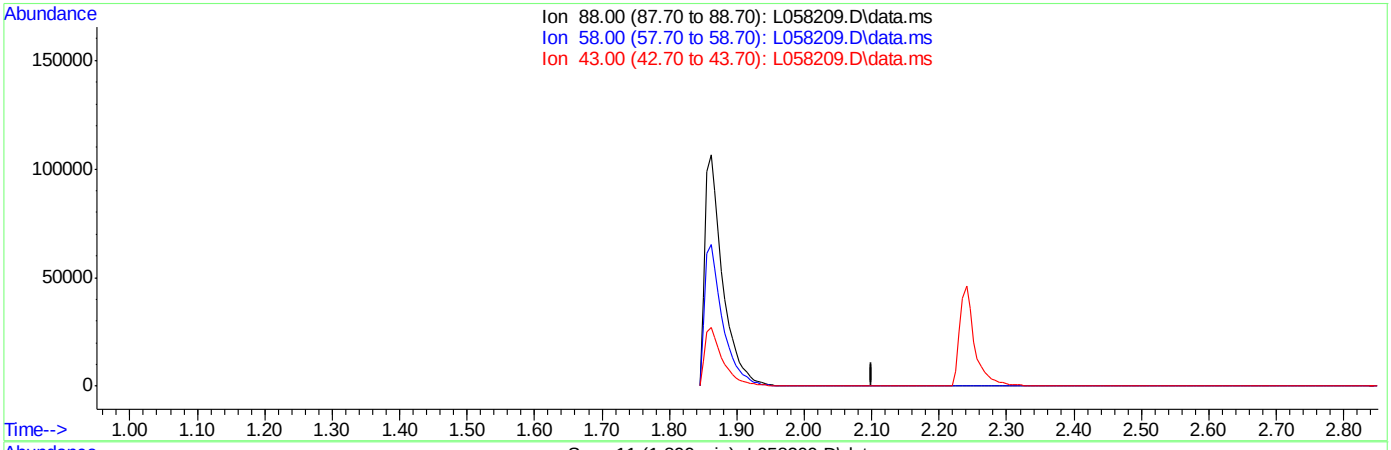
Sample Number:	SL2973-IC2973	**Method:**	SW846 8270D
Lab FileID:	L058209.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 16:47	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

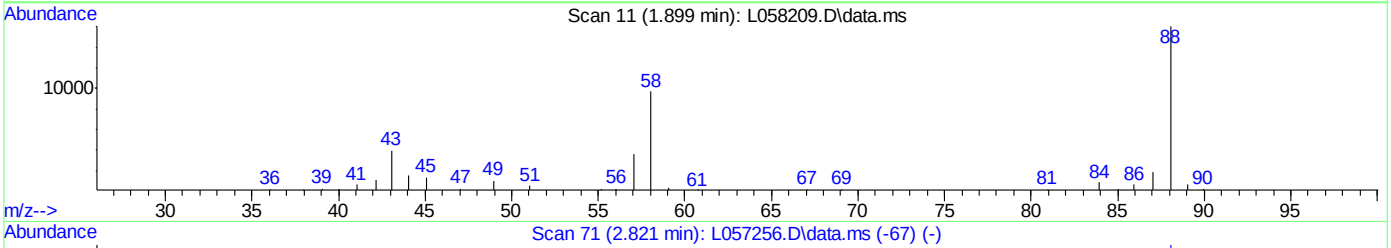
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.86	Missed peak
Caprolactam	105-60-2		5.87	Split peak
Benzo(k)fluoranthene	207-08-9		16.60	Overlapping peak

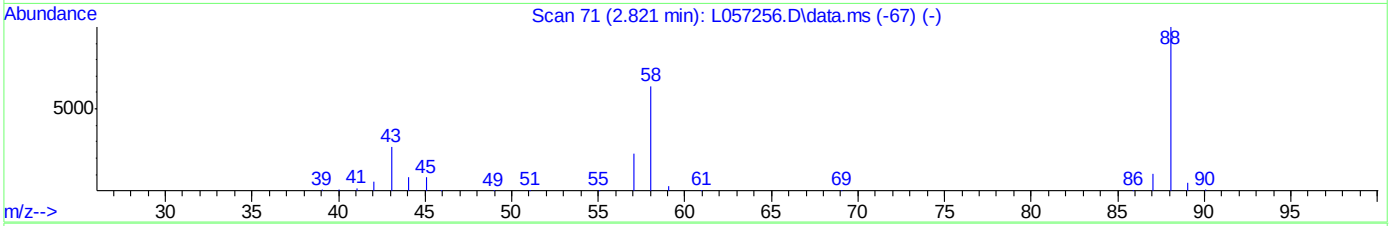
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(2) 1,4-Dioxane

1.901min (-1.901) 0.00ppm

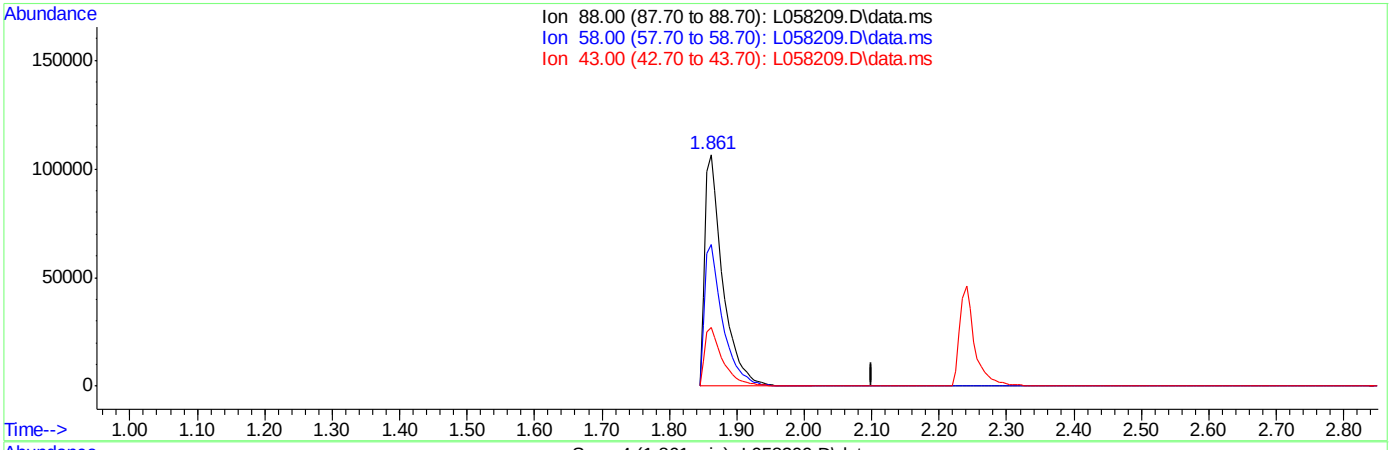
response 0

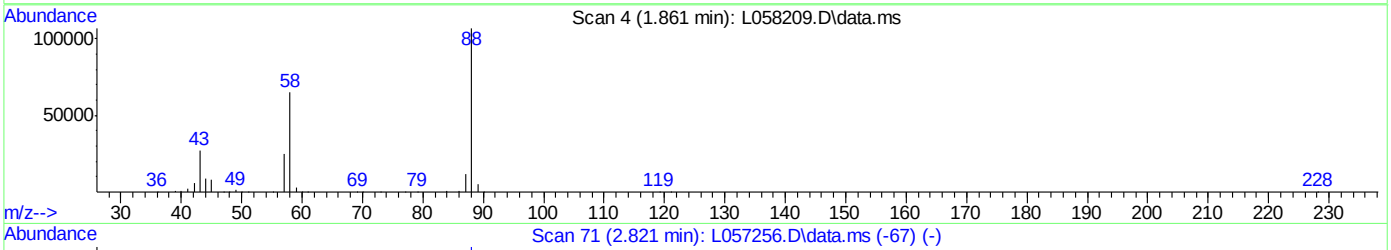
Ion	Exp%	Act%
88.00	100	0.00
58.00	59.50	0.00#
43.00	25.30	0.00
0.00	0.00	0.00

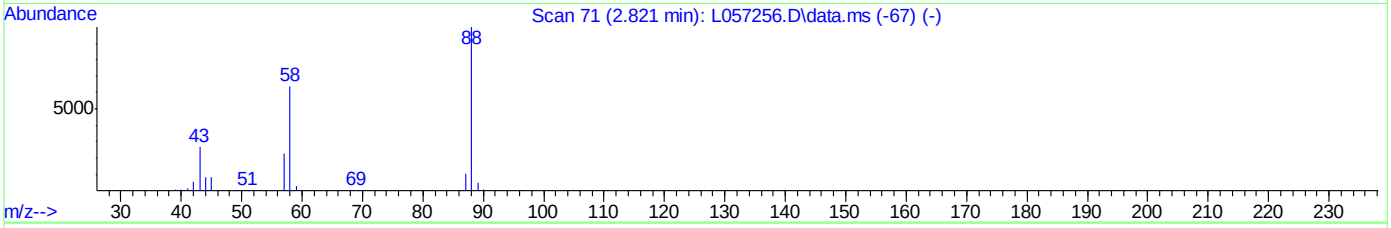
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(2) 1,4-Dioxane

1.861min (-0.040) 114.03ppm m

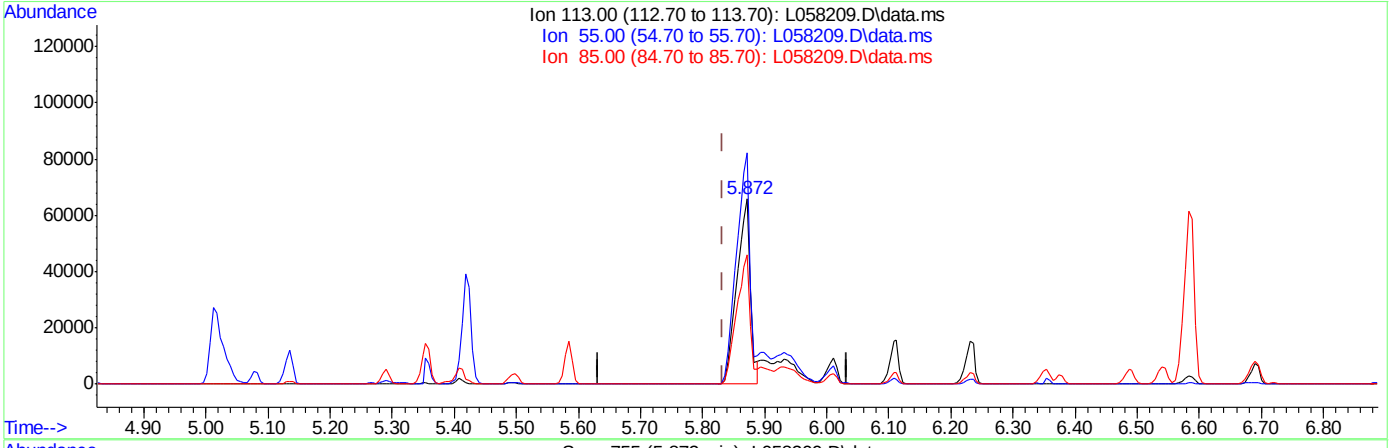
response 194838

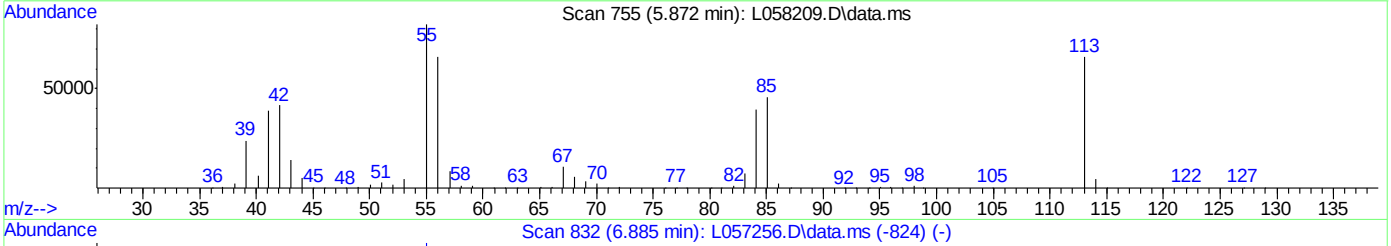
Ion	Exp%	Act%
88.00	100	100
58.00	59.50	61.08
43.00	25.30	25.55
0.00	0.00	0.00

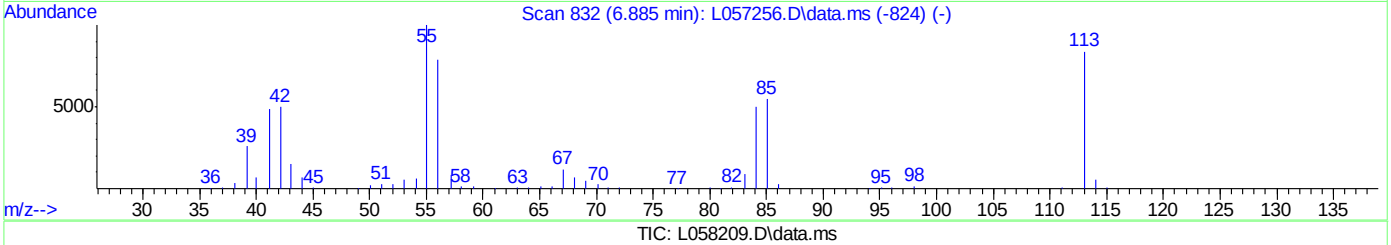
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(37) Caprolactam (P)

5.872min (+0.040) 68.13ppm

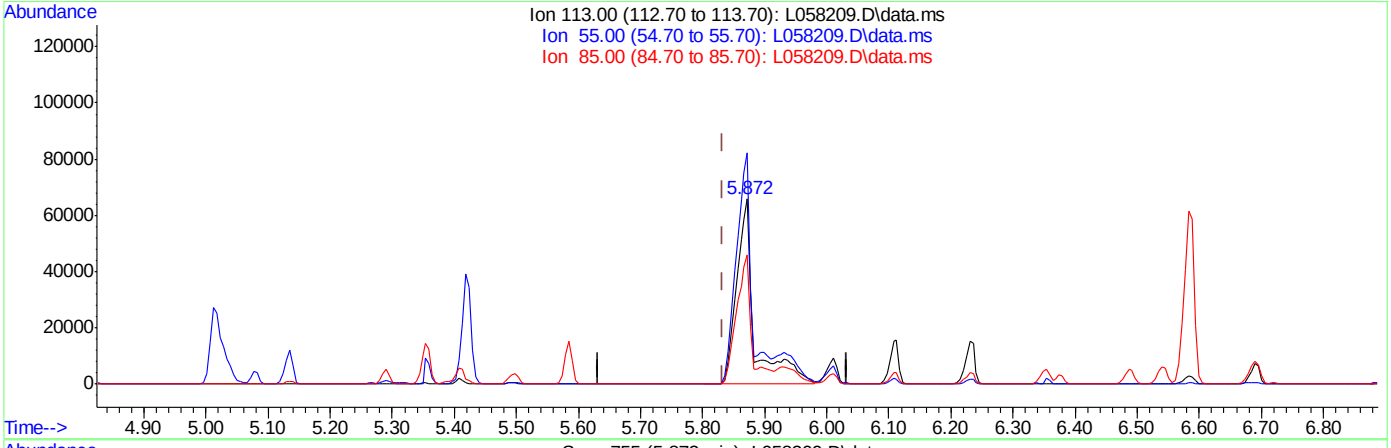
response 103819

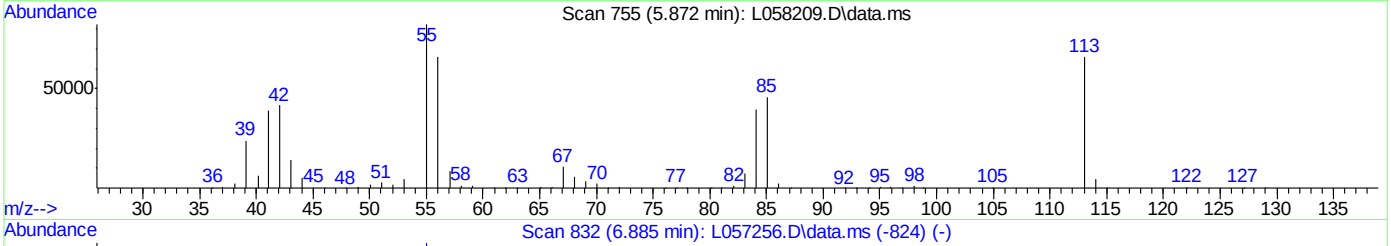
Ion	Exp%	Act%
113.00	100	100
55.00	119.40	125.42
85.00	65.20	70.17
0.00	0.00	0.00

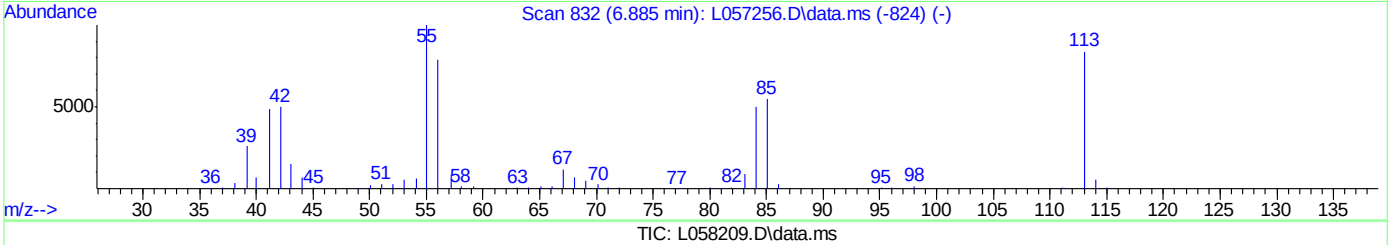
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(37) Caprolactam (P)

5.872min (+0.040) 89.81ppm m

response 136852

Ion	Exp%	Act%
113.00	100	100
55.00	119.40	125.19
85.00	65.20	69.82
0.00	0.00	0.00

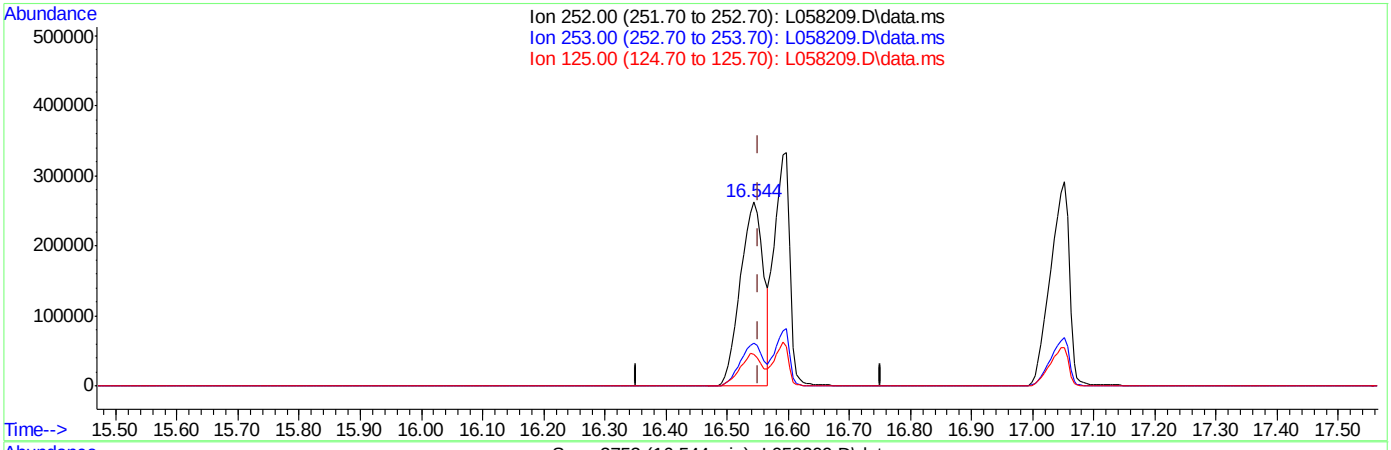
9.8.7.5

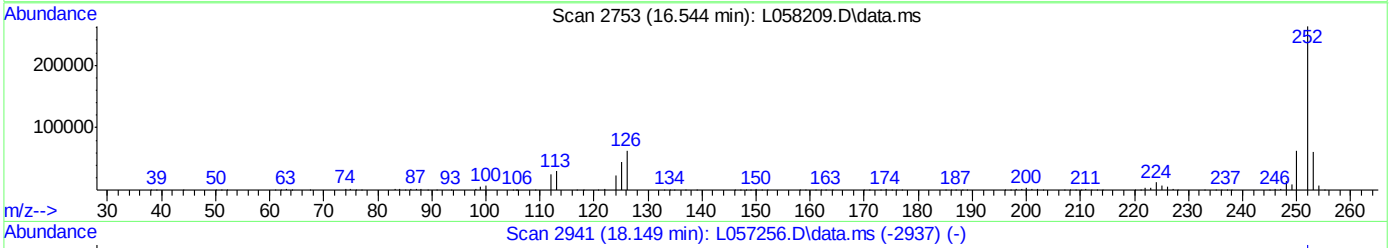
9

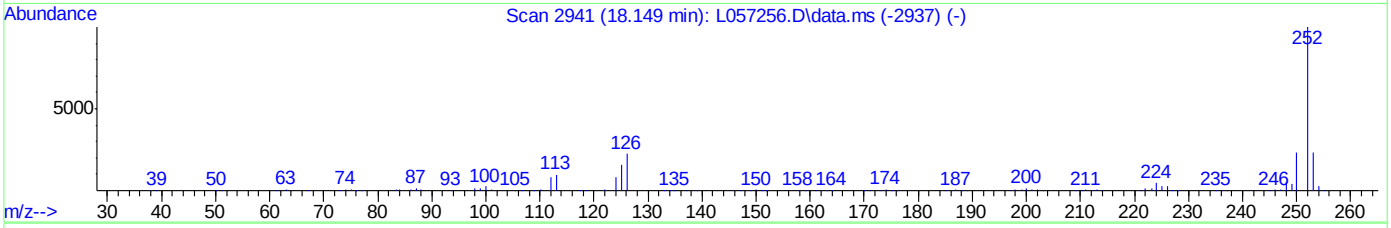
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.544min (-0.009) 100.10ppm

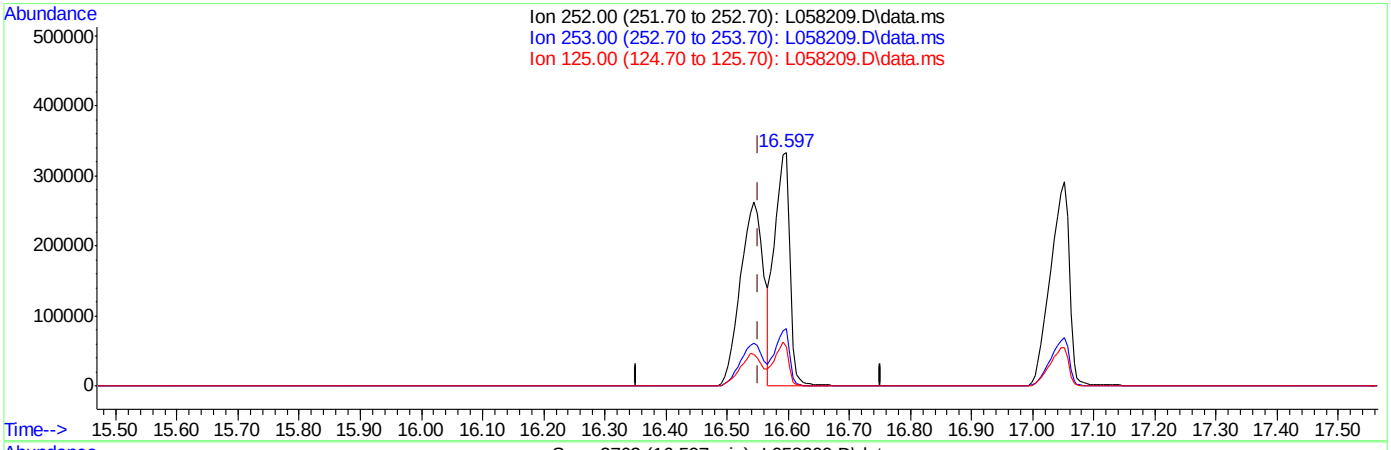
response 685587

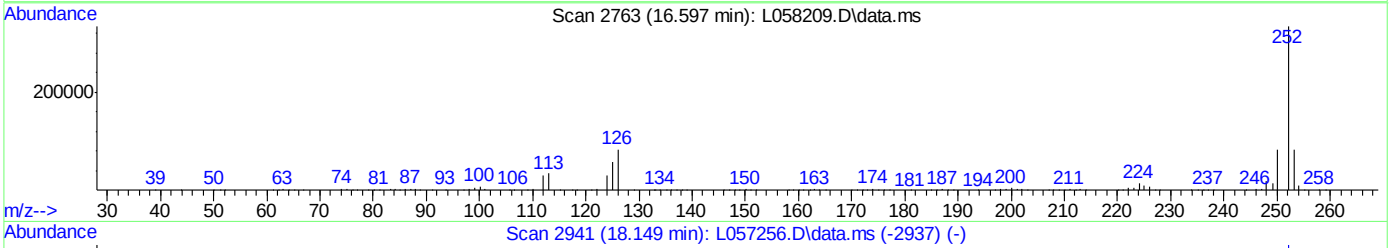
Ion	Exp%	Act%
252.00	100	100
253.00	22.60	23.69
125.00	15.90	17.23
0.00	0.00	0.00

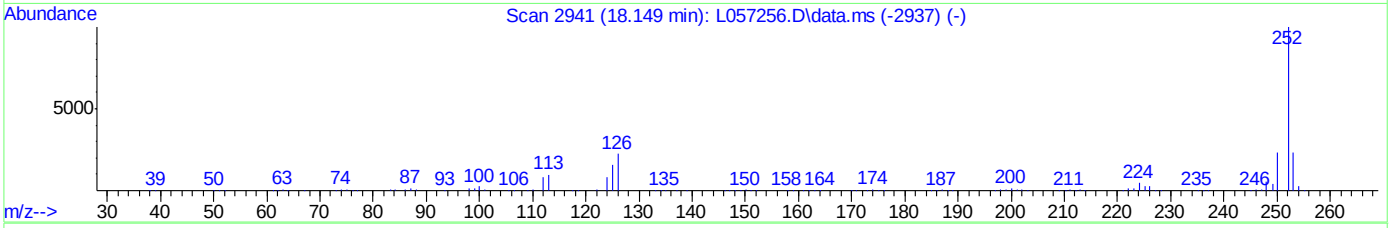
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058209.D
Acq On : 13 Jul 2012 4:47 pm
Operator : nancyf
Sample : ic2973-100
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 16 08:42:18 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:31:22 2012
Response via : Initial Calibration







TIC: L058209.D\data.ms

(95) Benzo[k]fluoranthene (P)

16.597min (+0.045) 87.12ppm m

response 596670

Ion	Exp%	Act%
252.00	100	100
253.00	22.60	24.45
125.00	15.90	17.16
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/16/12 14:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.369	152	129253	40.00 ppm	0.00
22) Naphthalene-d8	5.389	136	453053	40.00 ppm	0.00
42) Acenaphthene-d10	7.462	164	258401	40.00 ppm	0.00
68) Phenanthrene-d10	9.812	188	381045	40.00 ppm	0.00
83) Chrysene-d12	14.651	240	289480	40.00 ppm	0.00
92) Perylene-d12	17.129	264	241181	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery	= 0.00%#	
9) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery	= 0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery	= 0.00%#	
72) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery	= 0.00%#	
86) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery	= 0.00%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.912	88	108438	45.39 ppm		95
3) N-nitrosodimethylamine	2.270	42	100603	47.86 ppm		99
5) Benzaldehyde	4.054	106	172608	52.80 ppm		96
8) bis(2-Chloroethyl)ether	4.214	93	213250	44.99 ppm		92
10) Phenol	4.182	94	285854	43.34 ppm		97
11) 2-Chlorophenol	4.246	128	228046	45.57 ppm		96
12) 1,3-Dichlorobenzene	4.342	146	241978	45.38 ppm		98
13) 1,4-Dichlorobenzene	4.385	146	239861	45.99 ppm		99
14) 1,2-Dichlorobenzene	4.519	146	235295	46.76 ppm		99
16) bis(2-chloroisopropyl)...	4.609	45	242960	45.55 ppm		87
17) 2-Methylphenol	4.609	108	198384	43.03 ppm		98
18) Acetophenone	4.690	105	306769	45.92 ppm		98
19) Hexachloroethane	4.743	117	99814	47.27 ppm		94
20) N-Nitroso-di-n-propyla...	4.716	70	149077	43.38 ppm		98
21) 3&4-Methylphenol	4.722	108	380431	89.79 ppm		98
24) Nitrobenzene	4.818	77	237805	48.54 ppm		99
26) 2-Nitrophenol	5.074	139	135869	50.72 ppm		93
27) 2,4-Dimethylphenol	5.128	107	194600	41.25 ppm		99
28) bis(2-Chloroethoxy)met...	5.202	93	260161	48.24 ppm		100
29) Benzoic Acid	5.314	105	391461	94.40 ppm		96
30) 2,4-Dichlorophenol	5.288	162	182481	47.50 ppm		98
31) 1,2,4-Trichlorobenzene	5.352	180	190559	45.65 ppm		100
33) Naphthalene	5.405	128	550210	51.27 ppm		98
35) 2,6-Dichlorophenol	5.491	162	179951	47.31 ppm		98
36) Hexachlorobutadiene	5.582	225	109092	49.67 ppm		98
37) Caprolactam	5.838	113	75519m	47.63 ppm		
38) 4-Chloro-3-methylphenol	5.998	107	194349	46.98 ppm	#	99
40) 1-Methylnaphthalene	6.228	142	370671	47.43 ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration

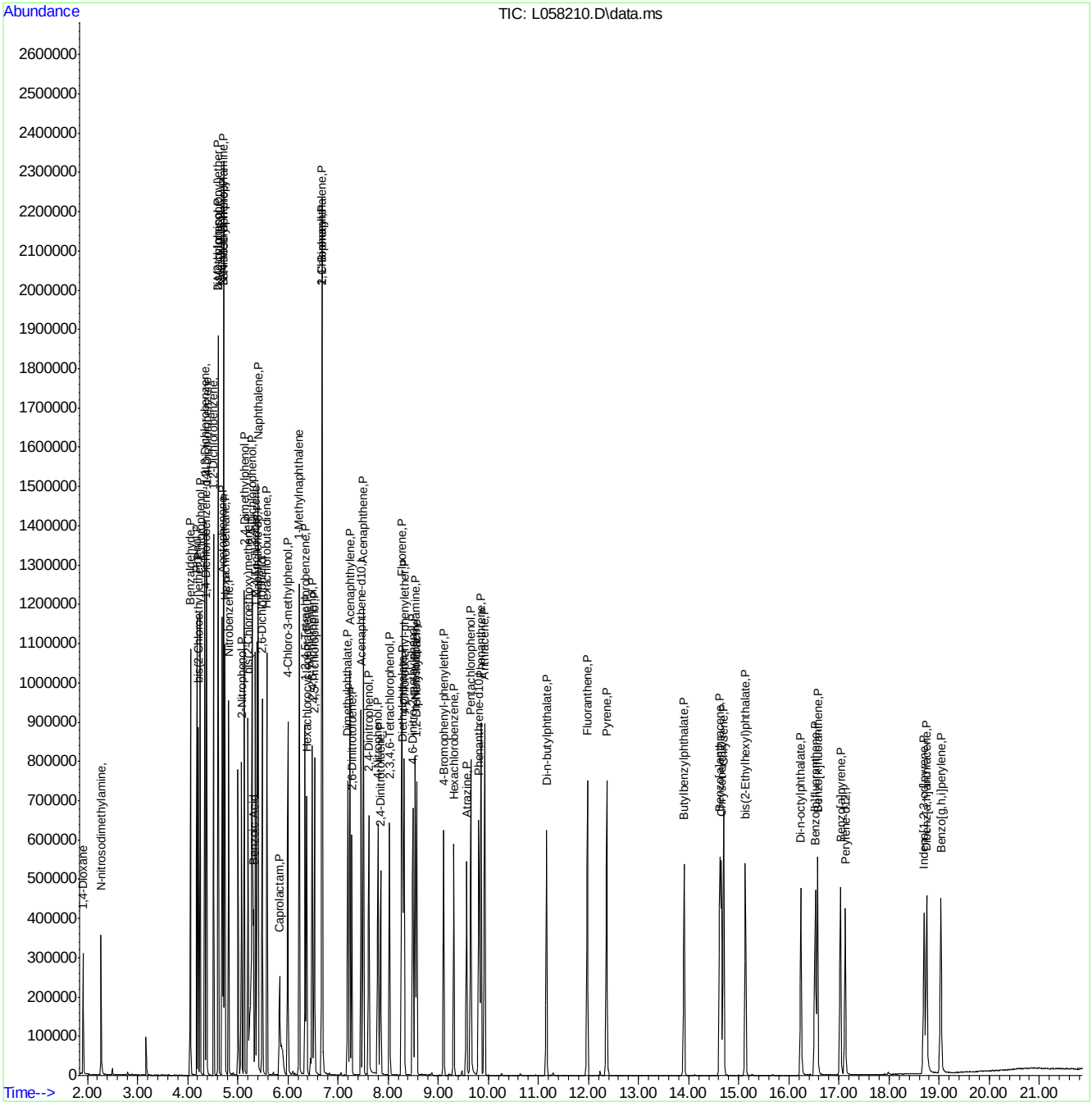
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,2,4,5-Tetrachloroben...	6.351	216	177908	44.43	ppm	99
43) Hexachlorocyclopentadiene	6.377	237	121918	53.07	ppm	99
44) 2,4,6-Trichlorophenol	6.484	196	126285	47.09	ppm	98
45) 2,4,5-Trichlorophenol	6.532	196	131055	46.55	ppm	100
47) 1,1'-Biphenyl	6.682	154	416587	48.27	ppm	100
48) 2-Chloronaphthalene	6.682	162	336689	45.23	ppm	100
51) Acenaphthylene	7.237	152	537049	44.23	ppm	100
52) Dimethylphthalate	7.200	163	399992	47.58	ppm	99
54) 2,6-Dinitrotoluene	7.280	165	96925	44.85	ppm	98
56) Acenaphthene	7.510	153	347917	45.95	ppm	99
58) 2,4-Dinitrophenol	7.616	184	126228	84.31	ppm	95
60) 2,4-Dinitrotoluene	7.851	165	126126	44.84	ppm	92
61) 4-Nitrophenol	7.803	109	106596	91.00	ppm	94
63) 2,3,4,6-Tetrachlorophenol	8.028	232	99816	45.67	ppm	99
64) Fluorene	8.279	166	380278	44.14	ppm	100
65) 4-Chlorophenyl-phenyle...	8.321	204	183676	46.15	ppm	98
66) Diethylphthalate	8.295	149	361525	45.19	ppm	99
69) 4,6-Dinitro-2-methylph...	8.498	198	165740	106.91	ppm	59
70) n-Nitrosodiphenylamine	8.540	169	263104	46.24	ppm	98
71) 1,2-Diphenylhydrazine	8.573	77	412080	48.97	ppm	98
73) 4-Bromophenyl-phenylether	9.112	248	106504	49.39	ppm	98
74) Hexachlorobenzene	9.315	284	107399	46.52	ppm	98
76) Atrazine	9.571	200	98434	46.27	ppm	95
77) Pentachlorophenol	9.651	266	143354	95.79	ppm	98
78) Phenanthrene	9.854	178	462951	46.40	ppm	100
79) Anthracene	9.929	178	467632	45.63	ppm	99
81) Di-n-butylphthalate	11.163	149	525310	45.73	ppm	99
82) Fluoranthene	11.980	202	446482	43.49	ppm	100
85) Pyrene	12.365	202	457000	48.84	ppm	99
87) Butylbenzylphthalate	13.908	149	212849	48.78	ppm	95
89) Benzo[a]anthracene	14.624	228	383416	47.69	ppm	99
90) Chrysene	14.699	228	339182	47.53	ppm	99
91) bis(2-Ethylhexyl)phtha...	15.131	149	270697	48.35	ppm	100
93) Di-n-octylphthalate	16.242	149	435422	48.89	ppm	99
94) Benzo[b]fluoranthene	16.531	252	342648	47.58	ppm	99
95) Benzo[k]fluoranthene	16.573	252	332471	47.43	ppm	98
96) Benzo[a]pyrene	17.033	252	308479	44.96	ppm	97
97) Indeno[1,2,3-cd]pyrene	18.699	276	277807	49.54	ppm	97
98) Dibenz[a,h]anthracene	18.753	278	288656	51.37	ppm	99
99) Benzo[g,h,i]perylene	19.036	276	296385	49.82	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On : 13 Jul 2012 5:16 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 16 09:07:25 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SL2973-ICV2973	**Method:**	SW846 8270D
Lab FileID:	L058210.D	**Analyst approved:**	07/16/12 10:08 Nancy Filiault
Injection Time:	07/13/12 17:16	**Supervisor approved:**	07/16/12 14:28 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.84	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On    : 13 Jul 2012   5:16 pm
Operator  : nancyf
Sample    : icv2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jul 16 08:52:44 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration
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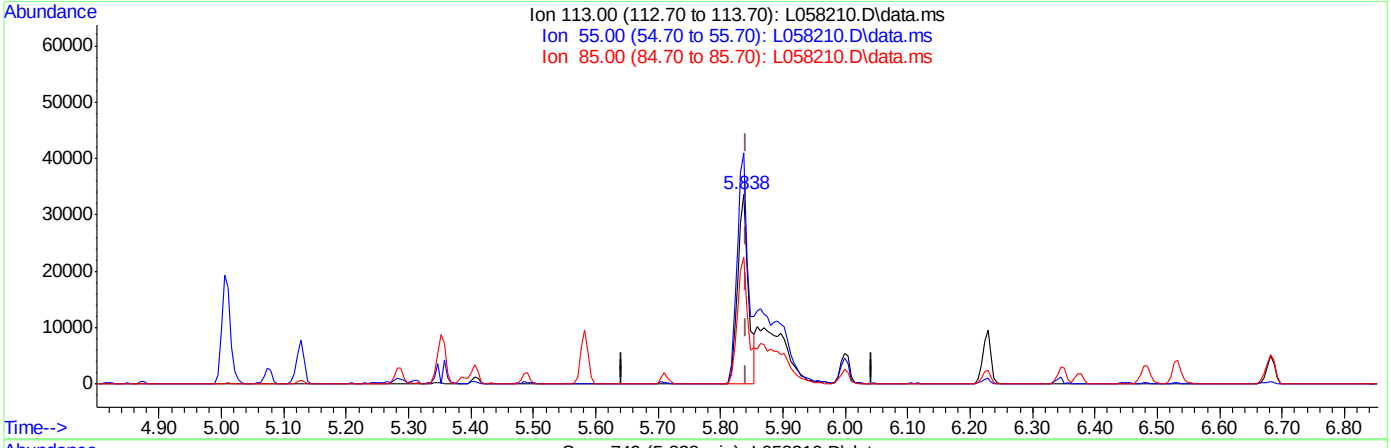
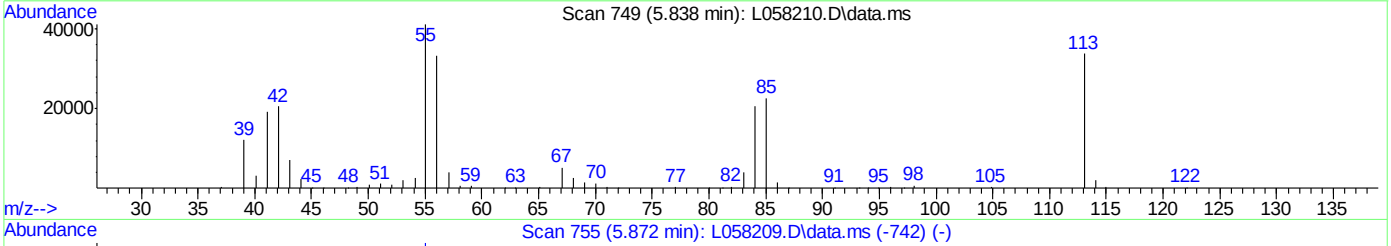
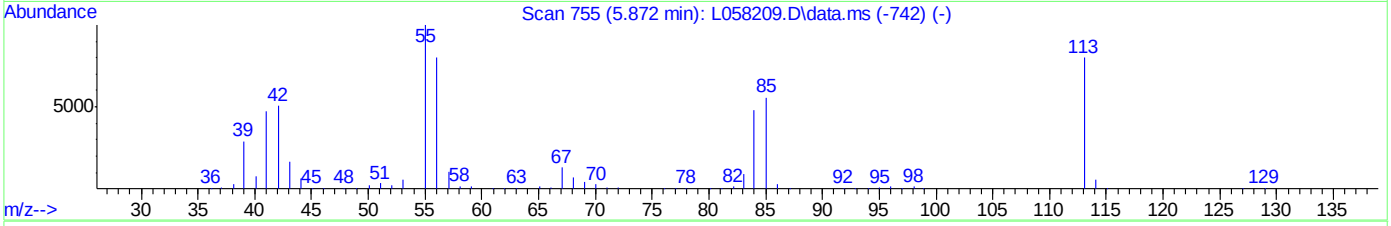






TIC: L058210.D\data.ms

(37) Caprolactam (P)

5.838min (-0.004) 26.73ppm

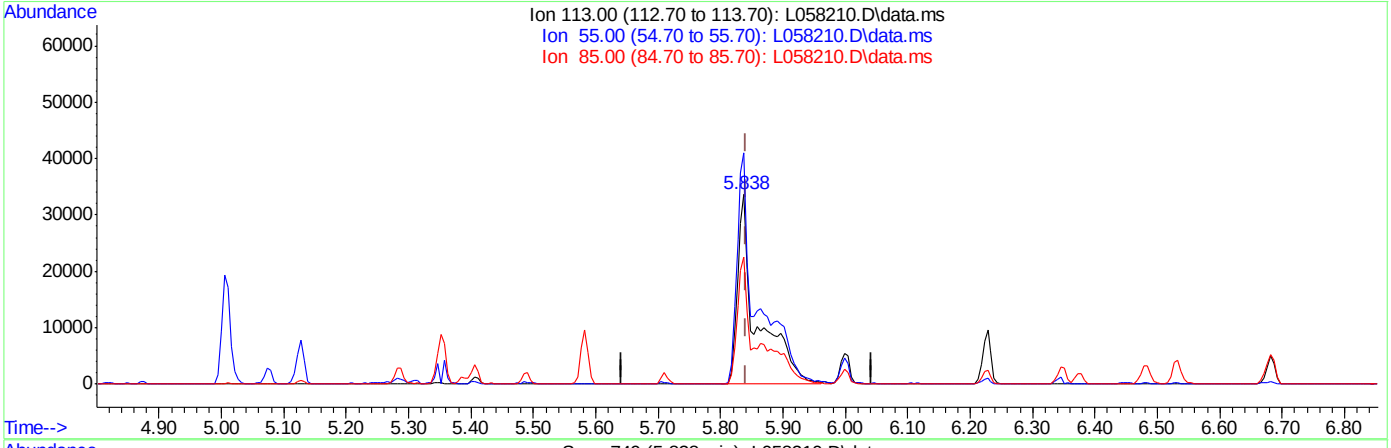
response 42382

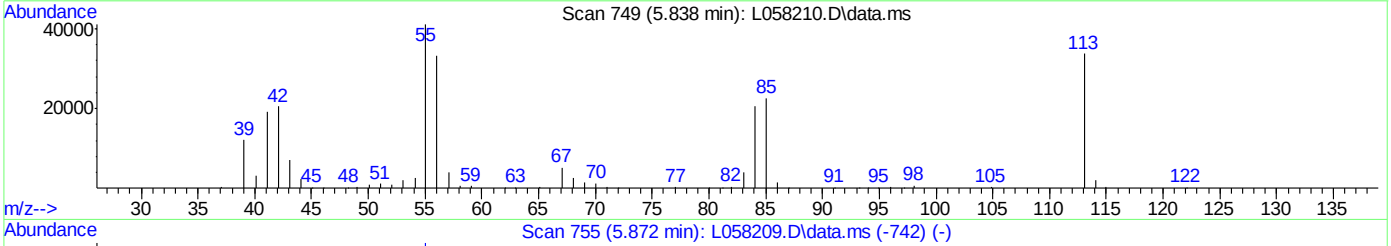
Ion	Exp%	Act%
113.00	100	100
55.00	126.00	119.99
85.00	69.20	66.04
0.00	0.00	0.00

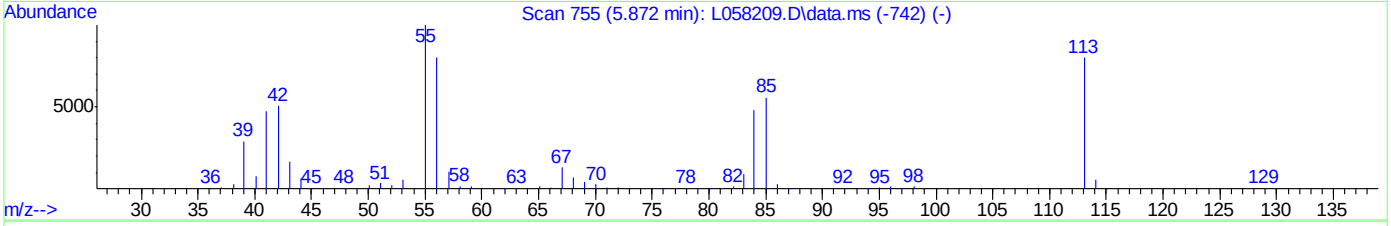
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058210.D
Acq On    : 13 Jul 2012   5:16 pm
Operator  : nancyf
Sample    : icv2973-50
Misc      : op42019,sl2973,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jul 16 09:05:30 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 09:05:22 2012
Response via : Initial Calibration
```







TIC: L058210.D\data.ms

(37) Caprolactam (P)

5.838min (-0.004) 47.63ppm m

response 75519

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	121.94
85.00	69.20	66.97
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058211.D
Acq On : 13 Jul 2012 5:45 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 08:59:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.367	152	123003	40.00 ppm	0.00
22) Naphthalene-d8	5.382	136	436376	40.00 ppm	0.00
42) Acenaphthene-d10	7.460	164	245885	40.00 ppm	0.00
68) Phenanthrene-d10	9.804	188	388482	40.00 ppm	-0.01
83) Chrysene-d12	14.643	240	341243	40.00 ppm	-0.01
92) Perylene-d12	17.122	264	290768	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery =	0.00%#	
9) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery =	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery =	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery =	0.00%#	
72) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery =	0.00%#	
86) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery =	0.00%#	

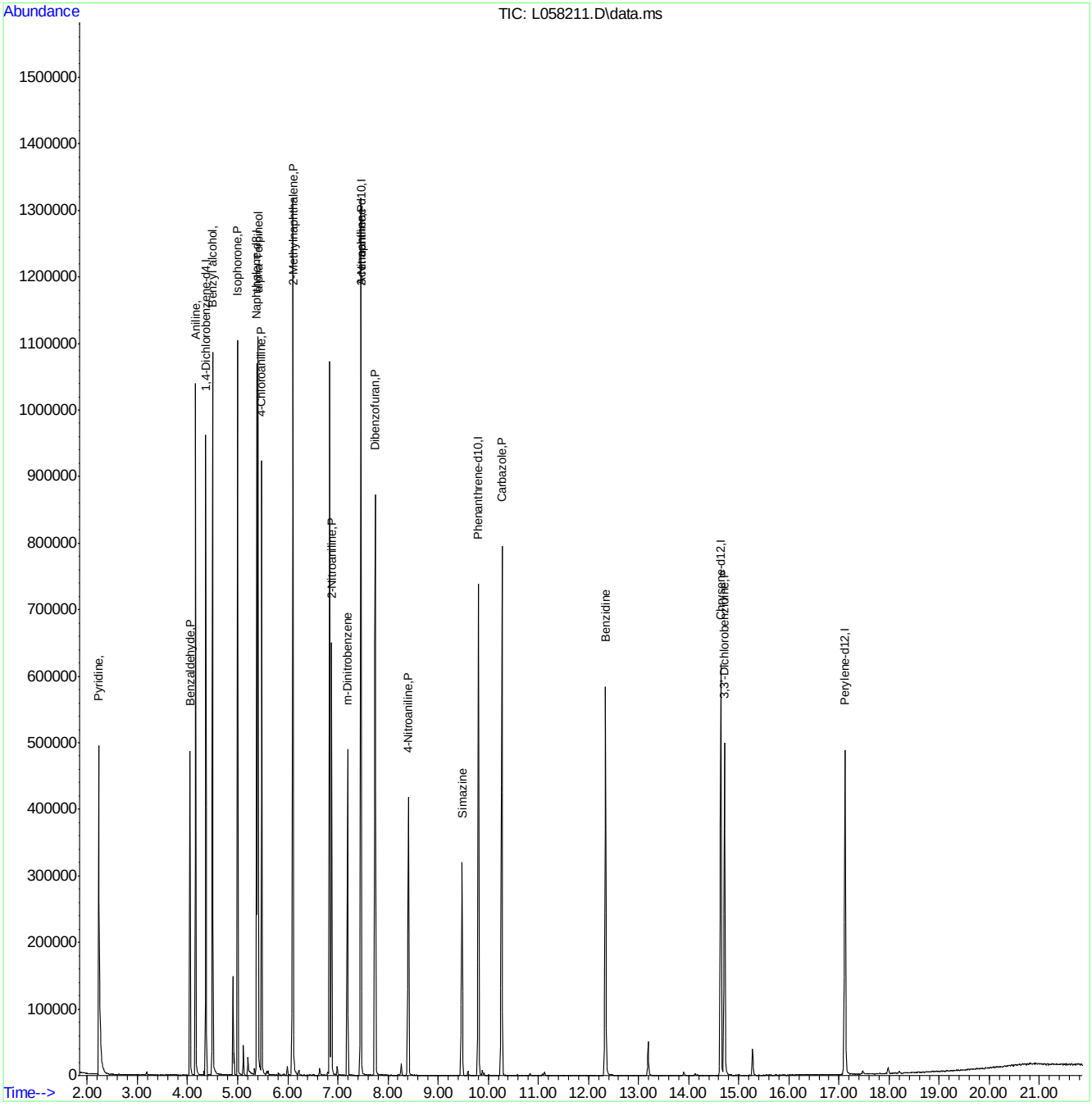
Target Compounds						Qvalue
4) Pyridine	2.225	79	262605	48.74 ppm		99
5) Benzaldehyde	4.052	106	88158	23.39 ppm		95
6) Aniline	4.164	93	332137	44.96 ppm		85
15) Benzyl alcohol	4.501	108	158299	46.72 ppm		95
25) Isophorone	4.997	82	383196	45.01 ppm		99
32) alpha-Terpineol	5.409	59	144677	46.09 ppm		95
34) 4-Chloroaniline	5.484	127	258275	47.96 ppm		99
39) 2-Methylnaphthalene	6.103	142	388002	48.66 ppm		99
49) 2-Nitroaniline	6.878	65	120715	49.74 ppm		97
53) m-Dinitrobenzene	7.193	168	76807	50.03 ppm	#	73
57) 3-Nitroaniline	7.465	138	112468	47.59 ppm		96
59) Dibenzofuran	7.743	168	475183	47.80 ppm		97
67) 4-Nitroaniline	8.410	138	118704	51.52 ppm		93
75) Simazine	9.479	201	46139	37.87 ppm		93
80) Carbazole	10.274	167	492757	47.34 ppm		100
84) Benzidine	12.341	184	343234	51.37 ppm		99
88) 3,3'-Dichlorobenzidine	14.718	252	174119	47.57 ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\071312a\
Data File : L058211.D
Acq On : 13 Jul 2012 5:45 pm
Operator : nancyf
Sample : icv2973-50
Misc : op42019,sl2973,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 16 08:59:07 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 16 08:52:32 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/31/12 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On : 30 Jul 2012 11:29 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:03:46 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.267	152	126796	40.00	ppm	0.00
22) Naphthalene-d8	5.261	136	436772	40.00	ppm	0.00
42) Acenaphthene-d10	7.296	164	249557	40.00	ppm	0.00
68) Phenanthrene-d10	9.625	188	371043	40.00	ppm	0.00
83) Chrysene-d12	14.453	240	296591	40.00	ppm	0.00
92) Perylene-d12	16.926	264	258058	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.354	112	437369	95.77	ppm	-0.02
Spiked Amount 100.000	Range 14 - 62		Recovery = 95.77%#			
9) Phenol-d5	4.086	99	518989	105.71	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 105.71%#			
23) Nitrobenzene-d5	4.695	82	256312	52.69	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 105.38%			
46) 2-Fluorobiphenyl	6.431	172	434029	50.66	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 101.32%			
72) 2,4,6-Tribromophenol	8.530	330	115473	112.47	ppm	-0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 112.47%			
86) Terphenyl-d14	12.626	244	353698	52.85	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 105.70%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.752	88	122398	52.23	ppm	96
3) N-nitrosodimethylamine	2.115	42	105657	51.23	ppm	98
4) Pyridine	2.099	79	277992	50.05	ppm	97
5) Benzaldehyde	3.947	106	166318	51.32	ppm	98
6) Aniline	4.059	93	366129	48.08	ppm	87
8) bis(2-Chloroethyl)ether	4.113	93	223004	47.96	ppm	91
10) Phenol	4.097	94	293223	45.32	ppm	90
11) 2-Chlorophenol	4.145	128	242025	49.30	ppm	99
12) 1,3-Dichlorobenzene	4.235	146	260538	49.80	ppm	98
13) 1,4-Dichlorobenzene	4.278	146	253985	49.64	ppm	99
14) 1,2-Dichlorobenzene	4.412	146	245164	49.67	ppm	99
15) Benzyl alcohol	4.401	108	173083	49.55	ppm	99
16) bis(2-chloroisopropyl)...	4.508	45	261908	50.97	ppm	93
17) 2-Methylphenol	4.513	108	221767	49.04	ppm	99
18) Acetophenone	4.588	105	303079	46.25	ppm	99
19) Hexachloroethane	4.631	117	105603	50.98	ppm	92
20) N-Nitroso-di-n-propyla...	4.615	70	163628	48.54	ppm	99
21) 3&4-Methylphenol	4.620	108	228258	50.40	ppm	99
24) Nitrobenzene	4.711	77	245788	52.04	ppm	97
25) Isophorone	4.898	82	440152	51.65	ppm	100
26) 2-Nitrophenol	4.962	139	142636	55.23	ppm	98
27) 2,4-Dimethylphenol	5.021	107	244053	53.66	ppm	98
28) bis(2-Chloroethoxy)met...	5.085	93	270139	51.96	ppm	99
29) Benzoic Acid	5.186	105	224071	56.05	ppm	98
30) 2,4-Dichlorophenol	5.165	162	195530	52.79	ppm	97
31) 1,2,4-Trichlorobenzene	5.229	180	216808	53.88	ppm	98
33) Naphthalene	5.277	128	578637	56.92	ppm	98
34) 4-Chloroaniline	5.362	127	277123	51.41	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On : 30 Jul 2012 11:29 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:03:46 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.368	162	198989	54.27 ppm		99
36) Hexachlorobutadiene	5.453	225	118079	55.76 ppm		98
37) Caprolactam	5.720	113	75374m	49.31 ppm		
38) 4-Chloro-3-methylphenol	5.875	107	207022	51.90 ppm	#	98
39) 2-Methylnaphthalene	5.961	142	412850	51.73 ppm		99
40) 1-Methylnaphthalene	6.078	142	394501	52.36 ppm		99
41) 1,2,4,5-Tetrachloroben...	6.201	216	207574	53.77 ppm		99
43) Hexachlorocyclopentadiene	6.228	237	128082	57.73 ppm		98
44) 2,4,6-Trichlorophenol	6.340	196	137837	53.22 ppm		98
45) 2,4,5-Trichlorophenol	6.393	196	142905	52.56 ppm		99
47) 1,1'-Biphenyl	6.532	154	432496	52.76 ppm		99
48) 2-Chloronaphthalene	6.532	162	374715	52.12 ppm		99
49) 2-Nitroaniline	6.724	65	127116	51.61 ppm		91
50) p-Dinitrobenzene	6.890	75	89883	52.89 ppm		97
51) Acenaphthylene	7.077	152	586268	50.00 ppm		99
52) Dimethylphthalate	7.050	163	405228	49.91 ppm		99
53) m-Dinitrobenzene	7.045	168	79724	51.16 ppm	#	70
54) 2,6-Dinitrotoluene	7.125	165	107322	51.42 ppm		91
55) o-Dinitrobenzene	7.210	50	57980	51.62 ppm		93
56) Acenaphthene	7.349	153	379518	51.90 ppm		99
57) 3-Nitroaniline	7.312	138	125323	52.25 ppm		97
58) 2,4-Dinitrophenol	7.461	184	74458	54.06 ppm		96
59) Dibenzofuran	7.579	168	509528	50.50 ppm		92
60) 2,4-Dinitrotoluene	7.696	165	140421	51.69 ppm		100
61) 4-Nitrophenol	7.654	109	56958	50.35 ppm		90
62) 2,3,5,6-Tetrachlorophenol	7.793	232	114965	52.70 ppm		97
63) 2,3,4,6-Tetrachlorophenol	7.862	232	109864	52.05 ppm		99
64) Fluorene	8.102	166	427262	51.35 ppm		100
65) 4-Chlorophenyl-phenyle...	8.150	204	198485	51.64 ppm		98
66) Diethylphthalate	8.129	149	389699	50.44 ppm		100
67) 4-Nitroaniline	8.263	138	114799	49.09 ppm		95
69) 4,6-Dinitro-2-methylph...	8.337	198	87825	58.18 ppm		64
70) n-Nitrosodiphenylamine	8.375	169	353337	63.77 ppm		98
71) 1,2-Diphenylhydrazine	8.396	77	450987	55.04 ppm		99
73) 4-Bromophenyl-phenylether	8.930	248	116077	55.29 ppm		99
74) Hexachlorobenzene	9.133	284	122839	54.64 ppm		99
75) Simazine	9.325	201	41319	35.51 ppm		95
76) Atrazine	9.406	200	103724	50.07 ppm		95
77) Pentachlorophenol	9.475	266	82972	56.93 ppm		95
78) Phenanthrene	9.667	178	499977	51.47 ppm		99
79) Anthracene	9.742	178	519298	52.03 ppm		100
80) Carbazole	10.089	167	503474	50.65 ppm		99
81) Di-n-butylphthalate	10.981	149	572395	51.17 ppm		99
82) Fluoranthene	11.782	202	505687	50.58 ppm		98
84) Benzidine	12.151	184	268597	46.25 ppm		99
85) Pyrene	12.167	202	494958	51.63 ppm		99
87) Butylbenzylphthalate	13.721	149	233527	52.24 ppm		97
88) 3,3'-Dichlorobenzidine	14.528	252	175697	55.23 ppm		97
89) Benzo[a]anthracene	14.426	228	436389	52.98 ppm		99
90) Chrysene	14.501	228	386615	52.88 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On : 30 Jul 2012 11:29 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:03:46 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration

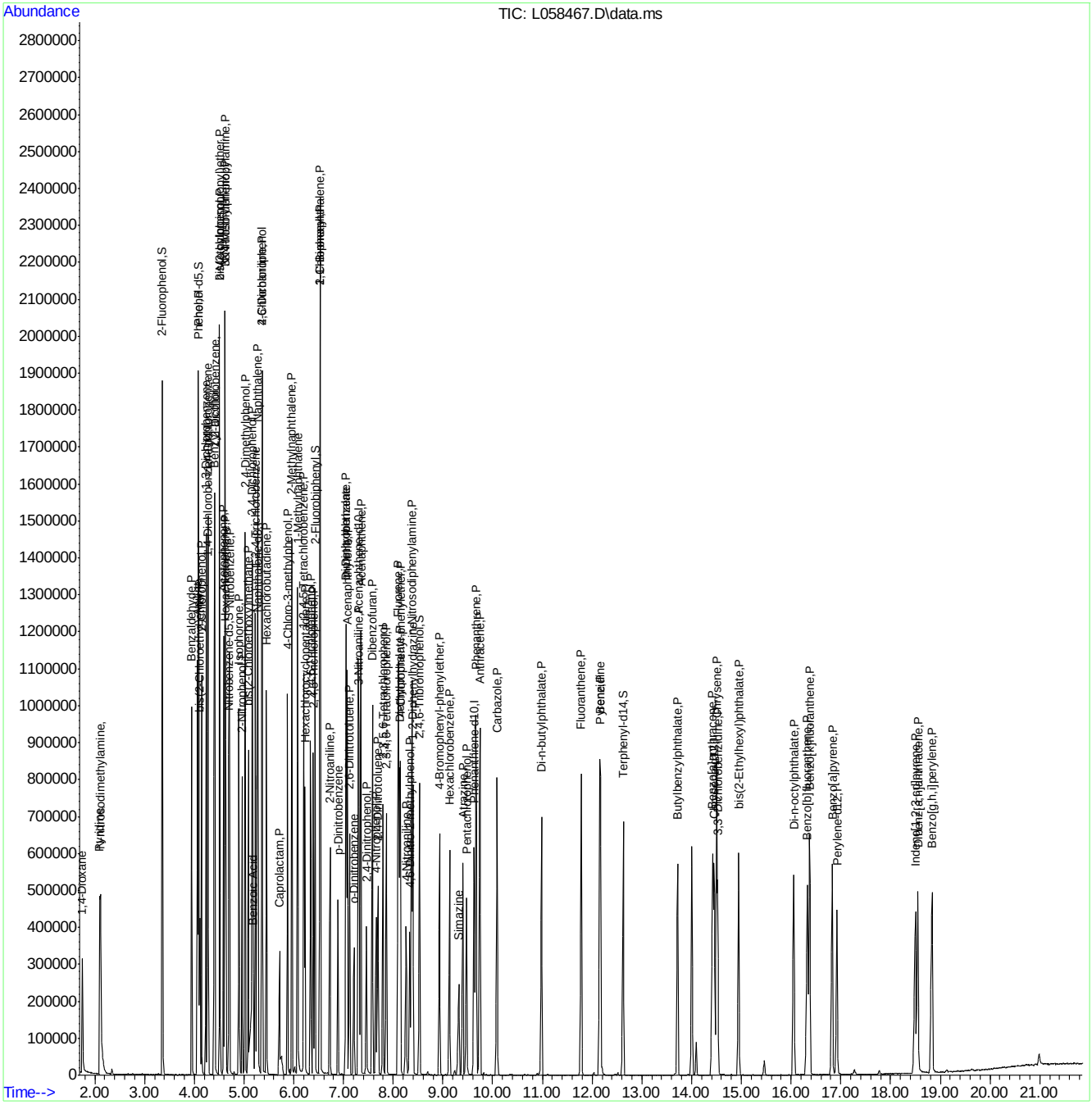
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	14.944	149	305619	53.27 ppm	99
93) Di-n-octylphthalate	16.055	149	498384	52.30 ppm	99
94) Benzo[b]fluoranthene	16.328	252	426279	55.32 ppm	99
95) Benzo[k]fluoranthene	16.376	252	377291	50.31 ppm	99
96) Benzo[a]pyrene	16.830	252	390468	53.18 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.501	276	328187	54.70 ppm	99
98) Dibenz[a,h]anthracene	18.555	278	331971	55.22 ppm	99
99) Benzo[g,h,i]perylene	18.838	276	337186	52.98 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On : 30 Jul 2012 11:29 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2984,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 15:03:46 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SL2984-CC2973	**Method:**	SW846 8270D
Lab FileID:	L058467.D	**Analyst approved:**	07/31/12 08:57 Nancy Filiault
Injection Time:	07/30/12 11:29	**Supervisor approved:**	07/31/12 09:58 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.72	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On    : 30 Jul 2012  11:29 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2984,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 30 15:03:14 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration
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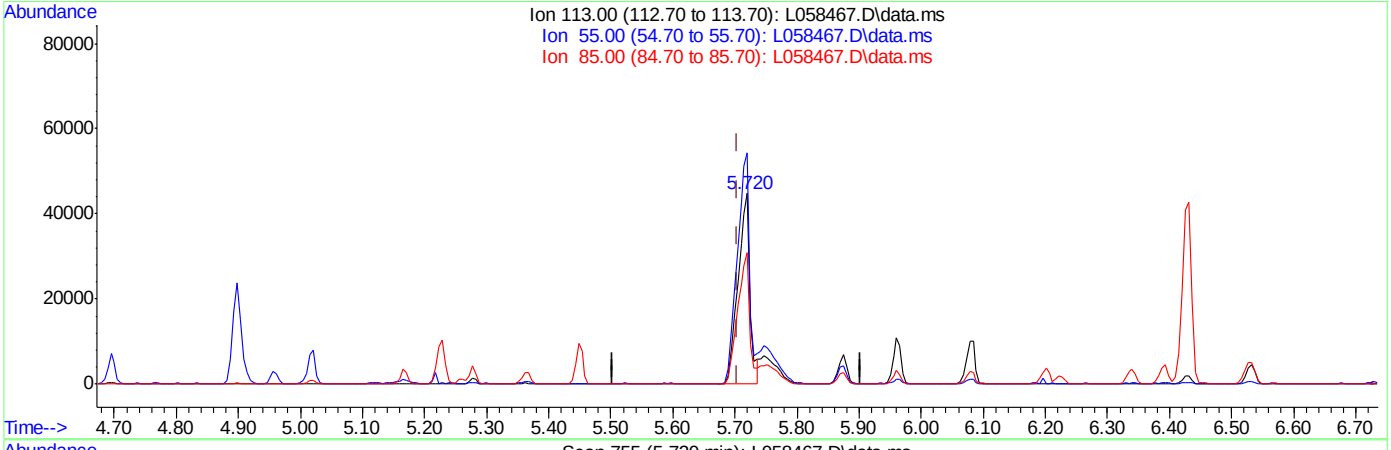

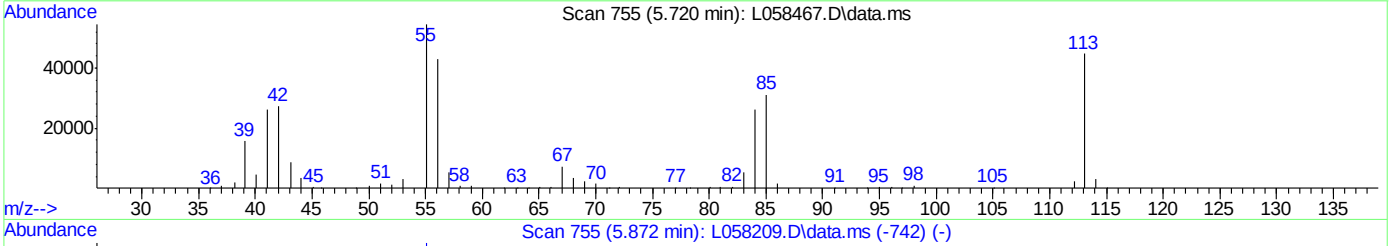

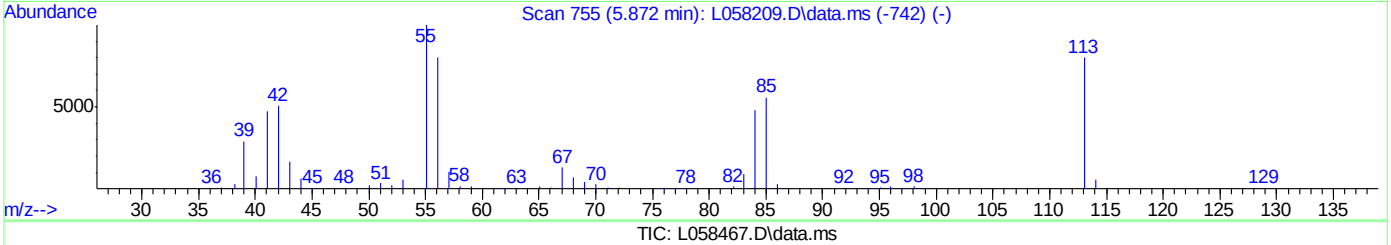

TIC: L058467.D\data.ms

(37) Caprolactam (P)

5.720min (+0.017) 40.89ppm

response 62507

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	121.31
85.00	69.20	69.67
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073012\
Data File : L058467.D
Acq On    : 30 Jul 2012  11:29 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2984,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 30 15:03:14 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Jul 30 15:03:08 2012
Response via : Initial Calibration
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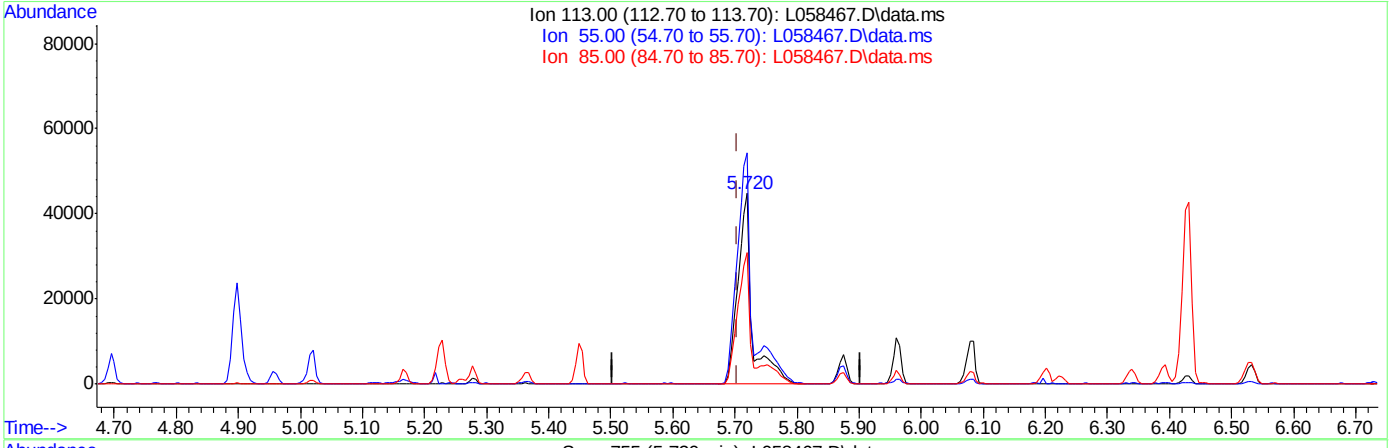
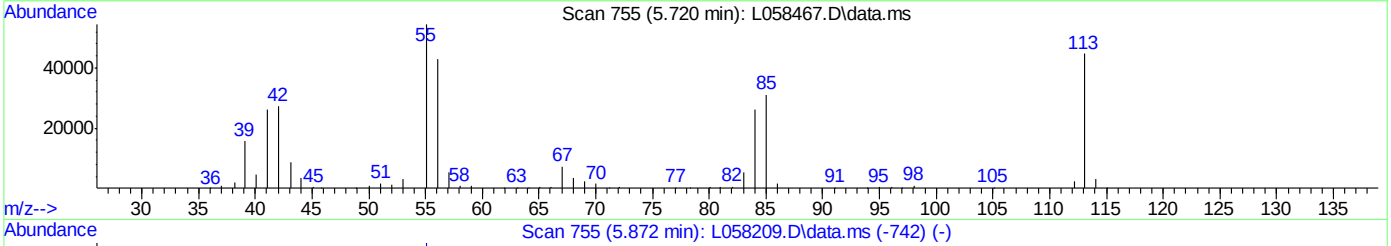
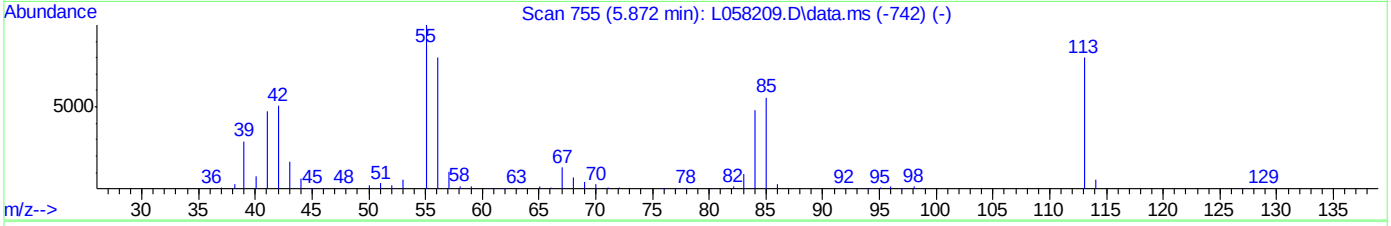






TIC: L058467.D\data.ms

(37) Caprolactam (P)

5.720min (+0.017) 49.31ppm m

response 75374

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	121.62
85.00	69.20	69.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/31/12 13:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On : 31 Jul 2012 9:50 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 11:24:55 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.254	152	117115	40.00	ppm	0.00
22) Naphthalene-d8	5.248	136	417298	40.00	ppm	0.00
42) Acenaphthene-d10	7.277	164	238045	40.00	ppm	0.00
68) Phenanthrene-d10	9.601	188	376602	40.00	ppm	0.00
83) Chrysene-d12	14.429	240	315852	40.00	ppm	0.00
92) Perylene-d12	16.902	264	268846	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.346	112	408896	96.94	ppm	-0.02
Spiked Amount 100.000	Range 14 - 62		Recovery = 96.94%#			
9) Phenol-d5	4.078	99	483190	106.70	ppm	0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 106.70%#			
23) Nitrobenzene-d5	4.682	82	233202	50.18	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.36%			
46) 2-Fluorobiphenyl	6.412	172	408390	49.97	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 99.94%			
72) 2,4,6-Tribromophenol	8.506	330	114597	109.97	ppm	-0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 109.97%			
86) Terphenyl-d14	12.597	244	368647	51.73	ppm	-0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 103.46%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.739	88	111122	51.34	ppm	96
3) N-nitrosodimethylamine	2.107	42	95212	49.99	ppm	99
4) Pyridine	2.086	79	249922	48.72	ppm	99
5) Benzaldehyde	3.934	106	148654	48.77	ppm	98
6) Aniline	4.051	93	334635	47.58	ppm	81
8) bis(2-Chloroethyl)ether	4.100	93	200049	46.58	ppm	91
10) Phenol	4.084	94	266767	44.64	ppm	95
11) 2-Chlorophenol	4.132	128	220665	48.67	ppm	99
12) 1,3-Dichlorobenzene	4.222	146	239794	49.63	ppm	97
13) 1,4-Dichlorobenzene	4.265	146	235609	49.86	ppm	99
14) 1,2-Dichlorobenzene	4.399	146	219771	48.20	ppm	98
15) Benzyl alcohol	4.388	108	157016	48.67	ppm	99
16) bis(2-chloroisopropyl)...	4.495	45	237221	49.79	ppm	93
17) 2-Methylphenol	4.500	108	204346	48.92	ppm	84
18) Acetophenone	4.575	105	274255	45.31	ppm	99
19) Hexachloroethane	4.618	117	92970	48.59	ppm	93
20) N-Nitroso-di-n-propyla...	4.607	70	148539	47.71	ppm	97
21) 3&4-Methylphenol	4.607	108	213257	51.05	ppm	96
24) Nitrobenzene	4.698	77	223497	49.53	ppm	98
25) Isophorone	4.885	82	405941	49.86	ppm	99
26) 2-Nitrophenol	4.943	139	131953	53.48	ppm	97
27) 2,4-Dimethylphenol	5.008	107	222862	51.28	ppm	100
28) bis(2-Chloroethoxy)met...	5.072	93	250513	50.43	ppm	100
29) Benzoic Acid	5.168	105	188770	49.42	ppm	98
30) 2,4-Dichlorophenol	5.152	162	184742	52.21	ppm	97
31) 1,2,4-Trichlorobenzene	5.210	180	199167	51.80	ppm	98
33) Naphthalene	5.264	128	544869	55.93	ppm	99
34) 4-Chloroaniline	5.349	127	262680	51.01	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On : 31 Jul 2012 9:50 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 11:24:55 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.355	162	186481	53.23 ppm		98
36) Hexachlorobutadiene	5.435	225	106355	52.57 ppm		97
37) Caprolactam	5.707	113	70691m	48.40 ppm		
38) 4-Chloro-3-methylphenol	5.862	107	196319	51.52 ppm	#	99
39) 2-Methylnaphthalene	5.948	142	393770	51.64 ppm		99
40) 1-Methylnaphthalene	6.065	142	368254	51.16 ppm		99
41) 1,2,4,5-Tetrachloroben...	6.183	216	195224	52.93 ppm		99
43) Hexachlorocyclopentadiene	6.209	237	108955	51.49 ppm		99
44) 2,4,6-Trichlorophenol	6.321	196	128802	52.14 ppm		99
45) 2,4,5-Trichlorophenol	6.375	196	135061	52.07 ppm		99
47) 1,1'-Biphenyl	6.514	154	406174	51.75 ppm		99
48) 2-Chloronaphthalene	6.508	162	354771	51.73 ppm		100
49) 2-Nitroaniline	6.706	65	118992	50.65 ppm		97
50) p-Dinitrobenzene	6.872	75	83738	51.65 ppm		97
51) Acenaphthylene	7.059	152	554158	49.55 ppm		99
52) Dimethylphthalate	7.032	163	386649	49.93 ppm		100
53) m-Dinitrobenzene	7.026	168	76809	51.68 ppm		99
54) 2,6-Dinitrotoluene	7.107	165	103330	51.90 ppm		95
55) o-Dinitrobenzene	7.192	50	51561	48.13 ppm		95
56) Acenaphthene	7.326	153	356970	51.18 ppm		99
57) 3-Nitroaniline	7.294	138	118704	51.89 ppm		97
58) 2,4-Dinitrophenol	7.438	184	53956	41.91 ppm		99
59) Dibenzofuran	7.555	168	486348	50.53 ppm		97
60) 2,4-Dinitrotoluene	7.678	165	135485	52.29 ppm		94
61) 4-Nitrophenol	7.635	109	54110	50.14 ppm		88
62) 2,3,5,6-Tetrachlorophenol	7.774	232	111320	53.50 ppm		98
63) 2,3,4,6-Tetrachlorophenol	7.844	232	107993	53.64 ppm		98
64) Fluorene	8.079	166	408679	51.49 ppm		100
65) 4-Chlorophenyl-phenyle...	8.127	204	188545	51.42 ppm		99
66) Diethylphthalate	8.105	149	372446	50.53 ppm		99
67) 4-Nitroaniline	8.244	138	114295	51.24 ppm		98
69) 4,6-Dinitro-2-methylph...	8.314	198	77424	50.53 ppm		59
70) n-Nitrosodiphenylamine	8.351	169	339665	60.40 ppm		100
71) 1,2-Diphenylhydrazine	8.378	77	424062	50.99 ppm		99
73) 4-Bromophenyl-phenylether	8.907	248	115262	54.09 ppm		96
74) Hexachlorobenzene	9.109	284	120792	52.93 ppm		98
75) Simazine	9.302	201	40276	34.10 ppm		94
76) Atrazine	9.387	200	103005	48.99 ppm		97
77) Pentachlorophenol	9.451	266	82446	55.74 ppm		95
78) Phenanthrene	9.644	178	502097	50.92 ppm		100
79) Anthracene	9.718	178	515195	50.86 ppm		99
80) Carbazole	10.066	167	505073	50.06 ppm		100
81) Di-n-butylphthalate	10.957	149	567344	49.97 ppm		100
82) Fluoranthene	11.759	202	517341	50.98 ppm		99
84) Benzidine	12.122	184	247110	39.96 ppm		99
85) Pyrene	12.138	202	511117	50.06 ppm		99
87) Butylbenzylphthalate	13.697	149	245236	51.51 ppm		98
88) 3,3'-Dichlorobenzidine	14.504	252	185949	54.89 ppm		99
89) Benzo[a]anthracene	14.397	228	459311	52.36 ppm		99
90) Chrysene	14.477	228	400342	51.42 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On : 31 Jul 2012 9:50 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 11:24:55 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) bis(2-Ethylhexyl)phtha...	14.921	149	320683	52.49 ppm	100
93) Di-n-octylphthalate	16.026	149	524370	52.82 ppm	99
94) Benzo[b]fluoranthene	16.304	252	422075	52.58 ppm	98
95) Benzo[k]fluoranthene	16.352	252	375350	48.04 ppm	98
96) Benzo[a]pyrene	16.806	252	400027	52.30 ppm	98
97) Indeno[1,2,3-cd]pyrene	18.472	276	334046	53.44 ppm	96
98) Dibenz[a,h]anthracene	18.526	278	336073	53.66 ppm	98
99) Benzo[g,h,i]perylene	18.809	276	342459	51.65 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

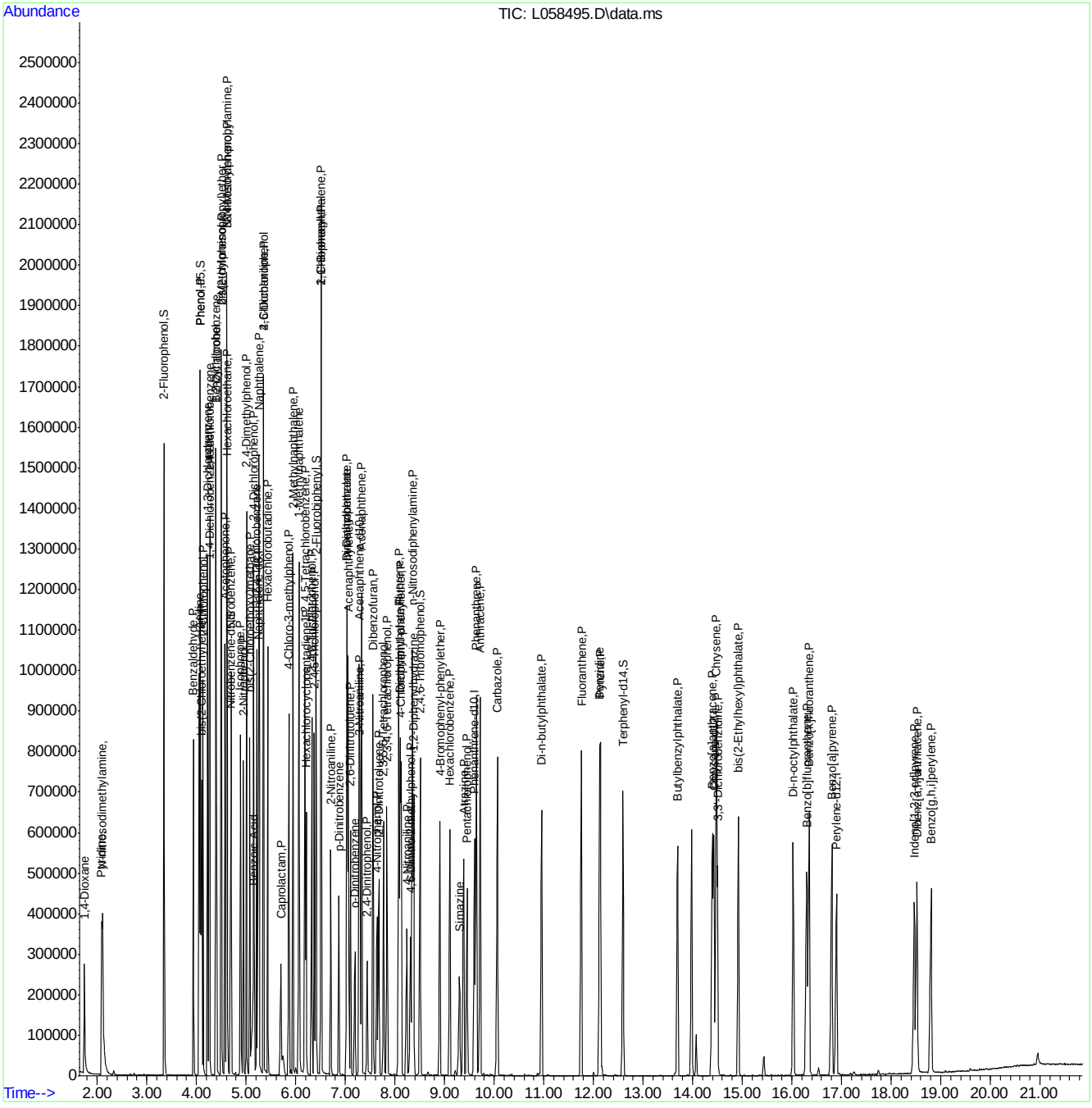
9.8.11

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On : 31 Jul 2012 9:50 am
Operator : nancyf
Sample : cc2973-50
Misc : op42019,sl2985,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 11:24:55 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SL2985-CC2973	**Method:**	SW846 8270D
Lab FileID:	L058495.D	**Analyst approved:**	07/31/12 13:26 Nancy Filiault
Injection Time:	07/31/12 09:50	**Supervisor approved:**	07/31/12 13:40 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.71	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On    : 31 Jul 2012   9:50 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2985,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 31 11:23:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration
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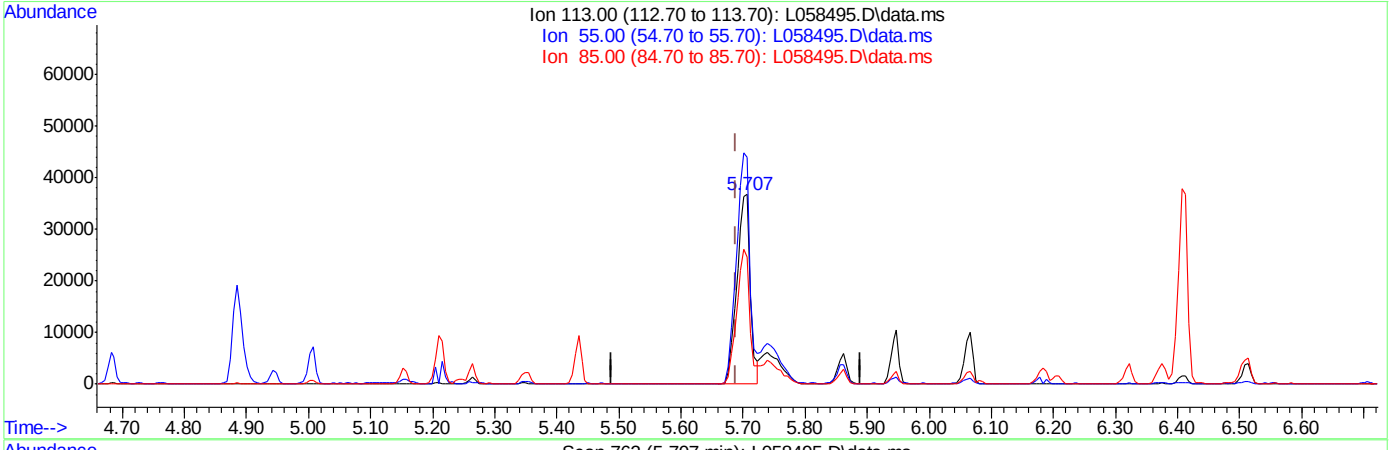

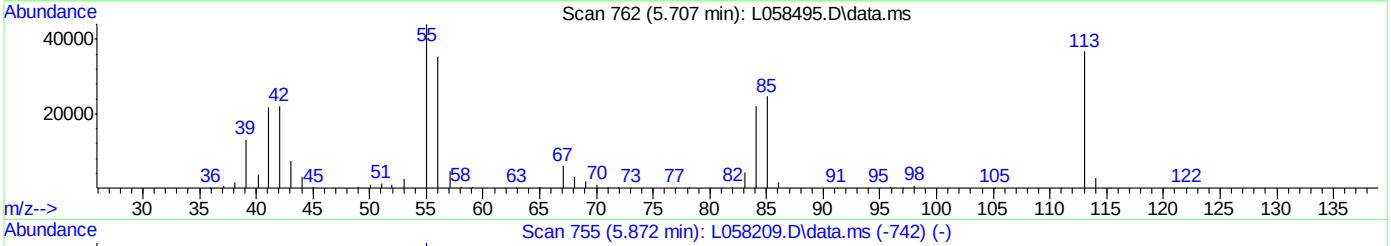

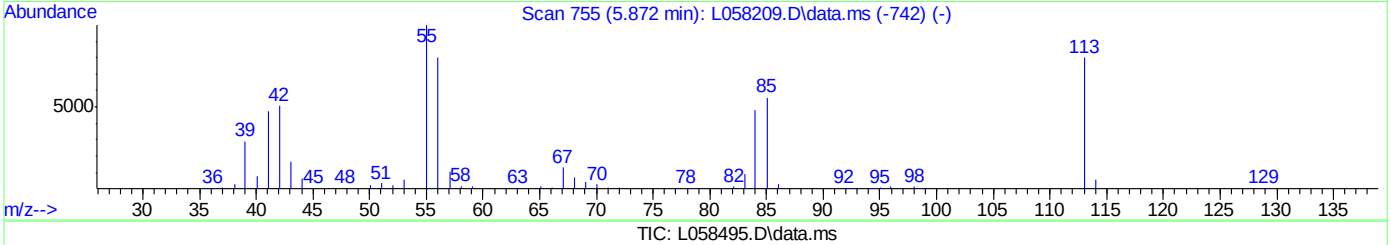

TIC: L058495.D\data.ms

(37) Caprolactam (P)

5.707min (+0.018) 38.91ppm

response 56822

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	118.86
85.00	69.20	66.39
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\073112\
Data File : L058495.D
Acq On    : 31 Jul 2012   9:50 am
Operator  : nancyf
Sample    : cc2973-50
Misc      : op42019,sl2985,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 31 11:23:19 2012
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Jul 31 11:23:13 2012
Response via : Initial Calibration
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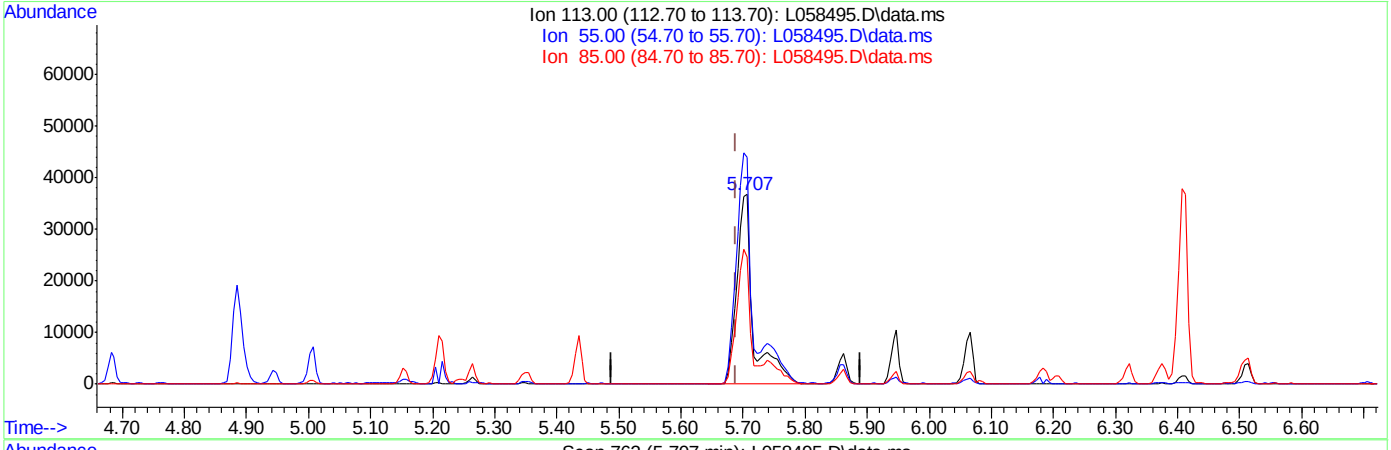
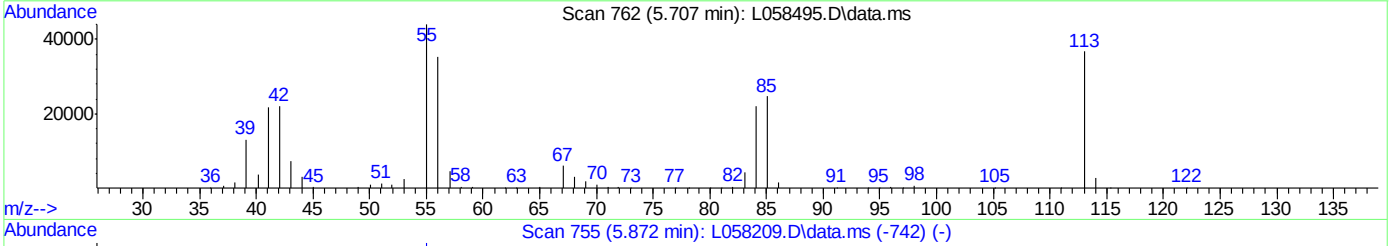
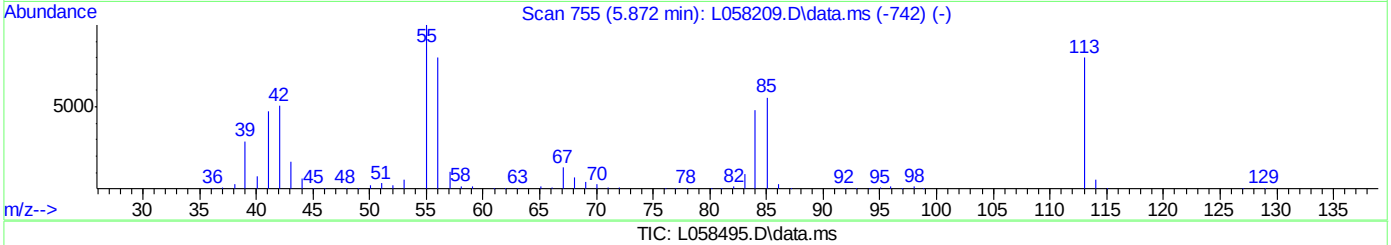






TIC: L058495.D\data.ms

(37) Caprolactam (P)

5.707min (+0.018) 48.40ppm m

response 70691

Ion	Exp%	Act%
113.00	100	100
55.00	126.00	119.83
85.00	69.20	67.07
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024402.D
Acq On : 21 Jul 2012 10:40 am
Operator : fouads
Sample : ic1186-5
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 06:56:10 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 10:19:06 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	295960	40.00	ppm	0.00
22) Naphthalene-d8	6.435	136	1163567	40.00	ppm	0.00
41) Acenaphthene-d10	8.810	164	617341	40.00	ppm	0.00
67) Phenanthrene-d10	11.308	188	915968	40.00	ppm	0.00
82) Chrysene-d12	16.272	240	666372	40.00	ppm	0.00
91) Perylene-d12	18.796	264	589595	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.264	112	126401	12.06	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 12.06%#			
9) Phenol-d5	4.959	99	166776	12.31	ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 12.31%			
23) Nitrobenzene-d5	5.735	82	67084	5.79	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 11.58%#			
45) 2-Fluorobiphenyl	7.794	172	105845	5.12	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 10.24%#			
71) 2,4,6-Tribromophenol	10.121	330	25775	9.75	ppm	-0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 9.75%#			
85) Terphenyl-d14	14.346	244	79445	5.32	ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 10.64%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.852	88	28545	5.33	ppm	93
3) N-nitrosodimethylamine	3.162	42	33932	4.65	ppm	75
4) Pyridine	3.183	79	79810	5.56	ppm	96
6) Benzaldehyde	4.890	106	44705	6.47	ppm	95
7) Aniline	4.997	93	110703	5.96	ppm	83
8) bis(2-Chloroethyl)ether	5.039	93	69743	6.71	ppm	96
10) Phenol	4.970	94	87203	6.07	ppm	80
11) 2-Chlorophenol	5.088	128	61046	5.25	ppm	94
12) 1,3-Dichlorobenzene	5.205	146	62610	4.83	ppm	98
13) 1,4-Dichlorobenzene	5.248	146	64368	5.02	ppm	99
14) 1,2-Dichlorobenzene	5.408	146	59186	4.78	ppm	96
15) Benzyl alcohol	5.355	108	45035	5.48	ppm	87
16) 2-Methylphenol	5.457	108	62211	5.48	ppm	88
17) bis(2-chloroisopropyl)...	5.489	45	128483	5.73	ppm	81
18) Acetophenone	5.590	105	81155	5.14	ppm	97
19) N-Nitroso-di-n-propyla...	5.606	70	48006	5.25	ppm	93
20) 3&4-Methylphenol	5.580	108	64771	5.52	ppm	94
21) Hexachloroethane	5.681	117	25822	5.11	ppm	79
24) Nitrobenzene	5.751	77	67480	6.03	ppm	99
25) Isophorone	5.965	82	129939	5.83	ppm	96
26) 2-Nitrophenol	6.056	139	25713	3.92	ppm	95
27) 2,4-Dimethylphenol	6.072	107	63420	5.42	ppm	97
28) bis(2-Chloroethoxy)met...	6.173	93	80941	6.53	ppm	99
29) Benzoic Acid	6.131	105	23888	2.09	ppm	92
30) 2,4-Dichlorophenol	6.286	162	43863	4.84	ppm	94
31) 1,2,4-Trichlorobenzene	6.393	180	48291	4.91	ppm	96
32) Naphthalene	6.457	128	173352	5.47	ppm	98
33) 4-Chloroaniline	6.526	127	75358	5.77	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024402.D
Acq On : 21 Jul 2012 10:40 am
Operator : fouads
Sample : ic1186-5
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 06:56:10 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 10:19:06 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.537	162	46449	5.23	ppm		94
35) Hexachlorobutadiene	6.655	225	25302	5.17	ppm		98
36) Caprolactam	6.869	113	16985	4.69	ppm		79
37) 4-Chloro-3-methylphenol	7.083	107	48852	5.04	ppm		99
38) 2-Methylnaphthalene	7.275	142	103758	3.68	ppm		98
39) 1-Methylnaphthalene	7.420	142	99612	4.89	ppm		97
40) 1,2,4,5-Tetrachloroben...	7.553	216	44766	4.76	ppm		100
42) Hexachlorocyclopentadiene	7.585	237	21133	3.90	ppm		96
43) 2,4,6-Trichlorophenol	7.682	196	27121	4.30	ppm		93
44) 2,4,5-Trichlorophenol	7.730	196	29306	4.91	ppm		98
46) 1,1'-Biphenyl	7.922	154	111810	4.63	ppm		98
47) 2-Chloronaphthalene	7.933	162	92253	4.89	ppm		96
48) 2-Nitroaniline	8.126	65	27454	3.85	ppm		97
49) p-Dinitrobenzene	8.291	75	13894	3.03	ppm		91
50) Dimethylphthalate	8.457	163	101309	4.75	ppm		98
51) m-Dinitrobenzene	8.468	168	13751	4.11	ppm		88
52) 2,6-Dinitrotoluene	8.553	165	20470	4.07	ppm	#	62
53) o-Dinitrobenzene	8.655	50	13579	3.43	ppm		91
54) Acenaphthylene	8.564	152	155932	4.97	ppm		99
55) 3-Nitroaniline	8.762	138	27969	4.50	ppm		91
56) Acenaphthene	8.853	153	98599	5.00	ppm		98
57) 2,4-Dinitrophenol	8.917	184	1765	0.63	ppm		77
58) 4-Nitrophenol	9.035	109	12138	3.86	ppm	#	71
59) Dibenzofuran	9.104	168	125573	4.81	ppm		97
60) 2,4-Dinitrotoluene	9.174	165	23035	3.56	ppm		93
61) 2,3,5,6-Tetrachlorophenol	9.313	232	20988	4.24	ppm		92
62) 2,3,4,6-Tetrachlorophenol	9.388	232	20686	4.16	ppm		94
63) Diethylphthalate	9.623	149	98062	4.77	ppm		99
64) Fluorene	9.677	166	103857	4.95	ppm		98
65) 4-Chlorophenyl-phenyle...	9.698	204	44335	4.84	ppm		91
66) 4-Nitroaniline	9.768	138	24264	4.22	ppm		85
68) 4,6-Dinitro-2-methylph...	9.853	198	4818	1.38	ppm	#	54
69) n-Nitrosodiphenylamine	9.912	169	82948	6.25	ppm		95
70) 1,2-Diphenylhydrazine	9.966	77	121903	5.17	ppm		91
72) 4-Bromophenyl-phenylether	10.538	248	24369	5.19	ppm		92
73) Hexachlorobenzene	10.773	284	27278	5.30	ppm		97
74) Simazine	10.859	201	11517	4.90	ppm		95
75) Atrazine	10.944	200	20455	4.02	ppm	#	72
76) Pentachlorophenol	11.099	266	14651	4.24	ppm		98
77) Phenanthrene	11.340	178	136190	5.27	ppm		99
78) Anthracene	11.420	178	136995	5.09	ppm		99
79) Carbazole	11.741	167	130578	5.26	ppm		99
80) Di-n-butylphthalate	12.597	149	157997	5.68	ppm		100
81) Fluoranthene	13.538	202	123694	5.17	ppm		95
83) Benzidine	13.854	184	73330	6.97	ppm		95
84) Pyrene	13.940	202	124499	5.17	ppm		91
86) Butylbenzylphthalate	15.410	149	59088	5.68	ppm		90
87) 3,3'-Dichlorobenzidine	16.282	252	34957	4.90	ppm		98
88) Benzo[a]anthracene	16.234	228	96983	5.18	ppm		100
89) Chrysene	16.309	228	92999	5.36	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024402.D
Acq On : 21 Jul 2012 10:40 am
Operator : fouads
Sample : ic1186-5
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 06:56:10 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 10:19:06 2012
Response via : Initial Calibration

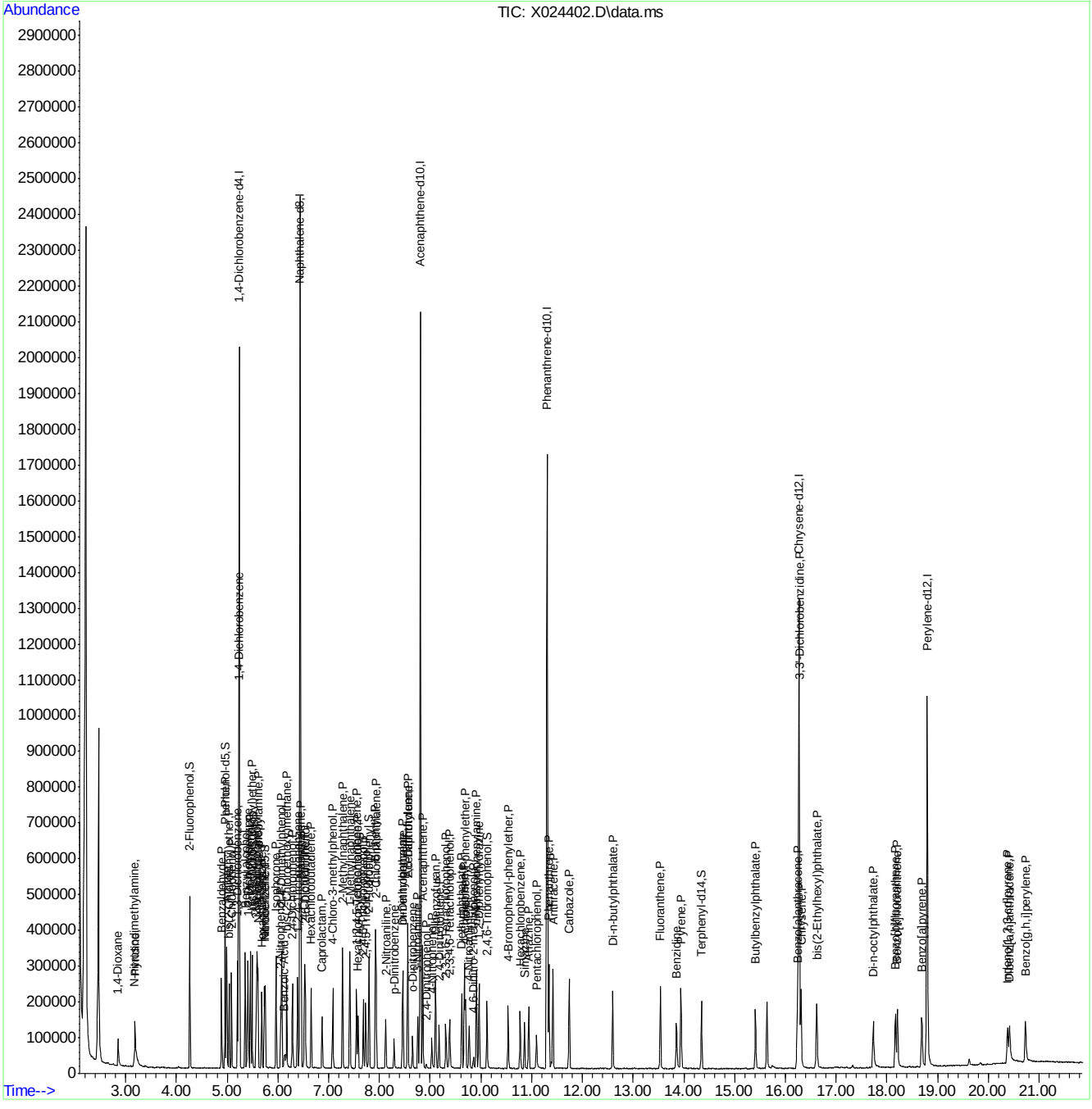
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.619	149	79683	5.87 ppm	96
92) Di-n-octylphthalate	17.732	149	125241	5.81 ppm	96
93) Benzo[b]fluoranthene	18.165	252	81326	4.51 ppm	95
94) Benzo[k]fluoranthene	18.208	252	93349	5.97 ppm	96
95) Benzo[a]pyrene	18.689	252	82884	5.12 ppm	96
96) Indeno[1,2,3-cd]pyrene	20.379	276	60432	4.54 ppm	99
97) Dibenz[a,h]anthracene	20.417	278	66154	4.95 ppm	93
98) Benzo[g,h,i]perylene	20.732	276	77845	5.41 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024402.D
Acq On : 21 Jul 2012 10:40 am
Operator : fouads
Sample : ic1186-5
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 23 06:56:10 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 10:19:06 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024403.D
Acq On : 21 Jul 2012 11:07 am
Operator : fouads
Sample : ic1186-10
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 06:56:12 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.232	152	241691	40.00 ppm	0.00
22) Naphthalene-d8	6.435	136	951049	40.00 ppm	0.00
41) Acenaphthene-d10	8.805	164	497736	40.00 ppm	0.00
67) Phenanthrene-d10	11.303	188	758211	40.00 ppm	0.00
82) Chrysene-d12	16.266	240	599037	40.00 ppm	0.00
91) Perylene-d12	18.791	264	523379	40.00 ppm	-0.01
System Monitoring Compounds					
5) 2-Fluorophenol	4.259	112	197557	23.09 ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 23.09%		
9) Phenol-d5	4.959	99	273325	24.71 ppm	-0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 24.71%		
23) Nitrobenzene-d5	5.735	82	109047	11.52 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 23.04%#		
45) 2-Fluorobiphenyl	7.794	172	172453	10.34 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 20.68%#		
71) 2,4,6-Tribromophenol	10.121	330	43116	19.70 ppm	-0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 19.70%#		
85) Terphenyl-d14	14.346	244	138977	10.35 ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 20.70%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.836	88	43761	10.01 ppm	93
3) N-nitrosodimethylamine	3.151	42	53181	8.92 ppm #	68
4) Pyridine	3.167	79	122303	10.43 ppm	99
6) Benzaldehyde	4.890	106	84834	15.03 ppm	94
7) Aniline	4.997	93	181482	11.97 ppm	80
8) bis(2-Chloroethyl)ether	5.034	93	112487	13.26 ppm	99
10) Phenol	4.970	94	143500	12.24 ppm	74
11) 2-Chlorophenol	5.088	128	98569	10.37 ppm	98
12) 1,3-Dichlorobenzene	5.205	146	102702	9.70 ppm	98
13) 1,4-Dichlorobenzene	5.248	146	105973	10.12 ppm	98
14) 1,2-Dichlorobenzene	5.408	146	100953	9.98 ppm	97
15) Benzyl alcohol	5.355	108	73596	10.96 ppm	83
16) 2-Methylphenol	5.457	108	102610	11.07 ppm	84
17) bis(2-chloroisopropyl)...	5.489	45	211795	11.57 ppm	81
18) Acetophenone	5.590	105	153664	11.91 ppm	96
19) N-Nitroso-di-n-propyla...	5.606	70	78050	10.45 ppm	94
20) 3&4-Methylphenol	5.574	108	106487	11.12 ppm	95
21) Hexachloroethane	5.681	117	43806	10.61 ppm	76
24) Nitrobenzene	5.751	77	107071	11.70 ppm	94
25) Isophorone	5.959	82	211505	11.60 ppm	95
26) 2-Nitrophenol	6.056	139	44416	8.28 ppm	85
27) 2,4-Dimethylphenol	6.072	107	102362	10.70 ppm	95
28) bis(2-Chloroethoxy)met...	6.173	93	133639	13.18 ppm	97
29) Benzoic Acid	6.141	105	59899	6.41 ppm	92
30) 2,4-Dichlorophenol	6.286	162	72958	9.84 ppm	95
31) 1,2,4-Trichlorobenzene	6.387	180	77906	9.68 ppm	96
32) Naphthalene	6.457	128	283612	10.95 ppm	99
33) 4-Chloroaniline	6.521	127	123583	11.57 ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024403.D
Acq On : 21 Jul 2012 11:07 am
Operator : fouads
Sample : ic1186-10
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 06:56:12 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.537	162	77079	10.61	ppm		98
35) Hexachlorobutadiene	6.655	225	40909	10.23	ppm		98
36) Caprolactam	6.874	113	35637	12.03	ppm		82
37) 4-Chloro-3-methylphenol	7.083	107	83257	10.51	ppm		99
38) 2-Methylnaphthalene	7.275	142	170884	7.42	ppm		98
39) 1-Methylnaphthalene	7.414	142	160939	9.68	ppm		98
40) 1,2,4,5-Tetrachloroben...	7.548	216	73213	9.53	ppm		100
42) Hexachlorocyclopentadiene	7.580	237	36955	8.46	ppm		99
43) 2,4,6-Trichlorophenol	7.682	196	45653	8.98	ppm		99
44) 2,4,5-Trichlorophenol	7.730	196	48539	10.09	ppm		99
46) 1,1'-Biphenyl	7.917	154	215944	11.10	ppm		98
47) 2-Chloronaphthalene	7.933	162	149918	9.86	ppm		98
48) 2-Nitroaniline	8.120	65	46469	8.07	ppm		90
49) p-Dinitrobenzene	8.286	75	25107	6.79	ppm		91
50) Dimethylphthalate	8.457	163	165795	9.65	ppm		99
51) m-Dinitrobenzene	8.468	168	23469	8.69	ppm		82
52) 2,6-Dinitrotoluene	8.553	165	34859	8.60	ppm	#	62
53) o-Dinitrobenzene	8.655	50	23249	7.28	ppm		95
54) Acenaphthylene	8.559	152	252432	9.99	ppm		100
55) 3-Nitroaniline	8.757	138	46893	9.35	ppm		87
56) Acenaphthene	8.853	153	159840	10.05	ppm		100
57) 2,4-Dinitrophenol	8.917	184	5898	2.60	ppm		90
58) 4-Nitrophenol	9.030	109	20815	8.21	ppm	#	77
59) Dibenzofuran	9.104	168	203777	9.67	ppm		99
60) 2,4-Dinitrotoluene	9.174	165	40768	7.81	ppm		90
61) 2,3,5,6-Tetrachlorophenol	9.308	232	35925	9.01	ppm		97
62) 2,3,4,6-Tetrachlorophenol	9.383	232	36885	9.21	ppm		96
63) Diethylphthalate	9.623	149	167134	10.08	ppm		99
64) Fluorene	9.677	166	171246	10.13	ppm		99
65) 4-Chlorophenyl-phenyle...	9.698	204	73505	9.96	ppm		90
66) 4-Nitroaniline	9.768	138	42570	9.19	ppm		86
68) 4,6-Dinitro-2-methylph...	9.848	198	11614	4.02	ppm		85
69) n-Nitrosodiphenylamine	9.912	169	139597	12.71	ppm		92
70) 1,2-Diphenylhydrazine	9.960	77	199424	10.23	ppm		89
72) 4-Bromophenyl-phenylether	10.538	248	40681	10.47	ppm		92
73) Hexachlorobenzene	10.773	284	46101	10.81	ppm		95
74) Simazine	10.859	201	19276	9.91	ppm		93
75) Atrazine	10.944	200	41986	9.98	ppm	#	67
76) Pentachlorophenol	11.094	266	24877	8.69	ppm		98
77) Phenanthrene	11.340	178	224897	10.51	ppm		100
78) Anthracene	11.420	178	229979	10.33	ppm		99
79) Carbazole	11.741	167	220835	10.75	ppm		98
80) Di-n-butylphthalate	12.597	149	266207	11.56	ppm		99
81) Fluoranthene	13.533	202	209003	10.55	ppm		93
83) Benzidine	13.854	184	116319	12.29	ppm		94
84) Pyrene	13.940	202	218750	10.10	ppm		94
86) Butylbenzylphthalate	15.410	149	106135	11.35	ppm		95
87) 3,3'-Dichlorobenzidine	16.277	252	64076	9.99	ppm		98
88) Benzo[a]anthracene	16.229	228	171044	10.17	ppm		100
89) Chrysene	16.309	228	167785	10.75	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024403.D
Acq On : 21 Jul 2012 11:07 am
Operator : fouads
Sample : ic1186-10
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 06:56:12 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.614	149	145167	11.89 ppm	96
92) Di-n-octylphthalate	17.732	149	220786	11.54 ppm	97
93) Benzo[b]fluoranthene	18.165	252	147558	9.23 ppm	96
94) Benzo[k]fluoranthene	18.208	252	162385	11.71 ppm	96
95) Benzo[a]pyrene	18.689	252	145581	10.13 ppm	97
96) Indeno[1,2,3-cd]pyrene	20.379	276	108883	9.21 ppm	99
97) Dibenz[a,h]anthracene	20.417	278	124303	10.47 ppm	93
98) Benzo[g,h,i]perylene	20.732	276	134034	10.49 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

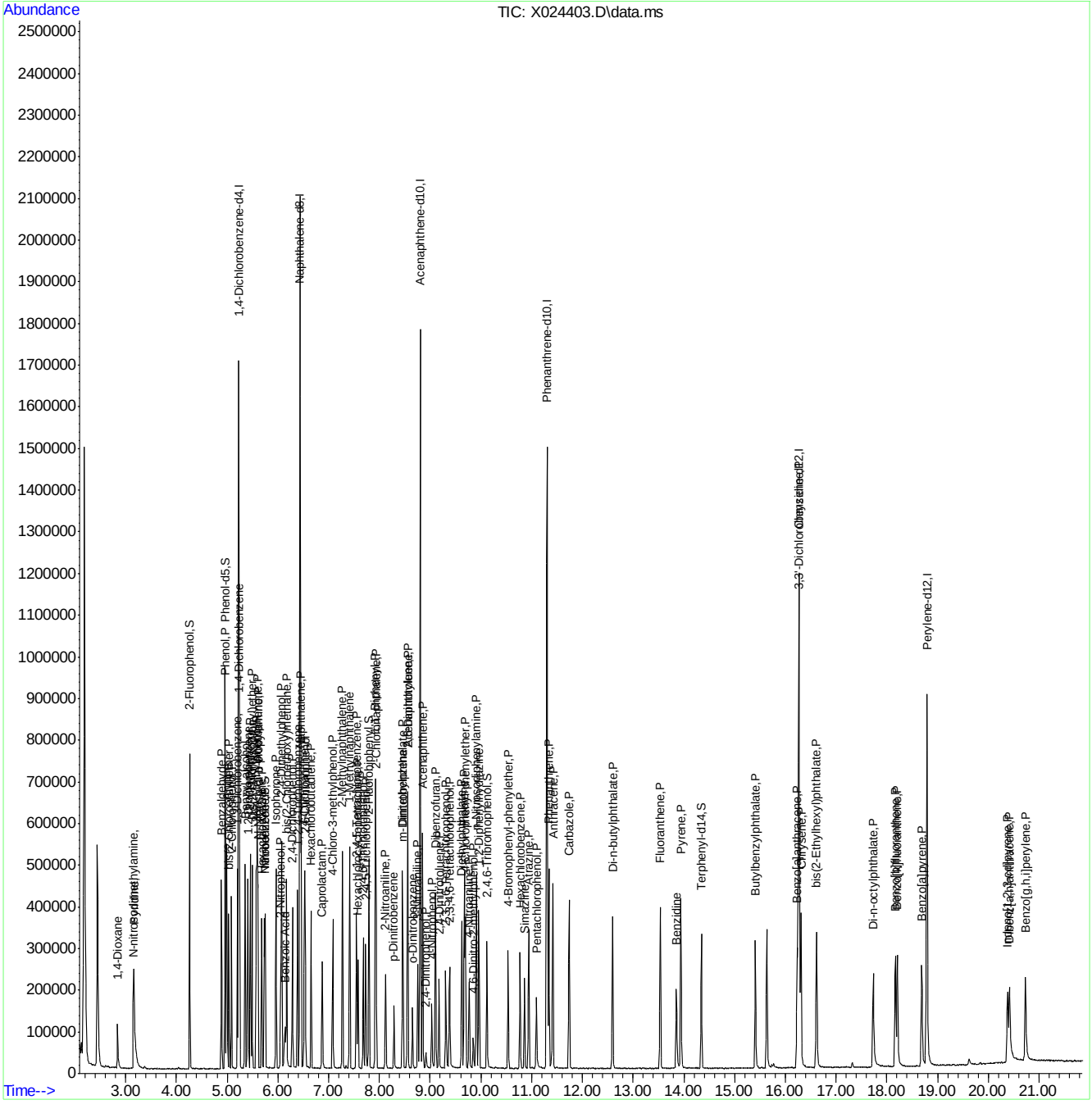
9.8.13

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024403.D
Acq On : 21 Jul 2012 11:07 am
Operator : fouads
Sample : ic1186-10
Misc : op41650,sx1186,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 06:56:12 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024404.D
Acq On : 21 Jul 2012 11:35 am
Operator : fouads
Sample : ic1186-25
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 06:56:13 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.232	152	295806	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1159572	40.00	ppm	0.00
41) Acenaphthene-d10	8.810	164	577848	40.00	ppm	0.00
67) Phenanthrene-d10	11.302	188	864807	40.00	ppm	0.00
82) Chrysene-d12	16.271	240	680339	40.00	ppm	0.00
91) Perylene-d12	18.796	264	600642	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.258	112	564756	53.93	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 53.93%			
9) Phenol-d5	4.964	99	773668	57.15	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 57.15%#			
23) Nitrobenzene-d5	5.735	82	316634	27.44	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 54.88%			
45) 2-Fluorobiphenyl	7.794	172	494828	25.55	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 51.10%			
71) 2,4,6-Tribromophenol	10.126	330	121873	48.82	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 48.82%			
85) Terphenyl-d14	14.346	244	385028	25.25	ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 50.50%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.836	88	125032	23.36	ppm	95
3) N-nitrosodimethylamine	3.151	42	147647	20.24	ppm #	72
4) Pyridine	3.156	79	330225	23.02	ppm	99
6) Benzaldehyde	4.889	106	224489	32.49	ppm	96
7) Aniline	4.996	93	531643	28.64	ppm	81
8) bis(2-Chloroethyl)ether	5.039	93	329688	31.75	ppm	98
10) Phenol	4.975	94	422878	29.46	ppm #	60
11) 2-Chlorophenol	5.087	128	300866	25.87	ppm	97
12) 1,3-Dichlorobenzene	5.205	146	313162	24.16	ppm	98
13) 1,4-Dichlorobenzene	5.248	146	323960	25.27	ppm	99
14) 1,2-Dichlorobenzene	5.408	146	297471	24.03	ppm	99
15) Benzyl alcohol	5.355	108	217967	26.52	ppm	83
16) 2-Methylphenol	5.456	108	297401	26.21	ppm	90
17) bis(2-chloroisopropyl)...	5.488	45	612175	27.32	ppm	81
18) Acetophenone	5.595	105	429985	27.23	ppm	97
19) N-Nitroso-di-n-propyla...	5.606	70	220316	24.09	ppm	92
20) 3&4-Methylphenol	5.579	108	311400	26.56	ppm	94
21) Hexachloroethane	5.681	117	129690	25.66	ppm	80
24) Nitrobenzene	5.751	77	311353	27.90	ppm	95
25) Isophorone	5.965	82	594016	26.72	ppm	97
26) 2-Nitrophenol	6.055	139	136530	20.87	ppm	87
27) 2,4-Dimethylphenol	6.077	107	294765	25.27	ppm	90
28) bis(2-Chloroethoxy)met...	6.178	93	374023	30.26	ppm	98
29) Benzoic Acid	6.173	105	210777	18.51	ppm	91
30) 2,4-Dichlorophenol	6.285	162	219101	24.24	ppm	94
31) 1,2,4-Trichlorobenzene	6.392	180	238291	24.29	ppm	97
32) Naphthalene	6.457	128	835300	26.44	ppm	99
33) 4-Chloroaniline	6.526	127	359105	27.57	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024404.D
Acq On : 21 Jul 2012 11:35 am
Operator : fouads
Sample : ic1186-25
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 06:56:13 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.537	162	227430	25.68	ppm		97
35) Hexachlorobutadiene	6.654	225	122094	25.03	ppm		98
36) Caprolactam	6.901	113	94816	26.26	ppm		87
37) 4-Chloro-3-methylphenol	7.082	107	237741	24.60	ppm		100
38) 2-Methylnaphthalene	7.275	142	504522	17.97	ppm		97
39) 1-Methylnaphthalene	7.419	142	475649	23.45	ppm		97
40) 1,2,4,5-Tetrachloroben...	7.553	216	213707	22.80	ppm		98
42) Hexachlorocyclopentadiene	7.580	237	119058	23.49	ppm		97
43) 2,4,6-Trichlorophenol	7.681	196	135668	22.98	ppm		98
44) 2,4,5-Trichlorophenol	7.735	196	140576	25.16	ppm		99
46) 1,1'-Biphenyl	7.922	154	598584	26.49	ppm		98
47) 2-Chloronaphthalene	7.938	162	435569	24.68	ppm		98
48) 2-Nitroaniline	8.125	65	139759	20.92	ppm		96
49) p-Dinitrobenzene	8.291	75	80652	18.79	ppm		94
50) Dimethylphthalate	8.462	163	466277	23.37	ppm		100
51) m-Dinitrobenzene	8.473	168	74582	23.79	ppm	#	80
52) 2,6-Dinitrotoluene	8.559	165	104217	22.14	ppm	#	62
53) o-Dinitrobenzene	8.660	50	70488	19.01	ppm		94
54) Acenaphthylene	8.564	152	721919	24.60	ppm		99
55) 3-Nitroaniline	8.767	138	136039	23.37	ppm		89
56) Acenaphthene	8.858	153	458172	24.81	ppm		100
57) 2,4-Dinitrophenol	8.922	184	30608	11.64	ppm		93
58) 4-Nitrophenol	9.040	109	59918	20.36	ppm	#	65
59) Dibenzofuran	9.110	168	587628	24.03	ppm		97
60) 2,4-Dinitrotoluene	9.179	165	126517	20.87	ppm		96
61) 2,3,5,6-Tetrachlorophenol	9.313	232	106424	22.99	ppm		94
62) 2,3,4,6-Tetrachlorophenol	9.388	232	105432	22.66	ppm		97
63) Diethylphthalate	9.628	149	467210	24.28	ppm		99
64) Fluorene	9.676	166	483102	24.62	ppm		100
65) 4-Chlorophenyl-phenyle...	9.698	204	208456	24.33	ppm		89
66) 4-Nitroaniline	9.783	138	124603	23.16	ppm		83
68) 4,6-Dinitro-2-methylph...	9.858	198	48953	14.85	ppm		87
69) n-Nitrosodiphenylamine	9.917	169	390865	31.19	ppm		92
70) 1,2-Diphenylhydrazine	9.965	77	561004	25.22	ppm		90
72) 4-Bromophenyl-phenylether	10.538	248	114006	25.73	ppm		93
73) Hexachlorobenzene	10.778	284	126538	26.02	ppm		95
74) Simazine	10.875	201	53672	24.18	ppm		92
75) Atrazine	10.955	200	111803	23.30	ppm	#	75
76) Pentachlorophenol	11.099	266	77328	23.69	ppm		99
77) Phenanthrene	11.345	178	624907	25.60	ppm		100
78) Anthracene	11.425	178	644091	25.36	ppm		100
79) Carbazole	11.746	167	612468	26.13	ppm		100
80) Di-n-butylphthalate	12.597	149	758708	28.88	ppm		99
81) Fluoranthene	13.538	202	593745	26.27	ppm		94
83) Benzidine	13.854	184	322045	29.96	ppm		95
84) Pyrene	13.945	202	609773	24.78	ppm		94
86) Butylbenzylphthalate	15.410	149	294795	27.75	ppm		91
87) 3,3'-Dichlorobenzidine	16.282	252	184887	25.38	ppm		98
88) Benzo[a]anthracene	16.234	228	479527	25.11	ppm		100
89) Chrysene	16.314	228	466245	26.31	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024404.D
Acq On : 21 Jul 2012 11:35 am
Operator : fouads
Sample : ic1186-25
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 06:56:13 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.619	149	412916	29.78 ppm	95
92) Di-n-octylphthalate	17.732	149	648200	29.52 ppm	96
93) Benzo[b]fluoranthene	18.170	252	402920	21.96 ppm	95
94) Benzo[k]fluoranthene	18.213	252	455462	28.61 ppm	96
95) Benzo[a]pyrene	18.694	252	411122	24.94 ppm	95
96) Indeno[1,2,3-cd]pyrene	20.384	276	322321	23.75 ppm	96
97) Dibenz[a,h]anthracene	20.422	278	363063	26.65 ppm	93
98) Benzo[g,h,i]perylene	20.743	276	391810	26.71 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

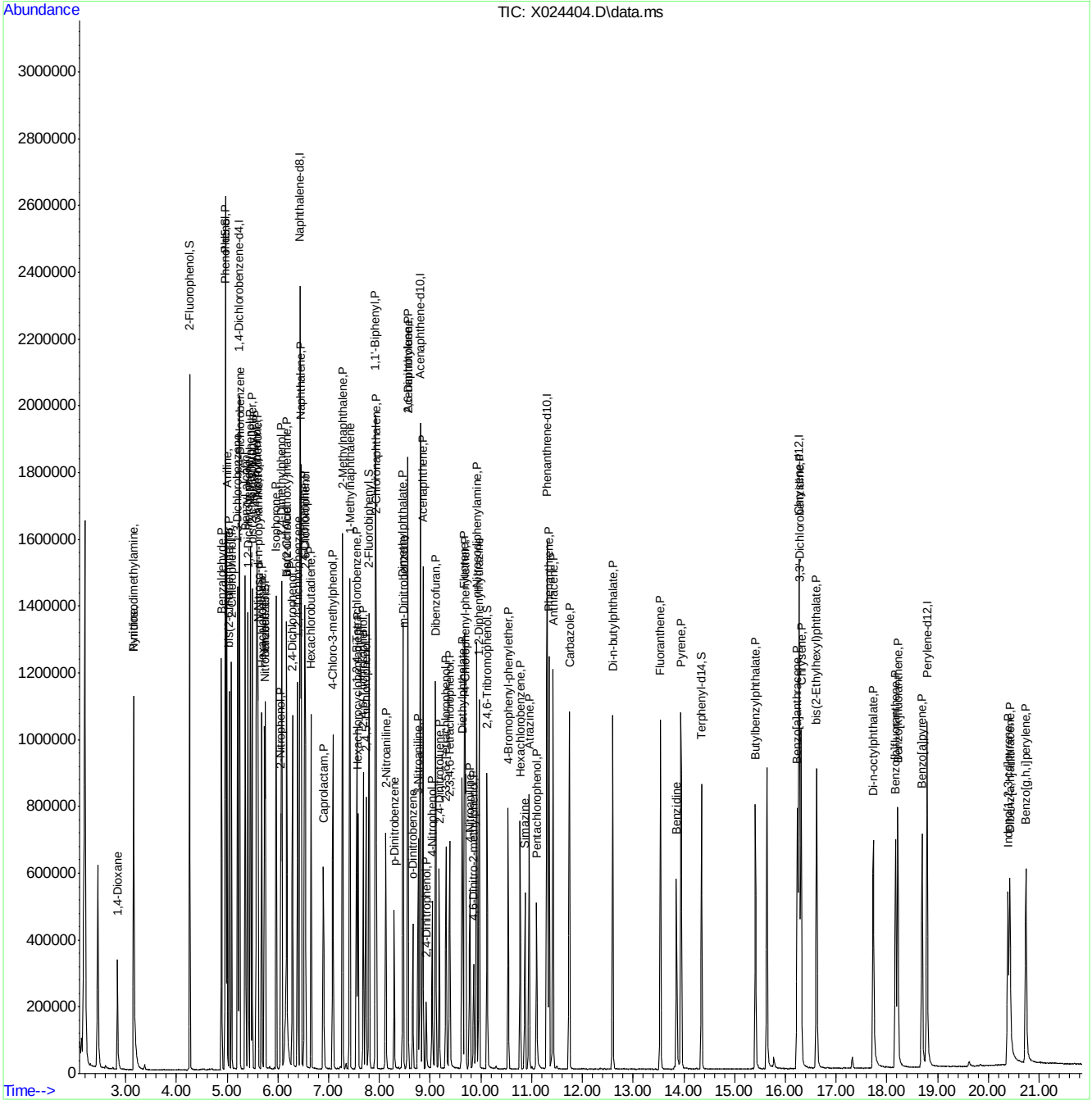
9.8.14

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024404.D
Acq On : 21 Jul 2012 11:35 am
Operator : fouads
Sample : ic1186-25
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 06:56:13 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024405.D
Acq On : 21 Jul 2012 12:02 pm
Operator : fouads
Sample : ic1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 06:56:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	301050	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1211494	40.00	ppm	0.00
41) Acenaphthene-d10	8.810	164	639460	40.00	ppm	0.00
67) Phenanthrene-d10	11.308	188	991776	40.00	ppm	0.00
82) Chrysene-d12	16.277	240	780483	40.00	ppm	0.00
91) Perylene-d12	18.801	264	693091	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.264	112	1245395	116.86	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 116.86%#			
9) Phenol-d5	4.970	99	1617088	117.37	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 117.37%#			
23) Nitrobenzene-d5	5.740	82	670225	55.60	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 111.20%#			
45) 2-Fluorobiphenyl	7.799	172	1141262	53.25	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 106.50%#			
71) 2,4,6-Tribromophenol	10.131	330	266504	93.08	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 93.08%			
85) Terphenyl-d14	14.357	244	915290	52.33	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 104.66%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.841	88	291163	53.46	ppm	96
3) N-nitrosodimethylamine	3.162	42	337662	45.49	ppm #	69
4) Pyridine	3.162	79	796283	54.54	ppm	99
6) Benzaldehyde	4.890	106	383166	54.50	ppm	97
7) Aniline	5.002	93	1186567	62.81	ppm	81
8) bis(2-Chloroethyl)ether	5.045	93	714988	67.65	ppm	97
10) Phenol	4.980	94	957316	65.53	ppm	84
11) 2-Chlorophenol	5.093	128	665324	56.21	ppm	97
12) 1,3-Dichlorobenzene	5.210	146	659885	50.02	ppm	98
13) 1,4-Dichlorobenzene	5.248	146	685737	52.56	ppm	99
14) 1,2-Dichlorobenzene	5.408	146	628963	49.93	ppm	98
15) Benzyl alcohol	5.360	108	456179	54.54	ppm	87
16) 2-Methylphenol	5.462	108	620903	53.76	ppm	90
17) bis(2-chloroisopropyl)...	5.489	45	1240284	54.39	ppm	81
18) Acetophenone	5.601	105	863623	53.74	ppm	97
19) N-Nitroso-di-n-propyla...	5.617	70	465713	50.04	ppm	94
20) 3&4-Methylphenol	5.585	108	637076	53.39	ppm	96
21) Hexachloroethane	5.681	117	271982	52.88	ppm	79
24) Nitrobenzene	5.756	77	666110	57.14	ppm	96
25) Isophorone	5.975	82	1263617	54.41	ppm	98
26) 2-Nitrophenol	6.061	139	299725	43.85	ppm	88
27) 2,4-Dimethylphenol	6.082	107	603325	49.51	ppm	92
28) bis(2-Chloroethoxy)met...	6.184	93	754607	58.44	ppm	98
29) Benzoic Acid	6.211	105	465248	39.11	ppm	93
30) 2,4-Dichlorophenol	6.296	162	463410	49.08	ppm	96
31) 1,2,4-Trichlorobenzene	6.392	180	511133	49.87	ppm	97
32) Naphthalene	6.462	128	1812331	54.91	ppm	99
33) 4-Chloroaniline	6.532	127	795257	58.44	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024405.D
Acq On : 21 Jul 2012 12:02 pm
Operator : fouads
Sample : ic1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 06:56:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.542	162	513595	55.52	ppm		99
35) Hexachlorobutadiene	6.655	225	275619	54.08	ppm		97
36) Caprolactam	6.927	113	216339	57.35	ppm		86
37) 4-Chloro-3-methylphenol	7.093	107	551163	54.59	ppm		95
38) 2-Methylnaphthalene	7.275	142	1186639	40.46	ppm		96
39) 1-Methylnaphthalene	7.419	142	1108478	52.31	ppm		96
40) 1,2,4,5-Tetrachloroben...	7.553	216	485643	49.60	ppm		98
42) Hexachlorocyclopentadiene	7.585	237	285310	50.86	ppm		99
43) 2,4,6-Trichlorophenol	7.687	196	314251	48.09	ppm		98
44) 2,4,5-Trichlorophenol	7.740	196	333186	53.89	ppm		99
46) 1,1'-Biphenyl	7.928	154	1303646	52.14	ppm		97
47) 2-Chloronaphthalene	7.944	162	1010207	51.73	ppm		96
48) 2-Nitroaniline	8.131	65	325563	44.03	ppm		96
49) p-Dinitrobenzene	8.302	75	204972	43.15	ppm		96
50) Dimethylphthalate	8.473	163	1084626	49.12	ppm		99
51) m-Dinitrobenzene	8.484	168	186200	53.67	ppm	#	72
52) 2,6-Dinitrotoluene	8.569	165	244794	46.99	ppm	#	62
53) o-Dinitrobenzene	8.671	50	165404	40.30	ppm		93
54) Acenaphthylene	8.569	152	1658118	51.05	ppm		99
55) 3-Nitroaniline	8.778	138	323833	50.27	ppm		91
56) Acenaphthene	8.864	153	1062222	51.97	ppm		100
57) 2,4-Dinitrophenol	8.933	184	97351	33.45	ppm		90
58) 4-Nitrophenol	9.056	109	145882	44.80	ppm	#	72
59) Dibenzofuran	9.115	168	1363115	50.37	ppm		95
60) 2,4-Dinitrotoluene	9.190	165	317345	47.30	ppm		97
61) 2,3,5,6-Tetrachlorophenol	9.318	232	256358	50.05	ppm		94
62) 2,3,4,6-Tetrachlorophenol	9.393	232	250329	48.63	ppm		96
63) Diethylphthalate	9.639	149	1104287	51.86	ppm		99
64) Fluorene	9.687	166	1141969	52.59	ppm		99
65) 4-Chlorophenyl-phenyle...	9.703	204	484849	51.14	ppm		89
66) 4-Nitroaniline	9.800	138	303301	50.95	ppm		82
68) 4,6-Dinitro-2-methylph...	9.874	198	146948	38.86	ppm		87
69) n-Nitrosodiphenylamine	9.928	169	917879	63.87	ppm		94
70) 1,2-Diphenylhydrazine	9.971	77	1240036	48.61	ppm		91
72) 4-Bromophenyl-phenylether	10.543	248	261067	51.38	ppm		92
73) Hexachlorobenzene	10.784	284	285660	51.22	ppm		95
74) Simazine	10.891	201	126766	49.80	ppm		95
75) Atrazine	10.971	200	252281	45.84	ppm		81
76) Pentachlorophenol	11.105	266	196670	52.55	ppm		97
77) Phenanthrene	11.351	178	1449963	51.79	ppm		98
78) Anthracene	11.431	178	1507556	51.75	ppm		100
79) Carbazole	11.752	167	1436631	53.44	ppm		100
80) Di-n-butylphthalate	12.602	149	1795742	59.60	ppm		99
81) Fluoranthene	13.549	202	1383007	53.35	ppm		96
83) Benzidine	13.859	184	699112	56.70	ppm		96
84) Pyrene	13.955	202	1468011	52.01	ppm		96
86) Butylbenzylphthalate	15.421	149	720315	59.11	ppm		98
87) 3,3'-Dichlorobenzidine	16.293	252	429490	51.40	ppm		98
88) Benzo[a]anthracene	16.245	228	1173936	53.58	ppm		99
89) Chrysene	16.325	228	1122816	55.23	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024405.D
Acq On : 21 Jul 2012 12:02 pm
Operator : fouads
Sample : ic1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 06:56:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.619	149	1005474	63.21 ppm	96
92) Di-n-octylphthalate	17.737	149	1637994	64.64 ppm	97
93) Benzo[b]fluoranthene	18.186	252	1013971	47.89 ppm	95
94) Benzo[k]fluoranthene	18.229	252	1101795	59.99 ppm	95
95) Benzo[a]pyrene	18.710	252	1019960	53.61 ppm	96
96) Indeno[1,2,3-cd]pyrene	20.401	276	1053030	67.25 ppm	92
97) Dibenz[a,h]anthracene	20.438	278	859856	54.70 ppm	93
98) Benzo[g,h,i]perylene	20.764	276	875467	51.72 ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

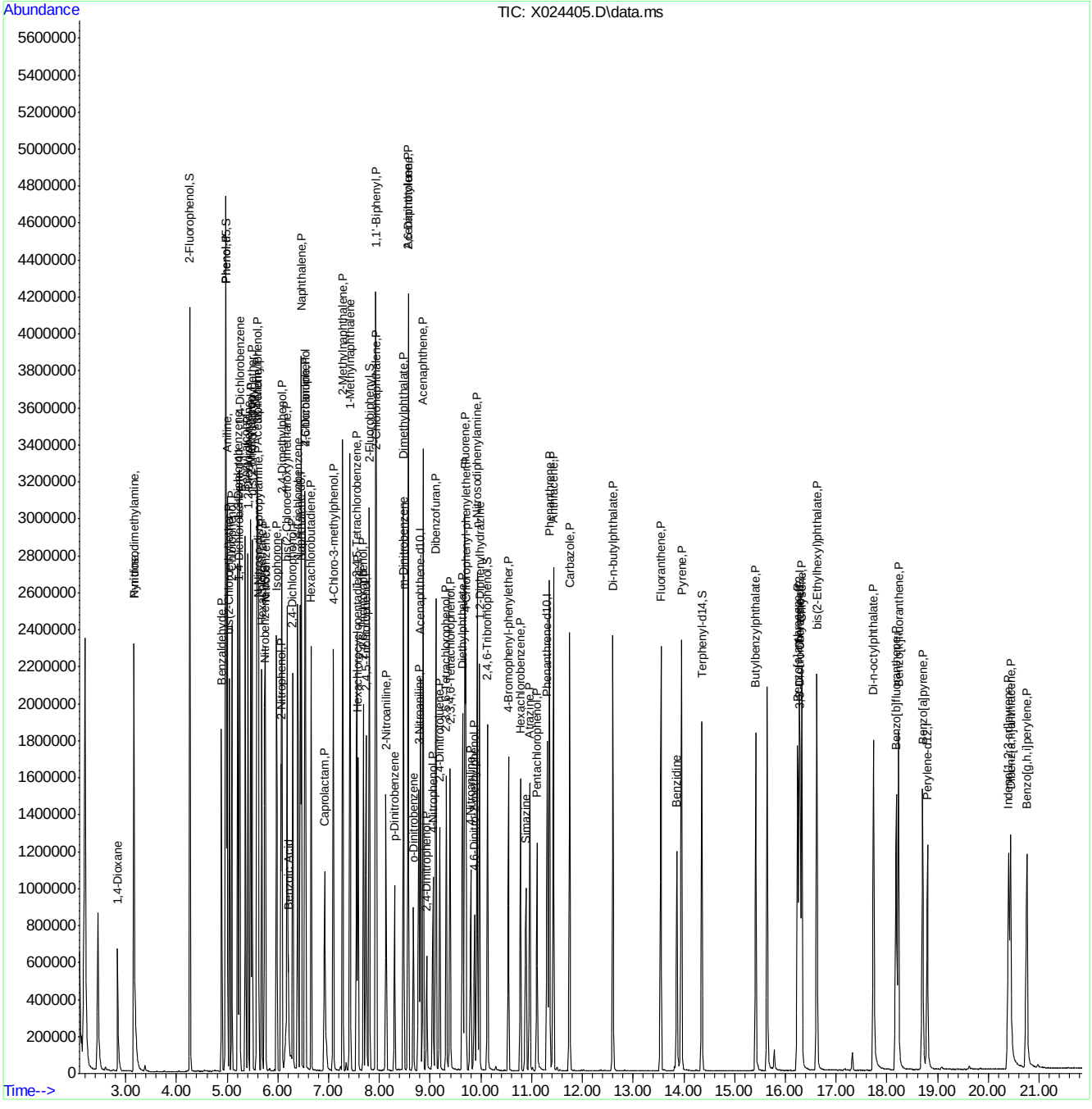
9.8.15

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024405.D
Acq On : 21 Jul 2012 12:02 pm
Operator : fouads
Sample : ic1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 06:56:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024406.D
Acq On : 21 Jul 2012 12:29 pm
Operator : fouads
Sample : ic1186-60
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 06:56:15 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	281907	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1222010	40.00	ppm	0.00
41) Acenaphthene-d10	8.810	164	642693	40.00	ppm	0.00
67) Phenanthrene-d10	11.308	188	999276	40.00	ppm	0.00
82) Chrysene-d12	16.277	240	781596	40.00	ppm	0.00
91) Perylene-d12	18.801	264	690983	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.264	112	1352167	135.49	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 135.49%#			
9) Phenol-d5	4.975	99	1709314	132.49	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 132.49%#			
23) Nitrobenzene-d5	5.740	82	835505	68.71	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 137.42%#			
45) 2-Fluorobiphenyl	7.805	172	1388549	64.47	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 128.94%#			
71) 2,4,6-Tribromophenol	10.137	330	321233	111.36	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 111.36%			
85) Terphenyl-d14	14.357	244	1099607	62.77	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 125.54%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.836	88	333795	65.45	ppm	96
3) N-nitrosodimethylamine	3.157	42	377622	54.33	ppm #	72
4) Pyridine	3.157	79	887092	64.89	ppm	98
6) Benzaldehyde	4.890	106	356728	54.18	ppm	96
7) Aniline	5.002	93	1276534	72.16	ppm	81
8) bis(2-Chloroethyl)ether	5.045	93	784708	79.29	ppm	98
10) Phenol	4.986	94	1005866	73.53	ppm	85
11) 2-Chlorophenol	5.093	128	721315	65.08	ppm	98
12) 1,3-Dichlorobenzene	5.211	146	749986	60.71	ppm	99
13) 1,4-Dichlorobenzene	5.248	146	754961	61.79	ppm	99
14) 1,2-Dichlorobenzene	5.408	146	706768	59.92	ppm	99
15) Benzyl alcohol	5.360	108	525361	67.07	ppm	86
16) 2-Methylphenol	5.462	108	722568	66.81	ppm	90
17) bis(2-chloroisopropyl)...	5.489	45	1410934	66.07	ppm	82
18) Acetophenone	5.601	105	1027475	68.27	ppm	96
19) N-Nitroso-di-n-propyla...	5.617	70	545866	62.63	ppm	94
20) 3&4-Methylphenol	5.590	108	760132	68.03	ppm	92
21) Hexachloroethane	5.681	117	335283	69.61	ppm	79
24) Nitrobenzene	5.761	77	813636	69.19	ppm	91
25) Isophorone	5.975	82	1564249	66.78	ppm	98
26) 2-Nitrophenol	6.061	139	388321	56.32	ppm	85
27) 2,4-Dimethylphenol	6.082	107	768667	62.54	ppm	91
28) bis(2-Chloroethoxy)met...	6.184	93	918678	70.54	ppm	99
29) Benzoic Acid	6.221	105	624161	52.01	ppm	90
30) 2,4-Dichlorophenol	6.296	162	587278	61.66	ppm	95
31) 1,2,4-Trichlorobenzene	6.393	180	619917	59.96	ppm	99
32) Naphthalene	6.462	128	2152302	64.65	ppm	99
33) 4-Chloroaniline	6.532	127	902056	65.72	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024406.D
Acq On : 21 Jul 2012 12:29 pm
Operator : fouads
Sample : ic1186-60
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 06:56:15 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.548	162	576486	61.78	ppm		98
35) Hexachlorobutadiene	6.660	225	301091	58.57	ppm		99
36) Caprolactam	6.933	113	255813	67.23	ppm		86
37) 4-Chloro-3-methylphenol	7.093	107	647058	63.54	ppm		97
38) 2-Methylnaphthalene	7.280	142	1413405	47.78	ppm		95
39) 1-Methylnaphthalene	7.425	142	1328540	62.16	ppm		96
40) 1,2,4,5-Tetrachloroben...	7.553	216	598135	60.56	ppm		98
42) Hexachlorocyclopentadiene	7.585	237	357822	63.47	ppm		99
43) 2,4,6-Trichlorophenol	7.687	196	392074	59.70	ppm		99
44) 2,4,5-Trichlorophenol	7.740	196	409284	65.86	ppm		98
46) 1,1'-Biphenyl	7.928	154	1594286	63.44	ppm		99
47) 2-Chloronaphthalene	7.944	162	1236042	62.97	ppm		96
48) 2-Nitroaniline	8.136	65	387788	52.18	ppm		89
49) p-Dinitrobenzene	8.302	75	248166	51.99	ppm		96
50) Dimethylphthalate	8.479	163	1303184	58.72	ppm		100
51) m-Dinitrobenzene	8.484	168	228797	65.62	ppm		83
52) 2,6-Dinitrotoluene	8.569	165	297070	56.73	ppm	#	64
53) o-Dinitrobenzene	8.676	50	198961	48.23	ppm		92
54) Acenaphthylene	8.569	152	1994772	61.11	ppm		99
55) 3-Nitroaniline	8.783	138	395261	61.05	ppm		94
56) Acenaphthene	8.864	153	1260545	61.36	ppm		99
57) 2,4-Dinitrophenol	8.939	184	132317	45.23	ppm		86
58) 4-Nitrophenol	9.062	109	176242	53.85	ppm	#	65
59) Dibenzofuran	9.115	168	1637824	60.21	ppm		97
60) 2,4-Dinitrotoluene	9.195	165	386676	57.34	ppm		95
61) 2,3,5,6-Tetrachlorophenol	9.318	232	309638	60.15	ppm		92
62) 2,3,4,6-Tetrachlorophenol	9.393	232	302974	58.56	ppm		94
63) Diethylphthalate	9.639	149	1338720	62.55	ppm		99
64) Fluorene	9.687	166	1369525	62.76	ppm		98
65) 4-Chlorophenyl-phenyle...	9.709	204	584849	61.37	ppm		93
66) 4-Nitroaniline	9.810	138	375017	62.68	ppm		77
68) 4,6-Dinitro-2-methylph...	9.880	198	190129	49.91	ppm	#	31
69) n-Nitrosodiphenylamine	9.933	169	1115997	77.07	ppm		95
70) 1,2-Diphenylhydrazine	9.976	77	1452132	56.49	ppm		93
72) 4-Bromophenyl-phenylether	10.548	248	317885	62.09	ppm		97
73) Hexachlorobenzene	10.784	284	339955	60.50	ppm		94
74) Simazine	10.896	201	156887	61.17	ppm		94
75) Atrazine	10.976	200	314339	56.69	ppm		83
76) Pentachlorophenol	11.110	266	243486	64.57	ppm		99
77) Phenanthrene	11.356	178	1752574	62.13	ppm		99
78) Anthracene	11.436	178	1821523	62.06	ppm		100
79) Carbazole	11.757	167	1729950	63.87	ppm		99
80) Di-n-butylphthalate	12.602	149	2166403	71.36	ppm		99
81) Fluoranthene	13.549	202	1686597	64.57	ppm		96
83) Benzidine	13.865	184	788250	63.84	ppm		97
84) Pyrene	13.956	202	1745436	61.75	ppm		95
86) Butylbenzylphthalate	15.421	149	868585	71.18	ppm		97
87) 3,3'-Dichlorobenzidine	16.293	252	502513	60.05	ppm		98
88) Benzo[a]anthracene	16.245	228	1401010	63.86	ppm		99
89) Chrysene	16.330	228	1339148	65.78	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024406.D
Acq On : 21 Jul 2012 12:29 pm
Operator : fouads
Sample : ic1186-60
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 06:56:15 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.619	149	1202955	75.51 ppm	96
92) Di-n-octylphthalate	17.742	149	1965250	77.79 ppm	99
93) Benzo[b]fluoranthene	18.186	252	1227522	58.15 ppm	95
94) Benzo[k]fluoranthene	18.234	252	1270797	69.40 ppm	96
95) Benzo[a]pyrene	18.711	252	1213025	63.95 ppm	94
96) Indeno[1,2,3-cd]pyrene	20.406	276	1017316	65.17 ppm	95
97) Dibenz[a,h]anthracene	20.443	278	1086182	69.31 ppm	93
98) Benzo[g,h,i]perylene	20.764	276	1168027	69.22 ppm	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

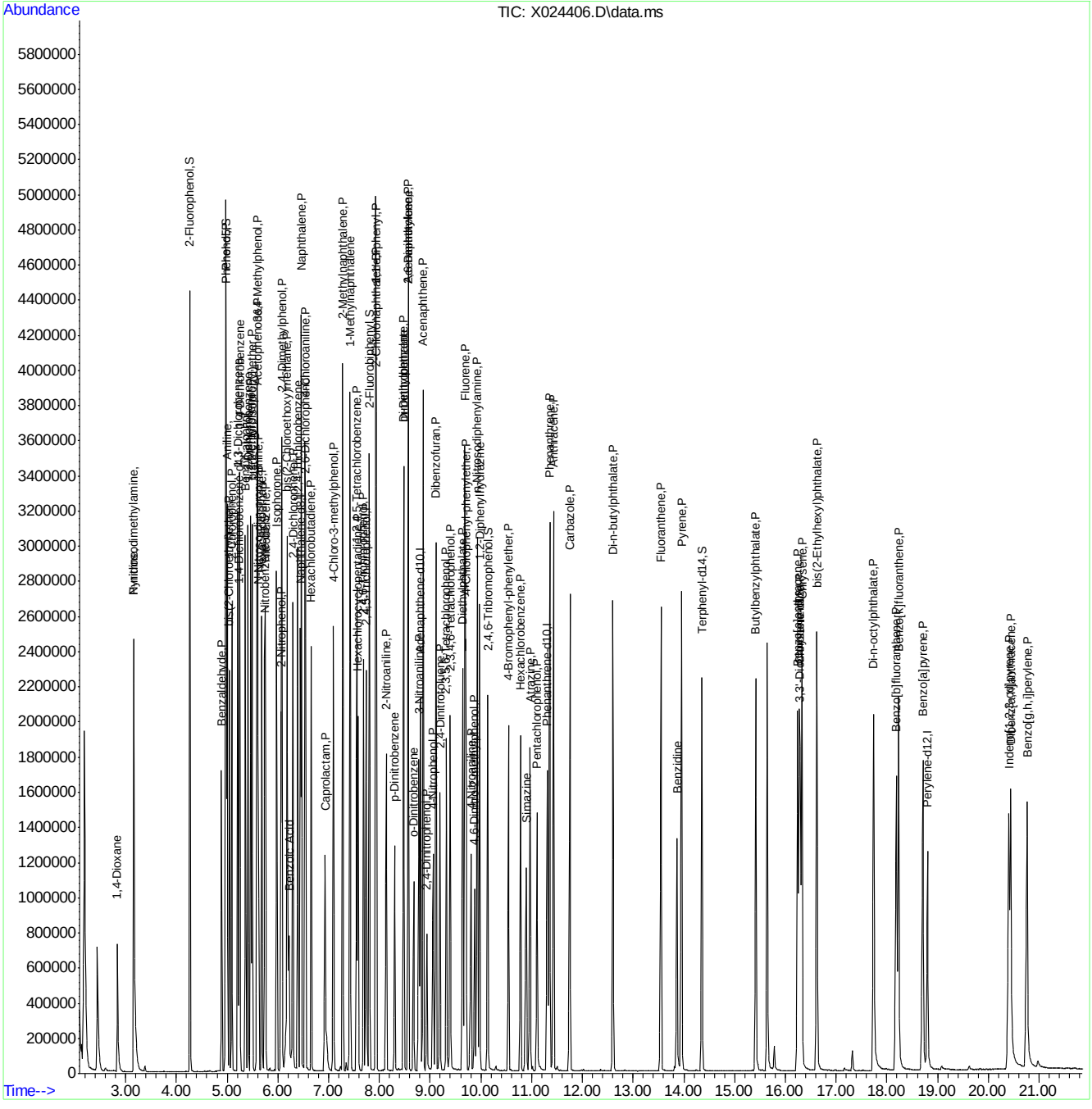
9.8.16

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024406.D
Acq On : 21 Jul 2012 12:29 pm
Operator : fouads
Sample : ic1186-60
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 06:56:15 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024407.D
Acq On : 21 Jul 2012 12:56 pm
Operator : fouads
Sample : icc1186-75
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 06:56:16 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	344739	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1371484	40.00	ppm	0.00
41) Acenaphthene-d10	8.815	164	703476	40.00	ppm	0.00
67) Phenanthrene-d10	11.313	188	1053681	40.00	ppm	0.00
82) Chrysene-d12	16.282	240	792918	40.00	ppm	0.01
91) Perylene-d12	18.807	264	749574	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.269	112	1955444	160.23	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 160.23%#			
9) Phenol-d5	4.975	99	2459587	155.89	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 155.89%#			
23) Nitrobenzene-d5	5.745	82	1126437	82.54	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 165.08%#			
45) 2-Fluorobiphenyl	7.804	172	1872171	79.41	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 158.82%#			
71) 2,4,6-Tribromophenol	10.142	330	403760	132.74	ppm	0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 132.74%#			
85) Terphenyl-d14	14.362	244	1390601	78.25	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 156.50%#			

Target Compounds

							Qvalue
2) 1,4-Dioxane	2.836	88	438561	70.32	ppm		96
3) N-nitrosodimethylamine	3.162	42	517268	60.85	ppm	#	69
4) Pyridine	3.156	79	1258505	75.28	ppm		97
6) Benzaldehyde	4.889	106	511596	63.54	ppm		97
7) Aniline	5.002	93	1864051	86.16	ppm		80
8) bis(2-Chloroethyl)ether	5.045	93	1136034	93.87	ppm		96
10) Phenol	4.986	94	1432944	85.66	ppm		85
11) 2-Chlorophenol	5.093	128	1088523	80.31	ppm		98
12) 1,3-Dichlorobenzene	5.210	146	1137444	75.29	ppm		99
13) 1,4-Dichlorobenzene	5.253	146	1140842	76.36	ppm		96
14) 1,2-Dichlorobenzene	5.414	146	1070618	74.22	ppm		98
15) Benzyl alcohol	5.365	108	770494	80.44	ppm		81
16) 2-Methylphenol	5.467	108	1051258	79.48	ppm		88
17) bis(2-chloroisopropyl)...	5.494	45	1979834	75.81	ppm		85
18) Acetophenone	5.606	105	1392568	75.67	ppm		95
19) N-Nitroso-di-n-propyla...	5.622	70	739927	69.43	ppm		94
20) 3&4-Methylphenol	5.590	108	1065283	77.96	ppm		95
21) Hexachloroethane	5.681	117	458804	77.90	ppm		79
24) Nitrobenzene	5.761	77	1080298	81.85	ppm		90
25) Isophorone	5.981	82	2108236	80.19	ppm		99
26) 2-Nitrophenol	6.061	139	539363	69.70	ppm		85
27) 2,4-Dimethylphenol	6.088	107	1025719	74.36	ppm		88
28) bis(2-Chloroethoxy)met...	6.184	93	1246003	85.24	ppm		98
29) Benzoic Acid	6.243	105	921082	68.39	ppm		89
30) 2,4-Dichlorophenol	6.296	162	819115	76.63	ppm		97
31) 1,2,4-Trichlorobenzene	6.398	180	869017	74.89	ppm		99
32) Naphthalene	6.467	128	2970482	79.50	ppm		99
33) 4-Chloroaniline	6.537	127	1278187	82.98	ppm		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024407.D
Acq On : 21 Jul 2012 12:56 pm
Operator : fouads
Sample : icc1186-75
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 06:56:16 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.547	162	812530	77.58	ppm		97
35) Hexachlorobutadiene	6.660	225	432982	75.05	ppm		98
36) Caprolactam	6.949	113	341752	80.02	ppm		89
37) 4-Chloro-3-methylphenol	7.098	107	867080	75.87	ppm		93
38) 2-Methylnaphthalene	7.280	142	1916791	57.74	ppm		96
39) 1-Methylnaphthalene	7.425	142	1799693	75.02	ppm		95
40) 1,2,4,5-Tetrachloroben...	7.558	216	793867	71.62	ppm		99
42) Hexachlorocyclopentadiene	7.585	237	483925	78.42	ppm		99
43) 2,4,6-Trichlorophenol	7.692	196	532324	74.05	ppm		98
44) 2,4,5-Trichlorophenol	7.746	196	558851	82.16	ppm		98
46) 1,1'-Biphenyl	7.933	154	2103278	76.46	ppm		99
47) 2-Chloronaphthalene	7.949	162	1640400	76.35	ppm		96
48) 2-Nitroaniline	8.141	65	517979	63.67	ppm		87
49) p-Dinitrobenzene	8.307	75	336766	64.45	ppm		96
50) Dimethylphthalate	8.484	163	1732720	71.33	ppm		99
51) m-Dinitrobenzene	8.494	168	312734	81.94	ppm	#	63
52) 2,6-Dinitrotoluene	8.575	165	397143	69.29	ppm	#	65
53) o-Dinitrobenzene	8.682	50	259652	57.51	ppm		91
54) Acenaphthylene	8.575	152	2651451	74.21	ppm		99
55) 3-Nitroaniline	8.789	138	534678	75.45	ppm		93
56) Acenaphthene	8.869	153	1687935	75.07	ppm		99
57) 2,4-Dinitrophenol	8.944	184	196100	61.24	ppm		88
58) 4-Nitrophenol	9.072	109	235661	65.79	ppm	#	75
59) Dibenzofuran	9.120	168	2176683	73.11	ppm		89
60) 2,4-Dinitrotoluene	9.206	165	518735	70.27	ppm		90
61) 2,3,5,6-Tetrachlorophenol	9.323	232	417247	74.05	ppm		95
62) 2,3,4,6-Tetrachlorophenol	9.398	232	409352	72.28	ppm		96
63) Diethylphthalate	9.650	149	1770285	75.57	ppm		99
64) Fluorene	9.692	166	1813611	75.93	ppm		98
65) 4-Chlorophenyl-phenyle...	9.714	204	762115	73.06	ppm		95
66) 4-Nitroaniline	9.821	138	497909	76.02	ppm		77
68) 4,6-Dinitro-2-methylph...	9.890	198	266864	66.43	ppm		93
69) n-Nitrosodiphenylamine	9.939	169	1468853	96.20	ppm		94
70) 1,2-Diphenylhydrazine	9.981	77	1854589	68.43	ppm		94
72) 4-Bromophenyl-phenylether	10.548	248	413619	76.62	ppm		92
73) Hexachlorobenzene	10.789	284	435470	73.50	ppm		94
74) Simazine	10.907	201	205873	76.12	ppm		93
75) Atrazine	10.982	200	398863	68.22	ppm		80
76) Pentachlorophenol	11.110	266	321923	80.96	ppm		98
77) Phenanthrene	11.361	178	2312705	77.75	ppm		100
78) Anthracene	11.441	178	2405139	77.71	ppm		100
79) Carbazole	11.762	167	2247953	78.71	ppm		100
80) Di-n-butylphthalate	12.607	149	2826916	88.31	ppm		99
81) Fluoranthene	13.554	202	2169659	78.78	ppm		96
83) Benzidine	13.870	184	1020979	81.51	ppm		97
84) Pyrene	13.961	202	2257142	78.71	ppm		95
86) Butylbenzylphthalate	15.421	149	1109920	89.66	ppm		96
87) 3,3'-Dichlorobenzidine	16.298	252	617624	72.75	ppm		97
88) Benzo[a]anthracene	16.250	228	1785027	80.20	ppm		99
89) Chrysene	16.335	228	1659880	80.37	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024407.D
Acq On : 21 Jul 2012 12:56 pm
Operator : fouads
Sample : icc1186-75
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 06:56:16 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.624	149	1546942	95.72 ppm	96
92) Di-n-octylphthalate	17.742	149	2539206	92.65 ppm	98
93) Benzo[b]fluoranthene	18.197	252	1611836	70.38 ppm	95
94) Benzo[k]fluoranthene	18.240	252	1606369	80.87 ppm	95
95) Benzo[a]pyrene	18.716	252	1593587	77.45 ppm	94
96) Indeno[1,2,3-cd]pyrene	20.411	276	1443597	85.25 ppm	94
97) Dibenz[a,h]anthracene	20.449	278	1454239	85.55 ppm	90
98) Benzo[g,h,i]perylene	20.775	276	1549701	84.66 ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

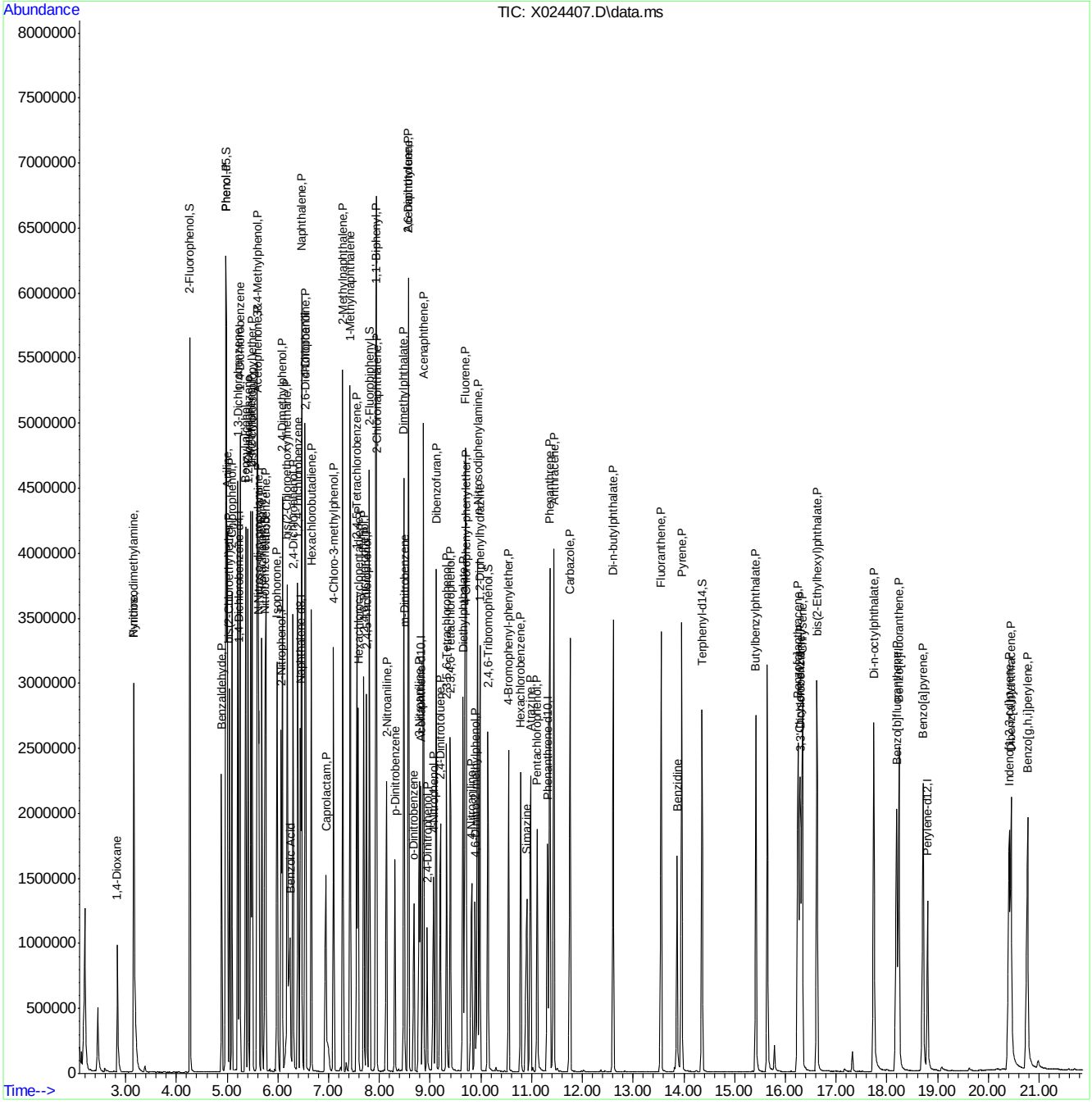
9.8.17

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024407.D
Acq On : 21 Jul 2012 12:56 pm
Operator : fouads
Sample : icc1186-75
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 06:56:16 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



X024408.D

Manual Integrations APPROVED (compounds with "m" flag)

Naresh Jiawan 07/23/12 10:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 07:08:41 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	350470	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1411644	40.00	ppm	0.00
41) Acenaphthene-d10	8.815	164	723597	40.00	ppm	0.00
67) Phenanthrene-d10	11.313	188	1093147	40.00	ppm	0.00
82) Chrysene-d12	16.282	240	791124	40.00	ppm	0.01
91) Perylene-d12	18.807	264	767869	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.264	112	2288878	184.48	ppm	0.00
Spiked Amount 100.000	Range 14 - 62		Recovery = 184.48%#			
9) Phenol-d5	4.980	99	2847159	177.51	ppm	0.01
Spiked Amount 100.000	Range 10 - 40		Recovery = 177.51%#			
23) Nitrobenzene-d5	5.745	82	1327270	94.49	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 188.98%#			
45) 2-Fluorobiphenyl	7.804	172	2234434	92.14	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 184.28%#			
71) 2,4,6-Tribromophenol	10.147	330	472443	149.71	ppm	0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 149.71%#			
85) Terphenyl-d14	14.362	244	1627490	91.79	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 183.58%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.830	88	498863	78.68	ppm	95
3) N-nitrosodimethylamine	3.157	42	578352	66.93	ppm #	74
4) Pyridine	3.151	79	1396616	82.17	ppm	97
6) Benzaldehyde	4.889	106	544330	66.50	ppm	96
7) Aniline	5.002	93	2145785	97.56	ppm	81
8) bis(2-Chloroethyl)ether	5.050	93	1323344	107.56	ppm	94
10) Phenol	4.991	94	1627925	95.72	ppm	93
11) 2-Chlorophenol	5.093	128	1295671	94.03	ppm	97
12) 1,3-Dichlorobenzene	5.210	146	1344146	87.51	ppm	98
13) 1,4-Dichlorobenzene	5.253	146	1341845	88.34	ppm	96
14) 1,2-Dichlorobenzene	5.414	146	1285581	87.67	ppm	98
15) Benzyl alcohol	5.365	108	918256	94.30	ppm	79
16) 2-Methylphenol	5.467	108	1261229	93.80	ppm	87
17) bis(2-chloroisopropyl)...	5.494	45	2262730	85.23	ppm	85
18) Acetophenone	5.606	105	1629088	87.07	ppm	94
19) N-Nitroso-di-n-propyla...	5.628	70	872878	80.56	ppm	94
20) 3&4-Methylphenol	5.596	108	1249322	89.93	ppm	90
21) Hexachloroethane	5.681	117	540425	90.25	ppm	80
24) Nitrobenzene	5.761	77	1257884	92.60	ppm	90
25) Isophorone	5.986	82	2516835	93.01	ppm	98
26) 2-Nitrophenol	6.066	139	660332	82.91	ppm	81
27) 2,4-Dimethylphenol	6.088	107	1235919	87.05	ppm	89
28) bis(2-Chloroethoxy)met...	6.189	93	1465872	97.43	ppm	97
29) Benzoic Acid	6.253	105	1219388	87.96	ppm	88
30) 2,4-Dichlorophenol	6.302	162	983360	89.38	ppm	98
31) 1,2,4-Trichlorobenzene	6.398	180	1054075	88.25	ppm	98
32) Naphthalene	6.467	128	3565336	92.70	ppm	99
33) 4-Chloroaniline	6.537	127	1532540	96.66	ppm	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 07:08:41 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.548	162	968032	89.80	ppm		98
35) Hexachlorobutadiene	6.660	225	502953	84.69	ppm		98
36) Caprolactam	6.959	113	416094m	94.66	ppm		
37) 4-Chloro-3-methylphenol	7.104	107	1034664	87.95	ppm		90
38) 2-Methylnaphthalene	7.280	142	2279467	66.71	ppm		96
39) 1-Methylnaphthalene	7.425	142	2140644	86.70	ppm		95
40) 1,2,4,5-Tetrachloroben...	7.558	216	957626	83.94	ppm		99
42) Hexachlorocyclopentadiene	7.585	237	584095	92.02	ppm		99
43) 2,4,6-Trichlorophenol	7.692	196	641827	86.80	ppm		97
44) 2,4,5-Trichlorophenol	7.746	196	673647	96.29	ppm		99
46) 1,1'-Biphenyl	7.933	154	2498513	88.30	ppm		99
47) 2-Chloronaphthalene	7.949	162	1939225	87.75	ppm		97
48) 2-Nitroaniline	8.141	65	614302	73.42	ppm		86
49) p-Dinitrobenzene	8.307	75	409182	76.13	ppm		97
50) Dimethylphthalate	8.489	163	2089044	83.60	ppm		99
51) m-Dinitrobenzene	8.500	168	382374	97.40	ppm	#	59
52) 2,6-Dinitrotoluene	8.580	165	479055	81.26	ppm	#	67
53) o-Dinitrobenzene	8.687	50	314051	67.62	ppm		91
54) Acenaphthylene	8.575	152	3162649	86.05	ppm		99
55) 3-Nitroaniline	8.794	138	654232	89.76	ppm		98
56) Acenaphthene	8.874	153	2012441	87.01	ppm		98
57) 2,4-Dinitrophenol	8.949	184	257778	78.27	ppm		86
58) 4-Nitrophenol	9.077	109	284632	77.25	ppm	#	71
59) Dibenzofuran	9.126	168	2595385	84.75	ppm		96
60) 2,4-Dinitrotoluene	9.206	165	643571	84.76	ppm		93
61) 2,3,5,6-Tetrachlorophenol	9.329	232	504807	87.10	ppm		96
62) 2,3,4,6-Tetrachlorophenol	9.404	232	490866	84.27	ppm		98
63) Diethylphthalate	9.650	149	2147172	89.11	ppm		99
64) Fluorene	9.693	166	2159227	87.88	ppm		97
65) 4-Chlorophenyl-phenyle...	9.714	204	896383	83.55	ppm		91
66) 4-Nitroaniline	9.826	138	613571	91.08	ppm		77
68) 4,6-Dinitro-2-methylph...	9.896	198	336233	80.68	ppm		94
69) n-Nitrosodiphenylamine	9.944	169	1806845	114.07	ppm		96
70) 1,2-Diphenylhydrazine	9.981	77	2147500	76.37	ppm		94
72) 4-Bromophenyl-phenylether	10.548	248	503168	89.84	ppm		92
73) Hexachlorobenzene	10.789	284	522917	85.07	ppm		92
74) Simazine	10.912	201	243371	86.74	ppm		100
75) Atrazine	10.987	200	473081	77.99	ppm		80
76) Pentachlorophenol	11.115	266	381730	92.53	ppm		99
77) Phenanthrene	11.361	178	2774996	89.93	ppm		100
78) Anthracene	11.442	178	2831214	88.18	ppm		99
79) Carbazole	11.762	167	2708967	91.42	ppm		99
80) Di-n-butylphthalate	12.608	149	3373990	101.60	ppm		99
81) Fluoranthene	13.560	202	2557251	89.50	ppm		97
83) Benzidine	13.870	184	1152115	92.19	ppm		97
84) Pyrene	13.966	202	2675071	93.49	ppm		96
86) Butylbenzylphthalate	15.426	149	1348866	109.21	ppm		94
87) 3,3'-Dichlorobenzidine	16.303	252	712517	84.12	ppm		96
88) Benzo[a]anthracene	16.255	228	2086471	93.96	ppm		99
89) Chrysene	16.341	228	1971581	95.68	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 07:08:41 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.624	149	1808983	112.19 ppm	95
92) Di-n-octylphthalate	17.742	149	3020255	107.58 ppm	98
93) Benzo[b]fluoranthene	18.197	252	1964024	83.72 ppm	95
94) Benzo[k]fluoranthene	18.245	252	1850306	90.93 ppm	95
95) Benzo[a]pyrene	18.721	252	1938326	91.96 ppm	94
96) Indeno[1,2,3-cd]pyrene	20.417	276	1706580	98.37 ppm	97
97) Dibenz[a,h]anthracene	20.454	278	1691728	97.14 ppm	89
98) Benzo[g,h,i]perylene	20.780	276	1800301	96.00 ppm	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

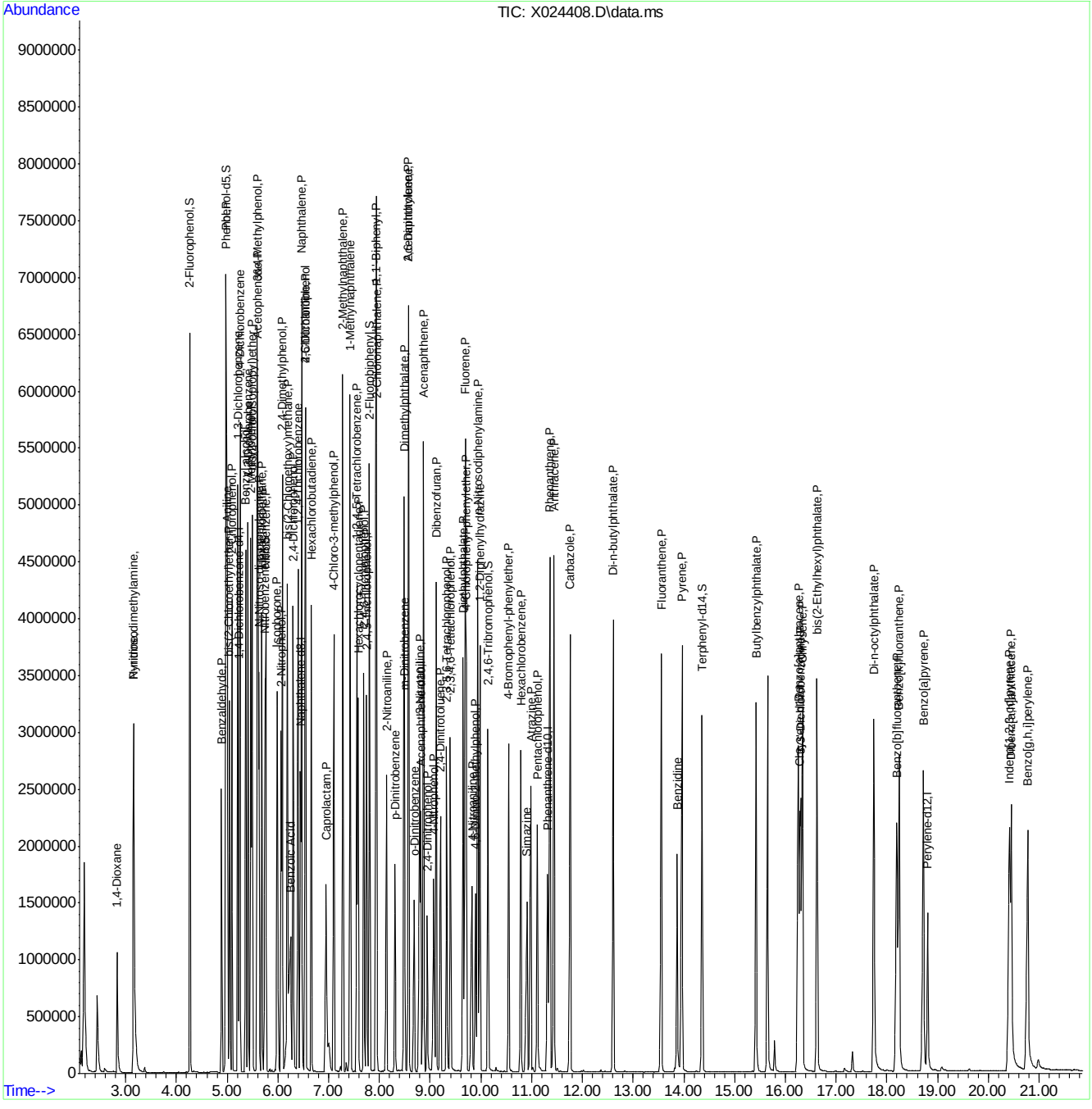
9.8.18

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 07:08:41 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

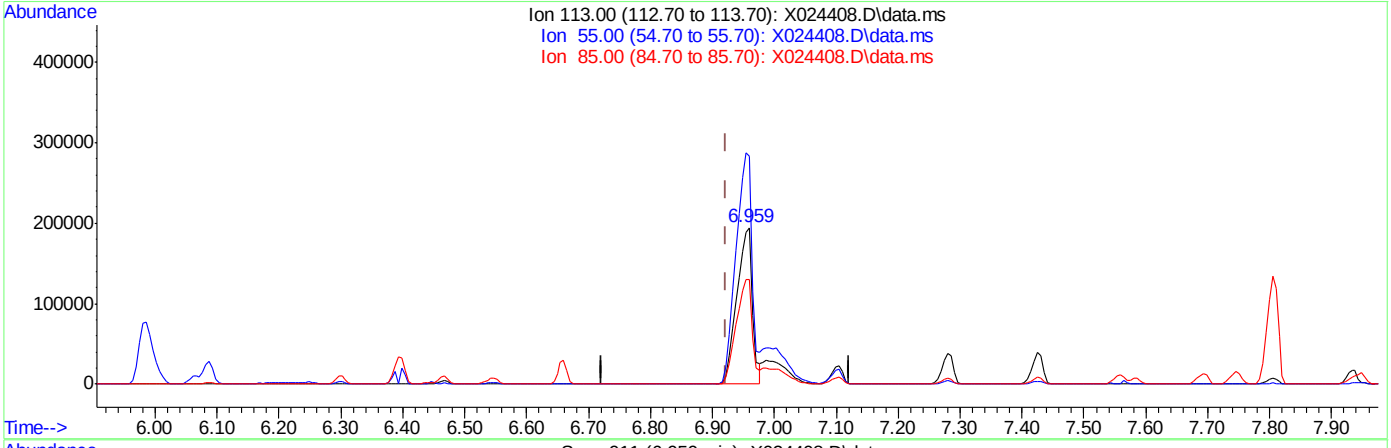
Sample Number:	SX1186-IC1186	**Method:**	SW846 8270D
Lab FileID:	X024408.D	**Analyst approved:**	07/23/12 08:50 Fouad Sekkar
Injection Time:	07/21/12 13:24	**Supervisor approved:**	07/23/12 10:31 Naresh Jiawan

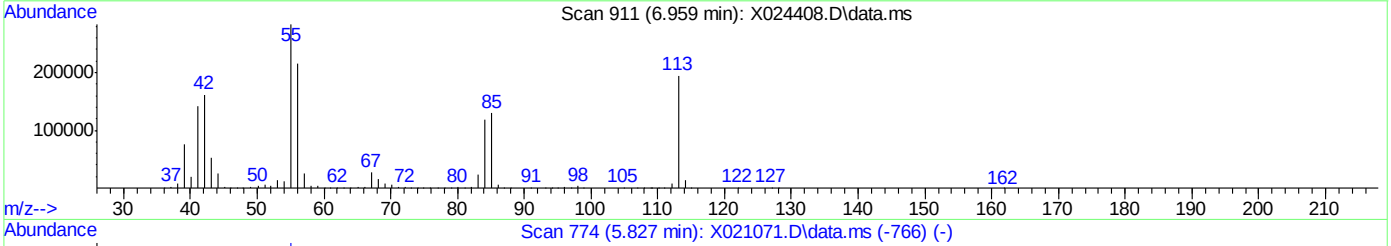
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.96	Split peak

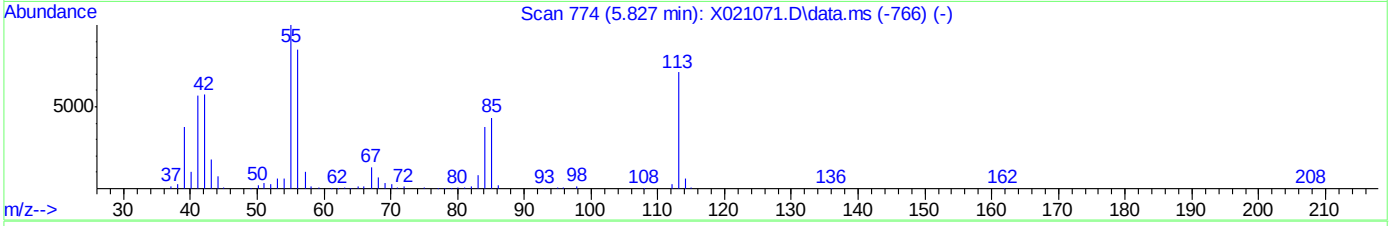
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 06:56:17 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration







TIC: X024408.D\data.ms

(36) Caprolactam (P)

6.959min (+0.038) 75.77ppm

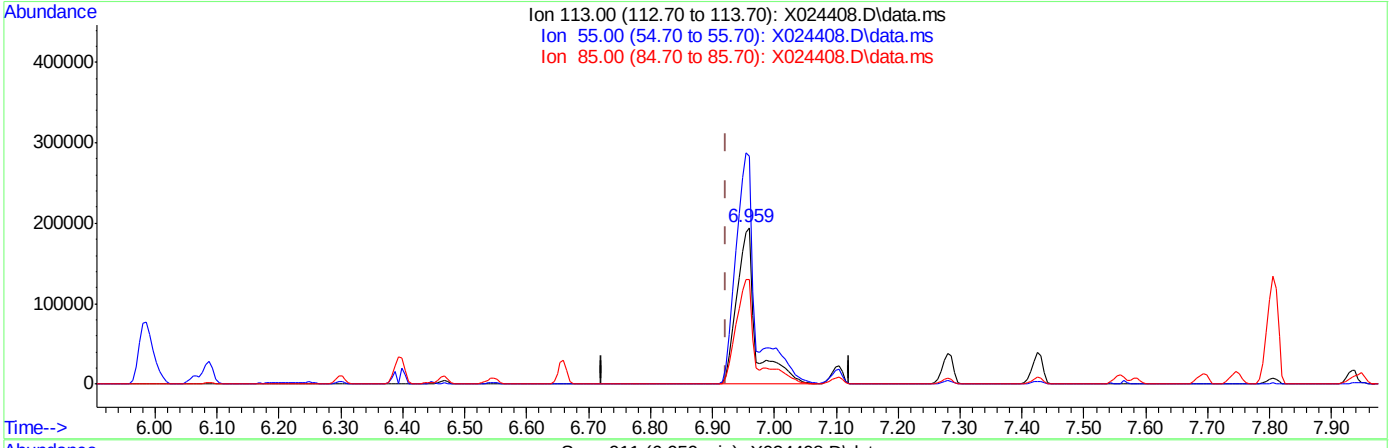
response 333083

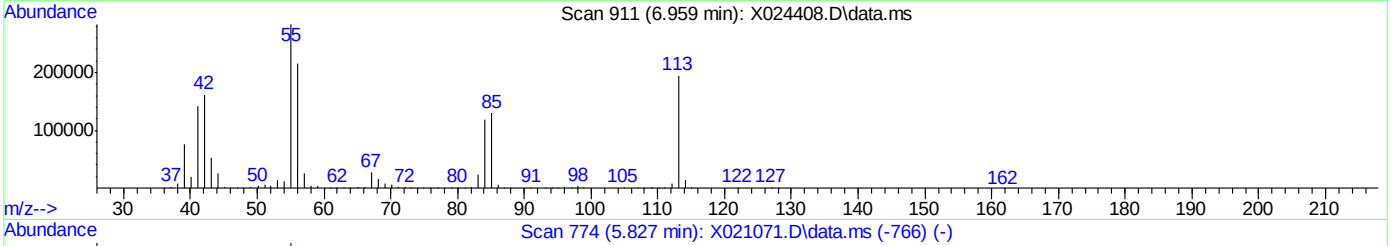
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	144.75
85.00	61.10	66.30
0.00	0.00	0.00

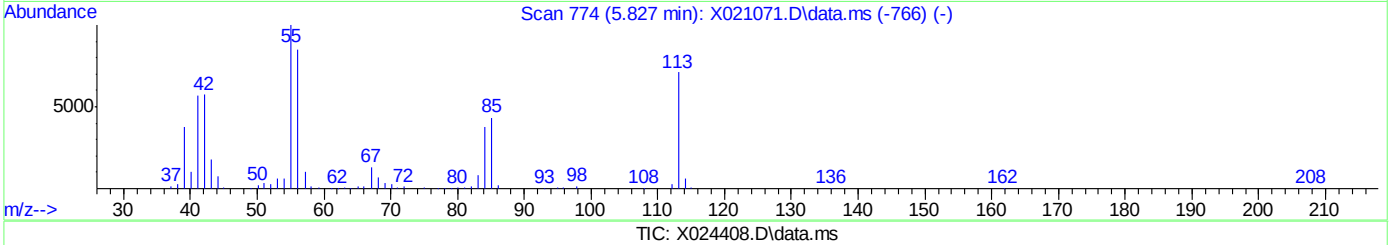
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024408.D
Acq On : 21 Jul 2012 1:24 pm
Operator : fouads
Sample : ic1186-100
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 06:56:17 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Sat Jul 21 11:04:58 2012
Response via : Initial Calibration







TIC: X024408.D\data.ms

(36) Caprolactam (P)

6.959min (+0.038) 94.66ppm m

response 416094

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	145.72
85.00	61.10	66.65
0.00	0.00	0.00

9.8.18.3

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024409.D
Acq On : 21 Jul 2012 1:51 pm
Operator : fouads
Sample : icv1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 07:27:08 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 23 07:18:02 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.237	152	288428	40.00	ppm	0.00
22) Naphthalene-d8	6.441	136	1124477	40.00	ppm	0.00
41) Acenaphthene-d10	8.805	164	526392	40.00	ppm	0.00
67) Phenanthrene-d10	11.308	188	745389	40.00	ppm	0.00
82) Chrysene-d12	16.271	240	537659	40.00	ppm	0.00
91) Perylene-d12	18.796	264	456249	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
71) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.862	88	277162	54.00	ppm	99
3) N-nitrosodimethylamine	3.178	42	316568	52.56	ppm	93
6) Benzaldehyde	4.890	106	441701	83.93	ppm	100
8) bis(2-Chloroethyl)ether	5.039	93	650308	50.29	ppm	98
10) Phenol	4.975	94	806939	48.91	ppm	96
11) 2-Chlorophenol	5.093	128	617380	51.91	ppm	98
12) 1,3-Dichlorobenzene	5.210	146	642189	52.36	ppm	99
13) 1,4-Dichlorobenzene	5.253	146	656625	52.46	ppm	98
14) 1,2-Dichlorobenzene	5.408	146	613273	52.47	ppm	97
16) 2-Methylphenol	5.462	108	560830	47.70	ppm	97
17) bis(2-chloroisopropyl)...	5.489	45	1149353	49.44	ppm	96
18) Acetophenone	5.596	105	794354	48.80	ppm	98
19) N-Nitroso-di-n-propyla...	5.617	70	441473	50.72	ppm	98
20) 3&4-Methylphenol	5.590	108	1114318	91.97	ppm	96
21) Hexachloroethane	5.681	117	268506	52.48	ppm	99
24) Nitrobenzene	5.756	77	623779	51.70	ppm	98
25) Isophorone	5.970	82	991253	42.39	ppm	98
26) 2-Nitrophenol	6.061	139	298988	54.80	ppm	100
27) 2,4-Dimethylphenol	6.077	107	509519	44.67	ppm	95
28) bis(2-Chloroethoxy)met...	6.179	93	726979	51.22	ppm	99
29) Benzoic Acid	6.237	105	875112	89.65	ppm	98
30) 2,4-Dichlorophenol	6.291	162	442202	51.59	ppm	97
31) 1,2,4-Trichlorobenzene	6.392	180	464218	50.24	ppm	97
32) Naphthalene	6.462	128	1643658	50.69	ppm	99
34) 2,6-Dichlorophenol	6.542	162	429648	48.60	ppm	99
35) Hexachlorobutadiene	6.655	225	241530	51.33	ppm	99
36) Caprolactam	6.917	113	170730	45.68	ppm	96
37) 4-Chloro-3-methylphenol	7.088	107	451362	47.60	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024409.D
Acq On : 21 Jul 2012 1:51 pm
Operator : fouads
Sample : icv1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 07:27:08 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 23 07:18:02 2012
Response via : Initial Calibration

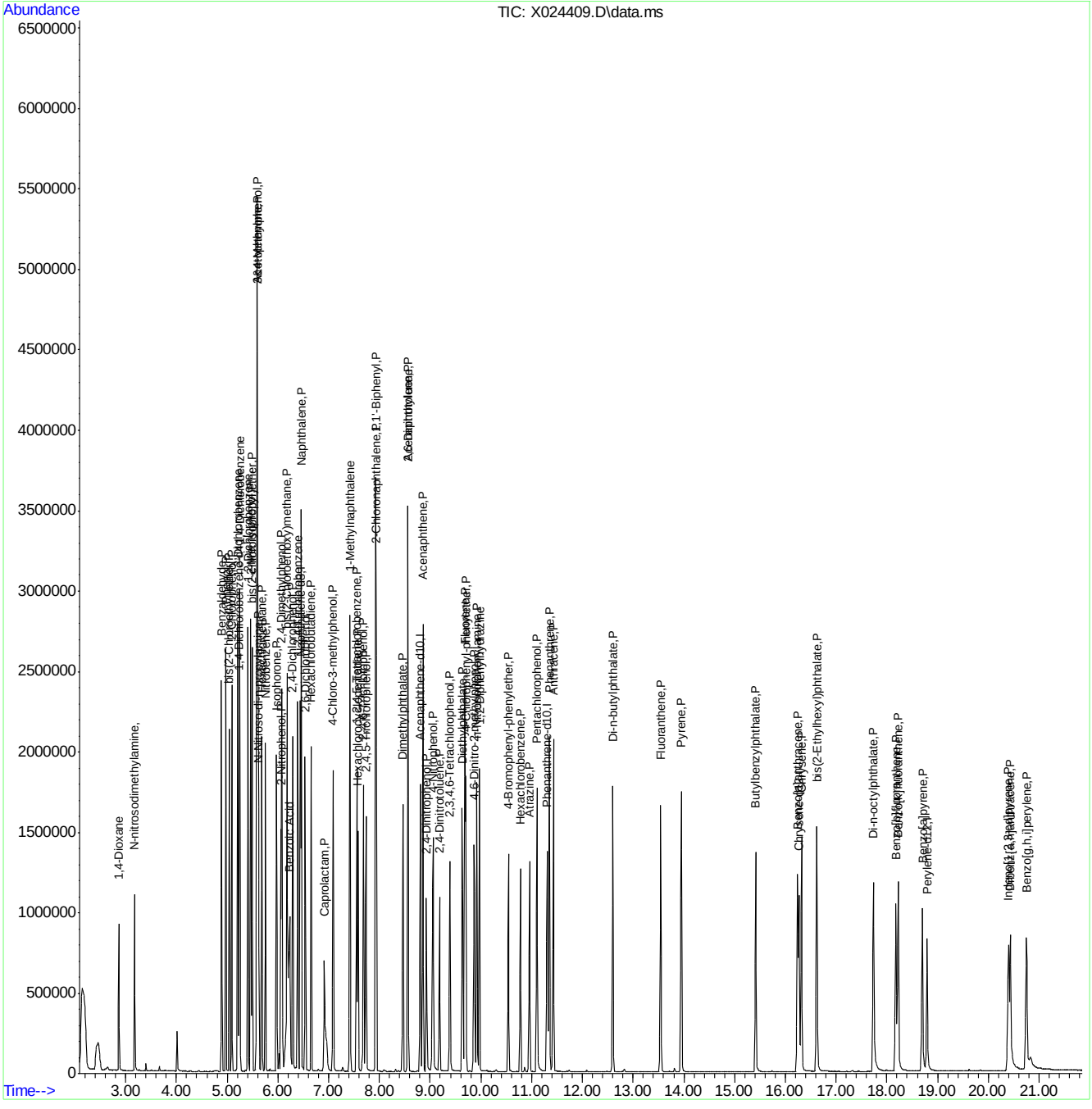
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
39) 1-Methylnaphthalene	7.419	142	914185	47.61 ppm	99
40) 1,2,4,5-Tetrachloroben...	7.553	216	381158	44.40 ppm	98
42) Hexachlorocyclopentadiene	7.580	237	253212	58.10 ppm	98
43) 2,4,6-Trichlorophenol	7.687	196	265165	53.18 ppm	100
44) 2,4,5-Trichlorophenol	7.735	196	280984	53.45 ppm	100
46) 1,1'-Biphenyl	7.928	154	1092519	52.34 ppm	99
47) 2-Chloronaphthalene	7.938	162	839240	52.72 ppm	98
50) Dimethylphthalate	8.462	163	891967	52.06 ppm	100
52) 2,6-Dinitrotoluene	8.564	165	193565	51.12 ppm	90
54) Acenaphthylene	8.564	152	1362344	51.95 ppm	100
56) Acenaphthene	8.858	153	878327	52.73 ppm	98
57) 2,4-Dinitrophenol	8.928	184	172507	81.95 ppm	91
58) 4-Nitrophenol	9.061	109	242814	108.37 ppm	93
60) 2,4-Dinitrotoluene	9.184	165	246508	51.96 ppm	90
62) 2,3,4,6-Tetrachlorophenol	9.388	232	196900	50.71 ppm	98
63) Diethylphthalate	9.639	149	886825	51.24 ppm	100
64) Fluorene	9.682	166	890520	49.98 ppm	99
65) 4-Chlorophenyl-phenyle...	9.703	204	395628	52.23 ppm	94
68) 4,6-Dinitro-2-methylph...	9.869	198	265634	93.36 ppm	95
69) n-Nitrosodiphenylamine	9.923	169	584144	51.90 ppm	98
70) 1,2-Diphenylhydrazine	9.971	77	986349	54.10 ppm	95
72) 4-Bromophenyl-phenylether	10.543	248	207533	53.60 ppm	96
73) Hexachlorobenzene	10.778	284	216069	51.22 ppm	99
75) Atrazine	10.960	200	187640	50.52 ppm	95
76) Pentachlorophenol	11.105	266	283063	103.64 ppm	97
77) Phenanthrene	11.351	178	1103170	51.43 ppm	99
78) Anthracene	11.431	178	1131358	51.29 ppm	99
80) Di-n-butylphthalate	12.602	149	1314271	50.65 ppm	100
81) Fluoranthene	13.544	202	951523	47.30 ppm	97
84) Pyrene	13.950	202	1024267	52.02 ppm	98
86) Butylbenzylphthalate	15.416	149	503785	52.27 ppm	95
88) Benzo[a]anthracene	16.239	228	782898	50.41 ppm	99
89) Chrysene	16.320	228	759479	51.10 ppm	100
90) bis(2-Ethylhexyl)phtha...	16.619	149	716531	54.01 ppm	100
92) Di-n-octylphthalate	17.737	149	1096434	54.79 ppm	99
93) Benzo[b]fluoranthene	18.181	252	643847	50.47 ppm	99
94) Benzo[k]fluoranthene	18.224	252	715519	52.74 ppm	99
95) Benzo[a]pyrene	18.700	252	631048	49.50 ppm	99
96) Indeno[1,2,3-cd]pyrene	20.395	276	518026	48.00 ppm	97
97) Dibenz[a,h]anthracene	20.433	278	559357	50.70 ppm	96
98) Benzo[g,h,i]perylene	20.754	276	596419	50.12 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024409.D
Acq On : 21 Jul 2012 1:51 pm
Operator : fouads
Sample : icv1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 23 07:27:08 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 23 07:18:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024410.D
Acq On : 21 Jul 2012 2:18 pm
Operator : fouads
Sample : icv1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 07:37:01 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 23 07:34:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.232	152	282423	40.00 ppm	0.00
22) Naphthalene-d8	6.435	136	1268077	40.00 ppm	0.00
41) Acenaphthene-d10	8.805	164	584006	40.00 ppm	0.00
67) Phenanthrene-d10	11.303	188	870571	40.00 ppm	0.00
82) Chrysene-d12	16.266	240	653418	40.00 ppm	-0.01
91) Perylene-d12	18.796	264	577189	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 14 - 62		Recovery =	0.00%#	
9) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 100.000	Range 10 - 40		Recovery =	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery =	0.00%#	
45) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery =	0.00%#	
71) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery =	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery =	0.00%#	

Target Compounds					Qvalue
4) Pyridine	3.157	79	772539	55.81 ppm	100
6) Benzaldehyde	4.890	106	194274	23.57 ppm	100
7) Aniline	4.997	93	881649	42.90 ppm	97
15) Benzyl alcohol	5.360	108	418461	49.93 ppm	97
25) Isophorone	5.965	82	1079413	40.93 ppm	99
33) 4-Chloroaniline	6.526	127	628276	39.02 ppm	94
38) 2-Methylnaphthalene	7.275	142	1011946	44.04 ppm	97
48) 2-Nitroaniline	8.131	65	295678	53.33 ppm	90
51) m-Dinitrobenzene	8.473	168	147968	47.55 ppm	90
55) 3-Nitroaniline	8.773	138	258682	45.97 ppm	97
59) Dibenzofuran	9.110	168	1172763	49.40 ppm	89
66) 4-Nitroaniline	9.784	138	265443	51.18 ppm	94
74) Simazine	10.869	201	70885	32.49 ppm	94
79) Carbazole	11.752	167	1186976	48.44 ppm	99
83) Benzidine	13.859	184	695428	58.75 ppm	99
87) 3,3'-Dichlorobenzidine	16.288	252	304133	44.53 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

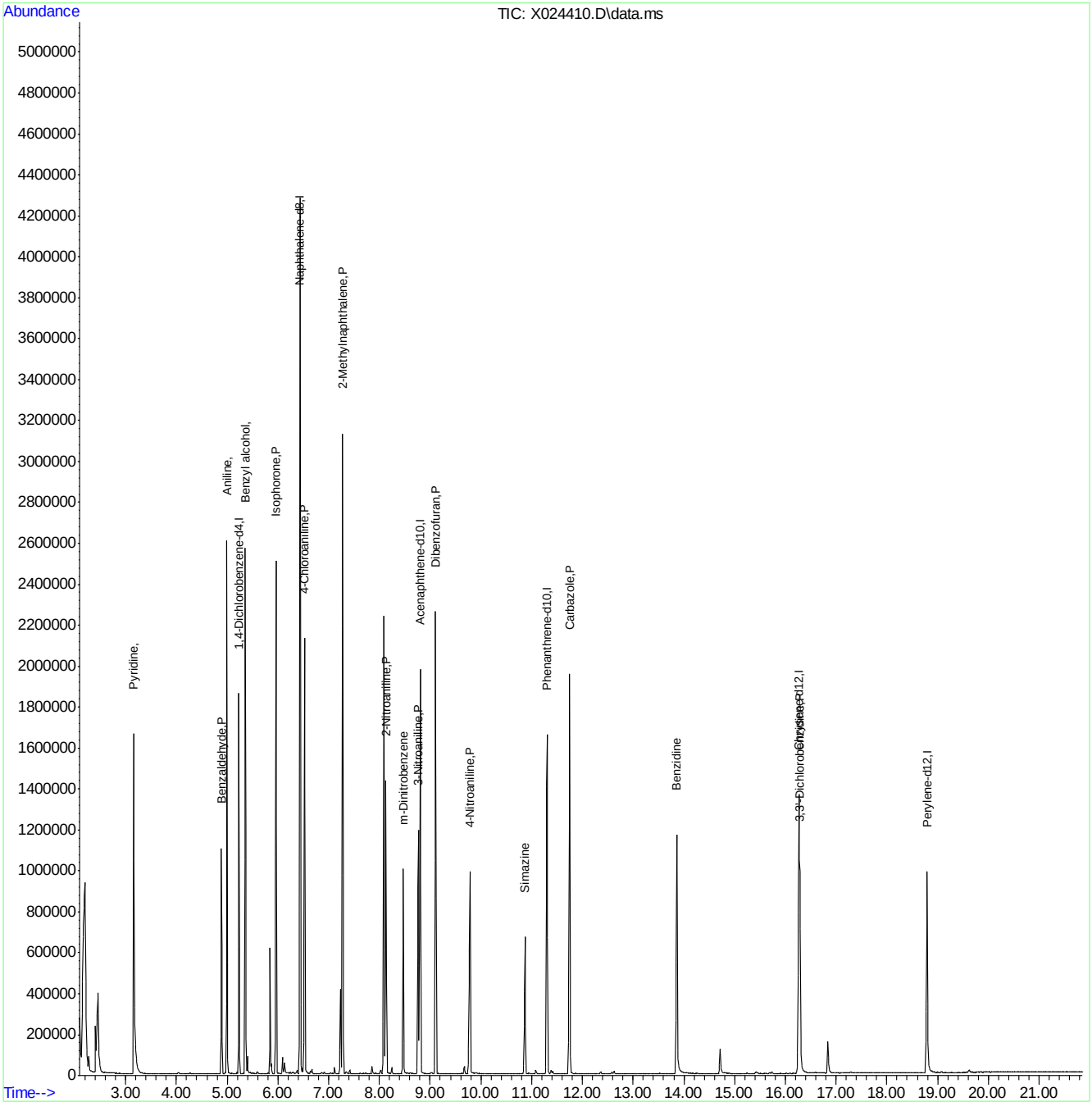
9.8.20

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072112\
Data File : X024410.D
Acq On : 21 Jul 2012 2:18 pm
Operator : fouads
Sample : icv1186-50
Misc : op42733,sx1186,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 23 07:37:01 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Jul 23 07:34:34 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
07/30/12 09:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 06:50:25 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.101	152	457218	40.00	ppm	0.00
22) Naphthalene-d8	6.283	136	1841578	40.00	ppm	0.00
41) Acenaphthene-d10	8.621	164	925438	40.00	ppm	0.00
67) Phenanthrene-d10	11.108	188	1409603	40.00	ppm	0.00
82) Chrysene-d12	16.066	240	1016604	40.00	ppm	0.01
91) Perylene-d12	18.591	264	905296	40.00	ppm	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	4.144	112	1697058	94.97	ppm	-0.01
Spiked Amount 100.000	Range 14 - 62		Recovery = 94.97%#			
9) Phenol-d5	4.850	99	2078209	88.97	ppm	0.00
Spiked Amount 100.000	Range 10 - 40		Recovery = 88.97%#			
23) Nitrobenzene-d5	5.599	82	986482	48.87	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 97.74%			
45) 2-Fluorobiphenyl	7.626	172	1555290	48.76	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 97.52%			
71) 2,4,6-Tribromophenol	9.937	330	339024	90.72	ppm	-0.01
Spiked Amount 100.000	Range 33 - 118		Recovery = 90.72%			
85) Terphenyl-d14	14.151	244	1173815	50.35	ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 100.70%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.711	88	405729	49.86	ppm	97
3) N-nitrosodimethylamine	3.037	42	432645	45.32	ppm	100
4) Pyridine	3.026	79	1080321	48.21	ppm	98
6) Benzaldehyde	4.764	106	563430	50.83	ppm	98
7) Aniline	4.871	93	1500652	45.10	ppm	95
8) bis(2-Chloroethyl)ether	4.920	93	982141	47.91	ppm	98
10) Phenol	4.861	94	1161053	44.39	ppm	89
11) 2-Chlorophenol	4.962	128	952978	50.55	ppm	99
12) 1,3-Dichlorobenzene	5.075	146	983959	50.61	ppm	100
13) 1,4-Dichlorobenzene	5.117	146	982415	49.52	ppm	100
14) 1,2-Dichlorobenzene	5.273	146	924096	49.88	ppm	99
15) Benzyl alcohol	5.230	108	672010	49.53	ppm	97
16) 2-Methylphenol	5.331	108	905288	48.58	ppm	99
17) bis(2-chloroisopropyl)...	5.353	45	1622699	44.03	ppm	99
18) Acetophenone	5.465	105	1096335	42.49	ppm	100
19) N-Nitroso-di-n-propyla...	5.487	70	648106	46.97	ppm	94
20) 3&4-Methylphenol	5.454	108	860166	44.79	ppm	99
21) Hexachloroethane	5.540	117	388990	47.96	ppm	90
24) Nitrobenzene	5.615	77	945452	47.85	ppm	97
25) Isophorone	5.829	82	1812483	47.32	ppm	100
26) 2-Nitrophenol	5.909	139	490799	54.93	ppm	99
27) 2,4-Dimethylphenol	5.941	107	878124	47.01	ppm	98
28) bis(2-Chloroethoxy)met...	6.037	93	1056143	45.44	ppm	99
29) Benzoic Acid	6.091	105	872318	57.49	ppm	97
30) 2,4-Dichlorophenol	6.144	162	702681	50.06	ppm	99
31) 1,2,4-Trichlorobenzene	6.235	180	759159	50.17	ppm	98
32) Naphthalene	6.305	128	2564526	48.30	ppm	99
33) 4-Chloroaniline	6.380	127	1066301	45.60	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 06:50:25 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) 2,6-Dichlorophenol	6.390	162	683977	47.24	ppm		100
35) Hexachlorobutadiene	6.497	225	363871	47.22	ppm		98
36) Caprolactam	6.781	113	291181m	47.57	ppm		
37) 4-Chloro-3-methylphenol	6.936	107	746361	48.06	ppm		99
38) 2-Methylnaphthalene	7.107	142	1606390	48.13	ppm		99
39) 1-Methylnaphthalene	7.246	142	1510638	48.04	ppm		99
40) 1,2,4,5-Tetrachloroben...	7.380	216	669385	47.61	ppm		98
42) Hexachlorocyclopentadiene	7.407	237	392390	51.21	ppm		100
43) 2,4,6-Trichlorophenol	7.514	196	452316	51.60	ppm		99
44) 2,4,5-Trichlorophenol	7.567	196	474779	51.37	ppm		98
46) 1,1'-Biphenyl	7.749	154	1667174	45.43	ppm		99
47) 2-Chloronaphthalene	7.765	162	1342032	47.95	ppm		99
48) 2-Nitroaniline	7.958	65	459153	52.26	ppm		99
49) p-Dinitrobenzene	8.123	75	306994	58.03	ppm		100
50) Dimethylphthalate	8.300	163	1450892	48.17	ppm		99
51) m-Dinitrobenzene	8.305	168	271350	55.02	ppm		78
52) 2,6-Dinitrotoluene	8.391	165	340022	51.07	ppm		91
53) o-Dinitrobenzene	8.492	50	219797	49.56	ppm		96
54) Acenaphthylene	8.385	152	2186383	47.42	ppm		99
55) 3-Nitroaniline	8.599	138	464263	52.06	ppm		95
56) Acenaphthene	8.674	153	1387911	47.40	ppm		97
57) 2,4-Dinitrophenol	8.749	184	109524	42.65	ppm		99
58) 4-Nitrophenol	8.888	109	215451	54.70	ppm	#	83
59) Dibenzofuran	8.926	168	1850023	49.18	ppm		95
60) 2,4-Dinitrotoluene	9.011	165	464924	55.74	ppm		97
61) 2,3,5,6-Tetrachlorophenol	9.129	232	365533	52.85	ppm		99
62) 2,3,4,6-Tetrachlorophenol	9.204	232	349198	51.15	ppm		98
63) Diethylphthalate	9.455	149	1515766	49.81	ppm		99
64) Fluorene	9.493	166	1525018	48.68	ppm		99
65) 4-Chlorophenyl-phenyle...	9.514	204	645571	48.48	ppm		94
66) 4-Nitroaniline	9.621	138	434661	52.89	ppm		98
68) 4,6-Dinitro-2-methylph...	9.691	198	221163	53.04	ppm		63
69) n-Nitrosodiphenylamine	9.739	169	1244455	58.47	ppm		98
70) 1,2-Diphenylhydrazine	9.781	77	1558784	45.21	ppm		99
72) 4-Bromophenyl-phenylether	10.348	248	351145	47.95	ppm		99
73) Hexachlorobenzene	10.584	284	369369	46.30	ppm		98
74) Simazine	10.707	201	151063	42.76	ppm		95
75) Atrazine	10.787	200	330137	47.00	ppm		99
76) Pentachlorophenol	10.910	266	278267	53.87	ppm		97
77) Phenanthrene	11.151	178	1924093	47.44	ppm		99
78) Anthracene	11.231	178	1983568	47.55	ppm		100
79) Carbazole	11.557	167	1878952	47.36	ppm		99
80) Di-n-butylphthalate	12.413	149	2363180	48.16	ppm		99
81) Fluoranthene	13.338	202	1824734	47.97	ppm		99
83) Benzidine	13.659	184	936508	50.85	ppm		99
84) Pyrene	13.745	202	1885038	50.63	ppm		98
86) Butylbenzylphthalate	15.221	149	947029	51.97	ppm		100
87) 3,3'-Dichlorobenzidine	16.087	252	547078	51.48	ppm		99
88) Benzo[a]anthracene	16.034	228	1488387	50.68	ppm		99
89) Chrysene	16.120	228	1366334	48.62	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 06:50:25 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration

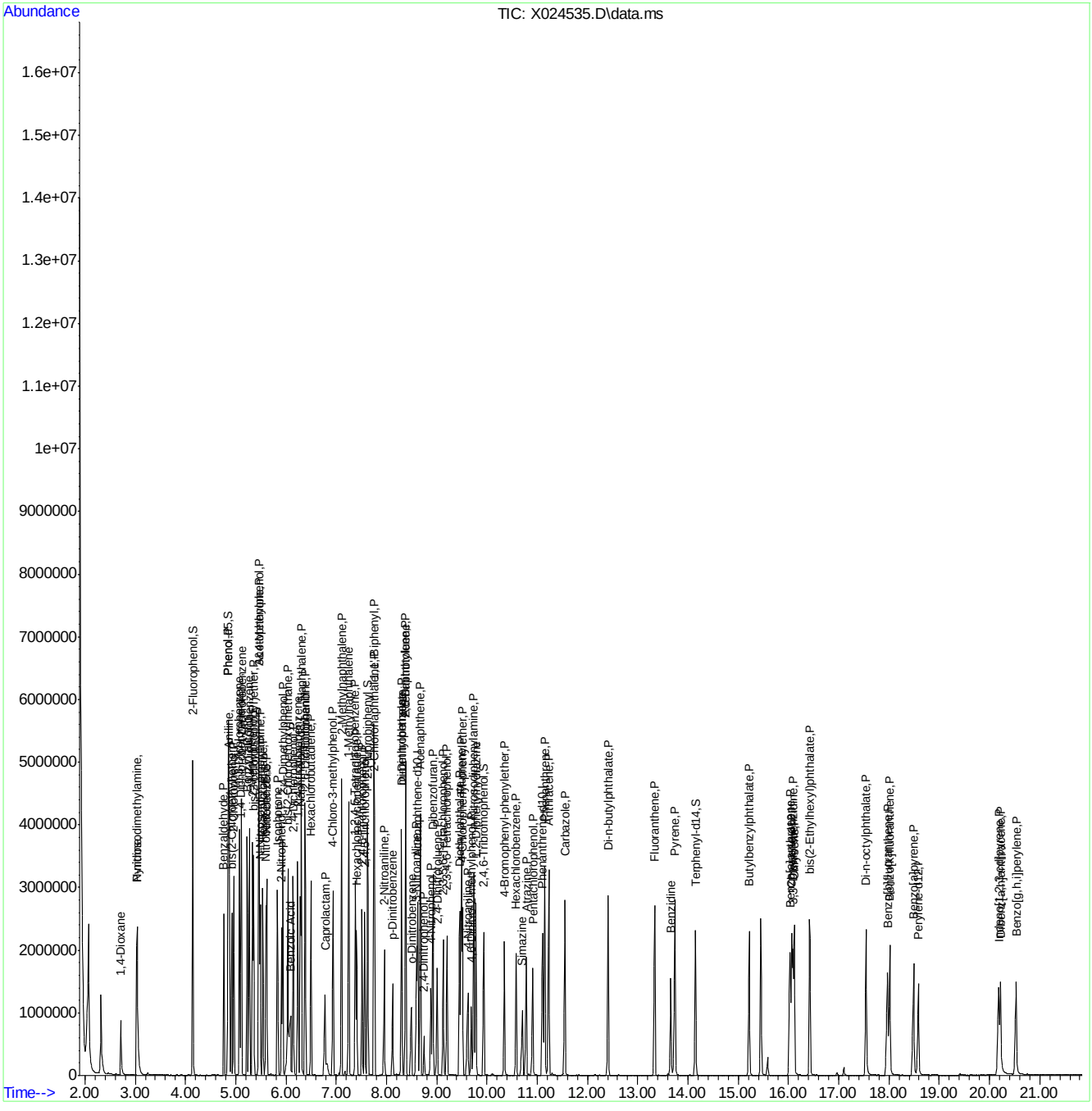
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) bis(2-Ethylhexyl)phtha...	16.424	149	1273178	50.76 ppm	100
92) Di-n-octylphthalate	17.542	149	2125288	53.53 ppm	100
93) Benzo[b]fluoranthene	17.976	252	1316551	52.01 ppm	97
94) Benzo[k]fluoranthene	18.018	252	1292536	48.02 ppm	99
95) Benzo[a]pyrene	18.494	252	1271327	50.26 ppm	98
96) Indeno[1,2,3-cd]pyrene	20.185	276	1048674	48.97 ppm	97
97) Dibenz[a,h]anthracene	20.227	278	1060163	48.43 ppm	95
98) Benzo[g,h,i]perylene	20.538	276	1118733	47.38 ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 30 06:50:25 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration



8270d.m Mon Jul 30 07:55:29 2012 Page: 4

9.8.21
9

Manual Integration Approval Summary

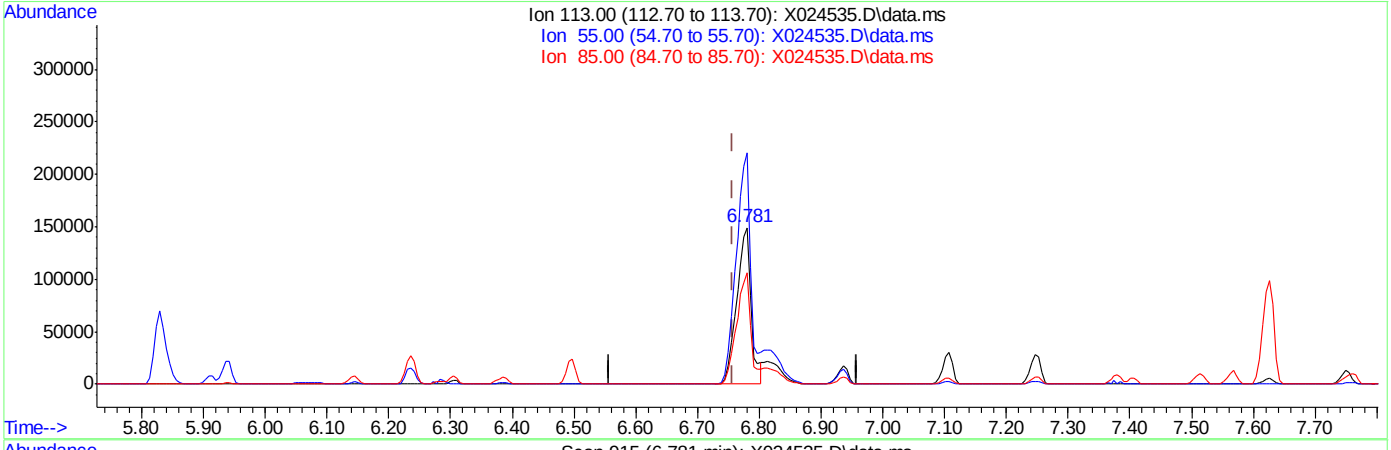
Sample Number:	SX1192-CC1186	**Method:**	SW846 8270D
Lab FileID:	X024535.D	**Analyst approved:**	07/30/12 08:31 Fouad Sekkar
Injection Time:	07/28/12 09:14	**Supervisor approved:**	07/30/12 09:43 Naresh Jiawan

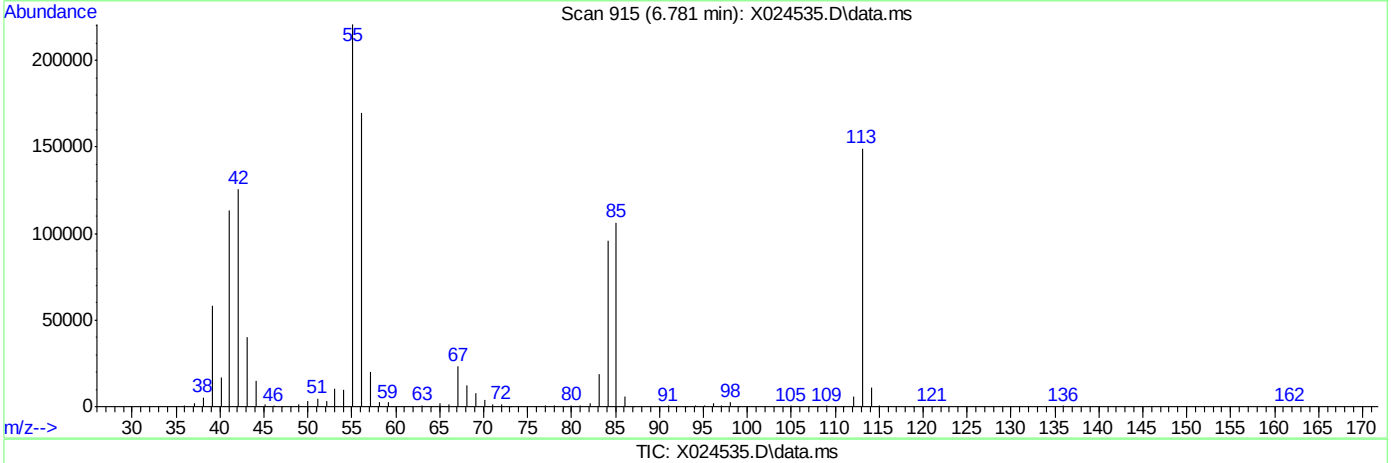
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:40:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration





TIC: X024535.D\data.ms

(36) Caprolactam (P)

6.781min (+0.022) 40.33ppm

response 246900

Ion	Exp%	Act%
113.00	100	100
55.00	155.10	148.23
85.00	68.20	71.38
0.00	0.00	0.00

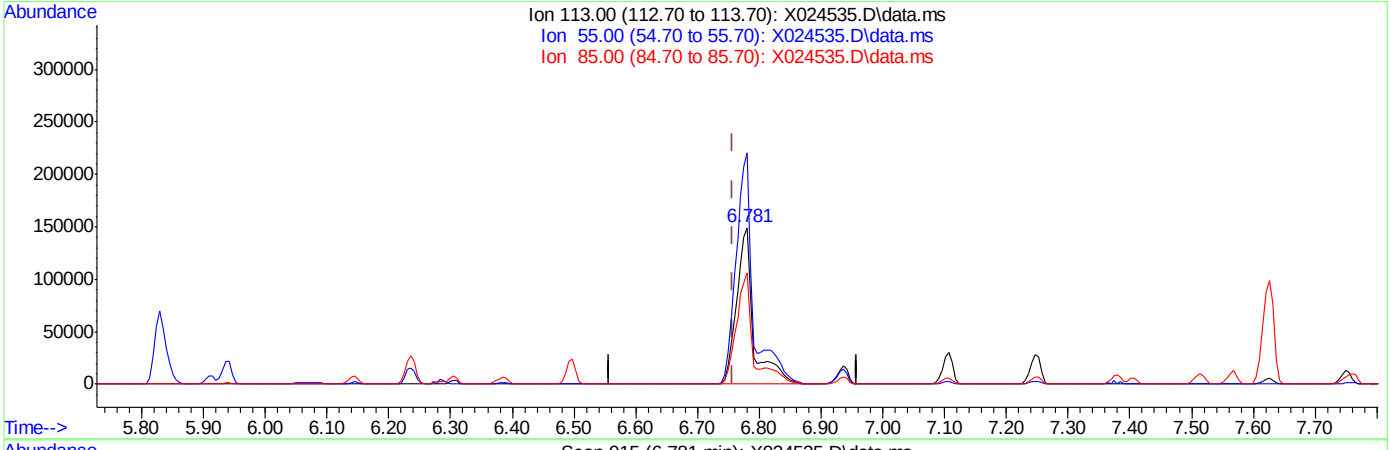
9.8.21.2

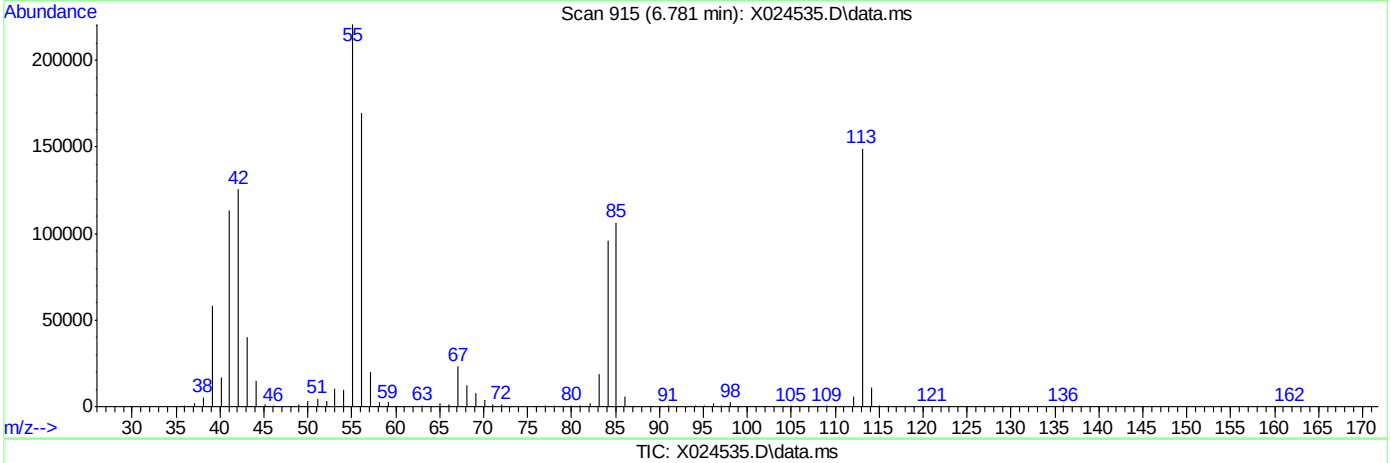
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\072812\
Data File : X024535.D
Acq On : 28 Jul 2012 9:14 am
Operator : fouads
Sample : cc1186-50
Misc : op41650,sx1192,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:40:14 2012
Quant Method : C:\msdchem\1\METHODS\8270d.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Jul 27 14:56:54 2012
Response via : Initial Calibration





TIC: X024535.D\data.ms

(36) Caprolactam (P)

6.781min (+0.022) 47.57ppm m

response 291181

Ion	Exp%	Act%
113.00	100	100
55.00	155.10	148.05
85.00	68.20	71.23
0.00	0.00	0.00

9.8.21.3

9

ACCUTEST LABORATORIES SE

DATE:	07-13-12
COLUMN TYPE:	20 FMS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D / 625
ACQ. METHOD:	~~625~~ 8270D
PROC. METHOD:	8270D
CALIB. DATE:	07-13-12
RUN BATCH: SL	2973

ANALYST:	NAF
MECL2 LOT #:	K51503
DFTPP RESPONSE:	701362
EM VOLTAGE:	1966

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS IS 60143
L 0503 ~~14~~ 20	1	DFTPP	DFTPP	54262	1X		PASS
L 203	2	IC2973-5	8270	54225/74	10/10/100		✓
L 04	3	-10			20/20/100		✓
L 05	4	-25			50/50/100		✓
L 06	5	ICC2973-50			100/100/100	#95 OP	✓
L 07	6	IC2973-60			120/120/100	#95 OP	✓
L 08	7	-75			150/150/100	#37,SP #95 OP	✓
L 09	8	-100			200/200/100	#2 MP #37 SP #95 OP	✓
L 10	9	ICV2973-10		54275A	2X	#37 SP	PASS
L 11	10	-50		54270 60143 54643 5801	200 40 200 40F	5941 28A	PASS #37 low
L 12	11	E41374		E41374	2X		PASS
L 13	12	OP42610-BS		OP42610	1X		✓
L 14	13	-MB					✓ b.s
L 15	14	F94747-3					ND
L 16	15	F94762-1			4X		Run 1X
L 17	16	-2			4X		Run 1X
L 18	17	-3			1X		✓
L 19	18	-4				#95 OP	✓
L 20	19	-5					✓
L 21	20	~~OP42610-5~~ -6					ND

NAF 7-16-12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: [signature]

Instrument Run Log SL2973 page 1 of 2

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ACCUTEST LABORATORIES F95274

6 1.6.6

ACCUTEST LABORATORIES SE

DATE:	07-13-12
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270 625
ACQ. METHOD:	QCB3A
PROC. METHOD:	8270BA
CALIB. DATE:	07-13-12
RUN BATCH: SL	2973

ANALYST:	NMF
MECL2 LOT #:	K51103
DFTPP RESPONSE:	701364
EM VOLTAGE:	1485

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 05 2222	21	~~OP42610-MS~~	8270	OP42610	1		ND
L N07164 23	22	F94764-1					ND
L N07164 24	23	F94764-2					ND
L N07164 25	24	F94764-3					ND
L N07164 26	25	OP42610-MS				#3 7 SP	✓
L N07164 27	26	-MSD				#3 7 SP	✓
L							
L							
L							
L							
L							
L							
L							
L						NMF 07-16-12	
L							
L							
L							
L							
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: NMF

msbna02_l_log.xls NF rev. 08/09

ACCUTEST LABORATORIES SE

DATE:	07-30-12
COLUMN TYPE:	7615ms
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270 625
ACQ. METHOD:	8270-BNA
PROC. METHOD:	8270NA
CALIB. DATE:	07-13-12
RUN BATCH: SL	2984

ANALYST:	NAK
MECL2 LOT #:	K 51 503
DFTPP RESPONSE:	554770
EM VOLTAGE:	1988

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 075966	1	dfTPP	dfTPP	54297	1x		PASS
L 67	2	<L2973-50	8270	54290/75	100/100/400	#37 SP	PASS #75 low
L 68	3	OP42 024-bk		OP42 024	1x	#37 SP	✓
L 69	4	-mb					ND
L 70	5	F44275-1					✓
L 71	6	OP42 024-m1				#24 SP	✓
L 72	7	-msd				#24 SP	✓
L 73	8	F95275-2				1.0 ml FV	x matrix x BR 10x
L 74	9	-3					BR 6.0
L 75	10	-4					ND
L 76	11	-5					x BR 20x matrix x
L 77	12	F95280 1-1					ND
L 78	13	-2					✓
L 79	14	-3					ND
L 80	15	-4					ND
L 81	16	-5					ND
L 82	17	F95 280-1				#95 OP	✓
L 83	18	-2				#94,95 OP	✓
L 84	19	-3					ND
L 85	20	F95 279-1					✓

NV 7/30/12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: [signature]

Instrument Run Log SL2984 page 1 of 2

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ACCUTEST LABORATORIES F95274

6 9.9.2

ACCUTEST LABORATORIES SE

DATE:	07-31-12
COLUMN TYPE:	60 m
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D 1625
ACQ. METHOD:	MC B BNA
PROC. METHOD:	8270D.A
CALIB. DATE:	07-13-12
RUN BATCH: SL	2984

ANALYST:	NIV
MECL2 LOT #:	K51 503
DFTPP RESPONSE:	554770
EM VOLTAGE:	1955

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0731 86	21	F44274-2	8270	0142424	1X		NO
L 87	22	-3					NO
L 88	23	-4					NO
L 89	24	-5					NO
L 90	25	-6					NO
L 91	26	OP42774-MB		OP42774			NO
L 92	27	F44 443-2					BR out
L 93	28	-3					
L							
L							
L							
L							
L							
L							
L						NA 07-31-12	
L							
L							
L							
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

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Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	07-31-12
COLUMN TYPE:	TG 5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D 1625
ACQ. METHOD:	OC 0-B NA
PROC. METHOD:	8270DA
CALIB. DATE:	07-13-12
RUN BATCH: SL	2985

ANALYST:	NN
MECL2 LOT #:	K51503
DFTPP RESPONSE:	342763
EM VOLTAGE:	1955

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS IS 60190
L 0590494	1	dftpp	dftpp	54297	1X		PASS
L 95	2	CC 2973-50	8270	SYL40/78	100/100/40	#38 SP	PASS 75.84 low nonterpol
L 96	3	OP42774-mb		OP42774	1X		ND
L 97	4	F94993-2					ND
L 98	5	-3					ND
L 99	6	OP42324-mb		OP42324			ND
L 500	7	F95275-3				#64 OP	✓ #64 ABL-32L
L 501	8	-2			10X	TMIFV	✓ matrix
L 502	9	-5			20X		✓ matrix
L 503	10	OP42674-mb		OP42674	1X		ND
L 504	11	F95321-3			4X		✓ matrix
L 505	12	F95347-3			1X	1X noisy	ND
L							
L							
L							
L							
L							
L						NN 07-31-12	
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: NN

ACCUTEST LABORATORIES SE

DATE:	07/21/12
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270/625
ACQ. METHOD:	AUG-BNA
PROC. METHOD:	8270
CALIB. DATE:	07/21/12
RUN BATCH: SX	1186

ANALYST:	F.S
MECL2 LOT #:	K351-1
DFTPP RESPONSE:	14/3435
EM VOLTAGE:	1306

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 024401	1	dFTPP	dFTPP	54268	1		Tune passed
X 02	2	iL 1186-5	8270	54230/78	10/400		
X 03	3	-10			20/400		
X 04	4	-25			50/400		
X 05	5	-50			1/400		curve passed
X 06	6	-60			20/400		
X 07	7	-75			50/400		
X 08	8	-100			250/200	#36 sp	
X 09	9	ICV 1186-50		597511	2		ICV1 passed
X 10	10	-50		5841 5768 5603 6022 5975	40 40 20 20		ICV2 passed (4chloroaniline (25%) [illegible] NA)
X 11	11	op42733-BS		op42733	1	#36 sp	
X 12	12	mB					NO
X 13	13	F34832-13CF					NO
X 14	14	-14CF					
X 15	15	-15CF					Rerun
X 16	16	-17cf					Instrument stopped
X							
X				FS			
X				07/23/12			
X							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: Fouad

msbna05_x_log.xls NF rev. 08/09

ACCUTEST LABORATORIES F95274

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	TL+SMS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270/625
ACQ. METHOD:	Acq-BNA
PROC. METHOD:	8270
CALIB. DATE:	07/21/12
RUN BATCH: SX	1192

ANALYST:	F.S
MECL2 LOT #:	K35101
DFTPP RESPONSE:	86/782
EM VOLTAGE:	1306

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS Istd: 6019D
X 024534	1	dFTPP	dFTPP	84237	x1		TUNE passed
X 35	2	CC1186-50	82707	84230/78	100/2/4m		CCV passed
X 36	3	op42823-BS		op42823	x1	#36 sp	✓
X 37	4	-MB					ND
X 38	5	F55195-1					ND INT Failed B.R
X 39	6	-2					✓
X 40	7	-MS				#36 sp	✓
X 41	8	-MSD				#36 sp	✓ Failed INT
X 42	9	op42808-BS		op42808	x1	#36 sp	ND
X 43	10	-MB					ND
X 44	11	F55208-1					~~ND~~ ✓
X 45	12	-3				#33 MP	✓
X 46	13	-4					✓
X 47	14	-MS				#36 sp	✓
X 48	15	-MSD				#36 sp	✓
X 49	16	op42844-LBS		op42844	x1		ND
X 50	17	-LB					✓
X 51	18	F55305-1					✓
X 52	19	-MS					✓
X 53	20	-MSD					

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: Faraal

msbna05_x_log.xls NF rev. 08/09

ACCUTEST LABORATORIES SE

DATE:	07/28/12
COLUMN TYPE:	Rtx 5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270/625
ACQ. METHOD:	4MS-BNA
PROC. METHOD:	82707
CALIB. DATE:	
RUN BATCH:	SX 1192

ANALYST:	F.S
MECL2 LOT #:	K35501
DFTPP RESPONSE:	86 1782
EM VOLTAGE:	1306

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 024554	21	F95209-1	82707	op42844	x1		✓
X 55	22	-DUP	↓	↓	↓		✓
X 56	23	F95274-7a					ND
X 57	24	op42793-MB		op42793	x1		✓
X 58	25	F95178-1	↓	↓	x2	#34MP	Diluted by Dicto MATR (1x Failed internal)
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							
X							

FS 07/30/12

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: [signature]

msbna05_x_log.xls NF rev. 08/09

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 07/27/12 0845 (mm/dd/yy 24:00)

Prep Method: (3550C) 3580A or Method (circle)

Batch#: OP42829

Analytical Method: 8270

Ext. By: AN, KC Conc. By: _____ Vialed By: _____ Balance ID: NAV 3

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP42829 MB		30.0	0.5 ml		1.0	
OP42829 BS		30.0		0.5 ml 0.5 ml		
F95275-1	6	30.3				MS-MSD
-2	6	30.0			5.0 ml	OIL SAMPLE
-3	6	30.1			1.0 ml	
-4	6	30.3				
-5	6	30.5				
F95281-1	8	30.5				
-2	9	30.2				
-3	8	30.5				
-4	9	30.5				
-5	9	30.1				
F95286-1	7	30.0				
-2	6	30.0				
-3	6	30.0				
F95274-1	8	30.1				
-2	8	30.1				
-3	8	30.2				
-4	8	30.4				
-5	8	30.1				
-6	8	30.0				
F95275-1 MS	6	30.2	0.5 ml	0.5 ml 0.5 ml	1.0 ml	
-1 MSD	6	30.2				
DUP						

Comments:

Surr. ID: E4140A Conc: 100/200ppm Exp. Date: 01/20/13 Inj. By: KC Ver. By: [illegible]

Spk. ID: 59256 Conc: 2 neat Exp. Date: 11/30/12 Inj. By: KC Ver. By: [illegible]
E4146 100 ppm 01/27/13

Initial Bath Temp (Therm ID): 100 14522
Observed Temp °C: 70 Corr. Temp °C: 71

Exchange Bath/N-Evap Temp (Therm ID): 91249522
Observed Temp °C: 36 Corr. Temp °C: 37

CH2CL2 Lot # K51503 Hexane Lot # — Na2SO4 Lot# SS 1586
Acetonitrile Lot # — Methanol Lot # — Acetone Lot# K51E12
Syringe Filter Lot# — Reagent # — Reagent # —

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 07-27-12

Accepted By: [signature] Date: 07-27-12

NF rev. 08/11 extsolid 081911.xls

9.10.1

9

ACCUTEST LABORATORIES SE

LIQUID SAMPLE PREP REPORT

Date/Time: 07/28/12 10:00
{mm/dd/yy 24:00}

Prep Method: 3510C 3580A or Method (circle)

Batch#: OP 42844

Analytical Method: 8270 TCLP

Ext. By: GT ACH Conc. By: HV Vialed By: AH

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP42844 LMB		100/1000	6	<2 711	0.5ml		1.0ml	
OP42844 LBS		↓	↓	↓	↓	0.5ml 0.5ml	↓	
F95305-1		↓	↓	↓	↓		↓	
F95209-1		↓	↓	↓	↓		↓	
F95274-7A		↓	↓	↓	↓		↓	
				AH 07/28/12				
~~F95305-1~~ MS		100/1000	6	<2 711	0.5ml	0.5ml 0.5ml	1.0ml	F95274 [illegible]
F95305-1 MSD		↓	↓	↓	↓	↓	↓	
F95209-1 DUP		↓	↓	↓	↓		↓	

Comments:

Surr. ID: E41255 Conc: 100/2000ppm Exp. Date: 12/27/12 Inj. By: GT Ver. By ACH

Spk. ID: E4146 Conc: 100ppm Exp. Date: 01/27/13 Inj. By: GT Ver. By ACH

5975 varied 11/30/12

Initial Bath Temp (Therm ID): 10145253 S
Observed Temp °C: 70°C Corr. Temp °C: 71°C

Exchange Bath/N-Evap Temp (Therm ID): 91249578
Observed Temp °C: 55°C Corr. Temp °C: 51°C

CH2CL2 Lot # K35001 Hexane Lot # — Na2SO4 Lot# 551591

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# —

Syringe Filter Lot# — Reagent # H2SO4 # [illegible] Reagent # NaOH # [illegible]

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 07/28/12

Accepted By: Fouad [signature] Date: 07/28/12

NF rev. 10/10 extwater 102810.xls

9.10.2

9

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3028-MB	QR069931.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	56-136%
98-08-8	aaa-Trifluorotoluene	99%	61-121%

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3028-BS	QR069930.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.6	98	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	61-121%

10.2.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95178-2MS	QR069956.D	1	07/26/12	CP	n/a	n/a	GQR3028
F95178-2MSD	QR069957.D	1	07/26/12	CP	n/a	n/a	GQR3028
F95178-2	QR069932.D	1	07/26/12	CP	n/a	n/a	GQR3028

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95178-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	161		101	221	59*	222	60*	0	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F95178-2	Limits
460-00-4	4-Bromofluorobenzene	120%	121%	115%	56-136%
98-08-8	aaa-Trifluorotoluene	115%	116%	116%	61-121%

10.3.1

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* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F95274-1	QR069942.D	104.0	103.0
F95274-2	QR069943.D	103.0	102.0
F95274-3	QR069944.D	105.0	104.0
F95274-4	QR069945.D	104.0	103.0
F95274-5	QR069946.D	106.0	104.0
F95274-6	QR069947.D	105.0	102.0
F95178-2MS	QR069956.D	120.0	115.0
F95178-2MSD	QR069957.D	121.0	116.0
GQR3028-BS	QR069930.D	108.0	103.0
GQR3028-MB	QR069931.D	100.0	99.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	56-136%
S2 = aaa-Trifluorotoluene	61-121%

(a) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069929.D	**Injection Time:**	09:07
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S2 [a] RT
Check Std	15.07	11.15

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT
GQR3028-BS	QR069930.D	07/26/12	09:36	15.08	11.15
GQR3028-MB	QR069931.D	07/26/12	10:04	15.08	11.15
F95178-2	QR069932.D	07/26/12	10:42	15.08	11.16
ZZZZZZ	QR069933.D	07/26/12	11:10	15.07	11.15
ZZZZZZ	QR069934.D	07/26/12	11:38	15.08	11.16
ZZZZZZ	QR069935.D	07/26/12	12:07	15.08	11.16
ZZZZZZ	QR069936.D	07/26/12	12:35	15.08	11.16
ZZZZZZ	QR069937.D	07/26/12	13:03	15.08	11.16
ZZZZZZ	QR069938.D	07/26/12	13:31	15.08	11.16
ZZZZZZ	QR069939.D	07/26/12	14:00	15.08	11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069940.D	**Injection Time:**	14:29
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	15.08	15.08	11.16	11.16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
GQR3028-RT	QR069941.D	07/26/12	14:57	15.08	15.08	11.16	11.16
F95274-1	QR069942.D	07/26/12	15:26		15.08		11.16
F95274-2	QR069943.D	07/26/12	15:54		15.08		11.16
F95274-3	QR069944.D	07/26/12	16:22		15.08		11.15
F95274-4	QR069945.D	07/26/12	16:50		15.07		11.15
F95274-5	QR069946.D	07/26/12	17:19		15.08		11.16
F95274-6	QR069947.D	07/26/12	17:47		15.07		11.15
ZZZZZZ	QR069948.D	07/26/12	18:16		15.08		11.15
ZZZZZZ	QR069949.D	07/26/12	18:44		15.07		11.15
ZZZZZZ	QR069950.D	07/26/12	19:12		15.07		11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GQR3028-CC3009	**Injection Date:**	07/26/12
Lab File ID:	QR069951.D	**Injection Time:**	19:41
Instrument ID:	GCQR	**Method:**	SW846 8015C

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	15.08	15.08	11.16	11.16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	QR069953.D	07/26/12	20:37		15.08		11.15
ZZZZZZ	QR069954.D	07/26/12	21:05		15.07		11.15
ZZZZZZ	QR069955.D	07/26/12	21:34		15.07		11.15
F95178-2MS	QR069956.D	07/26/12	22:02		15.07		11.15
F95178-2MSD	QR069957.D	07/26/12	22:30		15.07		11.15
GQR3028-ECC3009	QR069958.D	07/26/12	22:58	15.07	15.07	11.15	11.15

Surrogate Compounds

S1 = 4-Bromofluorobenzene
S2 = aaa-Trifluorotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3009-ICC3009
Lab FileID: QR069322.D

Response Factor Report VOA3

Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration

Calibration Files
1 =QR069319.D 2 =QR069320.D 3 =QR069321.D 4 =QR069322.D
5 =QR069323.D 6 =QR069324.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) S a,a,a-TFT	6.497	6.471	6.813	7.151	6.496	6.452	6.647 E2	4.24
2) S BFB	1.725	1.742	1.817	2.013	1.857	1.834	1.831 E3	5.64
Signal #2								
4) S a,a,a-TFT #2	3.853	3.858	4.079	4.282	3.933	3.941	3.991 E4	4.12
5) S BFB #2	2.521	2.526	2.622	2.931	2.760	2.734	2.682 E4	5.89
6) H TPH-GRO (C6-C10)	5.397	5.153	4.929	4.951	4.796	4.792	5.003 E4	4.67

(#) = Out of Range

GROML.M Mon Jul 09 14:46:17 2012

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3009-ICV3009
Lab FileID: QR069325.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH  Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On    :  5 Jul 2012   7:18 pm                    Operator: MikeM
Sample    : ICV3009-3                                Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	a,a,a-TFT	50.000	49.354	1.3	96	0.00	11.04-11.24
2 S	BFB	50.000	48.119	3.8	97	0.00	14.95-15.15
*****	Signal #2 *****						
4 S	a,a,a-TFT #2	50.000	48.997	2.0	96	0.00	11.04-11.24
5 S	BFB #2	50.000	48.389	3.2	99	0.00	14.95-15.15
6 H	TPH-GRO (C6-C10)	400.000	370.841	7.3	94	0.00	7.23-16.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
QR069321.D GROML.M Mon Jul 09 14:46:54 2012

10.6.2

10

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069929.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH  Vial: 3
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
 Acq On    : 26 Jul 2012   9:07 am                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  49.365      1.3   96   0.01   11.04-11.24
 2 S   BFB                     50.000  48.595      2.8   98   0.01   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  52.232     -4.5  102   0.00   11.04-11.24
 5  S  BFB #2                  50.000  51.774     -3.5  106   0.01   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 409.910     -2.5  104   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:20 2012
```

10.6.3

10

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069940.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH  Vial: 14
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
 Acq On    : 26 Jul 2012   2:29 pm                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  49.765      0.5   97   0.02   11.04-11.24
 2 S   BFB                     50.000  49.926      0.1  101   0.03   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  52.280     -4.6  102   0.02   11.04-11.24
 5  S  BFB #2                  50.000  52.977     -6.0  108   0.03   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 429.084     -7.3  109   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:21 2012
```

10.6.4

10

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-CC3009
Lab FileID: QR069951.D

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH  Vial: 25
 Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
 Acq On    : 26 Jul 2012   7:41 pm                    Operator: CARLENEP
 Sample    : CC3009-3                                 Inst    : VOA3
 Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
 IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

 Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
 Title        : SW846 8015 TPH by GC-FID
 Last Update  : Fri Jul 06 08:27:06 2012
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 150%

        Compound                Amount  Calc.    %Drift Area% Dev(min)RT Window
 ---------------------------------------------------------------------------
 1 S   a,a,a-TFT               50.000  48.712      2.6   95   0.02   11.04-11.24
 2 S   BFB                     50.000  49.629      0.7  100   0.02   14.95-15.15

*****  Signal #2   *****

 4 S   a,a,a-TFT #2            50.000  51.969     -3.9  102   0.02   11.04-11.24
 5  S  BFB #2                  50.000  53.014     -6.0  108   0.02   14.95-15.15
 6 H   TPH-GRO (C6-C10)       400.000 408.602     -2.2  104   0.00    7.23-16.14
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    QR069321.D GROML.M          Fri Jul 27 12:39:22 2012
```

10.6.5

10

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GQR3028-ECC3009
Lab FileID: QR069958.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH  Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
Acq On    : 26 Jul 2012  10:58 pm                    Operator: CARLENEP
Sample    : ECC3009-3                                Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e

Method       : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	a,a,a-TFT	50.000	49.048	1.9	96	0.01	11.04-11.24
2 S	BFB	50.000	49.904	0.2	101	0.02	14.95-15.15
*****	Signal #2 *****						
4 S	a,a,a-TFT #2	50.000	52.501	-5.0	103	0.01	11.04-11.24
5 S	BFB #2	50.000	53.942	-7.9	110	0.02	14.95-15.15
6 H	TPH-GRO (C6-C10)	400.000	406.903	-1.7	103	0.00	7.23-16.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
QR069321.D GROML.M Fri Jul 27 12:39:22 2012

10.6.6

10

Southeast ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069942.D\FID1B.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069942.D\FID2A.CH
Acq On : 26 Jul 2012 3:26 pm Operator: CARLENEP
Sample : F95274-1 Inst : VOA3
Misc : gc13944,gqr3028,6.71,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	33235	50.003 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 100.01%	
2) S BFB	15.08	89960	49.121 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.24%	
4) S a,a,a-TFT #2	11.16	2064564	51.732 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.46%	
5) S BFB #2	15.08	1400173	52.203 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 104.41%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1246660	24.919 ug/Kg

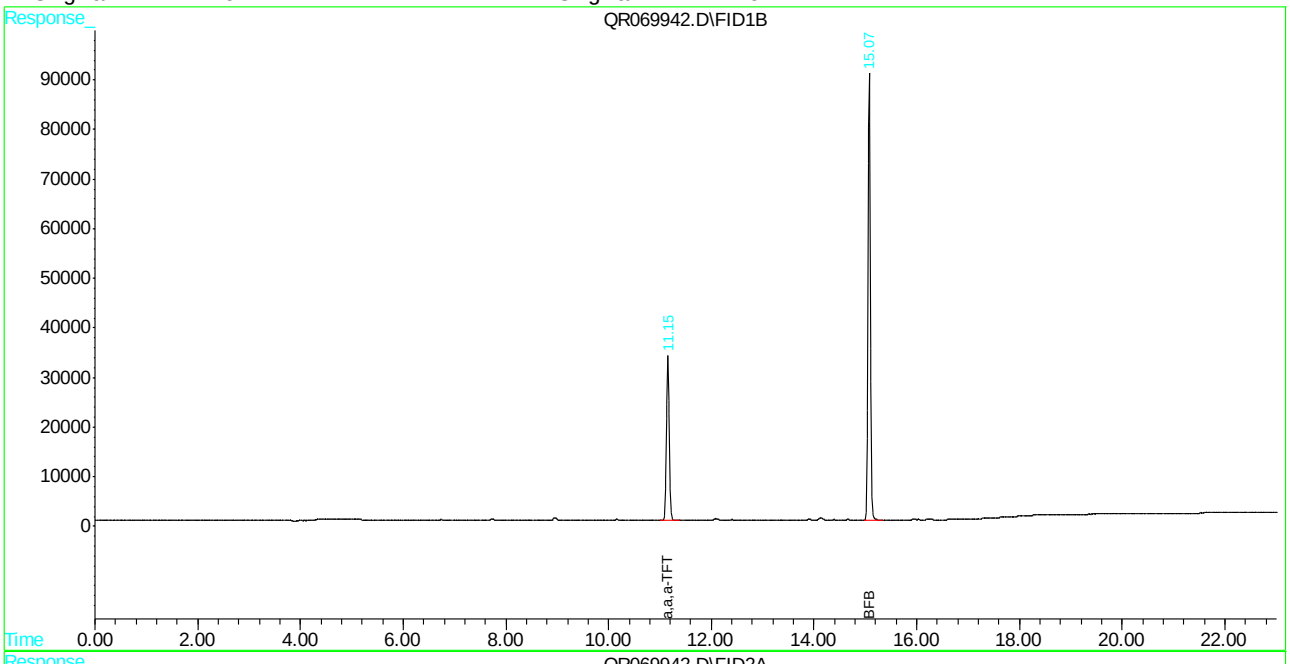
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069942.D GROML.M Fri Jul 27 12:36:30 2012

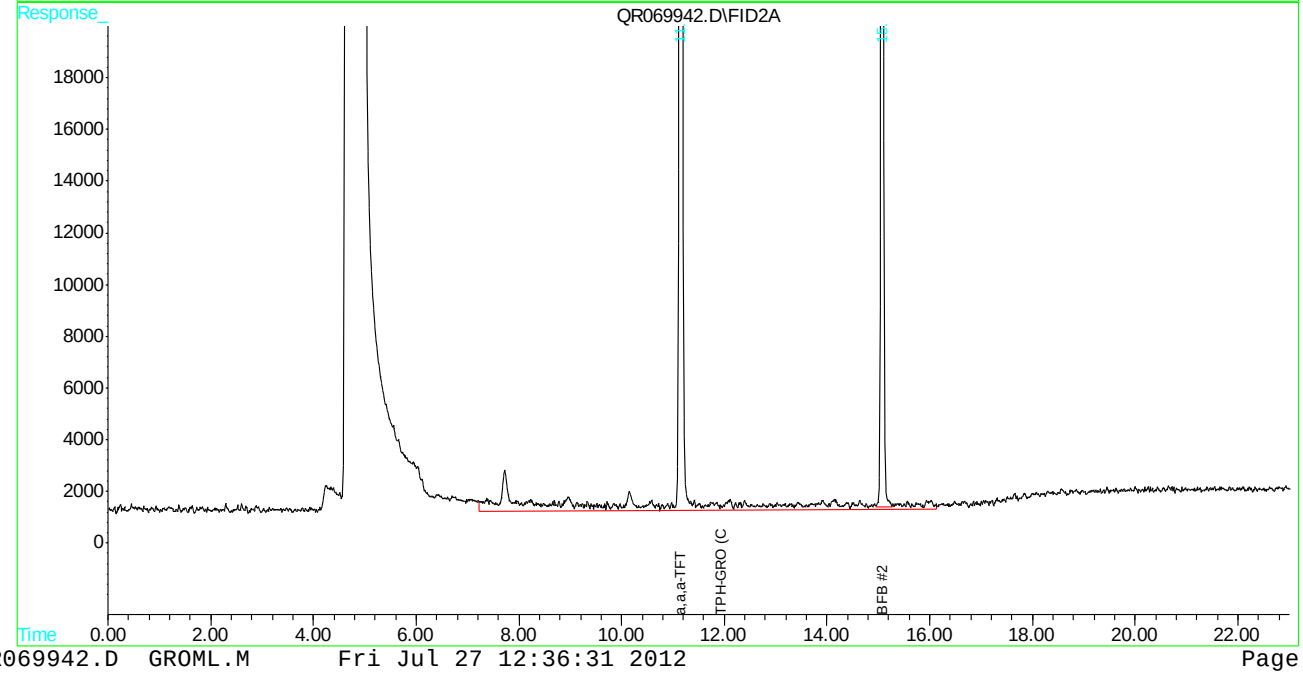
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069942.D\FID1B.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069942.D\FID2A.CH
Acq On : 26 Jul 2012 3:26 pm Operator: CARLENEP
Sample : F95274-1 Inst : VOA3
Misc : gc13944,gqr3028,6.71,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069943.D\FID1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069943.D\FID2A.CH
Acq On : 26 Jul 2012 3:54 pm Operator: CARLENEP
Sample : F95274-2 Inst : VOA3
Misc : gc13944,gqr3028,4.60,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	32847	49.419 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.84%	
2) S BFB	15.08	87986	48.043 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 96.09%	
4) S a,a,a-TFT #2	11.16	2043874	51.214 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.43%	
5) S BFB #2	15.08	1378256	51.386 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 102.77%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	868565	17.361 ug/Kg

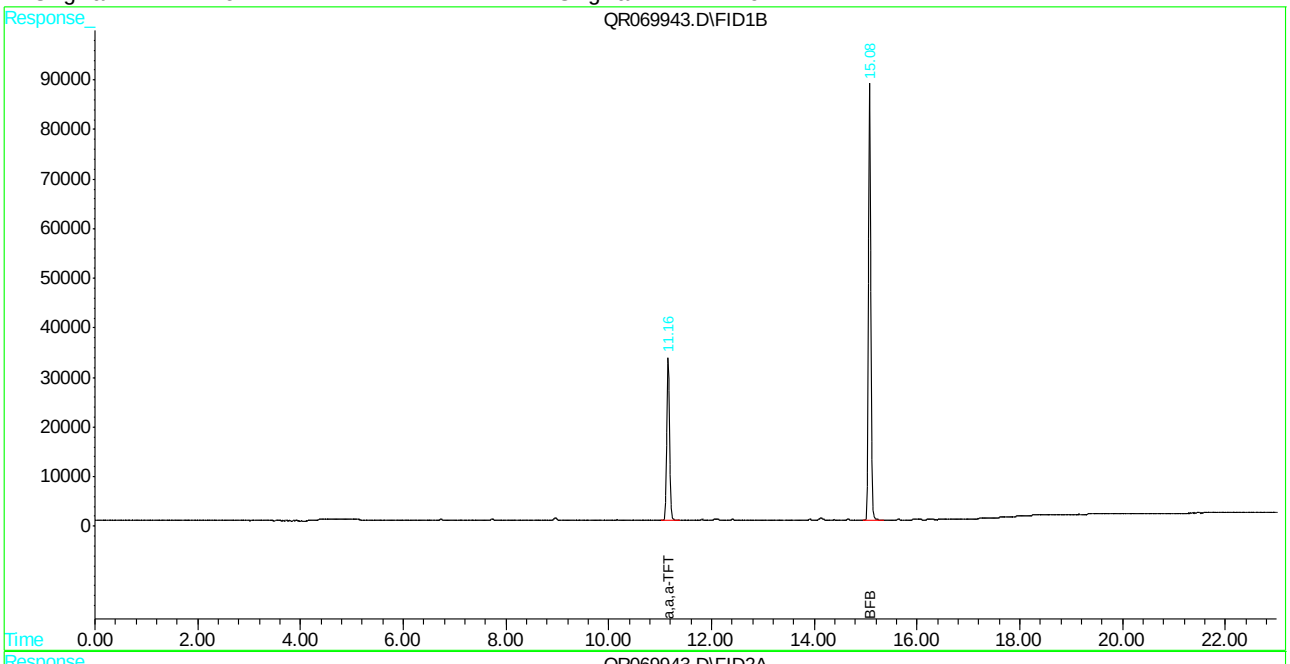
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069943.D GROML.M Fri Jul 27 12:36:34 2012

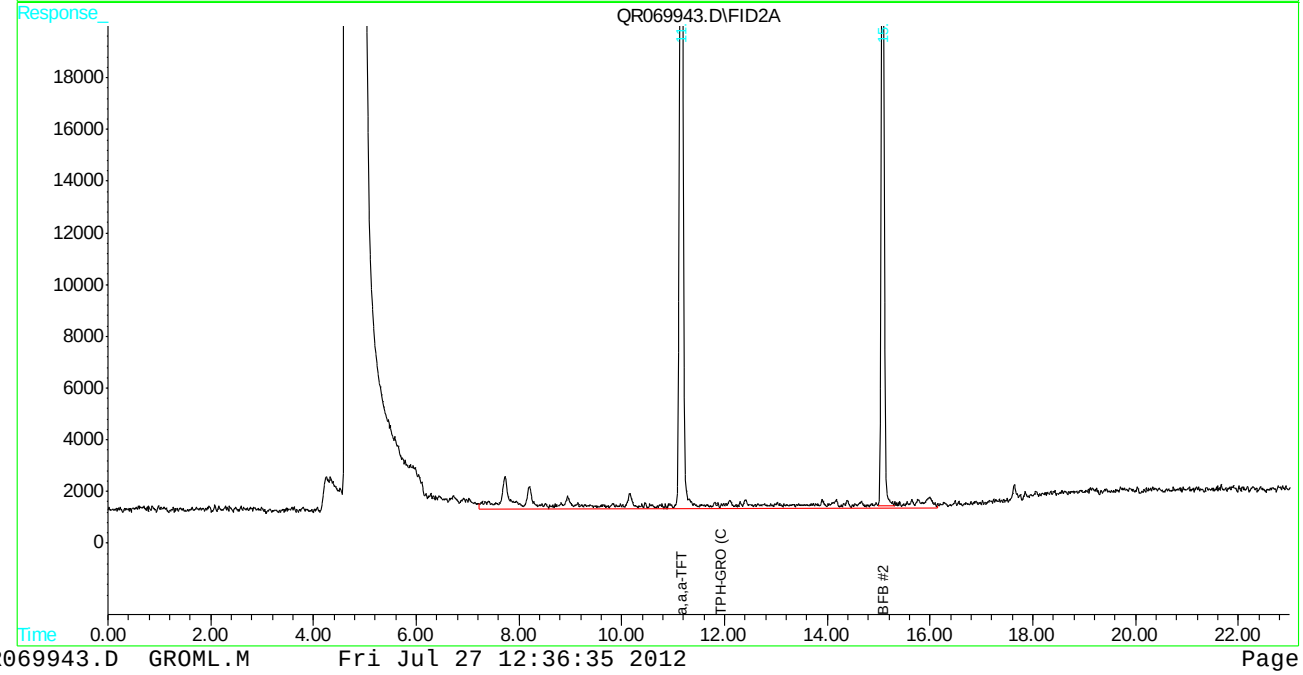
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069943.D\FID1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069943.D\FID2A.CH
Acq On : 26 Jul 2012 3:54 pm Operator: CARLENEP
Sample : F95274-2 Inst : VOA3
Misc : gc13944,gqr3028,4.60,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069944.D\FID1B.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069944.D\FID2A.CH
Acq On : 26 Jul 2012 4:22 pm Operator: CARLENEP
Sample : F95274-3 Inst : VOA3
Misc : gc13944,gqr3028,5.54,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32912	49.517 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.03%	
2) S BFB	15.08	90240	49.274 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.55%	
4) S a,a,a-TFT #2	11.15	2067406	51.804 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.61%	
5) S BFB #2	15.08	1404672	52.371 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 104.74%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	924624	18.482 ug/Kg

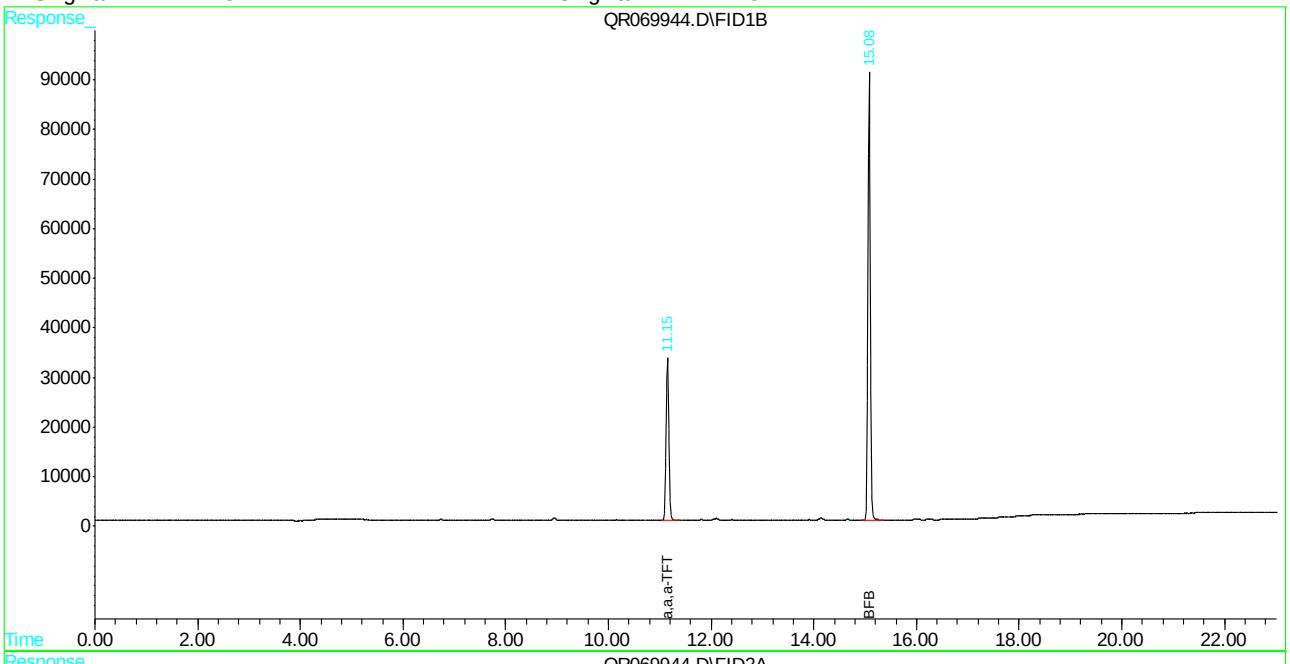
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069944.D GROML.M Fri Jul 27 12:36:37 2012

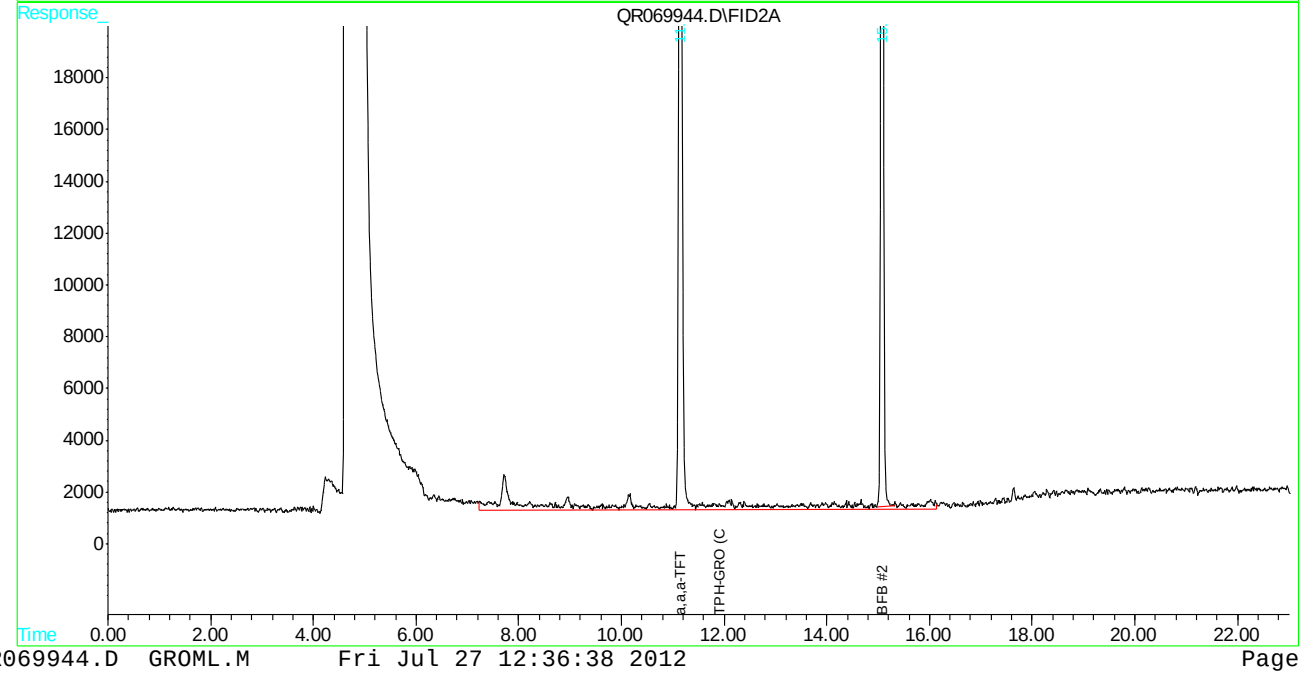
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069944.D\FID1B.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069944.D\FID2A.CH
Acq On : 26 Jul 2012 4:22 pm Operator: CARLENEP
Sample : F95274-3 Inst : VOA3
Misc : gc13944,gqr3028,5.54,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069945.D\FID1B.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069945.D\FID2A.CH
Acq On : 26 Jul 2012 4:50 pm Operator: CARLENEP
Sample : F95274-4 Inst : VOA3
Misc : gc13944,gqr3028,4.58,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33110	49.815 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.63%	
2) S BFB	15.07	89807	49.037 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.07%	
4) S a,a,a-TFT #2	11.15	2063400	51.703 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.41%	
5) S BFB #2	15.07	1392572	51.920 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.84%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1138662	22.760 ug/Kg

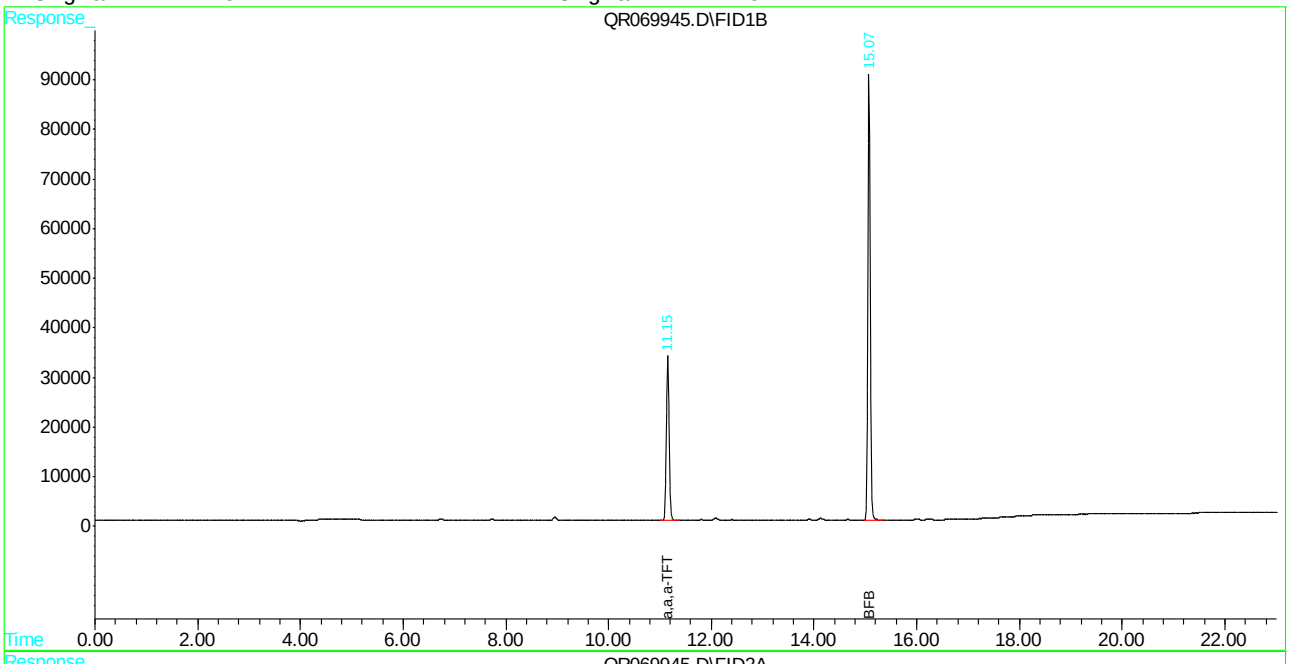
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069945.D GROML.M Fri Jul 27 12:36:40 2012

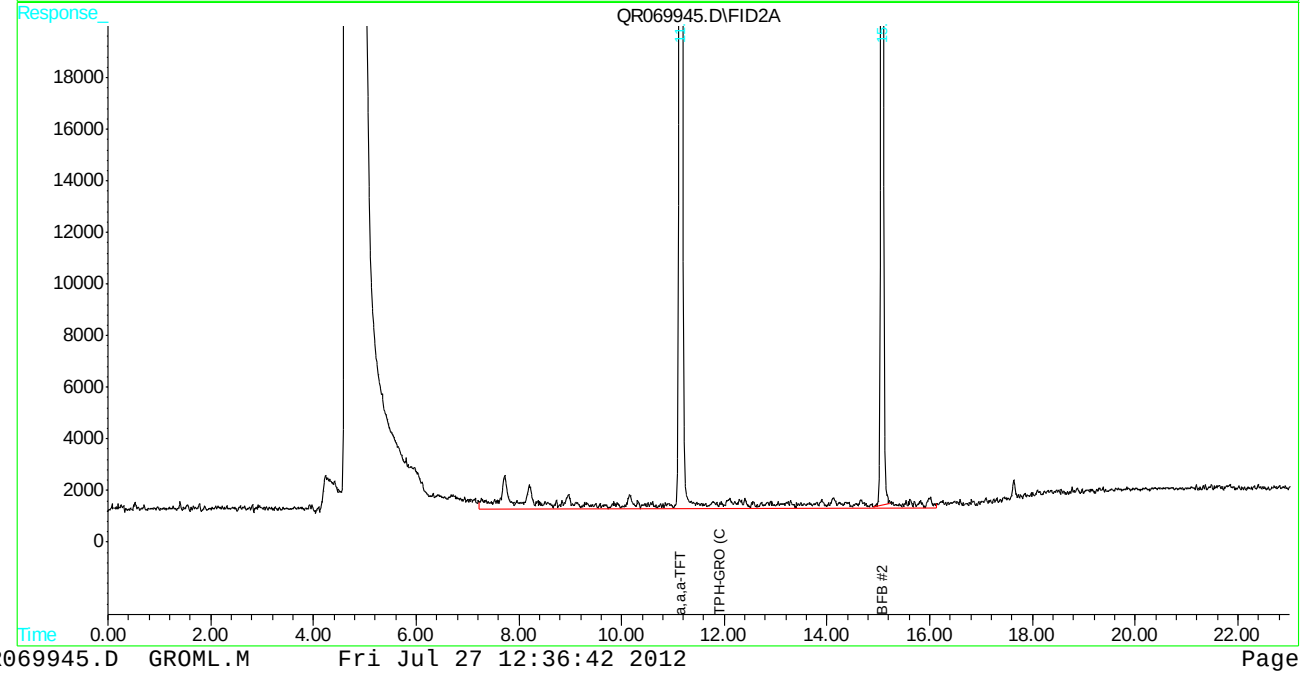
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069945.D\FID1B.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069945.D\FID2A.CH
Acq On : 26 Jul 2012 4:50 pm Operator: CARLENEP
Sample : F95274-4 Inst : VOA3
Misc : gc13944,gqr3028,4.58,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069946.D\FID1B.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069946.D\FID2A.CH
Acq On : 26 Jul 2012 5:19 pm Operator: CARLENEP
Sample : F95274-5 Inst : VOA3
Misc : gc13944,gqr3028,6.62,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	33372	50.208 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 100.42%	
2) S BFB	15.08	90093	49.193 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.39%	
4) S a,a,a-TFT #2	11.16	2066164	51.772 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 103.54%	
5) S BFB #2	15.08	1414880	52.752 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 105.50%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	867365	17.337 ug/Kg

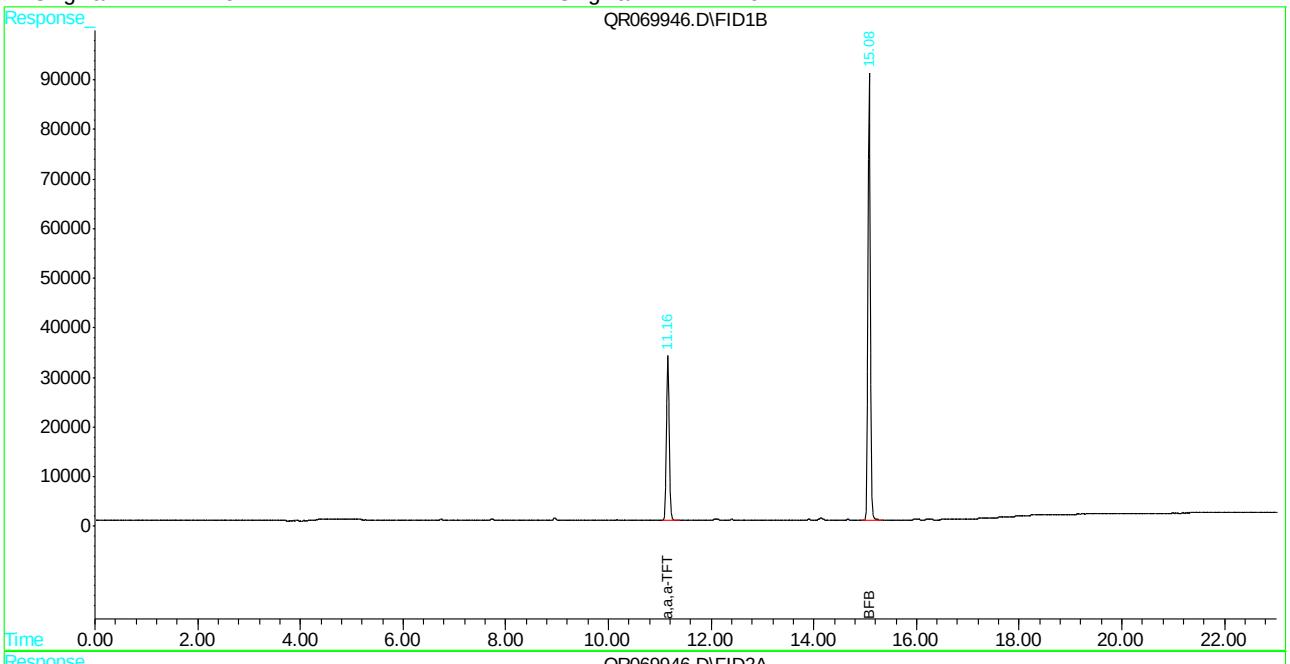
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069946.D GROML.M Fri Jul 27 12:36:44 2012

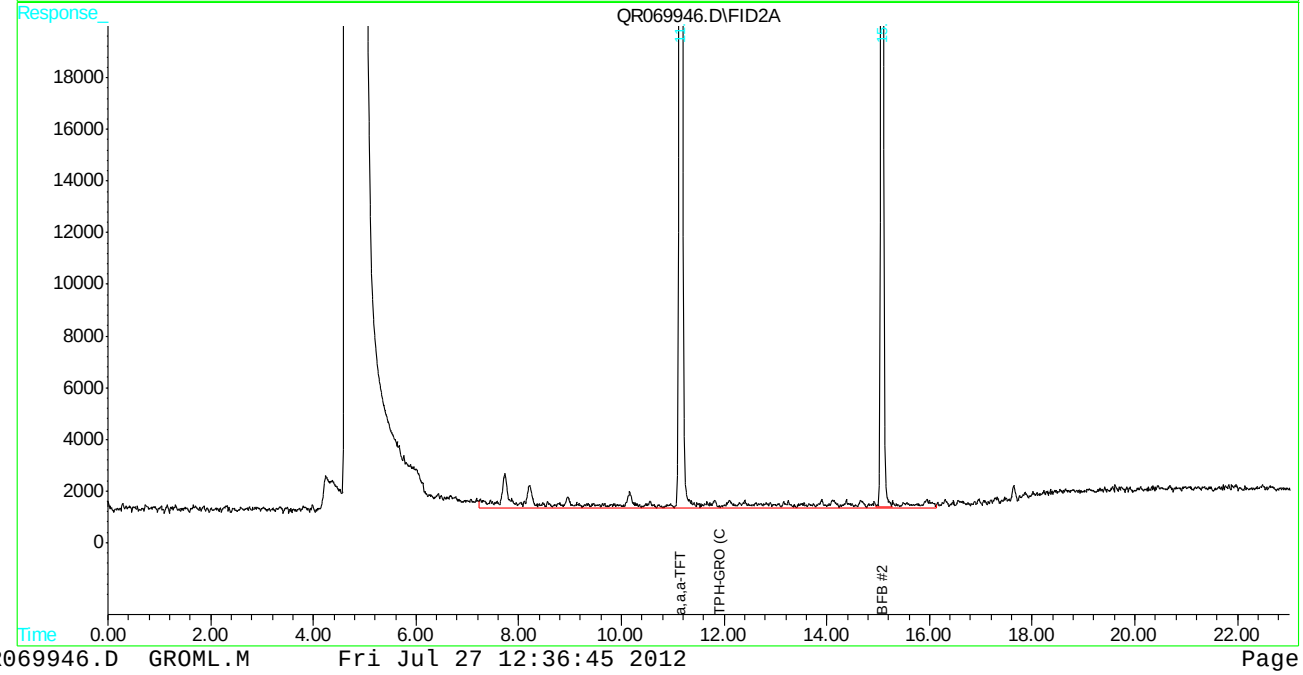
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069946.D\FID1B.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069946.D\FID2A.CH
Acq On : 26 Jul 2012 5:19 pm Operator: CARLENEP
Sample : F95274-5 Inst : VOA3
Misc : gc13944,gqr3028,6.62,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069947.D\FID1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069947.D\FID2A.CH
Acq On : 26 Jul 2012 5:47 pm Operator: CARLENEP
Sample : F95274-6 Inst : VOA3
Misc : gc13944,gqr3028,6.41,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33151	49.877 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.75%	
2) S BFB	15.07	90436	49.381 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 98.76%	
4) S a,a,a-TFT #2	11.15	2039923	51.115 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.23%	
5) S BFB #2	15.07	1411346	52.620 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 105.24%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1105102	22.089 ug/Kg

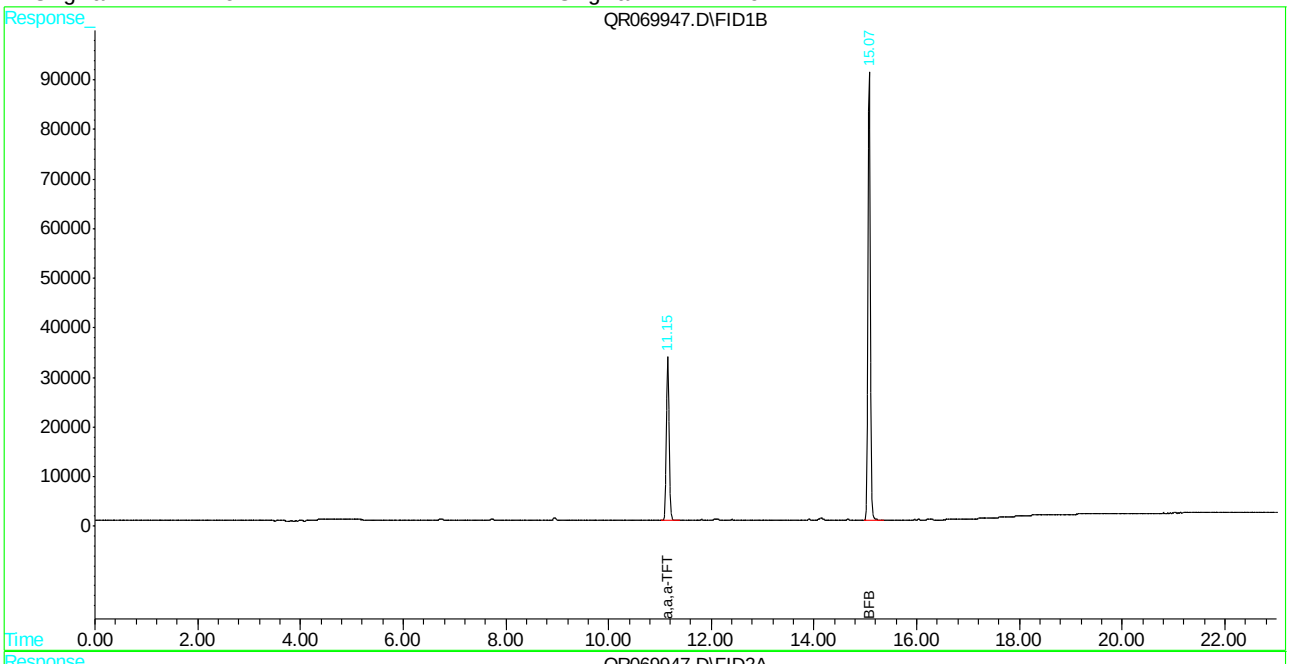
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069947.D GROML.M Fri Jul 27 12:36:48 2012

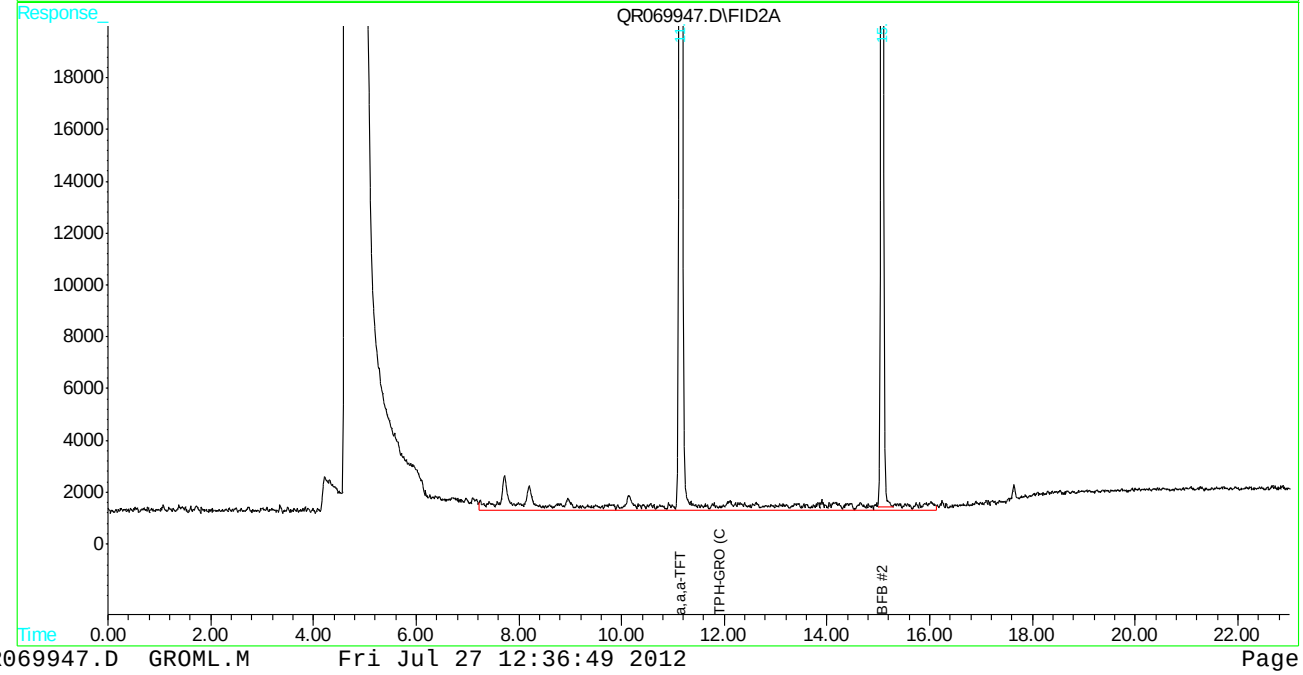
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069947.D\FID1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069947.D\FID2A.CH
Acq On : 26 Jul 2012 5:47 pm Operator: CARLENEP
Sample : F95274-6 Inst : VOA3
Misc : gc13944,gqr3028,6.41,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID2A.CH
Acq On : 26 Jul 2012 10:04 am Operator: CARLENEP
Sample : MB Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32162	48.388 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 96.78%	
2) S BFB	15.08	85863	46.883 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 93.77%	
4) S a,a,a-TFT #2	11.15	1974018	49.464 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.93%	
5) S BFB #2	15.08	1343725	50.099 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.20%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	1106267	22.113 ug/Kg

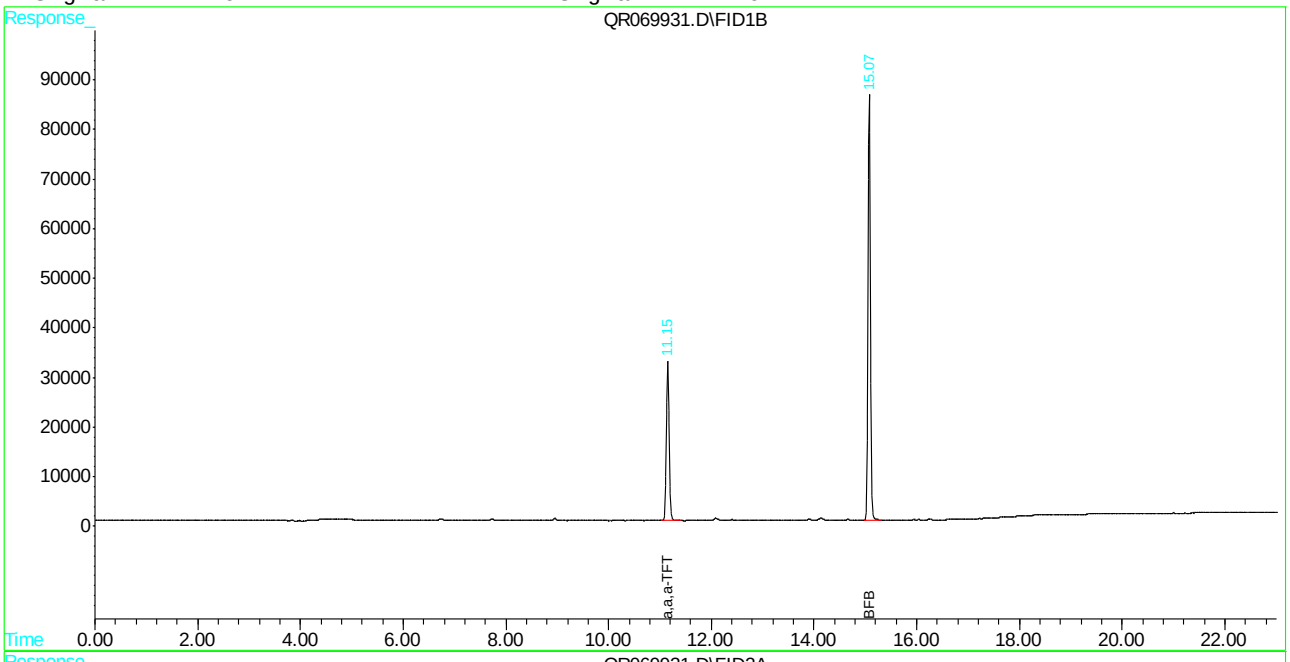
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069931.D GROML.M Fri Jul 27 12:36:04 2012

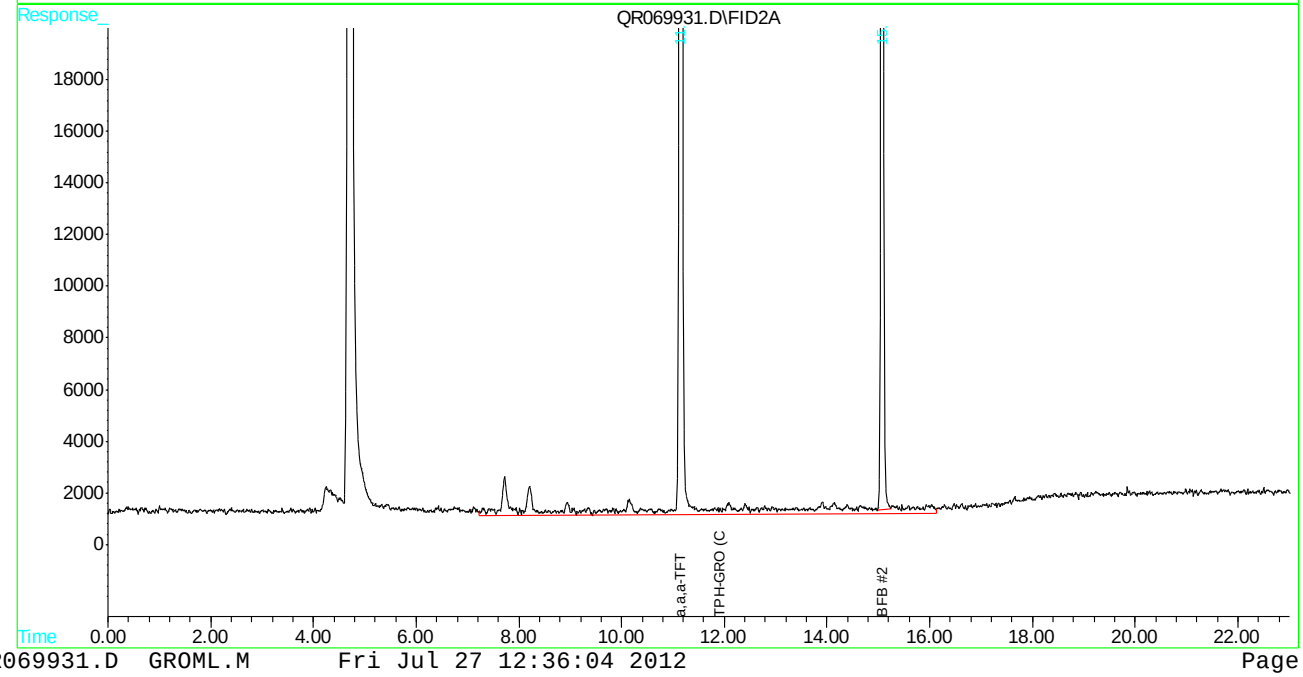
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069931.D\FID2A.CH
Acq On : 26 Jul 2012 10:04 am Operator: CARLENEP
Sample : MB Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID2A.CH
Acq On : 26 Jul 2012 9:36 am Operator: CARLENEP
Sample : BS Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32737	49.254 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.51%	
2) S BFB	15.07	88793	48.484 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 96.97%	
4) S a,a,a-TFT #2	11.15	2052995	51.442 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.88%	
5) S BFB #2	15.08	1443331	53.813 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.63%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	19634627	392.468 ug/Kg

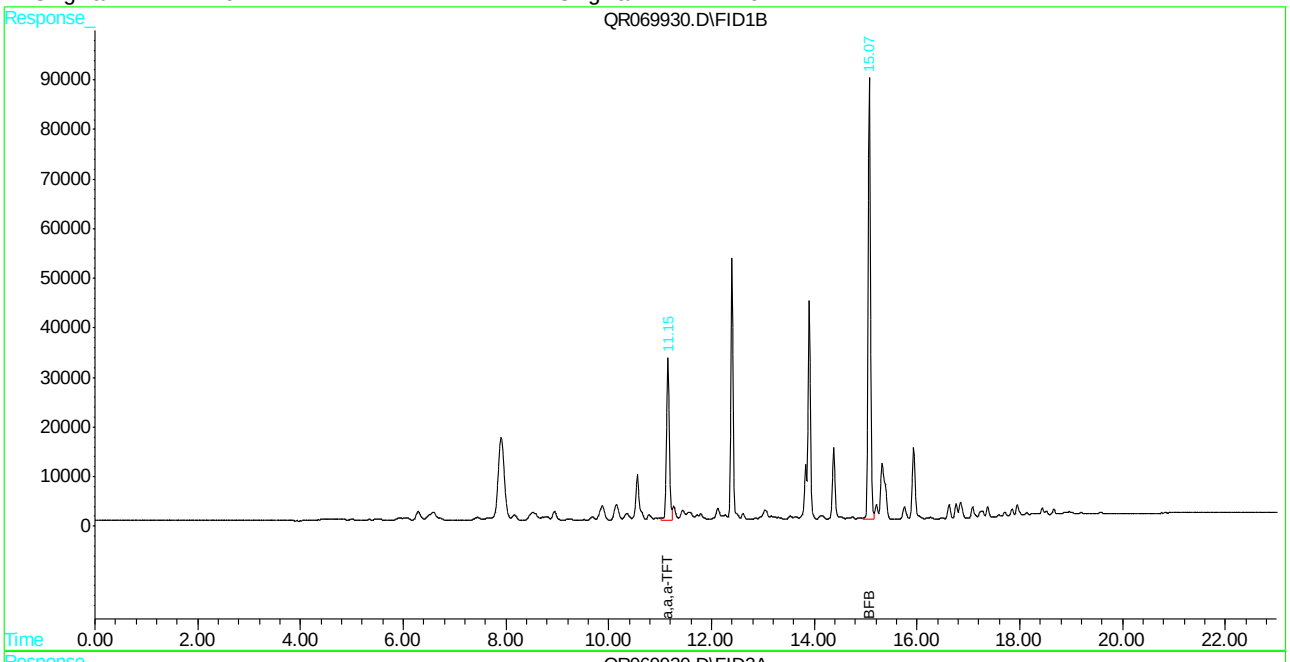
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069930.D GROML.M Fri Jul 27 12:36:01 2012

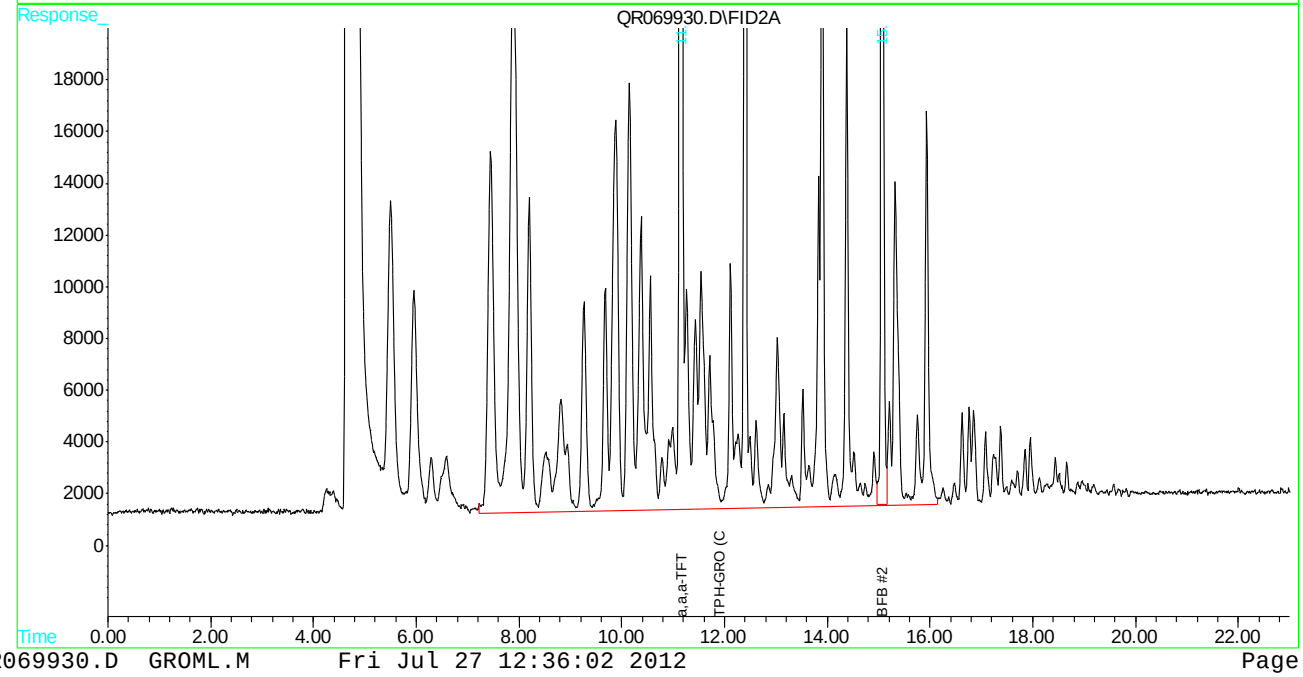
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069930.D\FID2A.CH
Acq On : 26 Jul 2012 9:36 am Operator: CARLENEP
Sample : BS Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID1B.CH  Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID2A.CH
Acq On    : 26 Jul 2012  10:02 pm                    Operator: CARLENEP
Sample    : F95178-2MS,200                           Inst    : VOA3
Misc      : gc13940,gqr3028,6.07,,25,5.0,,soil       Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33674	50.664 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 101.33%	
2) S BFB	15.07	93933	51.290 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 102.58%	
4) S a,a,a-TFT #2	11.15	2293866	57.478 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 114.96%	
5) S BFB #2	15.07	1608990	59.989 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 119.98%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	43561373	870.730 ug/Kg

11.4.1

11

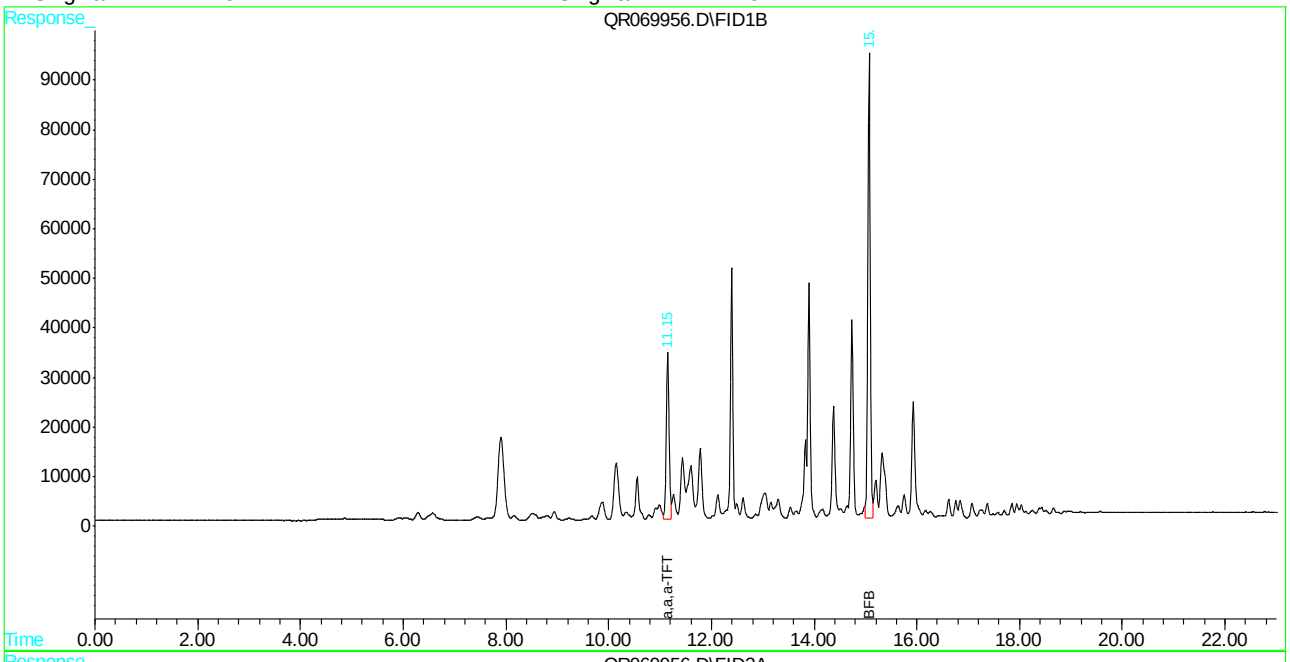
(f)=RT Delta > 1/2 Window (m)=manual int.

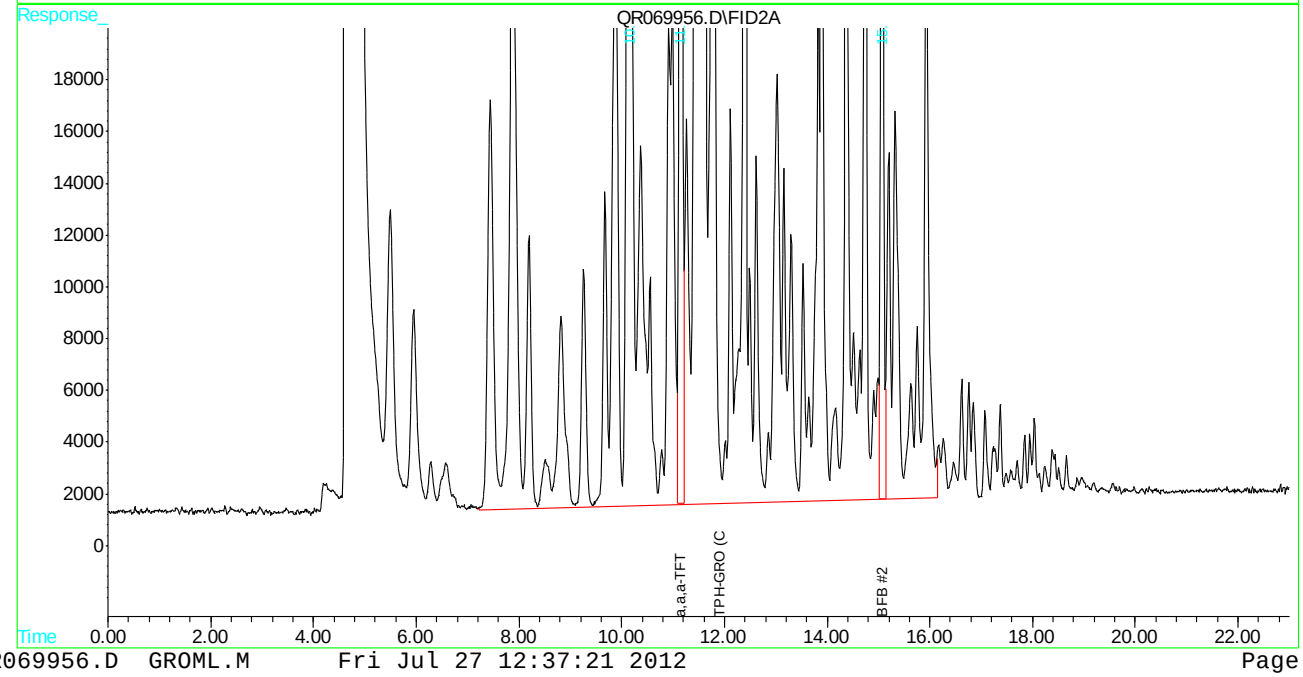
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID1B.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069956.D\FID2A.CH
Acq On : 26 Jul 2012 10:02 pm Operator: CARLENEP
Sample : F95178-2MS,200 Inst : VOA3
Misc : gc13940,gqr3028,6.07,,25,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	F95178-2MS	**Method:**	SW846 8015C
Lab FileID:	QR069956.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:02	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Bromofluorobenzene	460-00-4	1	15.07	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID1B.CH  Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID2A.CH
Acq On    : 26 Jul 2012  10:30 pm                    Operator: CARLENEP
Sample    : F95178-2MSD,200                          Inst    : VOA3
Misc      : gc13940,gqr3028,6.07,,25,5.0,,soil       Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:34 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33987	51.135 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.27%	
2) S BFB	15.07	94256	51.466 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 102.93%	
4) S a,a,a-TFT #2	11.15	2319483	58.120 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 116.24%	
5) S BFB #2	15.07	1629030	60.736 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 121.47%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	43750369	874.507 ug/Kg

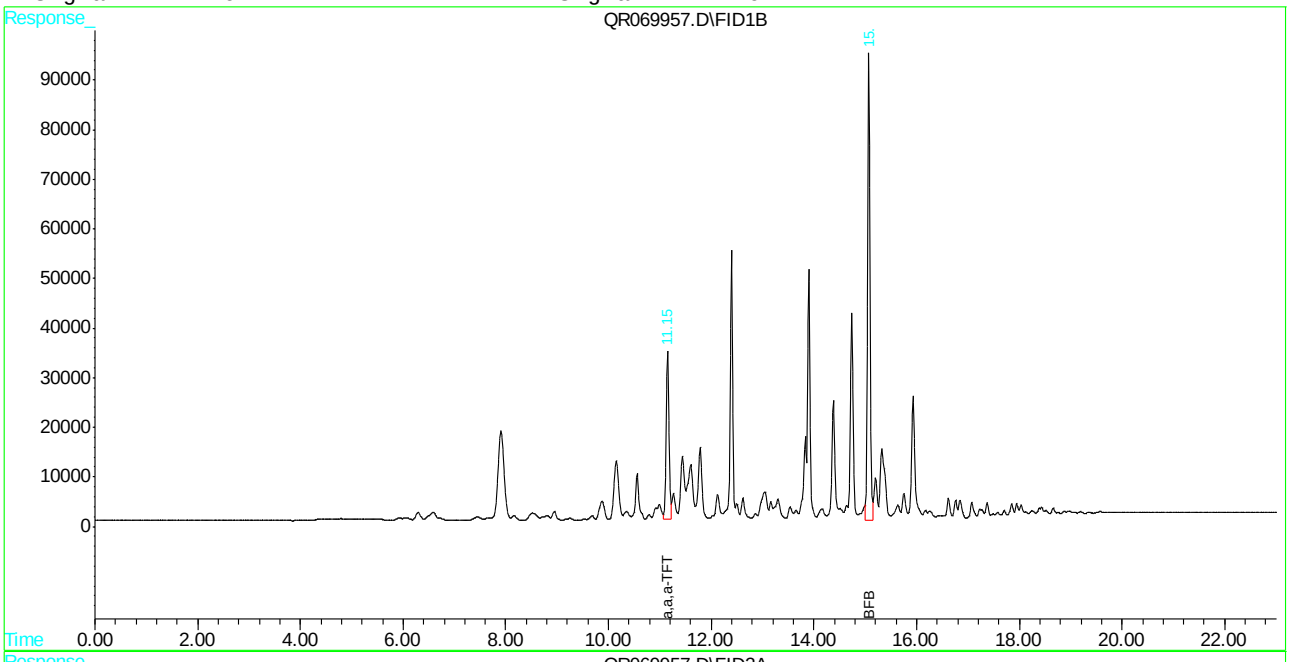
(f)=RT Delta > 1/2 Window (m)=manual int.

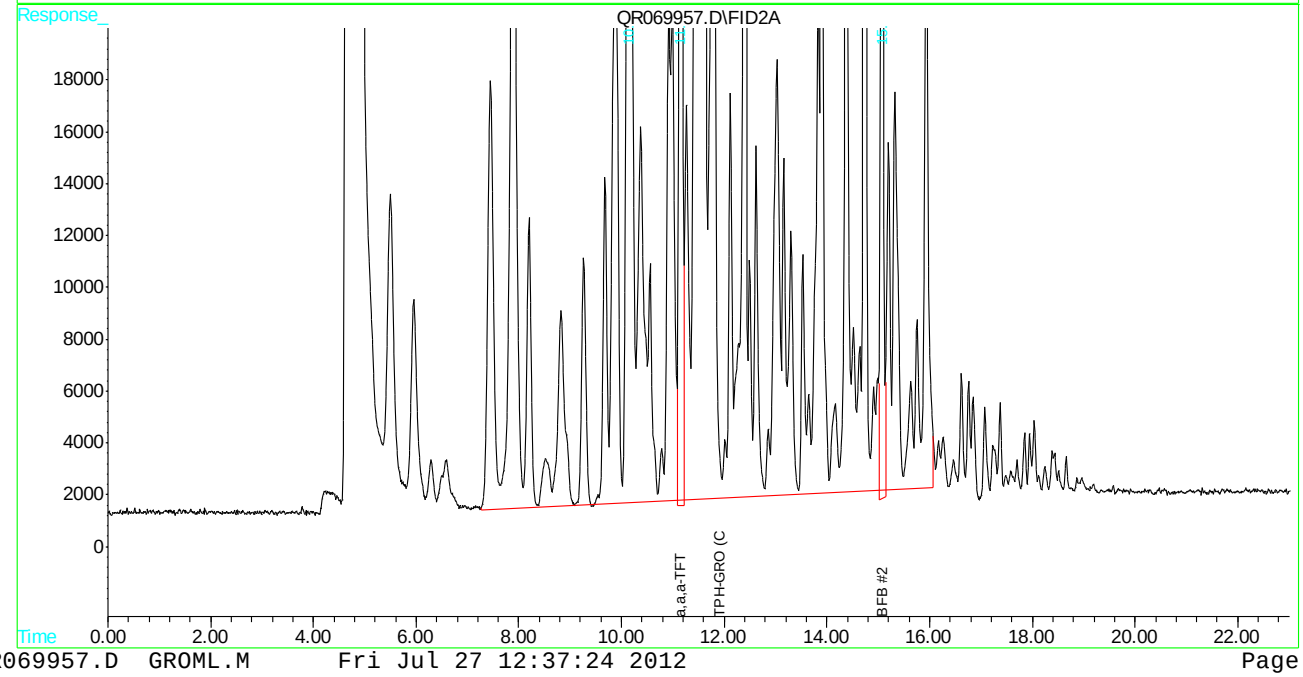
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID1B.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069957.D\FID2A.CH
Acq On : 26 Jul 2012 10:30 pm Operator: CARLENEP
Sample : F95178-2MSD,200 Inst : VOA3
Misc : gc13940,gqr3028,6.07,,25,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:34 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	F95178-2MSD	**Method:**	SW846 8015C
Lab FileID:	QR069957.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:30	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Bromofluorobenzene	460-00-4	1	15.07	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.07	Poor instrument integration

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID1B.CH  Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID2A.CH
Acq On    :  5 Jul 2012   3:57 pm                    Operator: MikeM
Sample    : RT                                       Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  9 14:47 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	33056	49.733 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.47%	
2) S BFB	15.06	86662	47.320 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 94.64%	
4) S a,a,a-TFT #2	11.15	1951983	48.911 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 97.82%	
5) S BFB #2	15.06	1256693	46.854 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 93.71%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	23426055	468.253 ug/Kg

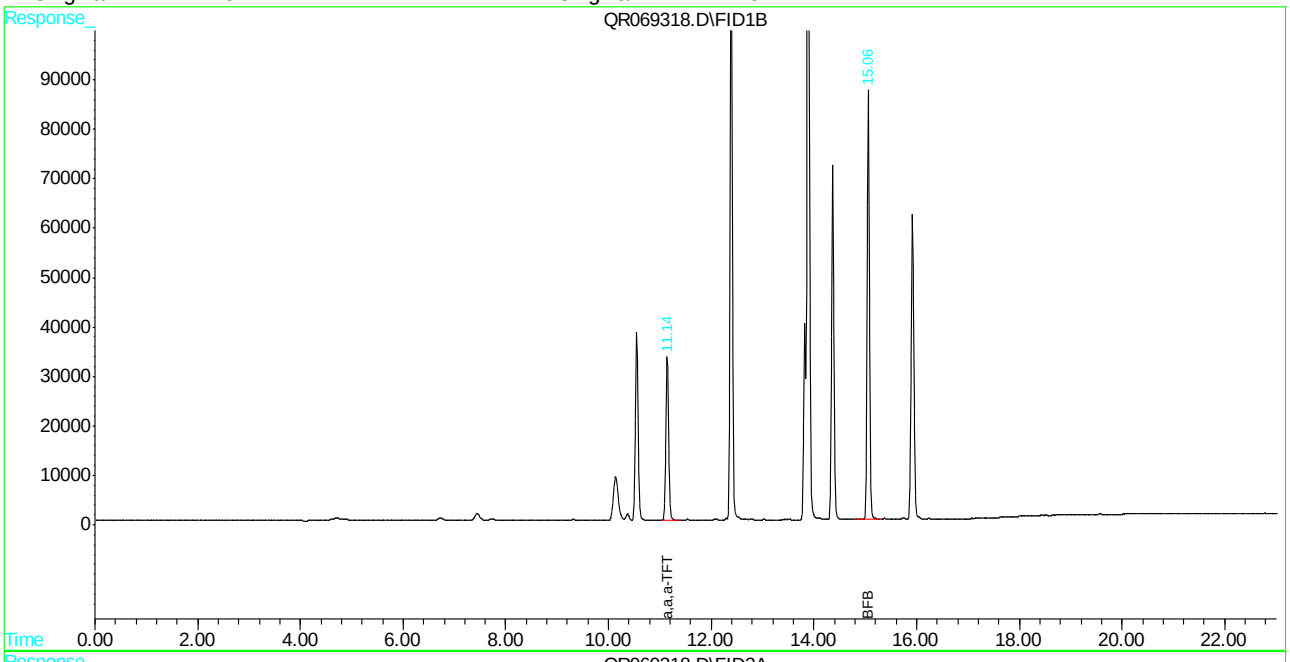
(f)=RT Delta > 1/2 Window (m)=manual int.

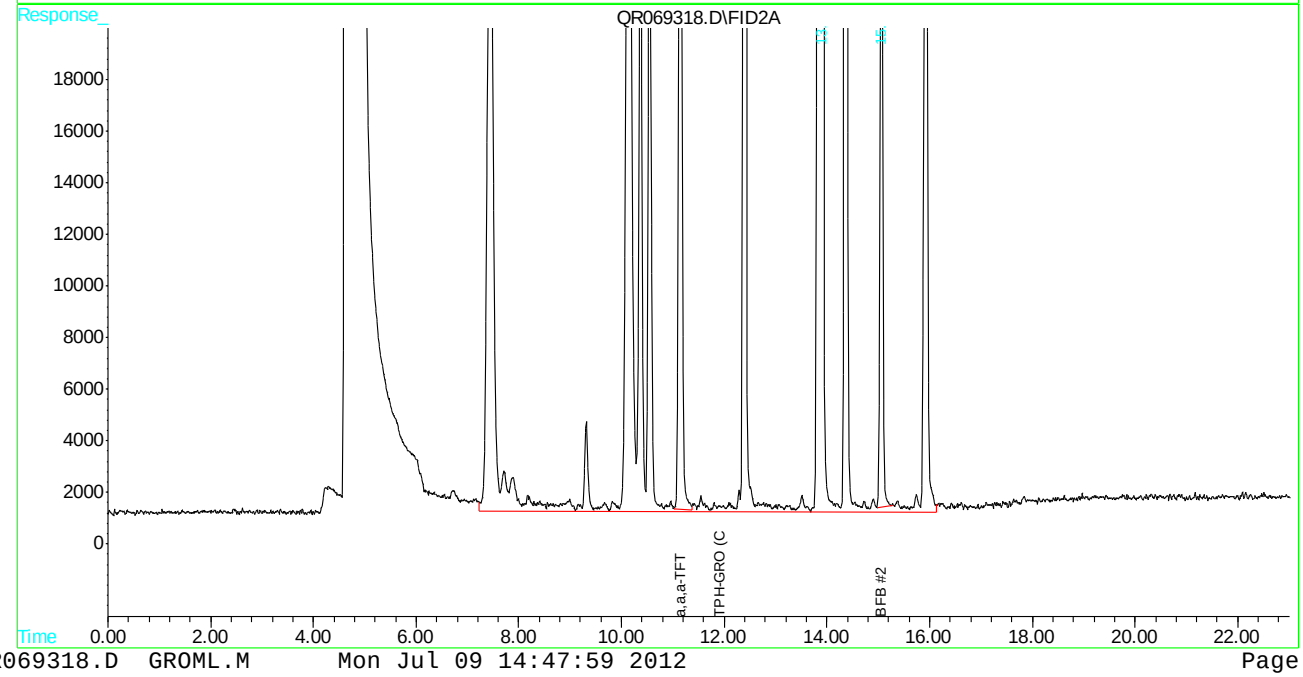
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069318.D\FID2A.CH
Acq On : 5 Jul 2012 3:57 pm Operator: MikeM
Sample : RT Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 9 14:47 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID2A.CH
Acq On : 26 Jul 2012 8:39 am Operator: CARLENEP
Sample : RT Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	33344	50.167 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 100.33%	
2) S BFB	15.06	92187	50.337 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 100.67%	
4) S a,a,a-TFT #2	11.14	2039356	51.101 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 102.20%	
5) S BFB #2	15.06	1386673	51.700 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.40%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	31399200	627.625 ug/Kg

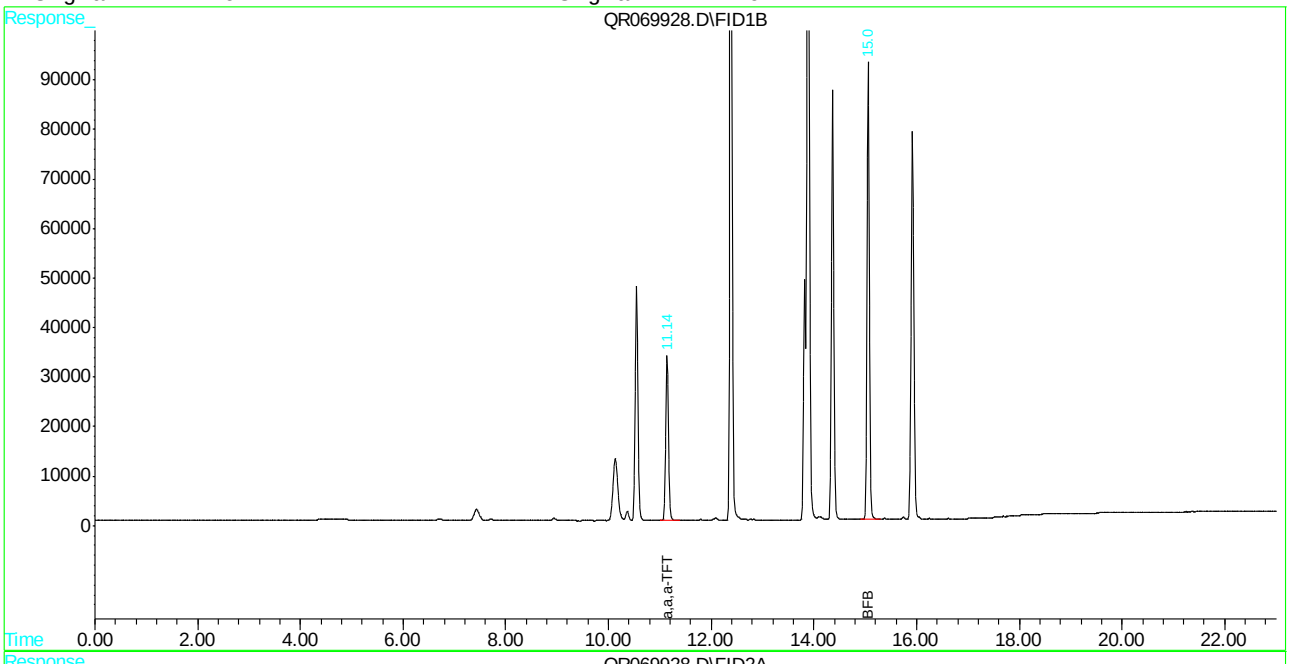
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069928.D GROML.M Fri Jul 27 12:35:56 2012

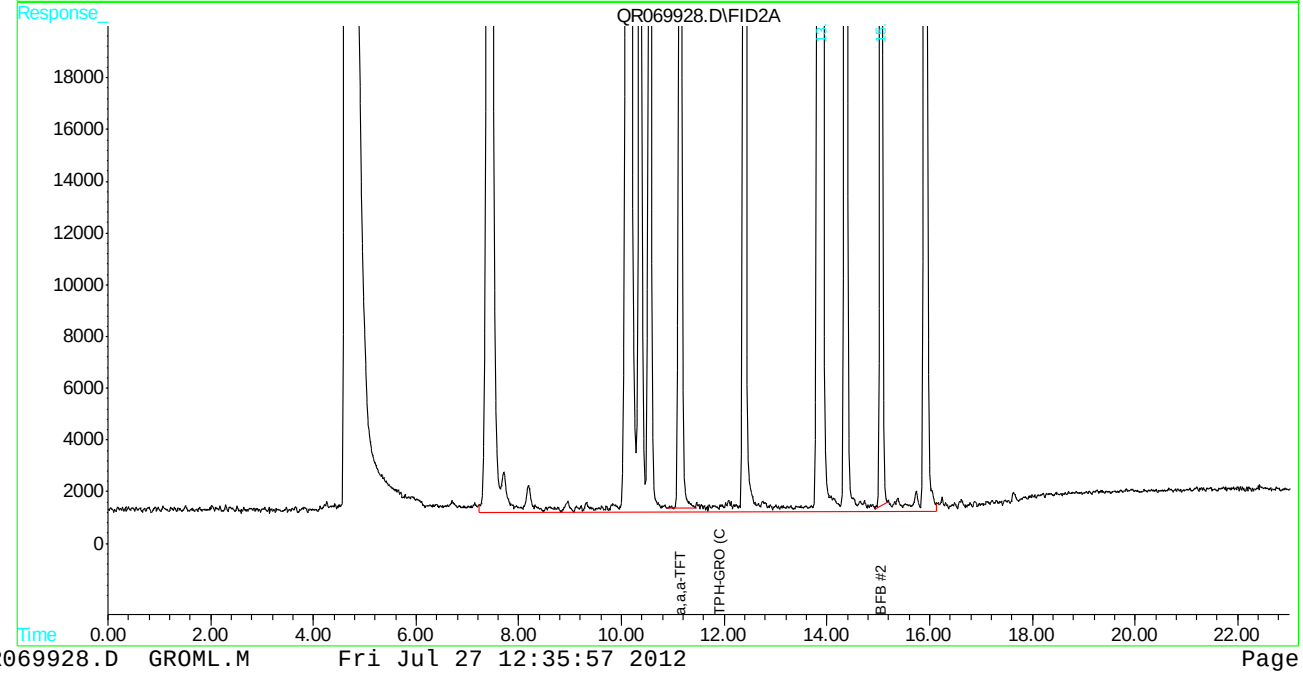
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069928.D\FID2A.CH
Acq On : 26 Jul 2012 8:39 am Operator: CARLENEP
Sample : RT Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID1B.CH  Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID2A.CH
Acq On    : 26 Jul 2012   2:57 pm                    Operator: CARLENEP
Sample    : RT                                       Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	32880	49.468 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.94%	
2) S BFB	15.08	90963	49.668 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.34%	
4) S a,a,a-TFT #2	11.16	2021836	50.662 ug/Kg
Spiked Amount 50.000	Range 61 - 121	Recovery = 101.32%	
5) S BFB #2	15.08	1392857	51.931 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.86%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	31495511	629.550 ug/Kg

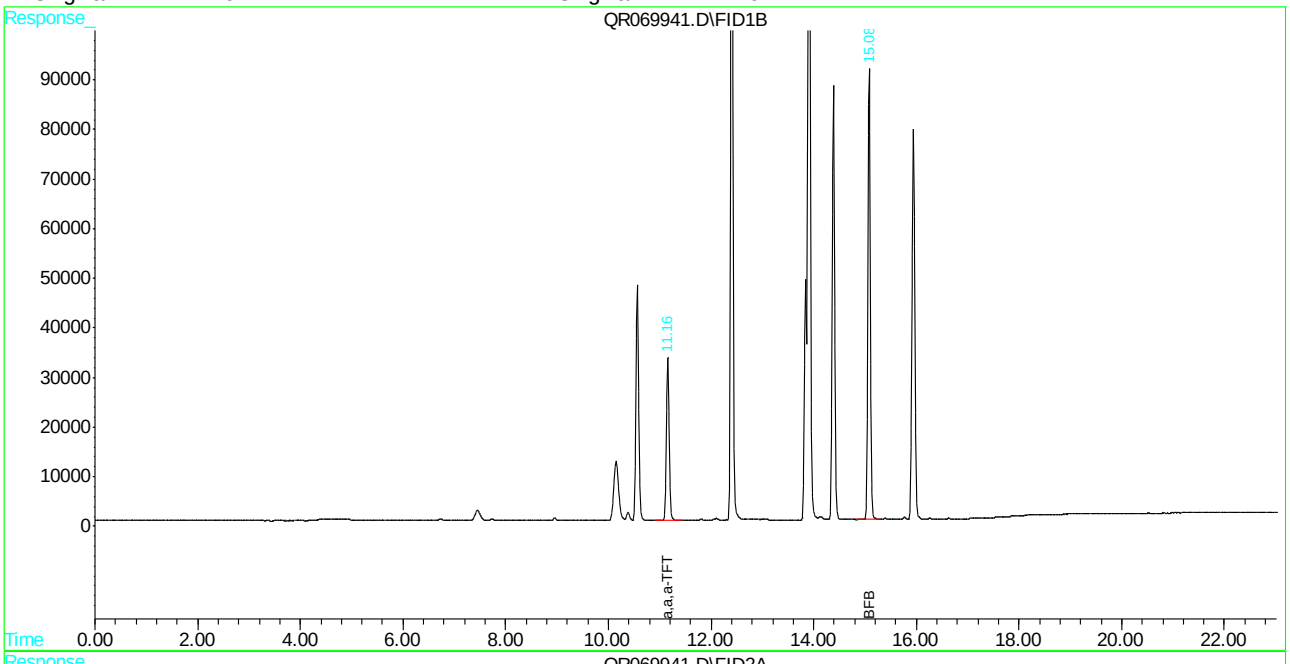
(f)=RT Delta > 1/2 Window (m)=manual int.

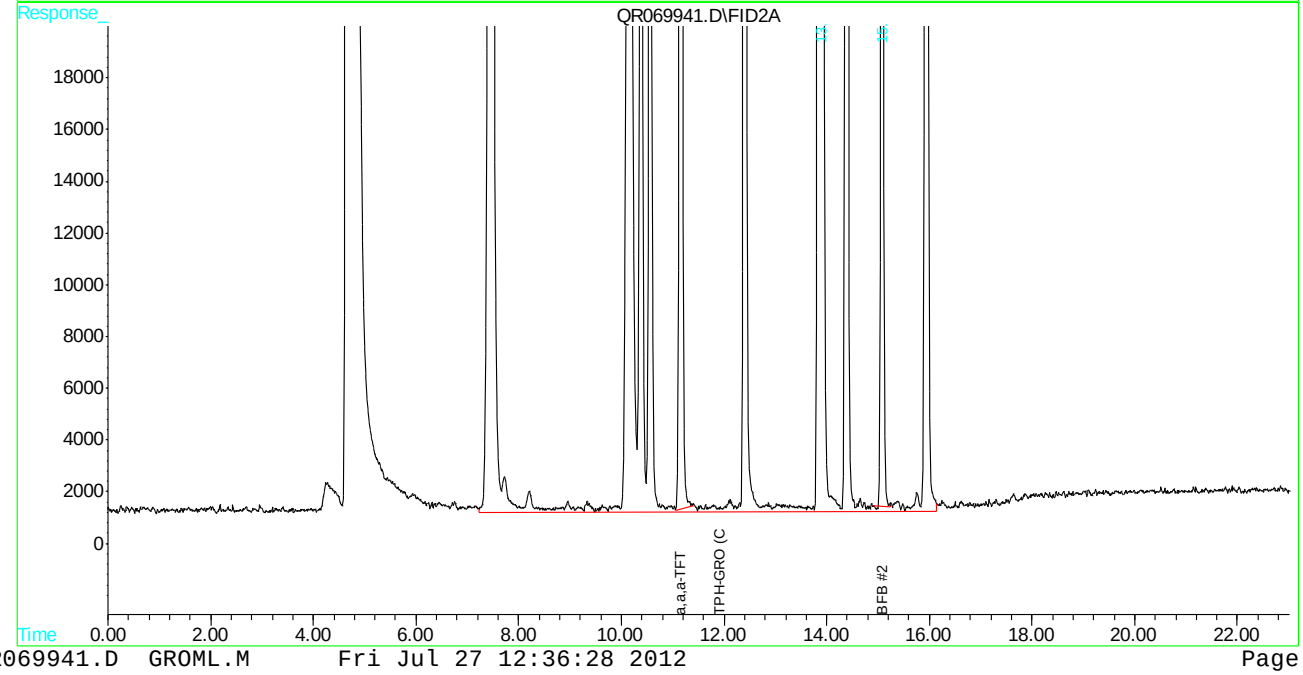
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID1B.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069941.D\FID2A.CH
Acq On : 26 Jul 2012 2:57 pm Operator: CARLENEP
Sample : RT Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID2A.CH
Acq On : 5 Jul 2012 4:29 pm Operator: MikeM
Sample : IC3009-1 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	32485	48.785 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery =	97.57%
2) S BFB	15.05	86258	47.250 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery =	94.50%
4) S a,a,a-TFT #2	11.14	1926367	44.871 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery =	89.74%
5) S BFB #2	15.05	1260307	46.561 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery =	93.12%
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	5397245	108.838 ug/Kg

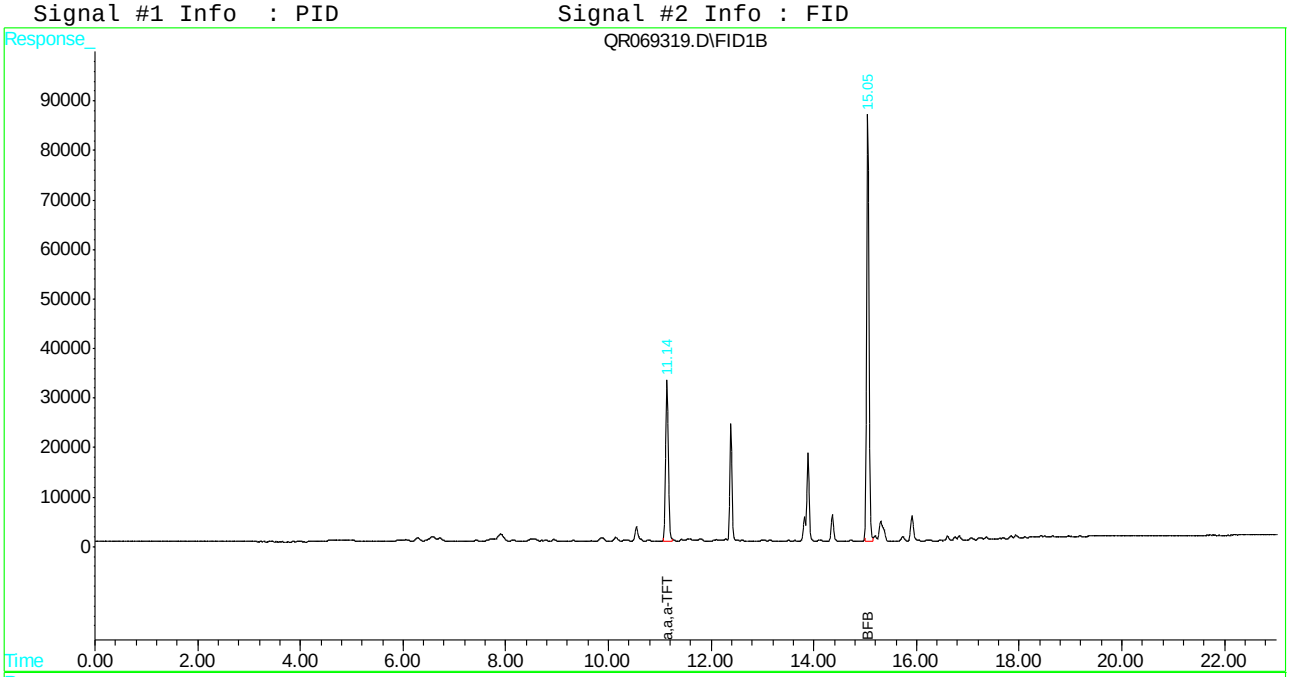
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069319.D GROML.M Fri Jul 06 13:34:01 2012

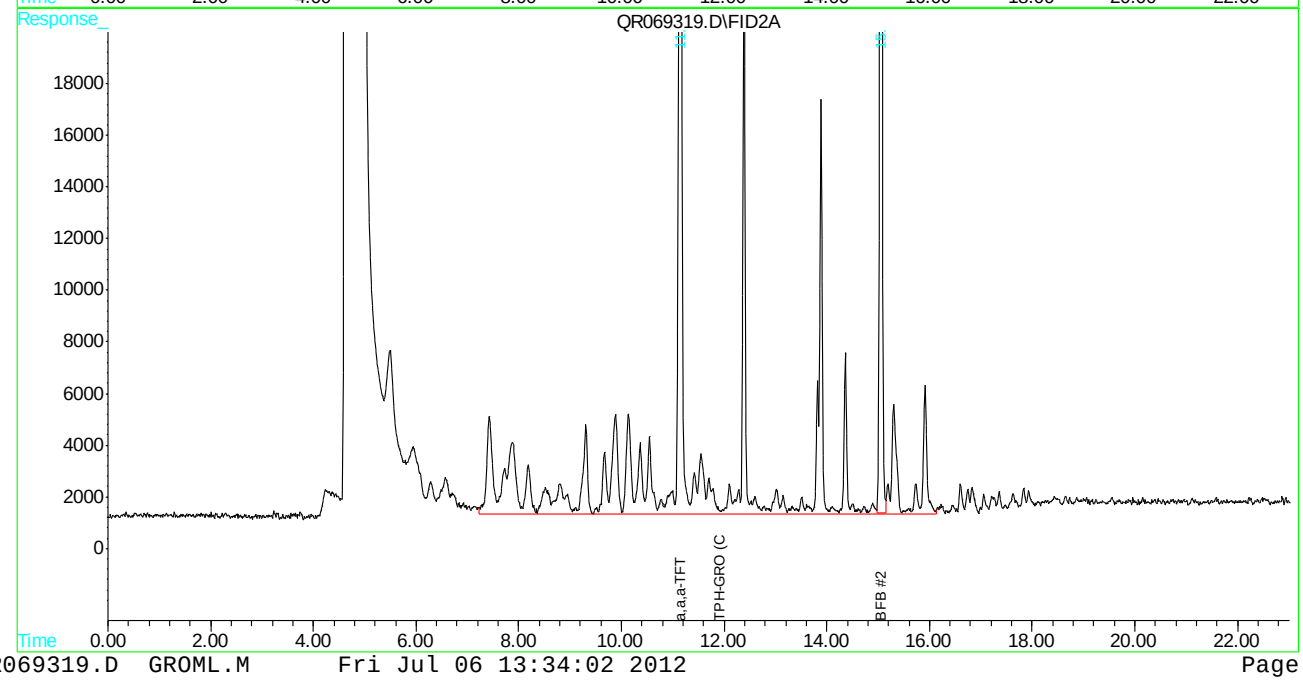
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069319.D\FID2A.CH
Acq On : 5 Jul 2012 4:29 pm Operator: MikeM
Sample : IC3009-1 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:23 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069319.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 16:29	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID2A.CH
Acq On : 5 Jul 2012 4:57 pm Operator: MikeM
Sample : IC3009-2 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.14	38825	58.305 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 116.61%	
2) S BFB	15.05	104504	57.245 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 114.49%	
4) S a,a,a-TFT #2	11.14	2315097	53.926 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 107.85%	
5) S BFB #2	15.05	1515391	55.985 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 111.97%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	10305145	207.807 ug/Kg

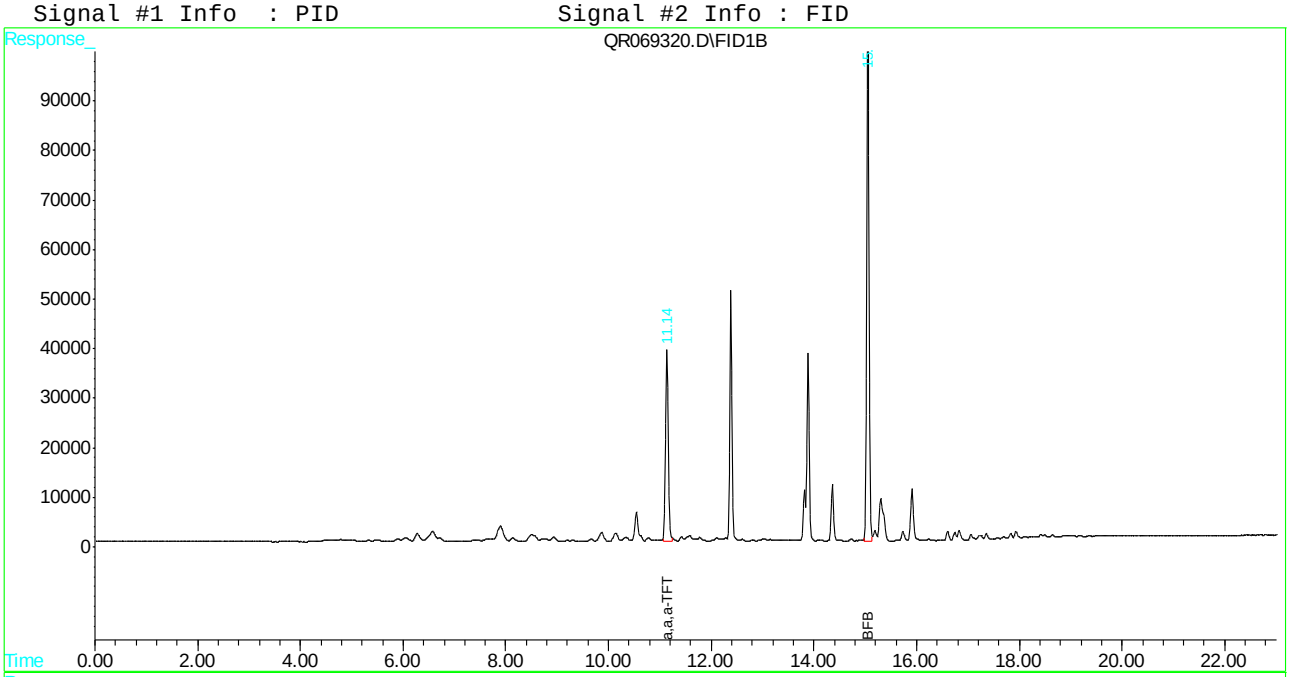
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069320.D GROML.M Fri Jul 06 13:34:04 2012

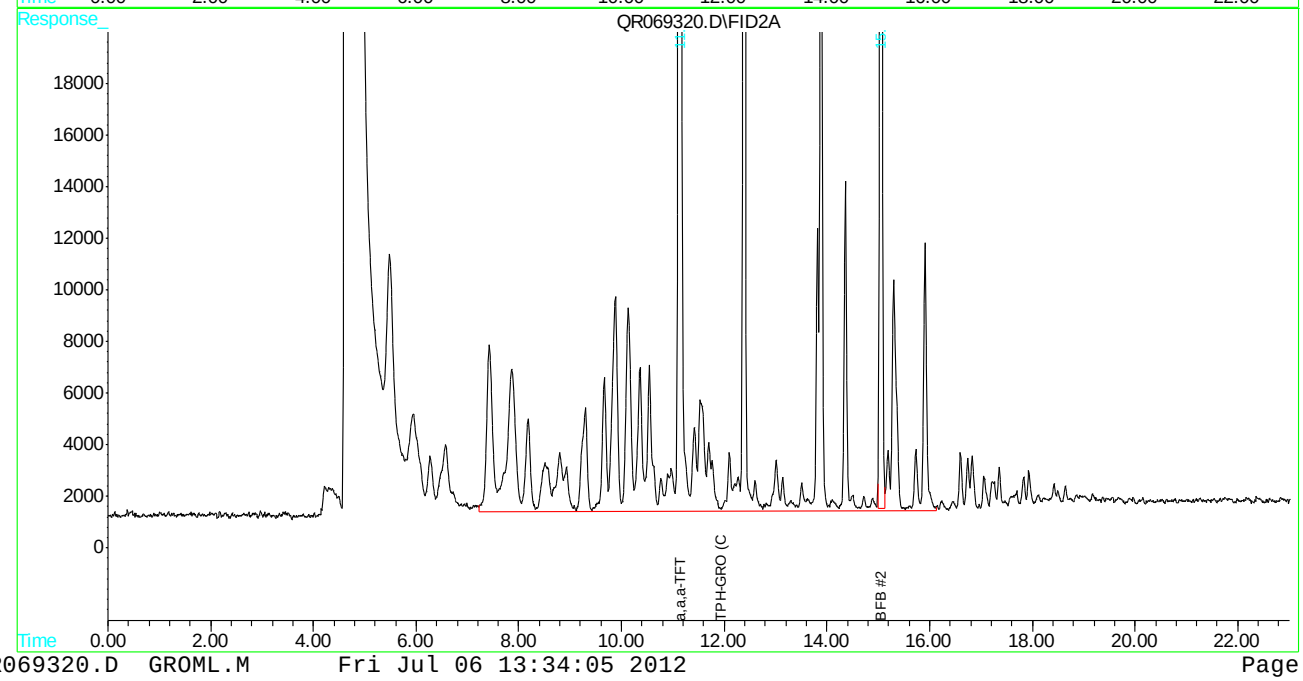
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069320.D\FID2A.CH
Acq On : 5 Jul 2012 4:57 pm Operator: MikeM
Sample : IC3009-2 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069320.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 16:57	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID1B.CH  Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID2A.CH
Acq On    :  5 Jul 2012   5:25 pm                    Operator: MikeM
Sample    : IC3009-3                                 Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:24 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          34066   51.158 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  102.32%
 2) S   BFB                        15.05          90846   49.763 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   99.53%
 4) S   a,a,a-TFT #2               11.14        2039532   47.507 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   95.01%
 5)  S  BFB #2                     15.05        1311054   48.436 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   96.87%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       19714500  397.551 ug/Kg
```

11.6.3

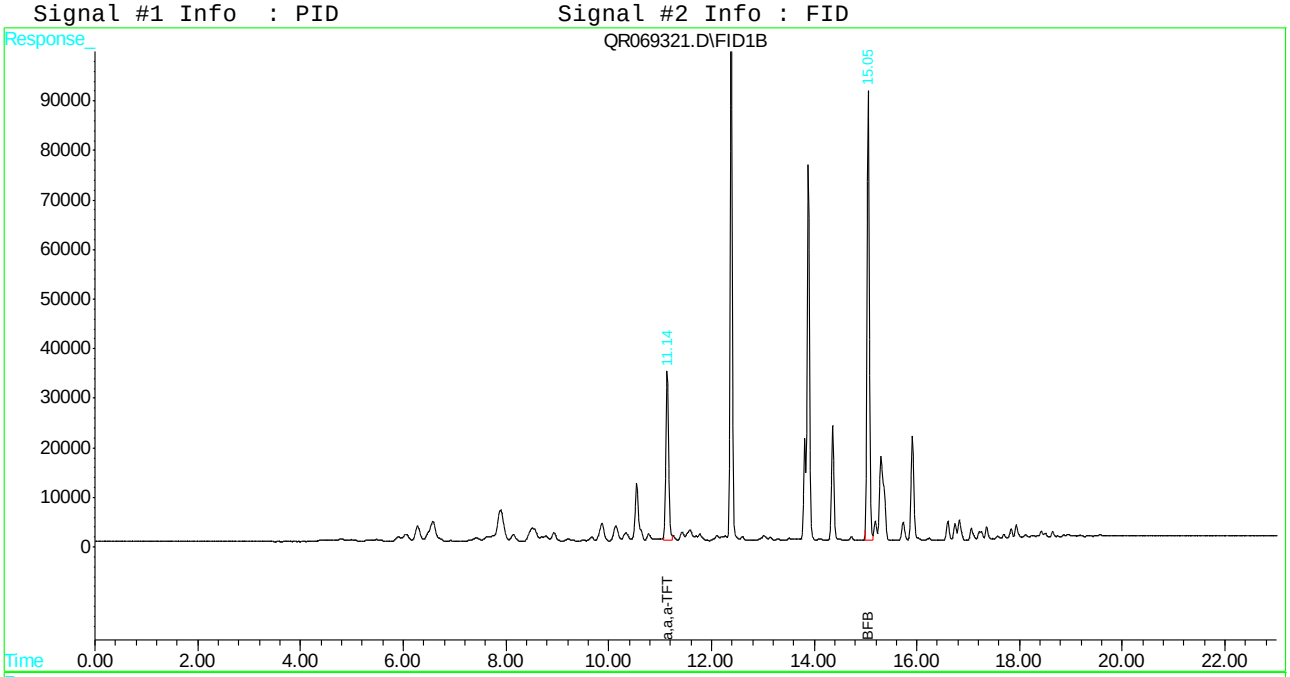
11

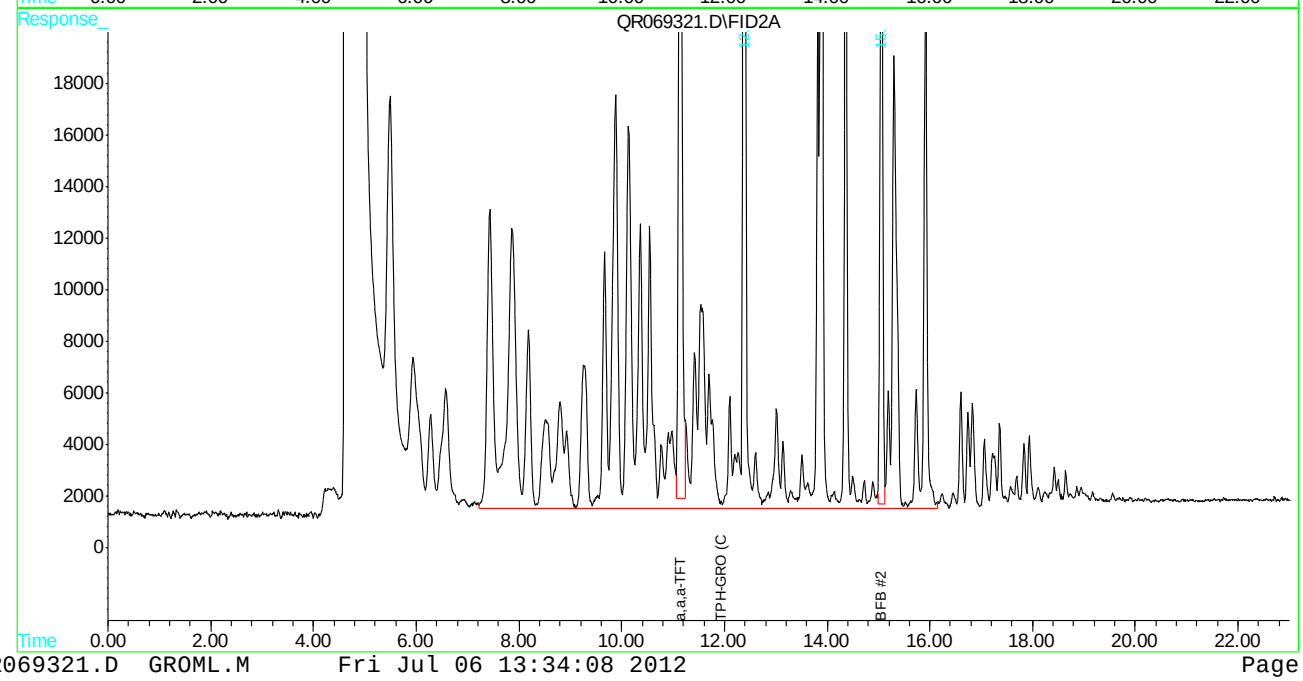
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069321.D\FID2A.CH
Acq On : 5 Jul 2012 5:25 pm Operator: MikeM
Sample : IC3009-3 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:24 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069321.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 17:25	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID1B.CH  Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID2A.CH
Acq On    :  5 Jul 2012   5:54 pm                    Operator: MikeM
Sample    : ICC3009-4                                Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:25 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          50059   75.176 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  150.35%#
 2) S   BFB                        15.05         140925   77.196 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  154.39%#
 4) S   a,a,a-TFT #2               11.14        2997264   69.815 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  139.63%#
 5)  S  BFB #2                     15.05        2051421   75.789 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  151.58%#

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       29704458  599.002 ug/Kg
```

11.6.4

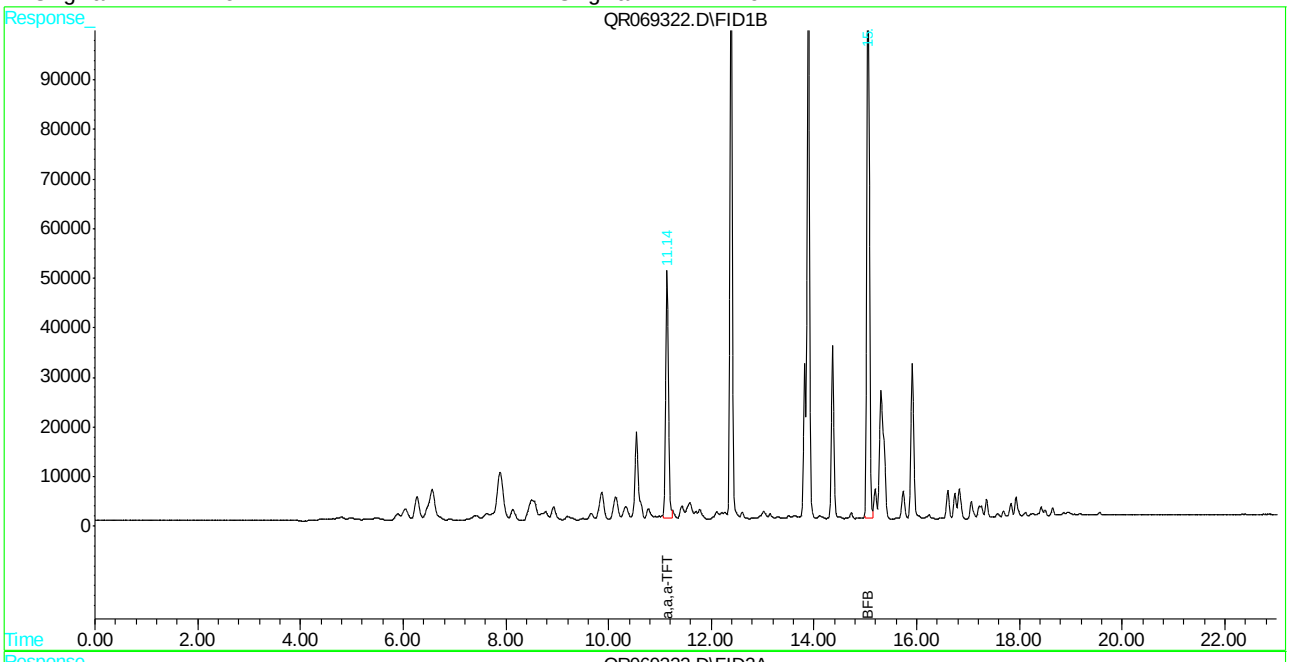
11

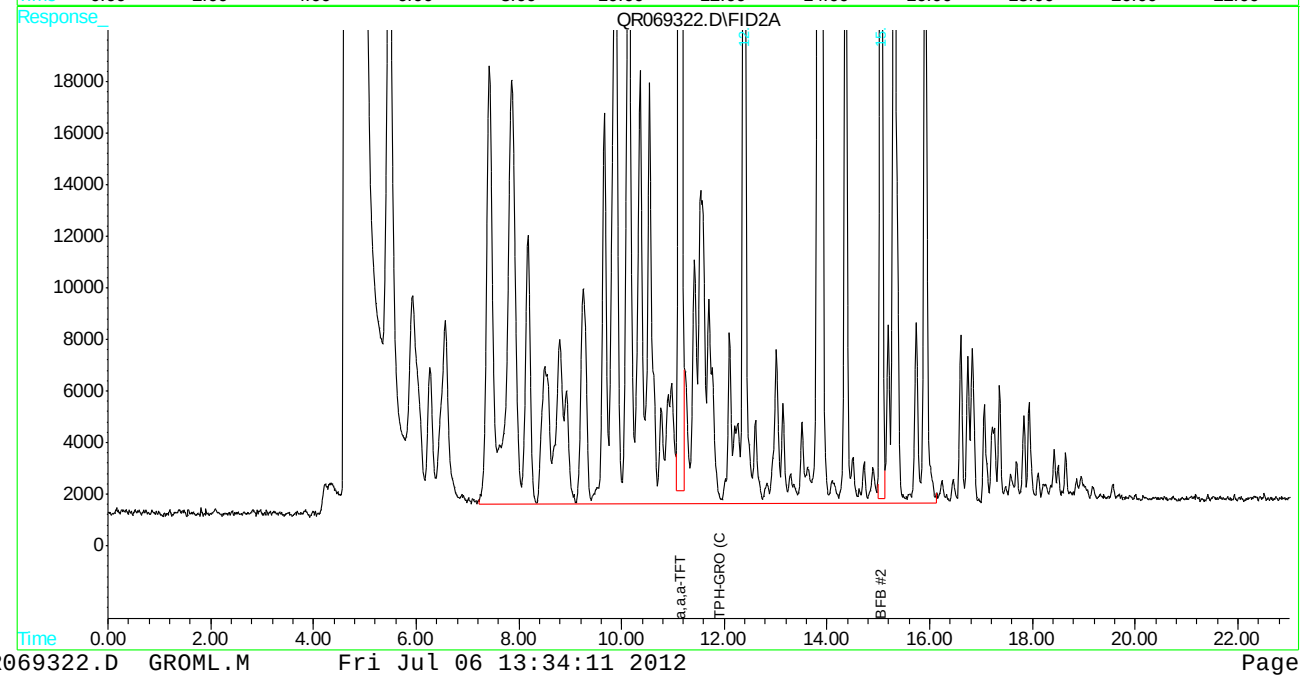
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069322.D\FID2A.CH
Acq On : 5 Jul 2012 5:54 pm Operator: MikeM
Sample : ICC3009-4 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-ICC3009	**Method:**	SW846 8015C
Lab FileID:	QR069322.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 17:54	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID2A.CH
Acq On : 5 Jul 2012 6:22 pm Operator: MikeM
Sample : IC3009-5 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.13	51969	78.045 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 156.09%#	
2) S BFB	15.05	148582	81.390 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 162.78%#	
4) S a,a,a-TFT #2	11.13	3146017	73.280 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 146.56%#	
5) S BFB #2	15.05	2207967	81.572 ug/Kgm
Spiked Amount 50.000	Range 56 - 136	Recovery = 163.14%#	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	38370599	773.759 ug/Kg

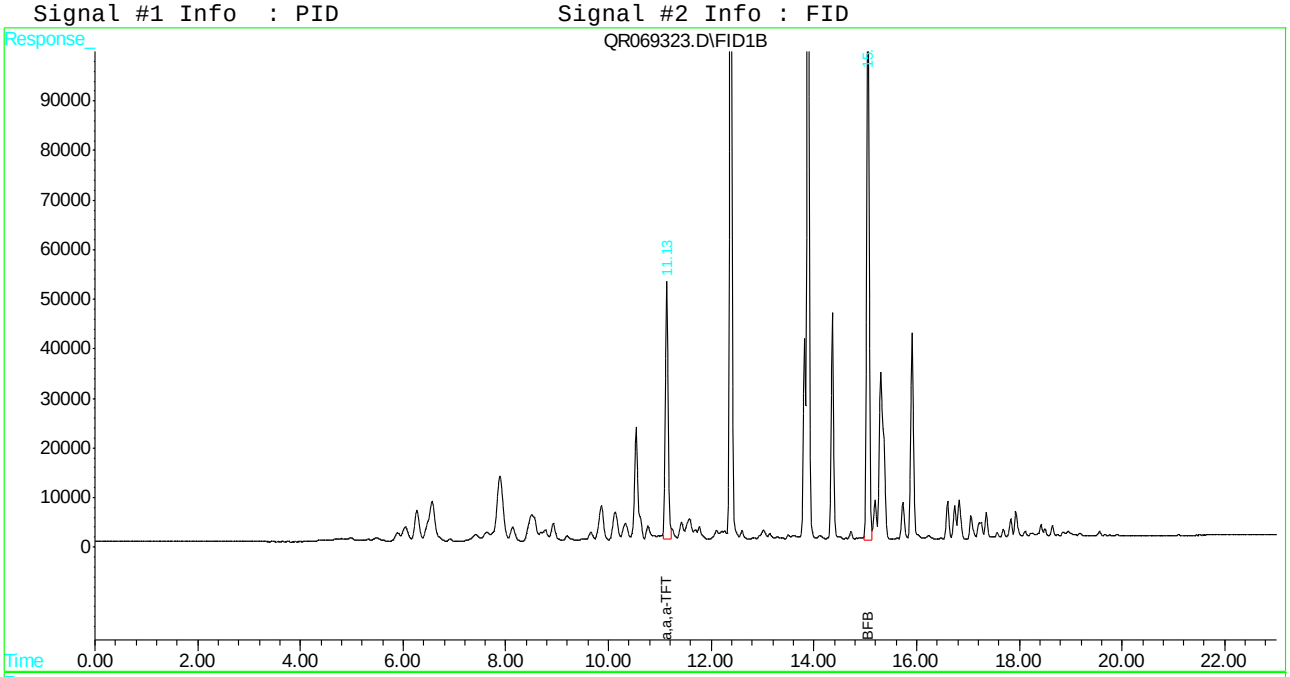
(f)=RT Delta > 1/2 Window (m)=manual int.
QR069323.D GROML.M Fri Jul 06 13:34:13 2012

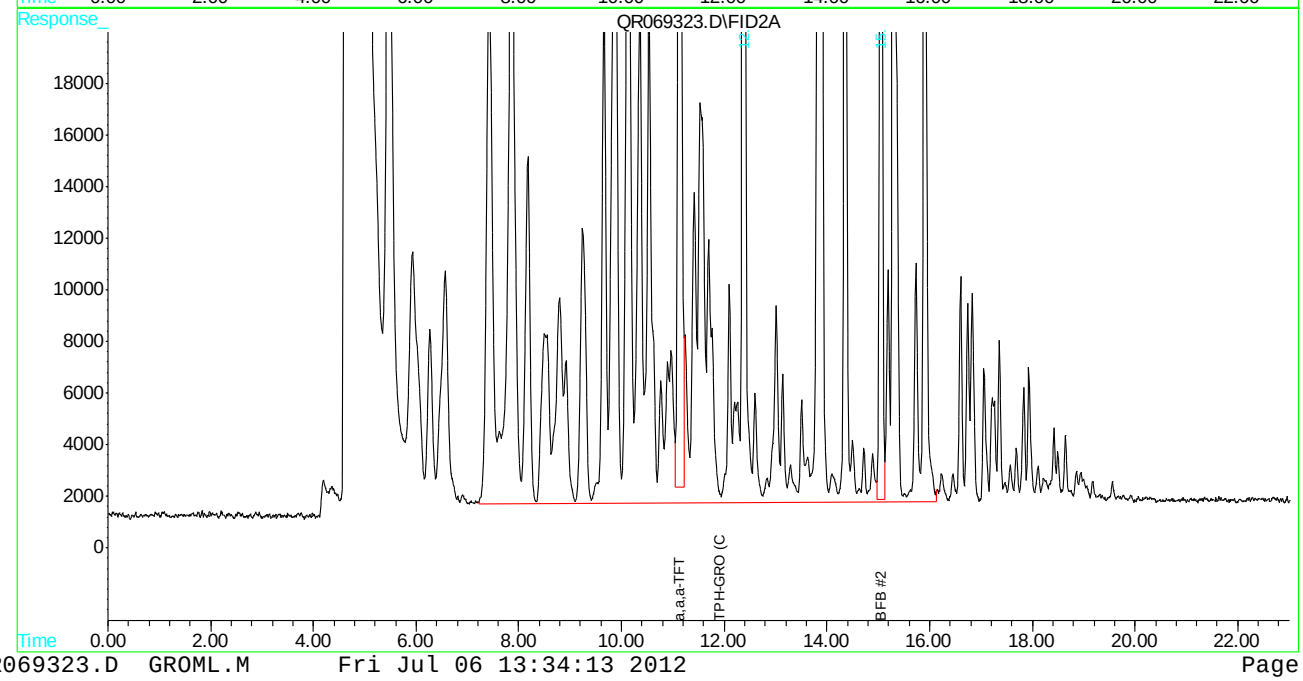
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069323.D\FID2A.CH
Acq On : 5 Jul 2012 6:22 pm Operator: MikeM
Sample : IC3009-5 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:25 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069323.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 18:22	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.13	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.13	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID1B.CH  Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID2A.CH
Acq On    :  5 Jul 2012   6:50 pm                    Operator: MikeM
Sample    : IC3009-6                                 Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:26 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:20:47 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.13          64515   96.887 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  193.77%#
 2) S   BFB                        15.05         183413  100.470 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  200.94%#
 4) S   a,a,a-TFT #2               11.13        3940526   91.787 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  183.57%#
 5)  S  BFB #2                     15.05        2733938  101.004 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =  202.01%#

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       47916413  966.254 ug/Kg
```

11.6.6

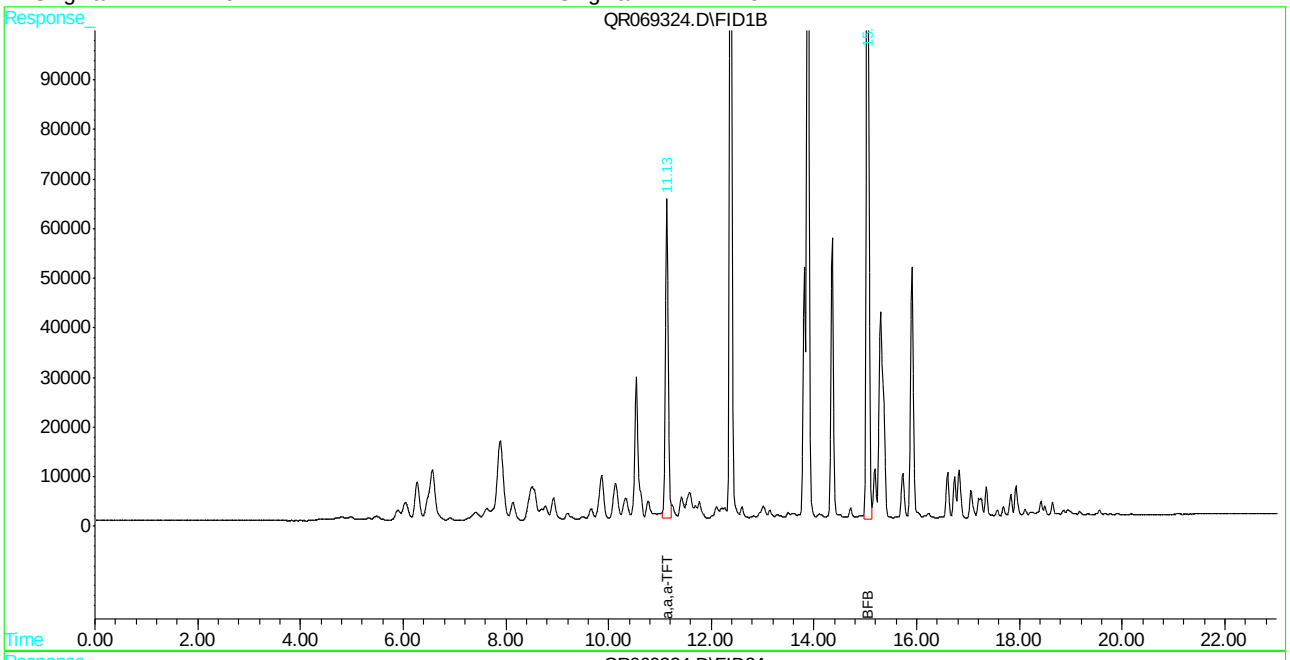
11

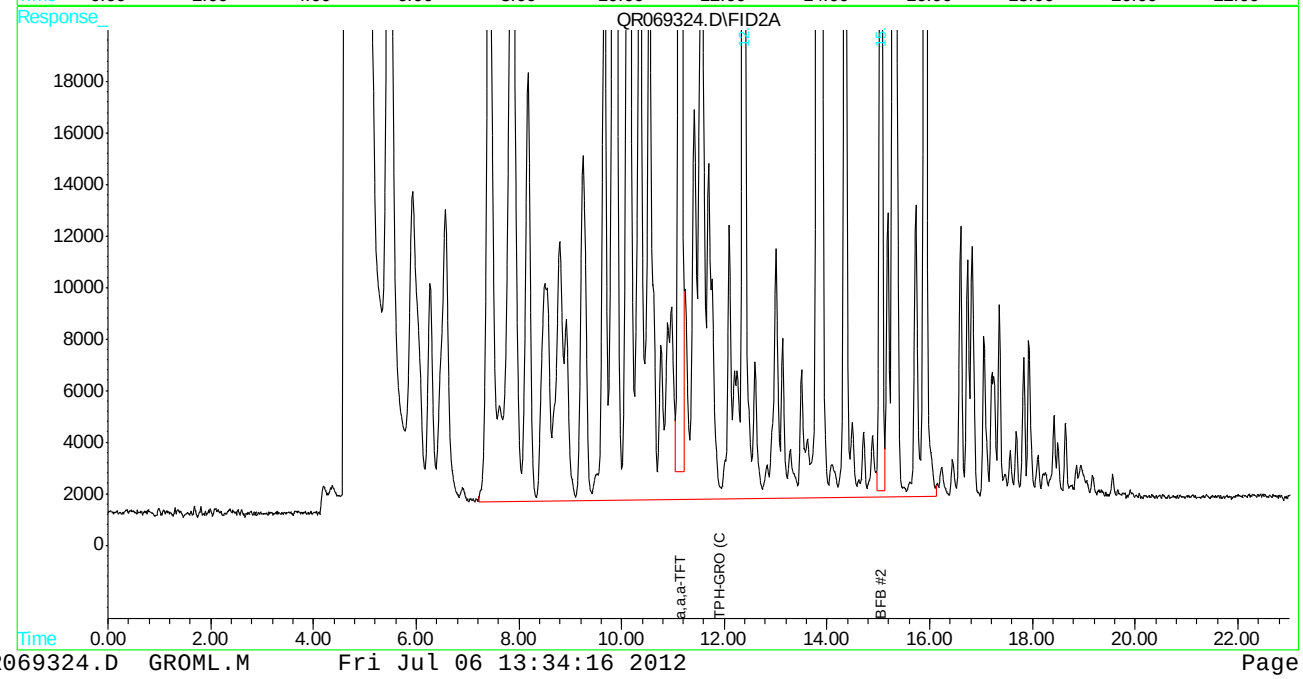
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069324.D\FID2A.CH
Acq On : 5 Jul 2012 6:50 pm Operator: MikeM
Sample : IC3009-6 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:26 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:20:47 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-IC3009	**Method:**	SW846 8015C
Lab FileID:	QR069324.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 18:50	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.13	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.13	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/09/12 16:02

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH  Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On    :  5 Jul 2012   7:18 pm                    Operator: MikeM
Sample    : ICV3009-3                                Inst    : VOA3
Misc      : gc13833,gqr3009,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul  6  8:28 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.14          32804   49.354 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   98.71%
 2) S   BFB                        15.05          88125   48.119 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   96.24%
 4) S   a,a,a-TFT #2               11.14        1955403   48.997 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   97.99%
 5)  S  BFB #2                     15.05        1297874   48.389 ug/Kgm
Spiked Amount     50.000   Range  56 - 136    Recovery   =   96.78%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       18552649  370.841 ug/Kg
```

11.6.7

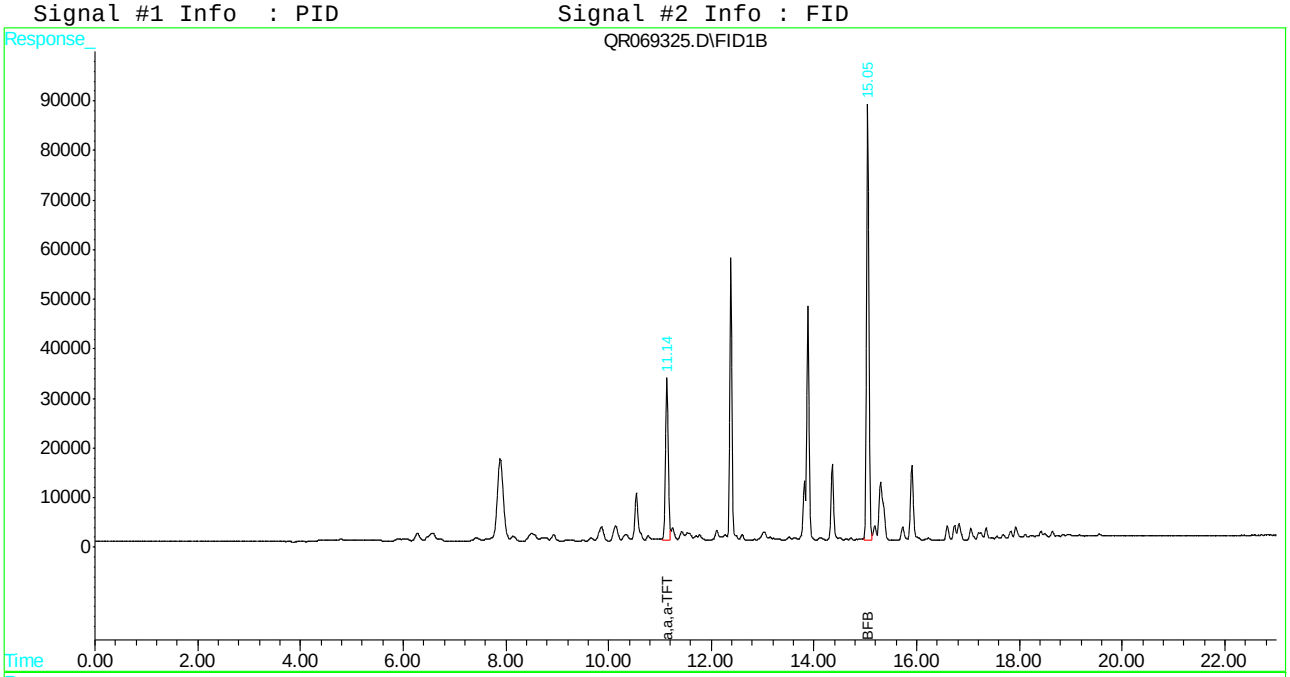
11

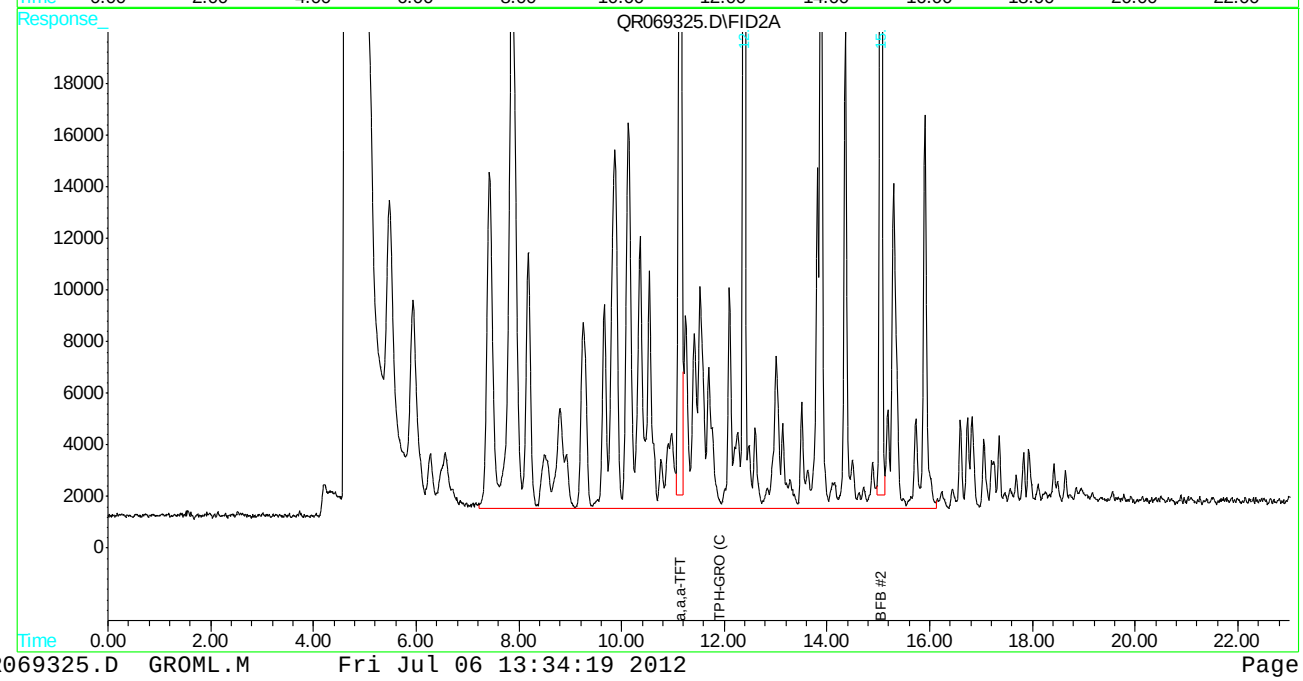
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\070512\QR069325.D\FID2A.CH
Acq On : 5 Jul 2012 7:18 pm Operator: MikeM
Sample : ICV3009-3 Inst : VOA3
Misc : gc13833,gqr3009,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 6 8:28 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3009-ICV3009	**Method:**	SW846 8015C
Lab FileID:	QR069325.D	**Analyst approved:**	07/09/12 15:08 Mike Mertens
Injection Time:	07/05/12 19:18	**Supervisor approved:**	07/09/12 16:02 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.14	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.14	Poor instrument integration
4-Bromofluorobenzene	460-00-4	1	15.05	Poor instrument integration
4-Bromofluorobenzene	460-00-4	2	15.05	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH  Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
Acq On    : 26 Jul 2012   9:07 am                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13940,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:28 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32811	49.365 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.73%	
2) S BFB	15.07	88996	48.595 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 97.19%	
4) S a,a,a-TFT #2	11.15	2084511	52.232 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 104.46%	
5) S BFB #2	15.07	1388655	51.774 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 103.55%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	20507207	409.910 ug/Kg

11.6.8

11

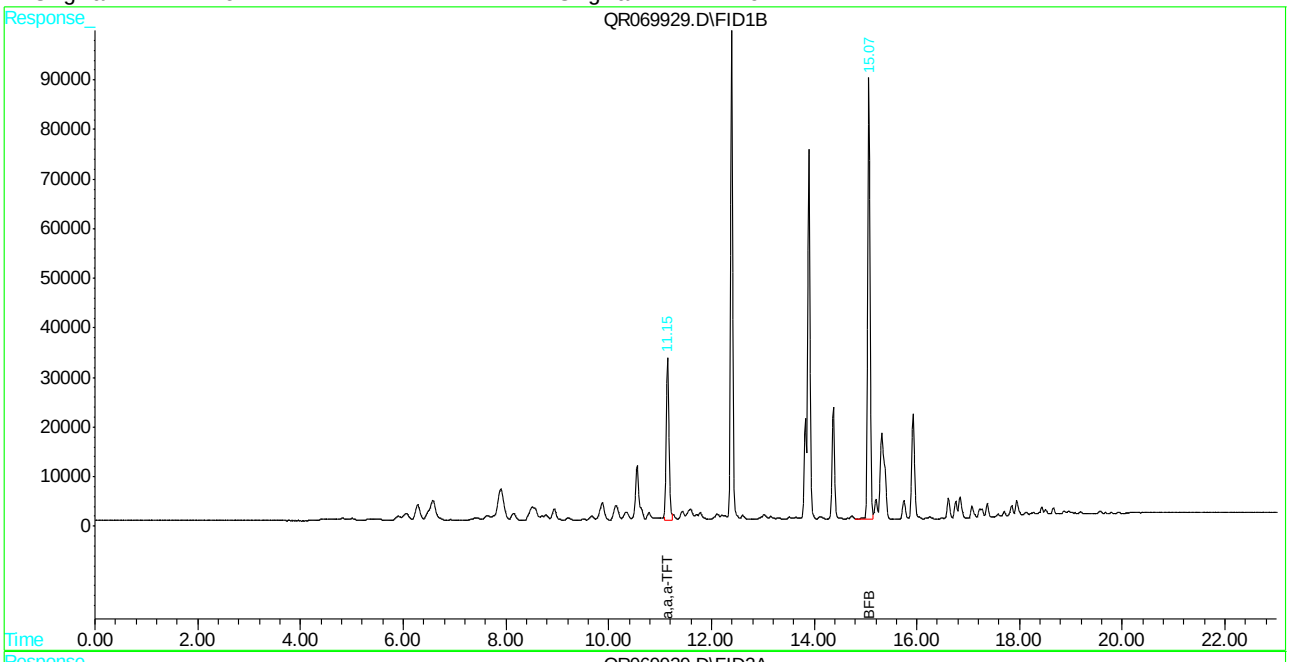
(f)=RT Delta > 1/2 Window (m)=manual int.

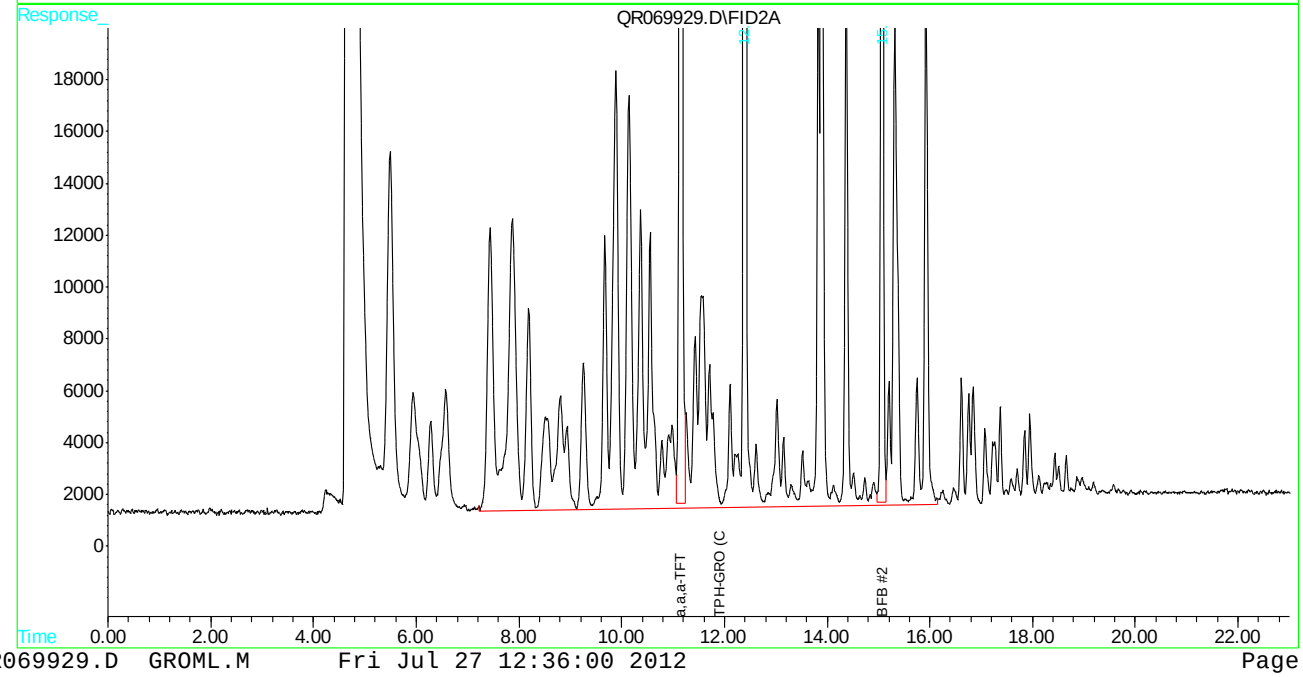
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069929.D\FID2A.CH
Acq On : 26 Jul 2012 9:07 am Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13940,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:28 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069929.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 09:07	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.15	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.15	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH  Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
Acq On    : 26 Jul 2012   2:29 pm                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:30 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.16	33077	49.765 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 99.53%	
2) S BFB	15.08	91434	49.926 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.85%	
4) S a,a,a-TFT #2	11.16	2086412	52.280 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 104.56%	
5) S BFB #2	15.08	1420910	52.977 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 105.95%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	21466461	429.084 ug/Kg

11.6.9

11

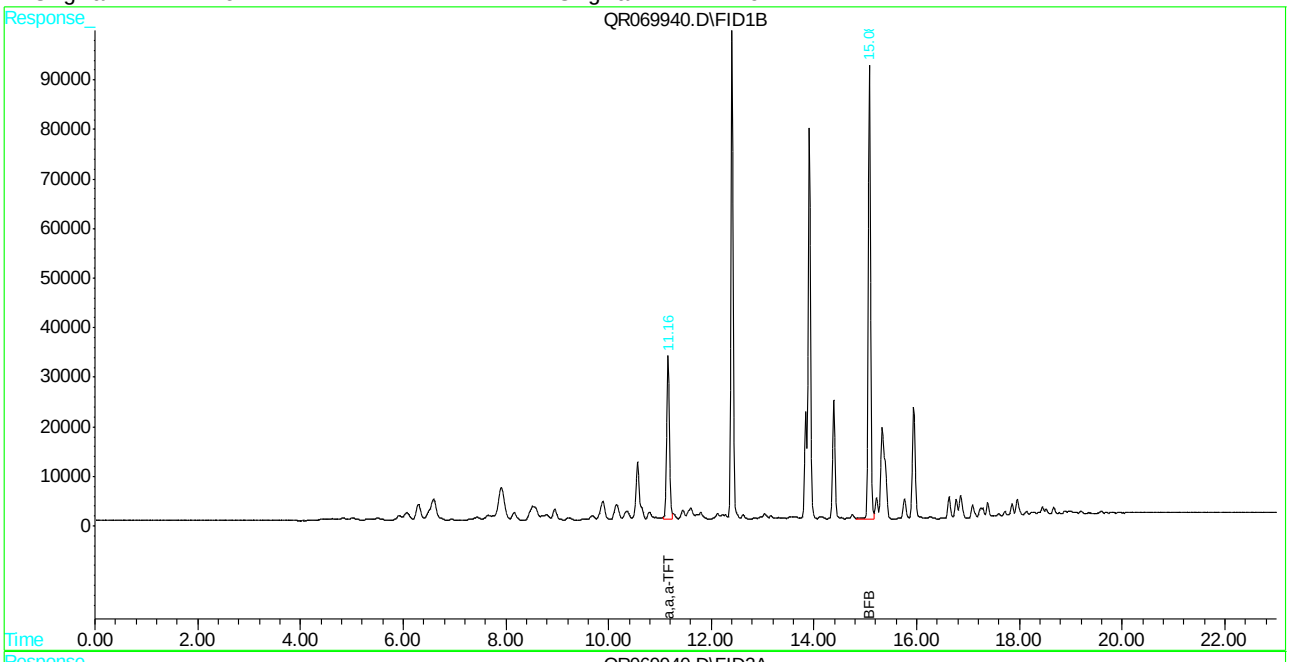
(f)=RT Delta > 1/2 Window (m)=manual int.

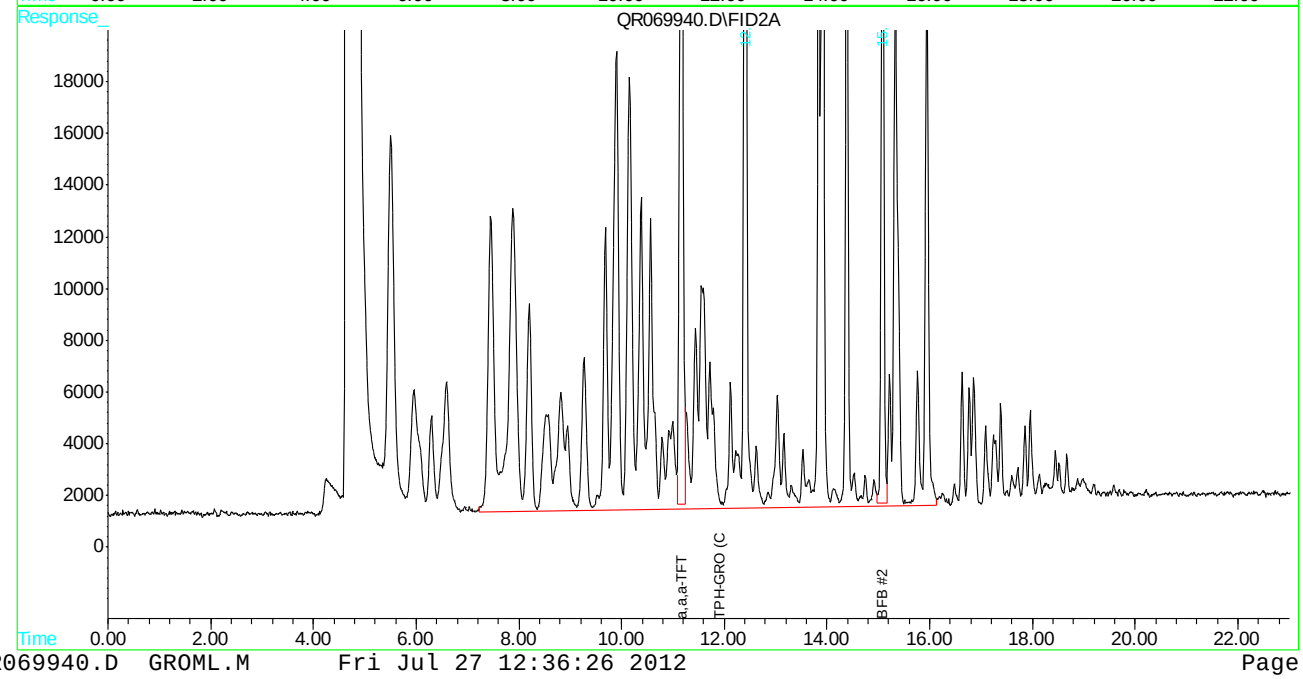
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID1B.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069940.D\FID2A.CH
Acq On : 26 Jul 2012 2:29 pm Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:30 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069940.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 14:29	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.16	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.16	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH  Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
Acq On    : 26 Jul 2012   7:41 pm                    Operator: CARLENEP
Sample    : CC3009-3                                 Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:32 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID

     Compound                    R.T.       Response    Conc Units
-----------------------------------------------------------------------

System Monitoring Compounds
 1) S   a,a,a-TFT                  11.16          32377   48.712 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =   97.42%
 2) S   BFB                        15.08          90891   49.629 ug/Kg
Spiked Amount     50.000   Range  56 - 136    Recovery   =   99.26%
 4) S   a,a,a-TFT #2               11.16        2073999   51.969 ug/Kgm
Spiked Amount     50.000   Range  61 - 121    Recovery   =  103.94%
 5)  S  BFB #2                     15.08        1421922   53.014 ug/Kg
Spiked Amount     50.000   Range  56 - 136    Recovery   =  106.03%

Target Compounds
 6) H   TPH-GRO (C6-C10)           11.92       20441761  408.602 ug/Kg
```

11.6.10

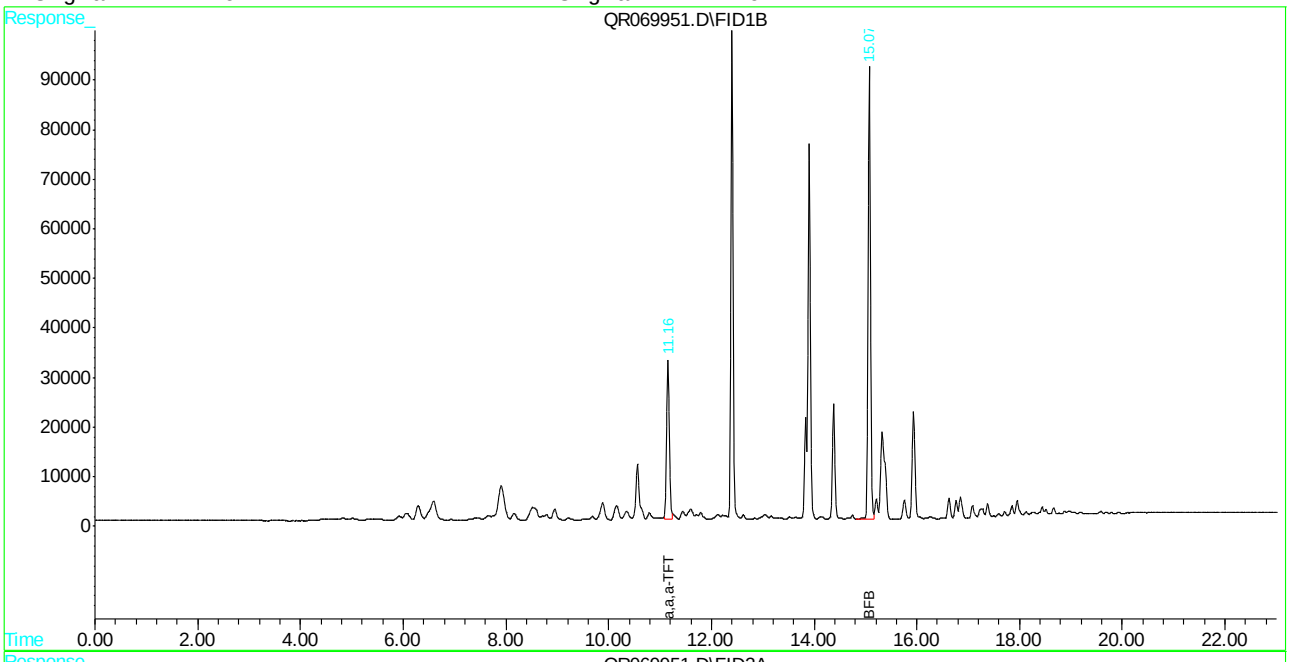
11

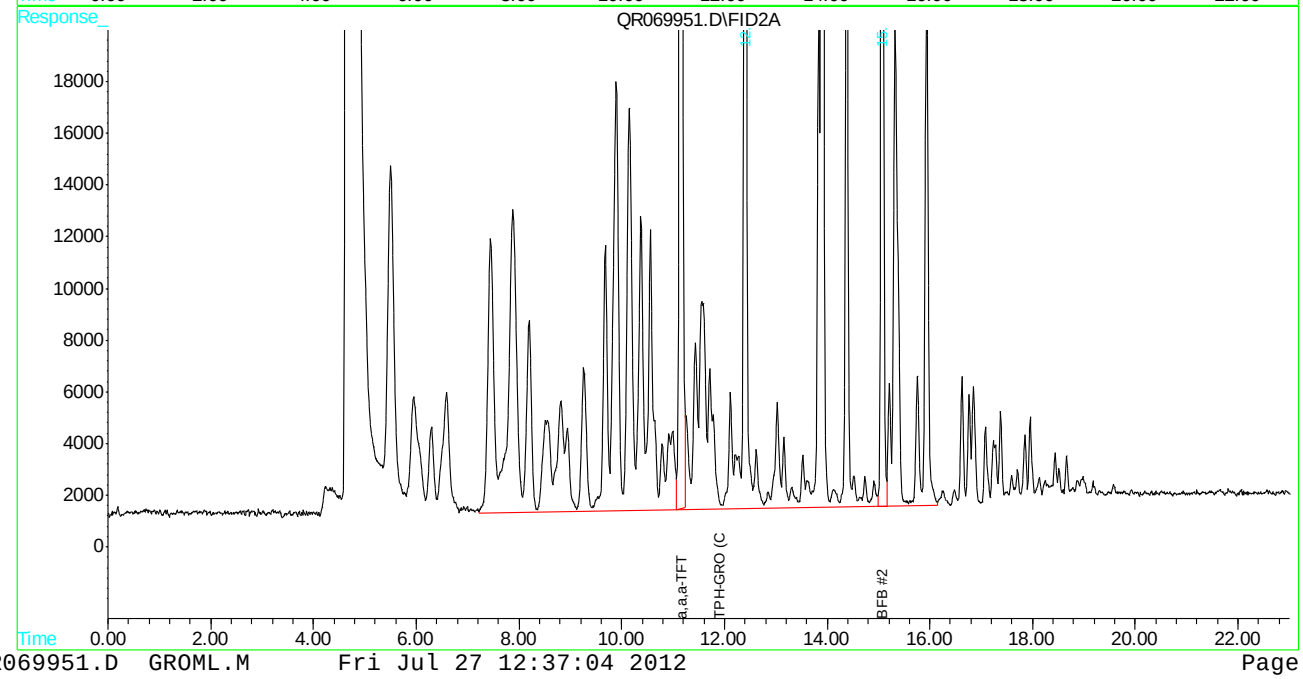
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID1B.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069951.D\FID2A.CH
Acq On : 26 Jul 2012 7:41 pm Operator: CARLENEP
Sample : CC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:32 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





ACCUTEST LABORATORIES F95274

Manual Integration Approval Summary

Sample Number:	GQR3028-CC3009	**Method:**	SW846 8015C
Lab FileID:	QR069951.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 19:41	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.16	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.16	Poor instrument integration

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
07/27/12 13:44

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH  Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
Acq On    : 26 Jul 2012  10:58 pm                    Operator: CARLENEP
Sample    : ECC3009-3                                Inst    : VOA3
Misc      : gc13944,gqr3028,5.00,,100,5.0,,soil      Multiplr: 1.00
IntFile Signal #1: PID.E        IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012  Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title        : SW846 8015 TPH by GC-FID
Last Update  : Fri Jul 06 08:27:06 2012
Response via : Initial Calibration
DataAcq Meth : GRO-QR.M

Volume Inj.     :
Signal #1 Phase : RTX-502.2         Signal #2 Phase: RTX-502.2
Signal #1 Info  : PID               Signal #2 Info : FID
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	11.15	32601	49.048 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 98.10%	
2) S BFB	15.07	91394	49.904 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 99.81%	
4) S a,a,a-TFT #2	11.15	2095231	52.501 ug/Kgm
Spiked Amount 50.000	Range 61 - 121	Recovery = 105.00%	
5) S BFB #2	15.07	1446815	53.942 ug/Kg
Spiked Amount 50.000	Range 56 - 136	Recovery = 107.88%	
Target Compounds			
6) H TPH-GRO (C6-C10)	11.92	20356800	406.903 ug/Kg

11.6.11

11

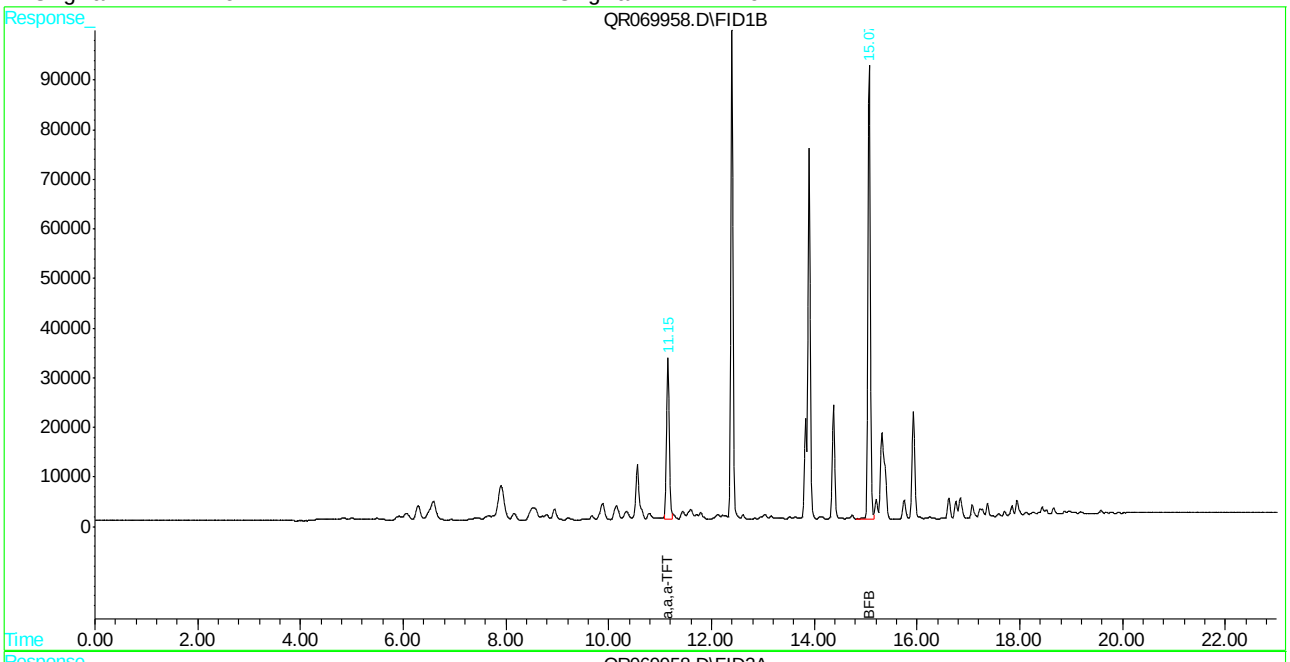
(f)=RT Delta > 1/2 Window (m)=manual int.

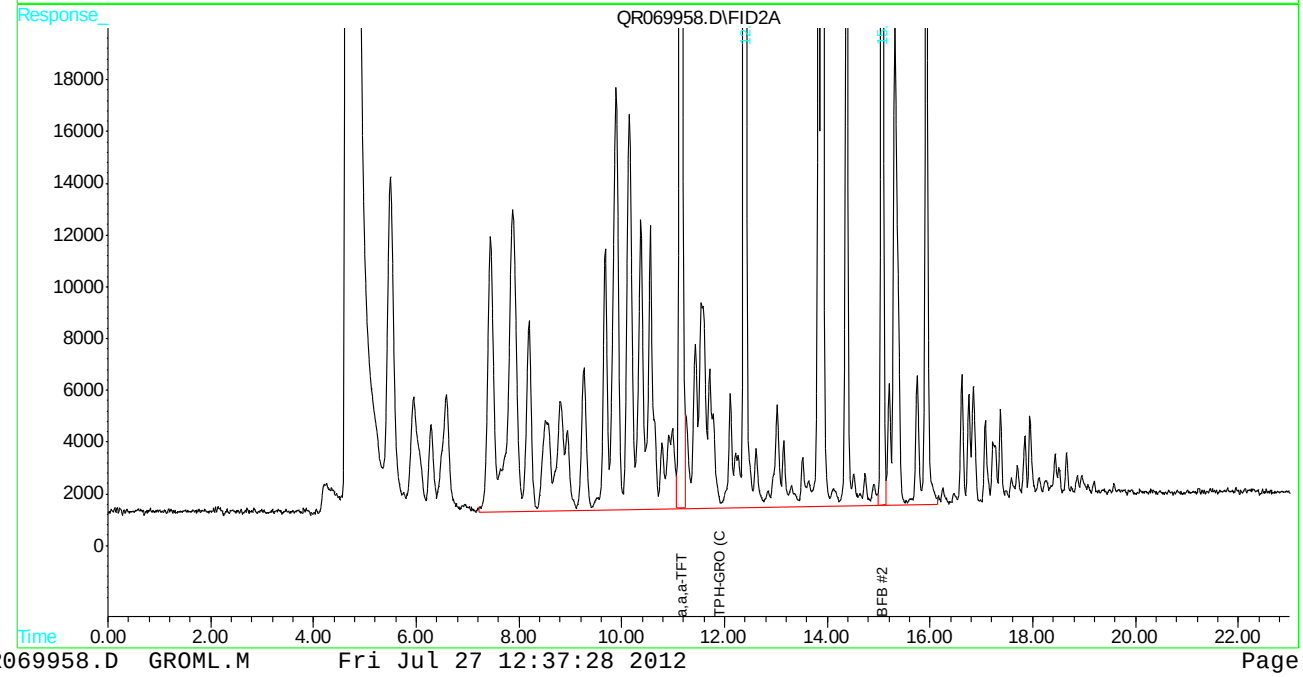
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID1B.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA\072612\QR069958.D\FID2A.CH
Acq On : 26 Jul 2012 10:58 pm Operator: CARLENEP
Sample : ECC3009-3 Inst : VOA3
Misc : gc13944,gqr3028,5.00,,100,5.0,,soil Multiplr: 1.00
IntFile Signal #1: PID.E IntFile Signal #2: events2.e
Quant Time: Jul 27 12:35 2012 Quant Results File: GROML.RES

Quant Method : C:\HPCHEM\1\METHODS\GROML.M (Chemstation Integrator)
Title : SW846 8015 TPH by GC-FID
Last Update : Fri Jul 06 08:27:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : GRO-QR.M

Volume Inj. :
Signal #1 Phase : RTX-502.2 Signal #2 Phase: RTX-502.2
Signal #1 Info : PID Signal #2 Info : FID





Manual Integration Approval Summary

Sample Number:	GQR3028-ECC3009	**Method:**	SW846 8015C
Lab FileID:	QR069958.D	**Analyst approved:**	07/27/12 13:05 Carlene Pasipanki
Injection Time:	07/26/12 22:58	**Supervisor approved:**	07/27/12 13:44 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
aaa-Trifluorotoluene	98-08-8	1	11.15	Poor instrument integration
aaa-Trifluorotoluene	98-08-8	2	11.15	Poor instrument integration

ACCUTEST LABORATORIES SE

DATE:	07/05/12
COLUMN TYPE:	RTX502-2
DETECTOR:	PID/FID
PURGE PRESSURE:	R08E0110 psi
METHANOL LOT #:	R08E01
ANALYST:	MM

GC VOA3-QR ANALYSIS LOG

METHODS:	V8015
METHOD FILE:	GROMLM.
CALIB. DATE:	05/30/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR 3009

STANDARDS

Window Defining	V14373
ICAL/CCV	V14391 A
ISTD/SURR	V14392
ICV/QC	V14297
SIGNAL 1 SURR. AREA:	34249/1999067
SIGNAL 2 SURR. AREA:	89890/1306219

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069318	rt	N	S	5.00	100	1	—	N	N	N	20uL 10mL
QR 19	ic3009-1					2	1,2,4,5-pii				5uL 5mL
QR 20	2					3					10uL 2uL/10x
QR 21	3					4					20uL
QR 22	ic3009-4					5					30uL 4uL/10x
QR 23	ic3009-5					6					40uL 6uL/10x
QR 24	6					7					50uL 10uL/10x
QR 25	icv3009-3					8					20uL 10mL
QR 26	rt					9					20uL 10mL
QR 27	cc3009-3					10					20uL 10mL
QR 28	BS					11					20uL 10mL
QR 29	MB MM 07/12					12	—				
QR 30	F994410-1	Q8853		4.60	100	13	—			50%	
QR 31	2	Q8854		5.74	100	14	—			50%	
QR 32	3	Q8856		4.73	100	15	—			50%	
QR 33	4	Q8857		7.64	100	16	—			50%	
QR 34	5	Q8860		6.13	100	17	—			50%	
QR 35	6	Q8862		4.62	100	18	1,2,4,5-pi			50%	
QR 36	7	Q8864		5.61	100	19	1,2,4,5-pii			50%	
QR 37	8	Q8866 MM 7/12		5.79	100	20	1,2,4,5-pii			50%	
QR 38	CC3009-3	—		5.09	100	21	1,2,4,5-pii			—	20uL 10mL
QR 39	CCb	—		5.01	100	22	—			—	
QR 40	rt	—		5.20	100	23	—			—	20uL 10mL
QR 41	F994410-9	Q8868		5.96	100	24	—			50%	
QR 42	10	Q8870		5.77	100	25	—			50%	MM 7/12
QR 43	F994430-7	Q9054		5.57	10	26	—			500%	
QR 44	F994429-7	Q9056		5.74	10/10x	27	1,2,4,5-pii			10,00%	

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: MM 7/12

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES SE

DATE:	07/05/12
COLUMN TYPE:	
DETECTOR:	PID/FID
PURGE PRESSURE:	
METHANOL LOT #:	
ANALYST:	WM

GC VOA3-QR ANALYSIS LOG

METHODS:	
METHOD FILE:	
CALIB. DATE:	
INSTRUMENT:	GC/VOA3-QR
RUN ID:	GQR 3009

cont. p.32

STANDARDS

Window Defining	
ICAL/CCV	
ISTD/SURR	
ICV/QC	
SIGNAL 1 SURR. AREA:	
SIGNAL 2 SURR. AREA:	

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
QR069345	F94429-8	Q8981	S	0.87	100	28	1,2,3,5-pi	N	N	80%	
QR 46	9	Q8983		0.05	100	29	–			80%	
QR 47	10	Q8985		0.91	100	30	1,2,4,5-pi			80%	
QR 48	11	Q9061		0.76	10	31	–			80%	
QR 49	12	68990		6.48	100	32	–			80%	
QR 50	CC3009-1	–		0.00	100	33	–			–	20uL 10mL Pand
QR 51	CCB	–		0.00	100	34	–			–	
QR 52	LT	–		0.00	100	35	–			–	20uL 10mL ✓
QR 53	F94427-1	Q9062		6.13	20/1x	36	1,2,4,5-pi			20/80%	
QR 54	F94374-DMF	Q8948		0.35	100	37	–			80%	
QR 55	5ml/	Q8948				38	–				
QR 56	5ml/	Q8948				39	–				
QR 57	10	Q8860		8.12	100	40	–			80%	
QR 58	ECC3009-1	–		0.00	100	41	–			–	20uL 10mL Pand
QR 59	ECB	–		0.00	100	42	–			–	
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											
QR											

WM 07/05/12

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

Analyst's Signature:_____

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8738	F94374-2	W	31.00	36.61	5.61	6-23-12	13:36	MJ	PT	IN
39	-2	M	29.25	35.13	5.88					
40	F94374-3	W	30.20	35.14	4.94					
41	-3	W	31.01	37.60	6.59					
42	-3	M	29.33	34.76	5.43					
43	F94374-4	W	30.84	36.66	5.82					
44	-4	W	30.95	36.42	5.47					
45	-4	M	29.29	35.08	5.79					
46	F94374-5	W	30.91	36.72	5.81					
47	-5	W	31.11	37.46	6.35					
48	-5	M	29.20	34.55	5.35					
49	F94374-6	W	30.59	36.12	5.53					
50	-6	W	30.70	35.10	4.40					
51	-6	M	29.59	33.79	4.20					
52	F94374-7	W	30.69	36.51	5.82					
53	-7	W	30.95	36.73	5.78					
54	-7	M	29.45	35.50	6.05					
55	F94374-8	W	30.81	36.48	5.67					
56	-8	W	30.80	36.61	5.81					
57	-8	M	29.40	34.96	5.56					
58	F94374-10	W	30.79	39.28	8.49					
59	-10	W	30.54	38.75	8.21					
Q8760	-10	M	29.60	37.72	8.12		13:52			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8853	F94410-1	M	29.34	33.94	4.60	6/26/12	9:06	MJ	PT	IN
54	F94410-2	M	29.60	35.34	5.74					
55	-2	M	29.39	35.31	5.92					
56	F94410-3	M	29.37	34.10	4.73					
57	-3	M	29.42	35.15	5.73					
58	F94410-4	M	29.40	37.04	7.64					
59	-4	M	29.25	33.08	3.83					
60	F94410-5	M	29.38	35.51	6.13					
61	-5	M	29.30	33.38	4.08					
62	F94410-6	M	29.37	33.99	4.62					
63	-6	M	29.49	35.24	5.75					
64	F94410-7	M	29.26	34.87	5.61					
65	-7	M	29.26	34.05	4.79		9:17			
66	F94410-8	M	29.38	35.17	5.79		9:35			
67	-8	M	29.40	35.91	6.51					
68	F94410-9	M	29.29	35.25	5.96					
69	-9	M	29.39	34.48	5.09					
70	F94410-10	M	29.38	35.15	5.77					
71	-10	M	29.52	36.26	6.74					
72	F94411-2	W	31.12	37.26	6.14					Presv. (NaHSO4)
73	-2	W	31.30	36.86	5.56					
74	-2	M	29.26	33.98	4.72					
Q8875	F94411-4	W	31.64	37.06	5.42		9:47			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8945	F94423-8	W	30.57	30.54	0.03	6-26-12	13:10	MJ	PT	TB
46	-8	M	29.46	29.41	0.05					
47	F94424-1	W AC 1922	—		5.10		13:15		5030A	IN, Bot 1
48	-1	W	—		5.00					
49	-1	M AC 1886	—		5.07					
50	F94424-2	W	—		5.02		13:20			
51	-2	W	—		5.11					
52	-2	M	—		5.32					
53	F94424-3	W	—		5.32		13:30			
54	-3	W	—		5.27					
55	-3	M	—		5.02					
56	F94425-1	W	—		5.03		13:35			OOH, 5 DAY RUS B O
57	-1	W	—		5.24					
58	-1	M AC 1913	—		5.22					
59	F94429-1	W	31.56	36.71	5.15		13:51		PT	Presv. (NaHSO4)
60	-1	W	31.64	36.96	5.32					
61	-1	M	29.40	35.53	6.13					
62	F94429-2	W	31.33	35.34	4.01					
63	-2	W	31.27	35.81	4.54					
64	-2	M	29.32	34.38	5.06					
65	F94429-3	M	29.36	35.26	5.90					
66	-3	M	29.46	35.83	6.37					
Q8967	F94429-4	W	31.41	36.56	5.15		14:00			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q8968	F94429-4	W	31.51	36.98	5.47	6-26-12	14:10	MJ	PT	Presv. (NaHSO4)
69	-4	M	29.44	35.52	6.08					
70	F94429-5	W		—	—		14:30			NO ~~Ale~~ H2O
71	-5	W		—	—					
72	-5	M	29.28	34.44	5.16					Presv. (NaHSO4)
73	-5	M	29.38	34.59	5.21		14:37			
74	F94429 -5	W AC MeOH		—	5.08				5030A	Re-prep But 6
75	-5	W		—	5.00					
76	F94429-6	M	29.34	34.98	5.64				PT	Presv. (NaHSO4)
77	-6	M	29.30	34.83	5.53					
78	F94429-7	W	31.33	36.16	4.83					
79	-7	W	31.46	36.67	5.21					
80	-7	M	29.47	35.03	5.56					
81	F94429-8	M	29.58	35.45	5.87					
82	-8	M	29.28	35.15	5.87					
83	F94429-9	M	29.30	34.35	5.05					
84	-9	M	29.44	35.01	5.57					
85	F94429-10	M	29.60	35.51	5.91					
86	-10	M	29.23	34.77	5.54					
87	F94429-11	W	31.36	35.86	4.50					
88	-11	W	31.03	35.98	4.95					
89	-11	M	29.21	34.60	5.39					
Q8990	F94429-12	M	29.39	35.87	6.48		15:10			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES F95274

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q9037	F94430-2	M	29.38	35.02	5.64	6-26-12	16:30	MJ	PT	Presv. (NaHSO4)
38	F94430-3	W	31.27	36.67	5.40					
39	-3	W	31.54	37.20	5.66					
40	-3	M	29.60	34.60	5.00					
41	-3	M	29.40	34.18	4.78					
42	F94430-4	W	31.48	37.26	5.78					
43	-4	W	31.31	37.14	5.83					
44	-4	M	29.40	34.46	5.06					
45	-4	M	29.11	34.55	5.44					
46	F94430-5	W	31.29	36.48	5.19					
47	-5	W	31.44	36.71	5.27					
48	-5	M	29.43	34.60	5.17					
49	-5	M	29.32	34.46	5.14					
50	F94430-6	W	31.26	36.43	5.17					
51	-6	W	31.03	35.66	4.63					
52	-6	M	29.56	34.18	4.62					
53	-6	M	29.44	35.46	6.02					
54	F94430-7	M	29.59	35.10	5.51					
55	-7	M	29.58	35.28	5.70					
56	F94430-8	W	31.40	31.36	0.04					TB
57	-8	W	31.45	31.41	0.04					
58	-8	M	29.27	29.06	0.21					
Q9059	F94438-1	~~30.85~~ W MS 6-26-12	30.85	32.88	2.03		16:52			IN

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

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ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q90060	F94438-1	W	30.92	32.82	1.90	6-26-12	16:55	MJ	PT	IN, Reprep, low wt
61	-1	M	29.44	—	—	↓	↓	↓	↓	Reprep, NO Meth.
62	F94429-1	M	29.38	35.69	6.31	6/27/12	10:00	AD	PT	OOH Prep (but Preserved in MeOH)
63	-2	M	29.46	34.55	5.09	↓	↓	↓	↓	↓
64	-4	M	29.32	34.83	5.51					
65	-7	M	29.43	35.22	5.79					
66	-11	M	29.46	35.22	5.76					
67	-14	M	29.45	34.92	5.47					
68	-18	M	29.26	35.60	6.34					
69	-26	M	29.37	35.40	6.03					
70	F94436-1	W	31.30	35.84	4.54					Preserved (NaHSO4)
71	-1	W	31.27	32.84	1.57					leaked ↓
72	-1	M	29.51	34.12	4.61					(MeOH)
73	F94436-2	W	31.16	35.38	4.22					(NaHSO4)
74	-2	W	31.01	35.19	4.18					↓
75	-2	M	29.49	34.97	5.48					(MeOH)
76	F94436-3	W	31.28	36.14	4.86					(NaHSO4)
77	-3	W	30.98	36.14	5.16					↓
78	-3	M	29.31	32.37	3.06					(MeOH)
79	-3	M	29.37	33.48	4.11					↓
80	F94436-4	W	31.25	37.08	5.83					(NaHSO4)
81	-4	W	31.01	36.78	5.77					↓
Q9082	-4	M	29.50	34.62	5.12	↓	10:43	↓	↓	(MeOH)

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev.08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
Q9220	F94465-3	M	29.32	34.41	5.09	6/27/12	15:13	AD	PT	Preserved (MeOH)
21	F94465-4	W	31.43	36.31	4.88					(NaHSO4)
22	-4	W	31.34	36.18	4.84					
23	-4	M	29.33	34.58	5.25					(MeOH)
24	-4	M	29.52	34.13	4.61					
25	F94465-5	W	31.52	36.47	4.95					(NaHSO4)
26	-5	W	31.29	36.29	5.00					
27	-5	M	29.37	34.46	5.09					(MeOH)
28	-5	M	29.42	34.27	4.85					
29	F94465-6	M	29.31	34.20	4.89					
30	-6	M	29.31	34.70	5.39					
31	F94471-1	W	31.16	37.33	6.17					(NaHSO4)
32	-1	W	30.90	37.14	6.24					
33	-1	M	29.26	35.46	6.20		15:34			(MeOH)
34	F94316-6	W AC 1922	—		5.09		15:45		5030A	Bot 5 Reprep OOH
35	F94429-5	M AC 1913	—		5.16					Bot 6 OOH Reprep AD 6/27/11
36	F94490-5	W	30.66	37.45	6.79	6/28/12	9:50	MJ	PT	IN
37	-5	W	30.89	37.47	6.58					
38	-5	M	29.45	35.34	5.89					
39	F94490-8	W	30.74	36.63	5.89					
40	-8	W	31.04	36.63	5.59					
41	-8	M	29.41	34.76	5.35					
Q9242	F94490-11	W	30.60	36.49	5.89		9:56			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

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ACCUTEST LABORATORIES F95274

11.7.1 11

ACCUTEST LABORATORIES SE

DATE:	07/26/12
COLUMN TYPE:	RTX 502.2
DETECTOR:	PID/FID
PURGE PRESSURE:	20PSI
METHANOL LOT #:	K08E01
ANALYST:	CP

GC VOA3-QR ANALYSIS LOG

METHODS:	8015/ TVGRO
METHOD FILE:	6ROML.M/TVGRO.5.QR.M
CALIB. DATE:	07/05/12/ 07/26/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR 3028/29

STANDARDS

Window Defining	V14477	—
ICAL/CCV	V14391B	V14477
ISTD/SURR	V14463	V14410
ICV/QC	V14411	V14483/V14482
SIGNAL 1 SURR. AREA:	32811/88996	
SIGNAL 2 SURR. AREA:	2084511/1388655	

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069927	BLK	—	S	5.00	100	1	n/a	n/a	n/a	n/a	ND
QR 28	RT	—				2					✓ 20µl → 5mL
QR 29	CC3009-3	—				3	1,4PII				PASSED 20µl → 5mL
QR 30	BS	—				4	n/a				✓ 20µl → 5mL
QR 31	MB	—				5					ND
QR 32	F95178-2, 200x	R1688		6.07	25	6	2PII				✓
QR 33	-6, 200x	R1700		5.65	25	7	n/a				✓
QR 34	F95220-1	R1760		7.65	100	8					ND
QR 35	-2	R1763		7.68		9					ND
QR 36	-3	R1766		7.62		10					ND
QR 37	-4	R1769		5.69		11					ND
QR 38	-5	R1772		6.66		12					ND
QR 39	-6	R1775		7.99		13					ND
QR 40	CC3009-3	—		5.00		14	1,4PII				PASSED 20µl → 5mL
QR 41	RT	—				15	n/a				✓ 20µl → 5mL
QR 42	F95274-1	R1901		6.71		16					ND
QR 43	-2	R1904		4.60		17					ND
QR 44	-3	R1907		5.54		18					ND
QR 45	-4	R1910		4.58		19					ND
QR 46	-5	R1913		6.62		20					ND
QR 47	-6	R1916		6.41		21					ND
QR 48	F95217-1	R1736		8.22		22					ND
QR 49	-2	R1740		6.66		23					ND
QR 50	-3	R1744		5.06		24					ND
QR 51	CC3009-3	—		5.00		25	1,4PII				PASSED 20µl → 5mL
QR 52	CCB	—				26	n/a				ND
QR CP 07/26/12 53	F95217-~~2~~4	R1748		6.11		27					ND

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: CPasipanki

gcvoa3_qr_log.xls NF 08/10

ACCUTEST LABORATORIES SE

DATE:	07/26/12
COLUMN TYPE:	RTX502.2
DETECTOR:	PID/FID
PURGE PRESSURE:	20PSI
METHANOL LOT #:	K08E01
ANALYST:	CP

GC VOA3-QR ANALYSIS LOG

METHODS:	8015/TN6RO
METHOD FILE:	6ROML.M/TN6RO.5.QR.M
CALIB. DATE:	07/05/12
INSTRUMENT:	GCVOA3-QR
RUN ID:	GQR3028/29

STANDARDS

Window Defining	✓ 14477 —
ICAL/CCV	✓ 14391B ✓
ISTD/SURR	✓ 14463 ✓
ICV/QC	✓ 14411 ✓
SIGNAL 1 SURR. AREA:	43581/127436
SIGNAL 2 SURR. AREA:	71538/61693

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	MeOH Aliq.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
QR 069954	F95217-5	R1752	S	4.79	100	28	n/a	n/a	n/a	N	ND
QR 55	-6	R1756		6.43	↓	29	↓				
QR 56	F95178-2MS	200x R1688		6.07	25	30	2PII				✓
QR 57	-2MSD	200x ↓		↓	25	31	2.5PII				✓
QR 59 58	ECC3009-3/ECB	—/—		5.00/5.00	100/100	32/33	1.4PII				PASSED 20µl→5mL/ND
QR 60 59	IC3029-1	—		5.00	100	34	n/a				✓5 µl STD + — Surr →5mL
QR 61 60	-2	—				35					✓10 +2µl
QR 62 61	-3	—				36					✓20 + —
QR 63 62	ICC -4	—				37					✓30 +4µl
QR 64 63	IC 5	—				38					✓40 +6µl
QR 65 64	-6	—				39					✓50 +10µl
QR 66 65	~~ICV3029-3~~ BLK	—				40					ND
QR CP 67 66	BS ICV3029-3	—				41	↓				PASSED 20µl→5mL
QR 07/26/12 68 67	~~BSD~~ BS	—				42	1.4PII				✓
QR 69 68	~~MB~~ BSD	—				43	1.4PII				✓
QR 70 69	MB	—				44	n/a			✓	ND
QR 71 70	F89616-10A	—				45				RD ↑	2.5µl →5mL
QR 72 71	-11A	—				46				N ✓	10µl ↓
QR 73 72	ECC3029-3	—				47					PASSED 20µl→5mL
QR 74	ECB	—	↓	↓	↓	48	↓	↓	↓	↓	ND
QR											
QR											
QR											
QR											
QR											CP 07/27/12
QR											
QR											

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "_iq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

Analyst's Signature: C Pasipanki

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

gcvoa3_qr_log.xls NF 08/10

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1677	F95177-1	W	30.90	36.37	5.47	7/24/12	10:39	AD	PT	In
78	-1	W	30.37	36.15	5.78					
79	-1	M	29.20	—	—					leaked
80	F95177-2	W	31.08	31.03	-0.05					TB
81	AD 7/24/12 -2	W	30.83	30.78	-0.05					
82	-2	M	29.43	29.35	-0.08					
83	F95178-1	W	30.83	36.95	6.12					OOH
84	-1	W	30.88	36.80	5.92					
85	-1	M	29.37	35.36	5.99					
86	F95178-2	W	30.97	37.84	6.87					
87	-2	W	30.87	37.16	6.29					
88	-2	M	29.27	35.34	6.07					
89	F95178-3	W	30.76	36.88	6.12					
90	-3	W	30.96	37.67	6.71					
91	-3	M	29.11	34.89	5.78					
92	F95178-4	W	30.91	37.65	6.74					
93	-4	W	31.00	36.22	5.22					
94	-4	M	29.49	35.82	6.33					
95	F95178-5	W	30.81	38.08	7.27					
96	-5	W	30.94	36.97	6.03					
97	-5	M	29.26	35.03	5.77					
98	F95178-6	W	31.11	38.09	6.98					
R1699	-6	W	30.69	37.28	6.59		11:04			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1700	F95178-6	M	29.34	34.99	5.65	7/24/12	11:04	AD	PT	OOH
01	F95178-7	W	30.12	31.12	1.00					TB
02	-7	W	30.85	30.85	0.00					
03	-7	M	29.14	28.93	-0.21					
04	F95179-1	W	31.10	37.76	6.66					
05	-1	W	30.92	37.74	6.82					
06	-1	M	29.49	35.83	6.34		11:15			
07	F95177-1	M AC 1913			5.12		13:18		5030A	In Reprep Bot 5
08	F95192-1	W	30.65	36.84	6.19		13:30		PT	In
09	-1	W	30.84	36.26	5.42					
10	-1	M	29.46	35.24	5.78					
11	F95192-2	W	30.77	36.93	6.16					
12	-2	W	30.90	37.23	6.33					
13	-2	M	29.38	35.28	5.90		13:38			
14	F95194-1	W AC 1922			5.04	7/24/12	15:15	AD	5030A	In Bot 4
15	-1	W			5.20					
16	-1	M AC 1913			5.04		15:19			
17	F95196-1	W	30.92	37.65	6.73	7/25/12	10:11		PT	In
18	-1	W	30.84	38.43	7.59					
19	-1	M	29.46	35.63	6.17					
20	F95197-1	M	29.17	34.29	5.12					Preserved (MeOH)
21	-1	M	29.20	33.80	4.60					
R1722	F95~~14~~208-1 AD 7/25/12	W	35.53	40.37	4.84		10:22			Preserved ($NaHSO_4$) [low soil amount; not accutest vials]

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments (low soil amount; not accutest vials)
R1723	F95208-1	W	35.25	40.14	4.89	7/25/12	10:22	AD	PT	Preserved (NaHSO4)
24	-1	M	36.94	38.34	1.40					(MeOH)
25	F95208-3	W	35.84	40.31	4.47					(NaHSO4)
26	-3	W	35.50	40.25	4.75					
27	-3	M	32.43	37.12	4.69					(MeOH)
28	F95208-4	W	34.99	39.80	4.81					(NaHSO4)
29	-4	W	36.22	40.86	4.64					
30	-4	M	32.50	36.89	4.39		10:38			(MeOH)
31	F95212-3	W	30.78	39.71	8.93		11:25			In
32	-3	W	30.55	39.35	8.80					
33	-3	M	29.52	39.55	10.03					
34	F95217-1	W	30.53	39.40	8.87					
35	-1	W	30.42	38.56	8.14					
36	-1	M	28.87	37.09	8.22					
37	-1	M	29.64	36.62	6.98					
38	F95217-2	W	30.40	38.46	8.06					
39	-2	W	30.04	36.95	6.91					
40	-2	M	29.12	35.78	6.66					
41	-2	M	29.33	35.86	6.53					
42	F95217-3	W	30.47	37.34	6.87					
43	-3	W	30.04	38.71	8.67					
44	-3	M	28.93	33.99	5.06					
R1745	-3	M	29.55	36.80	7.25		11:42			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

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F95274
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ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial # 4 AD 7/25/12	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R17826	F95217-4	W	30.42	35.98	5.56	7/25/12	11:42	AD	PT	In
47	-4	W	30.41	36.25	5.84					
48	-4	M	29.02	35.13	6.11					
49	-4	M	29.35	34.31	4.96					
50	F95217-5	W	30.06	35.91	5.85					
51	-5	W	30.06	35.85	5.79					
52	-5	M	28.97	33.76	4.79					
53	-5	M	29.35	34.50	5.15					
54	F95217-6	W	30.61	38.04	7.43					
55	-6	W	30.29	37.34	7.05					
56	-6	M	28.94	35.37	6.43					
57	-6	M	29.39	36.41	7.02		11:55			
58	F95220-1	W	30.30	38.75	8.45		13:25			
59	-1	W	30.27	38.55	8.28					
60	-1	M	29.35	37.00	7.65					
61	F95220-2	W	30.53	36.89	6.36					
62	-2	W	30.37	39.00	8.63					
63	-2	M	29.60	37.28	7.68					
64	F95220-3	W	30.43	38.34	7.91					
65	-3	W	30.41	37.67	7.26					
66	-3	M	29.66	37.28	7.62					
67	F95220-4	W	30.53	38.77	8.24					
R17868	-4	W	30.80	38.29	7.49		13:40			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

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ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1769	F95220-4	M	29.32	35.01	5.69	7/25/12	13:40	AD	PT	In
70	F95220-5	W	30.33	38.06	7.73					
71	-5	W	30.41	38.95	8.54					
72	-5	M	29.09	35.75	6.66					
73	F95220-6	W	30.36	37.48	7.12					
74	-6	W	30.34	38.19	7.85					
75	-6	M	29.41	37.40	7.99					
76	F95220-7	W	30.36	31.03	0.67					
77	-7	W	30.30	30.98	0.68					
78	-7	M	29.40	29.65	0.25					
79	F95225-1	W	35.27	39.97	4.70					Frozen @ 7/25/12 11:00
80	-1	W	35.60	40.87	5.27					
81	-1	M	32.84	35.59	2.75					AD 7/25/12 ~~low methanol~~
82	F95225-2	W	35.11	39.80	4.69					~~(Frozen @ 11:00)~~ 7/25/12 AD 7/25/12
83	-2	W	35.09	39.70	4.61					
84	-2	M	33.21	36.94	3.73					
85	F95225-3	W	34.91	38.73	3.82					
86	-3	W	35.10	39.40	4.30					
87	-3	M	33.18	37.02	3.84					
88	F95225-4	W	34.97	38.75	3.78					
89	-4	W	35.38	39.16	3.78					
90	-4	M	33.00	35.55	2.55					
R1791	F95227-1	W	30.73	34.21	3.48		14:28			Frozen in @ 11:00 7/25/12

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1884	F95273-11	W	30.109	38.92	8.23	7-26-12	11:37	MJ	PT	IN
85	-11	W	30.58	40.37	9.79					
86	-11	M	29.50	37.83	8.33					
87	F95273-12	W	30.62	38.95	8.33					
88	-12	W	30.65	38.46	7.81					
89	-12	M	29.66	37.40	7.74					
90	F95273-13	W	30.80	42.16	11.36					
91	-13	W	30.53	42.44	11.91					
92	-13	M	29.45	39.94	10.49					
93	F95273-14	W	30.85	39.09	8.24					
94	-14	W	30.65	40.45	9.80					
95	-14	M	29.38	37.32	7.94					
96	F95273-16	W	30.89	30.92	0.03					TB
97	-16	W	30.67	30.55	0.12					
98	-16	M	29.62	29.53	0.09					
99	F95274-1	W	30.20	36.59	6.39					
R1900	-1	W	30.36	37.54	7.18					
01	-1	M	29.00	35.71	6.71					
02	F95274-2	W	30.39	35.68	5.29					
03	-2	W	30.40	35.28	4.88					
04	-2	M	29.20	33.80	4.60					
05	F95274-3	W	30.25	36.79	6.54					
R1906	-3	W	30.50	36.84	6.34		12:00			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
R1907	F95274-3	M	29.17	34.71	5.54	7-26-12	12:00	MJ	PT	IN
08	F95274-4	W	30.38	36.59	6.21					
09	-4	W	30.20	37.51	7.31					
10	-4	M	29.00	33.58	4.58					
11	F95274-5	W	30.39	36.26	5.87					
12	-5	W	30.26	35.44	5.18					
13	-5	M	29.36	35.98	6.62					
14	F95274-6	W	30.35	35.48	5.13					
15	-6	W	30.32	36.62	6.30					
16	-6	M	29.10	35.51	6.41		12:07			
17	F95275-1	W	31.36	36.64	5.28		12:17			Presv. (NaHSO4)
18	-1	W	31.35	36.46	5.11					
19	-1	M	29.28	33.83	4.55					
20	F95275-2	W	31.75	36.85	5.10					
21	-2	W	31.50	36.90	5.40					
22	-2	M	29.44	34.48	5.04					
23	F95275-3	W	31.52	35.40	3.88					
24	-3	W	31.36	36.93	5.57					
25	-3	M	29.45	34.34	4.89					
26	F95275-4	W	31.38	36.84	5.46					
27	-4	W	31.53	36.08	4.55					
28	-4	M	29.31	34.00	4.69					
R1929	F95275-5	W	31.54	36.76	5.22		12:26			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42889-MB	YY31035.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	
	TPH (> C28-C40)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	104%	49-108%

Method Blank Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42889-MB	YY31076.D	1	08/09/12	SJL	07/31/12	OP42889	GYY1149

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	3.3	mg/kg	
	TPH (> C28-C40)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	107%	49-108%

12.1.2

12

Blank Spike Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42889-BS	YY31034.D	1	08/08/12	SJL	07/31/12	OP42889	GYY1148

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	35.6	107	60-107
	TPH (> C28-C40)	33.3	36.0	108	47-124

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	107%	49-108%

12.2.1

12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42889-MS	YY31058.D	1	08/09/12	SJL	07/31/12	OP42889	GYY1148
OP42889-MSD	YY31059.D	1	08/09/12	SJL	07/31/12	OP42889	GYY1148
F95360-1	YY31057.D	1	08/09/12	SJL	07/31/12	OP42889	GYY1148

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

CAS No.	Compound	F95360-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	11.7		40.9	50.5	95	47.1	87	7	60-107/36
	TPH (> C28-C40)	10 U		40.9	41.4	101	39.2	97	5	47-124/33

CAS No.	Surrogate Recoveries	MS	MSD	F95360-1	Limits
84-15-1	o-Terphenyl	108%	106%	104%	49-108%

12.3.1

12

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Method: SW846 8015C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F95274-1	YY31036.D	101.0
F95274-2	YY31037.D	103.0
F95274-3	YY31038.D	85.0
F95274-4	YY31039.D	73.0
F95274-5	YY31040.D	90.0
F95274-6	YY31041.D	105.0
OP42889-BS	YY31034.D	107.0
OP42889-MB	YY31035.D	104.0
OP42889-MB	YY31076.D	107.0
OP42889-MS	YY31058.D	108.0
OP42889-MSD	YY31059.D	106.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	49-108%

(a) Recovery from GC signal #1

12.4.1

12

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1148-CC1143	**Injection Date:**	08/08/12
Lab File ID:	YY31032.D	**Injection Time:**	14:39
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
OP42889-BS	YY31034.D	08/08/12	16:12	6.84
OP42889-MB	YY31035.D	08/08/12	16:40	6.84
F95274-1	YY31036.D	08/08/12	17:08	6.84
F95274-2	YY31037.D	08/08/12	17:37	6.84
F95274-3	YY31038.D	08/08/12	18:05	6.84
F95274-4	YY31039.D	08/08/12	18:34	6.84
F95274-5	YY31040.D	08/08/12	19:02	6.84
F95274-6	YY31041.D	08/08/12	19:30	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1148-CC1143	**Injection Date:**	08/09/12
Lab File ID:	YY31054.D	**Injection Time:**	01:33
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
ZZZZZZ	YY31056.D	08/09/12	02:29	6.84
F95360-1	YY31057.D	08/09/12	02:57	6.84
OP42889-MS	YY31058.D	08/09/12	03:25	6.84
OP42889-MSD	YY31059.D	08/09/12	03:53	6.84
ZZZZZZ	YY31060.D	08/09/12	04:21	6.84
ZZZZZZ	YY31061.D	08/09/12	04:48	6.84
ZZZZZZ	YY31062.D	08/09/12	05:16	6.84
GYY1148-ECC1143	YY31063.D	08/09/12	05:44	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

12.5.2

12

GC Surrogate Retention Time Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Check Std:	GYY1149-CC1143	**Injection Date:**	08/09/12
Lab File ID:	YY31074.D	**Injection Time:**	11:41
Instrument ID:	GCYY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	6.84

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
OP42889-MB	YY31076.D	08/09/12	12:38	6.84
ZZZZZZ	YY31077.D	08/09/12	13:06	0.00
ZZZZZZ	YY31078.D	08/09/12	13:34	0.00
ZZZZZZ	YY31079.D	08/09/12	14:02	0.00
ZZZZZZ	YY31080.D	08/09/12	14:31	0.00
ZZZZZZ	YY31081.D	08/09/12	15:00	0.00
ZZZZZZ	YY31082.D	08/09/12	15:28	6.84
ZZZZZZ	YY31083.D	08/09/12	15:57	6.84
ZZZZZZ	YY31084.D	08/09/12	16:25	6.84
GYY1149-ECC1143	YY31085.D	08/09/12	16:54	6.84

Surrogate Compounds

S1 = o-Terphenyl

(a) Retention time from GC signal #1

12.5.3

12

Initial Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1143-ICC1143
Lab FileID: YY30923.D

Response Factor Report FID 5

Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration

Calibration Files
100 =YY30920.D 250 =YY30921.D 500 =YY30922.D 1000=YY30923.D
1500 =YY30924.D 2000 =YY30925.D

	Compound	100	250	500	1000	1500	2000	Avg	%RSD
1) S	O-TERPHENYL	1.121	1.152	1.174	1.214	1.200	1.256	1.186 E5	4.03
2) H	TPH (C10-C28)	1.403	1.372	1.383	1.410	1.395	1.462	1.404 E5	2.23
3) H	TPH (C10-C22)	1.139	1.107	1.109	1.133	1.119	1.179	1.131 E5	2.37
4) H	TPH (>C28-C40)	6.083	6.546	7.285	7.815	7.809	8.206	7.291 E4	11.30
5) H	TPH (>C22-C36)	7.771	8.195	8.542	9.018	9.122	9.624	8.712 E4	7.74
6) H	TPH (C8-C36)	0.994	0.991	1.011	1.043	1.039	1.090	1.028 E5	3.64
7) H	TPH (C10-C40)	1.013	1.034	1.073	1.116	1.117	1.167	1.087 E5	5.30

(#) = Out of Range

FDRO_OIL.M Mon Aug 06 15:59:42 2012

12.6.1

12

Initial Calibration Verification

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: GYY1143-ICV1143
Lab FileID: YY30926.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D       Vial: 9
Acq On    : 8-3-12 03:05:00 PM                        Operator: STEVE
Sample    : ICV1143-1000                              Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL		----------NA----------				
2 H	TPH (C10-C28)	1000.000	1058.068	-5.8	105	0.00	3.63- 9.37
3 H	TPH (C10-C22)	1000.000	1036.706	-3.7	103	0.00	3.71- 7.83
4 H	TPH (>C28-C40)	1000.000	1038.271	-3.8	97	0.00	9.47-16.64
5 H	TPH (>C22-C36)	1000.000	1063.187	-6.3	103	0.00	7.92-12.87
6 H	TPH (C8-C36)	2000.000	2132.281	-6.6	105	0.00	2.43-12.94
7 H	TPH (C10-C40)	2000.000	2103.876	-5.2	102	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Mon Aug 06 15:57:23 2012

12.6.2

12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1148-CC1143
Lab FileID: YY31032.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31032.D       Vial: 3
Acq On    : 8-8-12 02:39:28 PM                        Operator: STEVE
Sample    : cc1143-1000                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	50.000	55.136	-10.3	108	0.00	6.82- 6.90
2	H	TPH (C10-C28)	1000.000	1045.250	-4.5	104	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	1053.149	-5.3	105	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1035.270	-3.5	97	0.00	9.47-16.64
5	H	TPH (>C22-C36)	1000.000	1053.468	-5.3	102	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2094.094	-4.7	103	0.00	2.37-12.61
7	H	TPH (C10-C40)	2000.000	2096.414	-4.8	102	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Fri Aug 10 15:55:47 2012

12.6.3
12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1148-CC1143
Lab FileID: YY31043.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31043.D       Vial: 3
Acq On    : 8-8-12 08:27:09 PM                        Operator: STEVE
Sample    : cc1143-1000                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	50.000	54.734	-9.5	107	0.00	6.82- 6.90
2	H	TPH (C10-C28)	1000.000	1038.328	-3.8	103	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	1059.439	-5.9	106	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1071.409	-7.1	100	0.00	9.47-16.64
5	H	TPH (>C22-C36)	1000.000	1070.958	-7.1	103	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2117.387	-5.9	104	0.00	2.37-12.61
7	H	TPH (C10-C40)	2000.000	2118.101	-5.9	103	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Fri Aug 10 15:55:48 2012

12.6.4
12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1148-CC1143
Lab FileID: YY31054.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31054.D       Vial: 3
Acq On    : 8-9-12 01:33:57 AM                       Operator: STEVE
Sample    : cc1143-1000                              Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1 S	O-TERPHENYL	50.000	58.236	-16.5	114	0.00	6.82- 6.90
2 H	TPH (C10-C28)	1000.000	1159.920	-16.0	116	0.00	3.63- 9.37
3 H	TPH (C10-C22)	1000.000	1164.116	-16.4	116	0.00	3.71- 7.83
4 H	TPH (>C28-C40)	1000.000	1147.516	-14.8	107	0.00	9.47-16.64
5 H	TPH (>C22-C36)	1000.000	1178.473	-17.8	114	0.00	7.92-12.87
6 H	TPH (C8-C36)	2000.000	2303.678	-15.2	114	0.00	2.37-12.61
7 H	TPH (C10-C40)	2000.000	2330.343	-16.5	113	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Fri Aug 10 15:55:49 2012

12.6.5
12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1148-ECC1143
Lab FileID: YY31063.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31063.D       Vial: 34
Acq On    : 8-9-12 05:44:17 AM                        Operator: STEVE
Sample    : ecc1143-500                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	25.000	27.864	-11.5	113	0.00	6.82- 6.90
2	H	TPH (C10-C28)	500.000	547.968	-9.6	111	0.00	3.63- 9.37
3	H	TPH (C10-C22)	500.000	554.202	-10.8	113	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	500.000	528.620	-5.7	106	0.00	9.47-16.64
5	H	TPH (>C22-C36)	500.000	539.876	-8.0	110	0.00	7.92-12.87
6	H	TPH (C8-C36)	1000.000	1081.464	-8.1	110	0.00	2.37-12.61
7	H	TPH (C10-C40)	1000.000	1086.691	-8.7	110	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30922.D FDRO_OIL.M Fri Aug 10 15:56:23 2012

12.6.6

12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1149-CC1143
Lab FileID: YY31074.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31074.D       Vial: 3
Acq On    : 09 Aug 2012  11:41 am                    Operator: STEVE
Sample    : cc1143-1000                              Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	50.000	59.030	-18.1	115	0.00	6.82- 6.90
2	H	TPH (C10-C28)	1000.000	1194.589	-19.5	119	0.00	3.63- 9.37
3	H	TPH (C10-C22)	1000.000	1197.636	-19.8	120	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	1000.000	1166.075	-16.6	109	0.00	9.47-16.64
5	H	TPH (>C22-C36)	1000.000	1188.150	-18.8	115	0.00	7.92-12.87
6	H	TPH (C8-C36)	2000.000	2370.484	-18.5	117	0.00	2.37-12.61
7	H	TPH (C10-C40)	2000.000	2388.305	-19.4	116	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30923.D FDRO_OIL.M Fri Aug 10 17:26:19 2012

12.6.7

12

Continuing Calibration Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM
Sample: GYY1149-ECC1143
Lab FileID: YY31085.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31085.D       Vial: 14
Acq On    : 8-9-12 04:54:30 PM                        Operator: STEVE
Sample    : ecc1143-500                               Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e

Method       : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	S	O-TERPHENYL	25.000	29.269	-17.1	118	0.00	6.82- 6.90
2	H	TPH (C10-C28)	500.000	598.632	-19.7	122	0.00	3.63- 9.37
3	H	TPH (C10-C22)	500.000	590.830	-18.2	121	0.00	3.71- 7.83
4	H	TPH (>C28-C40)	500.000	584.715	-16.9	117	0.00	9.47-16.64
5	H	TPH (>C22-C36)	500.000	595.773	-19.2	122	0.00	7.92-12.87
6	H	TPH (C8-C36)	1000.000	1196.966	-19.7	122	0.00	2.37-12.61
7	H	TPH (C10-C40)	1000.000	1195.476	-19.5	121	0.00	3.57-17.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
YY30922.D FDRO_OIL.M Fri Aug 10 17:25:52 2012

12.6.8

12

Southeast

ACCUTEST LABORATORIES

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31036.D        Vial: 12
Acq On    : 8-8-12 05:08:55 PM                          Operator: STEVE
Sample    : f95274-1                                    Inst    : FID 5
Misc      : op42889,GYY1148,30.1,,,1,1,soil             Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:18 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6009416	50.668 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 101.34%			
Target Compounds			
2) H TPH (C10-C28)	6.51	10957806	78.038 PPM
3) H TPH (C10-C22)	5.00	5603119	49.539 PPM
4) H TPH (>C28-C40)	10.00	3575395	49.041 PPM
5) H TPH (>C22-C36)	9.00	7816688	89.722 PPM
6) H TPH (C8-C36)	8.00	15530770	151.106 PPM
7) H TPH (C10-C40)	7.39	14799919	136.191 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

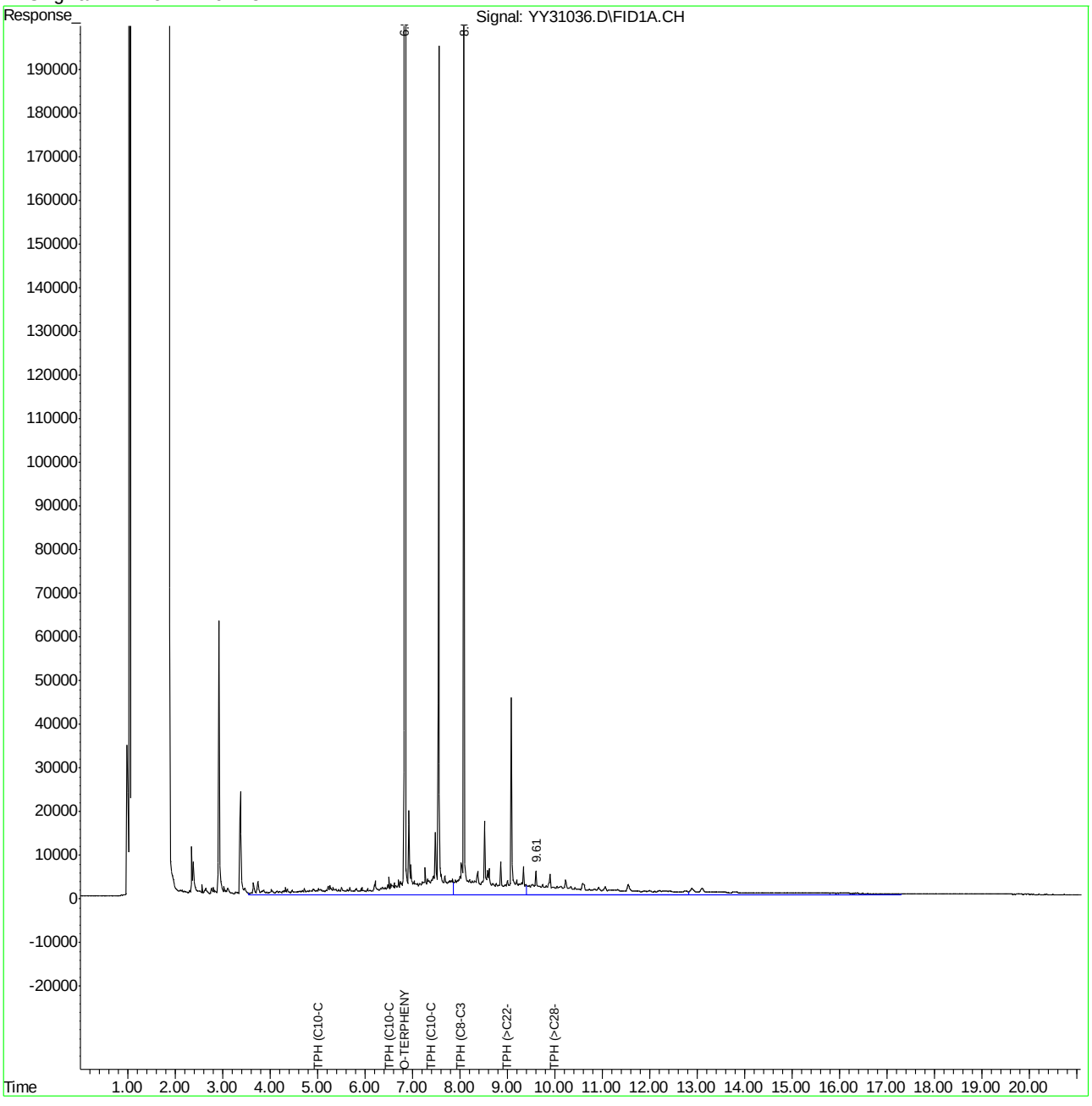
YY31036.D FDRO_OIL.M Fri Aug 10 15:36:04 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31036.D Vial: 12
Acq On : 8-8-12 05:08:55 PM Operator: STEVE
Sample : f95274-1 Inst : FID 5
Misc : op42889,GYY1148,30.1,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:36 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31037.D        Vial: 13
Acq On    : 8-8-12 05:37:24 PM                         Operator: STEVE
Sample    : f95274-2                                   Inst    : FID 5
Misc      : op42889,GYY1148,29.5,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:22 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6093110	51.373 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery = 102.75%	
Target Compounds			
2) H TPH (C10-C28)	6.51	14002987	99.724 PPM
3) H TPH (C10-C22)	5.00	9509637	84.077 PPM
4) H TPH (>C28-C40)	10.00	1313277	18.013 PPM
5) H TPH (>C22-C36)	9.00	5749246	65.992 PPM
6) H TPH (C8-C36)	8.00	17731426	172.517 PPM
7) H TPH (C10-C40)	7.39	15733467	144.782 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

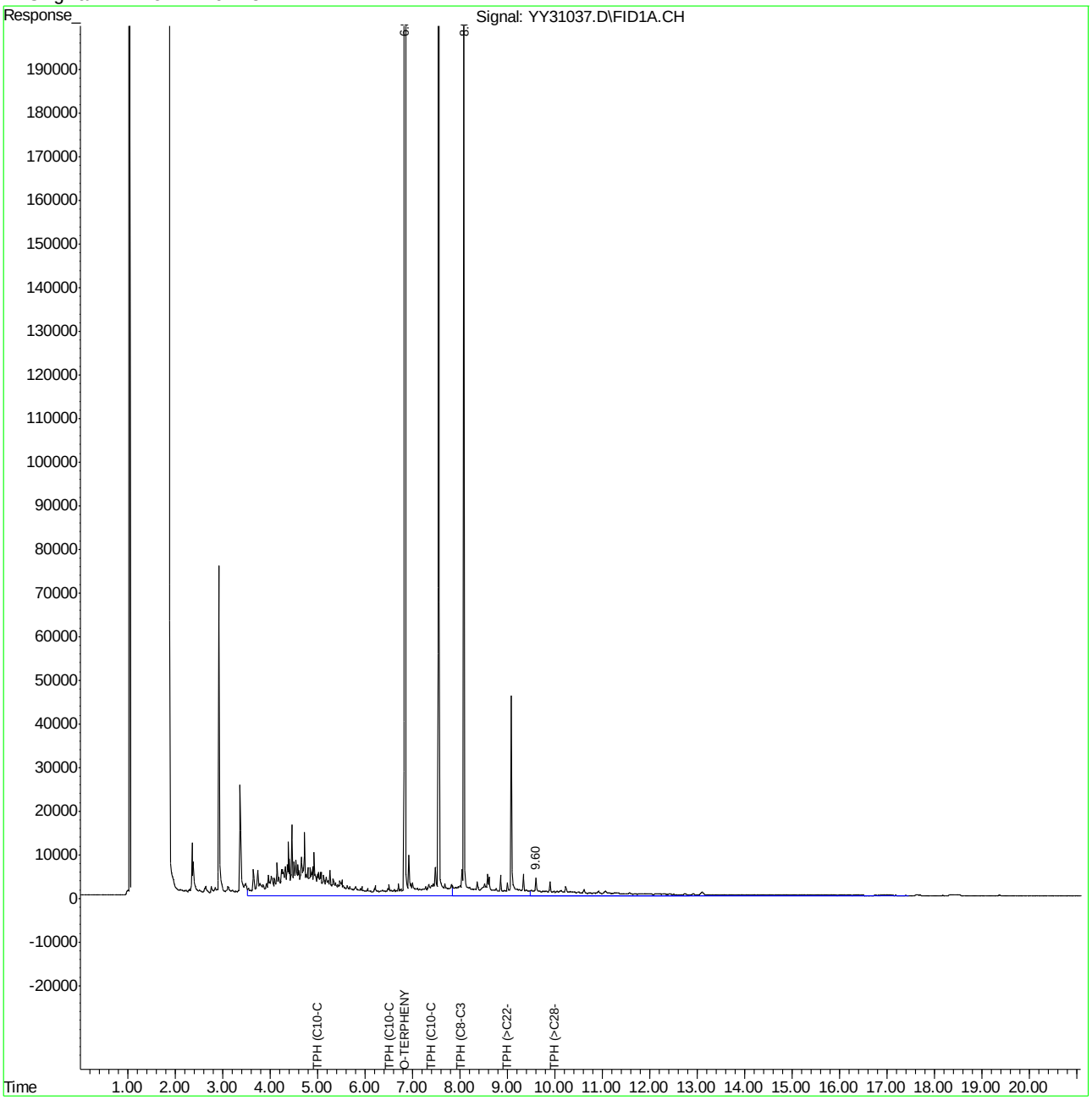
YY31037.D FDRO_OIL.M Fri Aug 10 15:36:08 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31037.D Vial: 13
Acq On : 8-8-12 05:37:24 PM Operator: STEVE
Sample : f95274-2 Inst : FID 5
Misc : op42889,GYY1148,29.5,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:39 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31038.D        Vial: 14
Acq On    : 8-8-12 06:05:53 PM                         Operator: STEVE
Sample    : f95274-3                                   Inst    : FID 5
Misc      : op42889,GYY1148,29.7,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:26 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5036607	42.465 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 84.93%			
Target Compounds			
2) H TPH (C10-C28)	6.51	17824766	126.942 PPM
3) H TPH (C10-C22)	5.00	9842806	87.023 PPM
4) H TPH (>C28-C40)	10.00	991299	13.597 PPM
5) H TPH (>C22-C36)	9.00	8696336	99.819 PPM
6) H TPH (C8-C36)	8.00	20321960	197.721 PPM
7) H TPH (C10-C40)	7.39	18871418	173.658 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

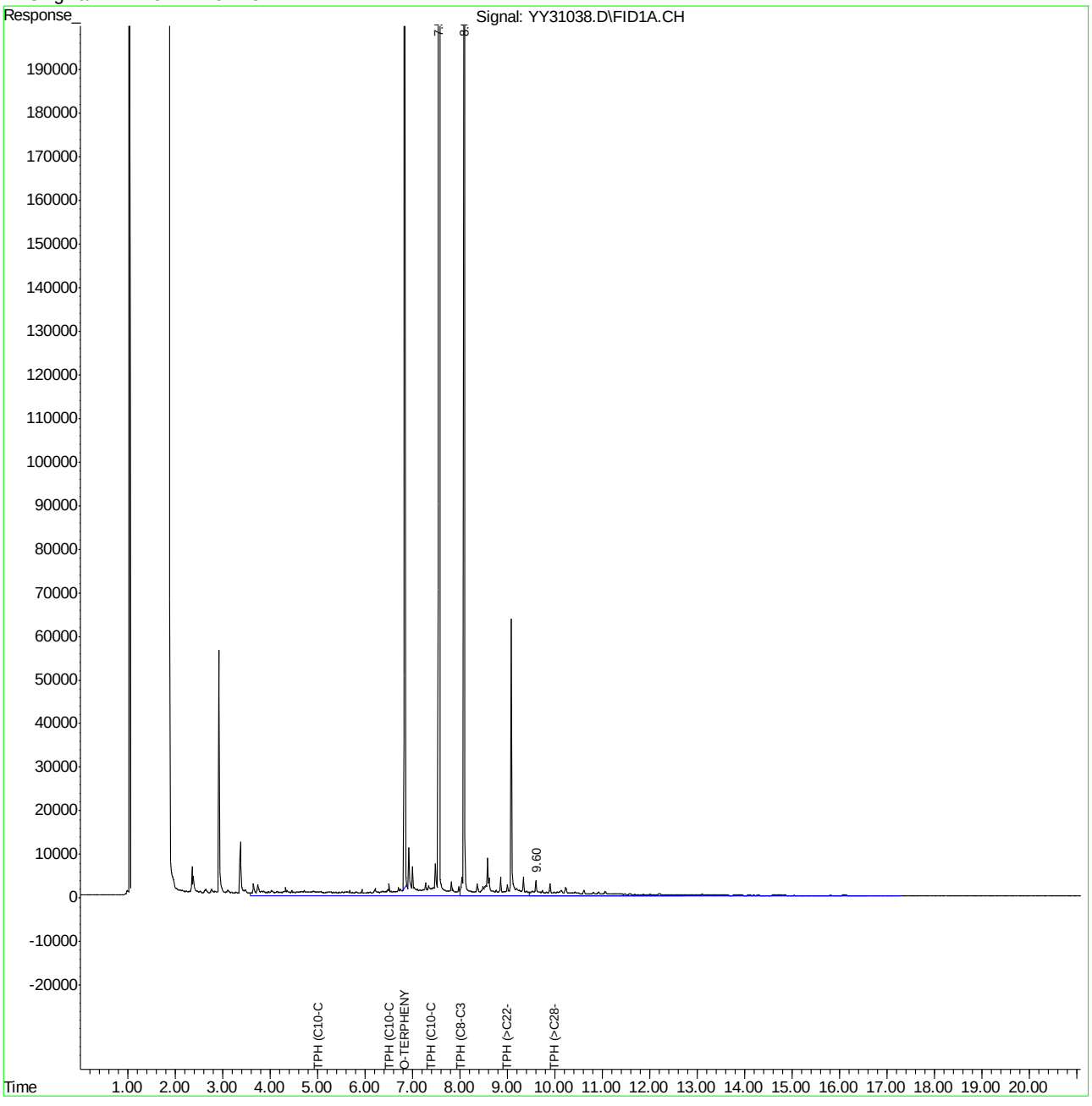
YY31038.D FDRO_OIL.M Fri Aug 10 15:36:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31038.D Vial: 14
Acq On : 8-8-12 06:05:53 PM Operator: STEVE
Sample : f95274-3 Inst : FID 5
Misc : op42889,GYY1148,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:42 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31039.D        Vial: 15
Acq On    : 8-8-12 06:34:08 PM                          Operator: STEVE
Sample    : f95274-4                                    Inst    : FID 5
Misc      : op42889,GYY1148,30.1,,,1,1,soil             Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:30 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	4341406	36.604 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 73.21%			
Target Compounds			
2) H TPH (C10-C28)	6.51	18943994	134.913 PPM
3) H TPH (C10-C22)	5.00	9688417	85.658 PPM
4) H TPH (>C28-C40)	10.00	24730825	339.216 PPM
5) H TPH (>C22-C36)	9.00	24638351	282.807 PPM
6) H TPH (C8-C36)	8.00	35784688	348.165 PPM
7) H TPH (C10-C40)	7.39	45464598	418.373 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

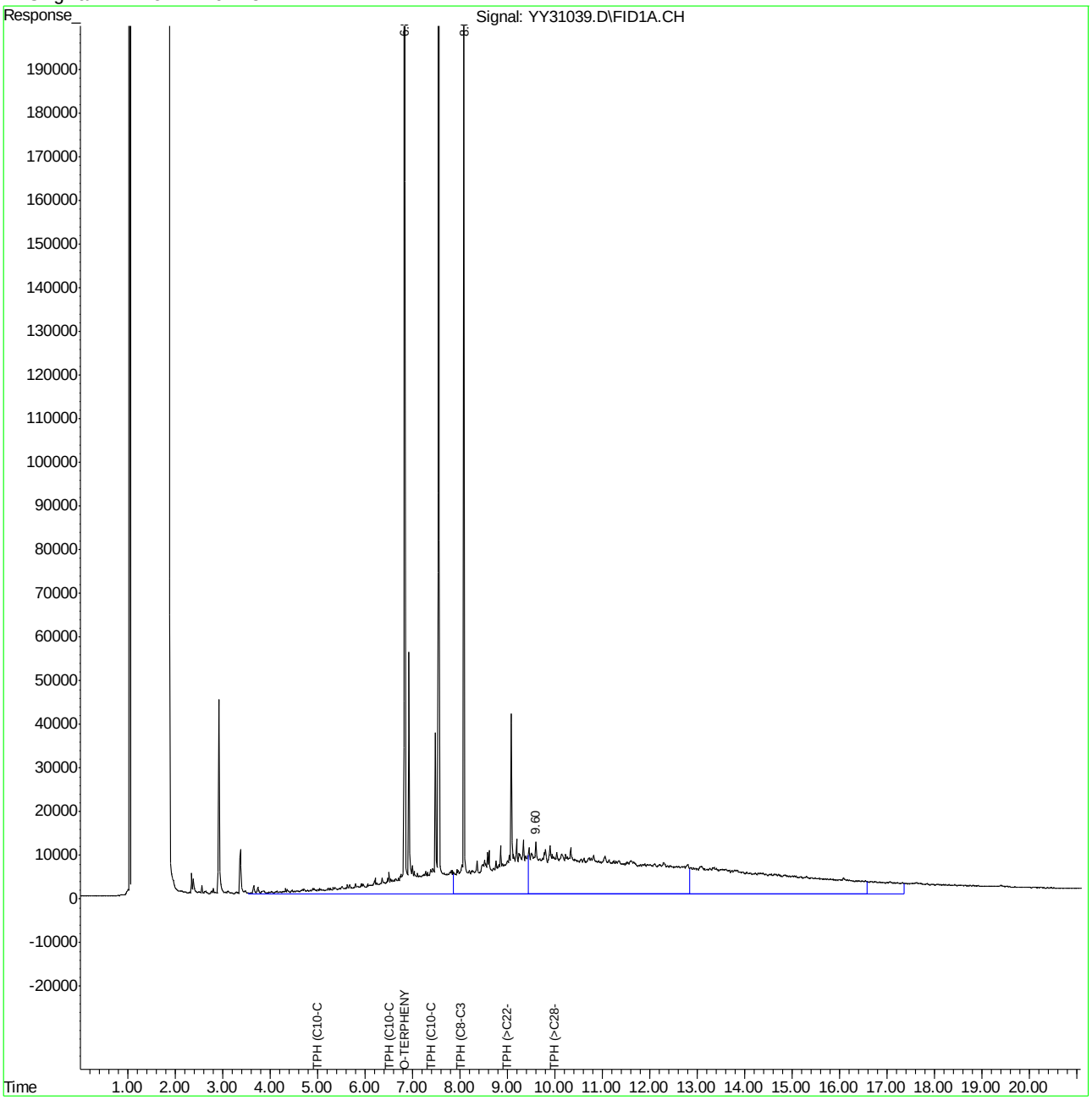
YY31039.D FDRO_OIL.M Fri Aug 10 15:36:13 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31039.D Vial: 15
Acq On : 8-8-12 06:34:08 PM Operator: STEVE
Sample : f95274-4 Inst : FID 5
Misc : op42889,GYY1148,30.1,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:45 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31040.D        Vial: 16
Acq On    : 8-8-12 07:02:29 PM                          Operator: STEVE
Sample    : f95274-5                                    Inst    : FID 5
Misc      : op42889,GYY1148,29.7,,,1,1,soil             Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:34 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5354268	45.144 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 90.29%			
Target Compounds			
2) H TPH (C10-C28)	6.51	5954656	42.407 PPM
3) H TPH (C10-C22)	5.00	2644007	23.376 PPM
4) H TPH (>C28-C40)	10.00	1846655	25.329 PPM
5) H TPH (>C22-C36)	9.00	4692984	53.868 PPM
6) H TPH (C8-C36)	8.00	10019616	97.485 PPM
7) H TPH (C10-C40)	7.39	10092624	92.874 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

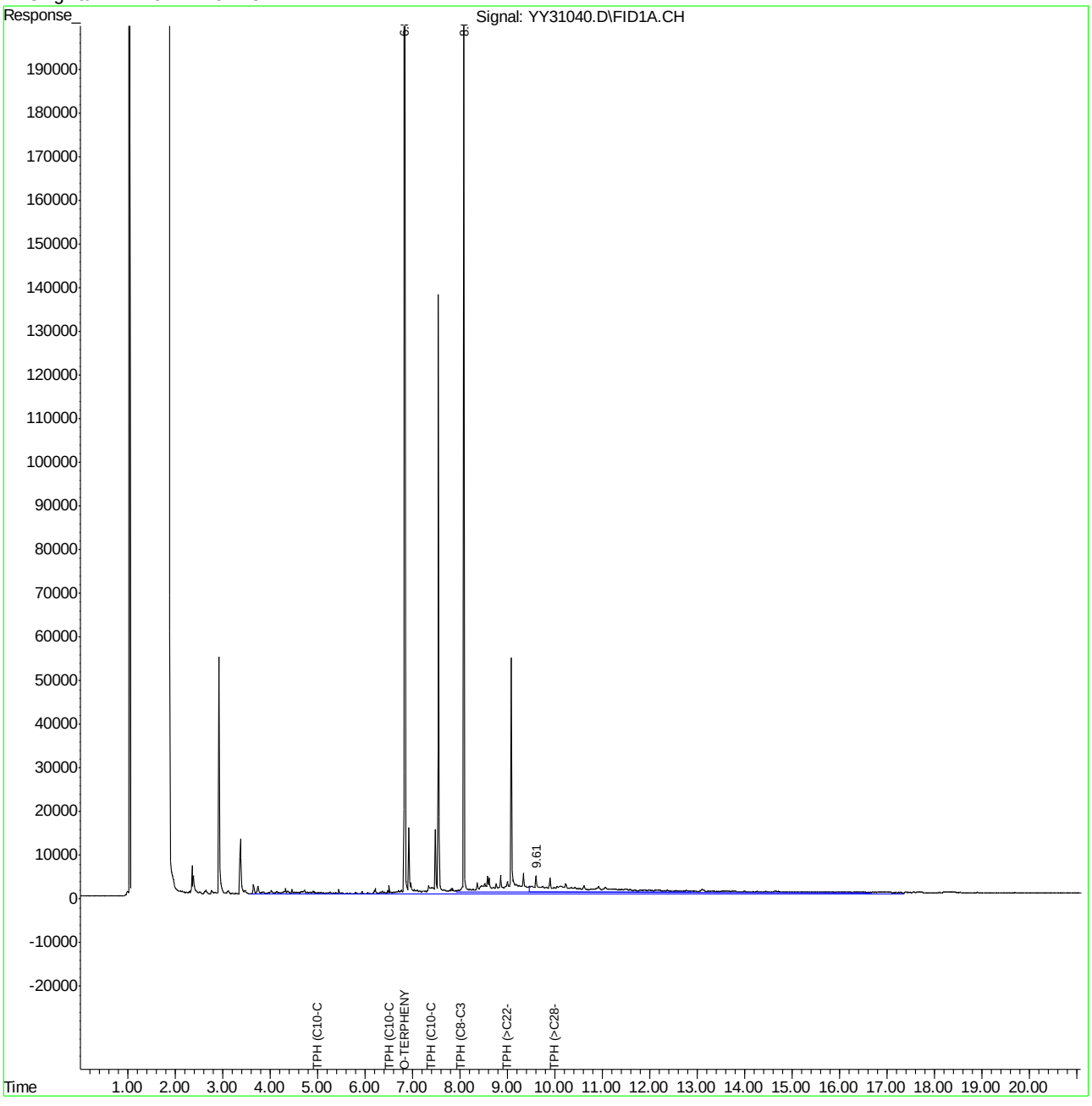
YY31040.D FDRO_OIL.M Fri Aug 10 15:36:16 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31040.D Vial: 16
Acq On : 8-8-12 07:02:29 PM Operator: STEVE
Sample : f95274-5 Inst : FID 5
Misc : op42889,GYY1148,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:46 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31041.D        Vial: 17
Acq On    : 8-8-12 07:30:42 PM                         Operator: STEVE
Sample    : f95274-6                                   Inst    : FID 5
Misc      : op42889,GYY1148,30.2,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:38 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6234114	52.562 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery = 105.12%	
Target Compounds			
2) H TPH (C10-C28)	6.51	6254434	44.542 PPM
3) H TPH (C10-C22)	5.00	3802515	33.619 PPM
4) H TPH (>C28-C40)	10.00	1030168	14.130 PPM
5) H TPH (>C22-C36)	9.00	3409539	39.136 PPM
6) H TPH (C8-C36)	8.00	9051178	88.063 PPM
7) H TPH (C10-C40)	7.39	7802511	71.800 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

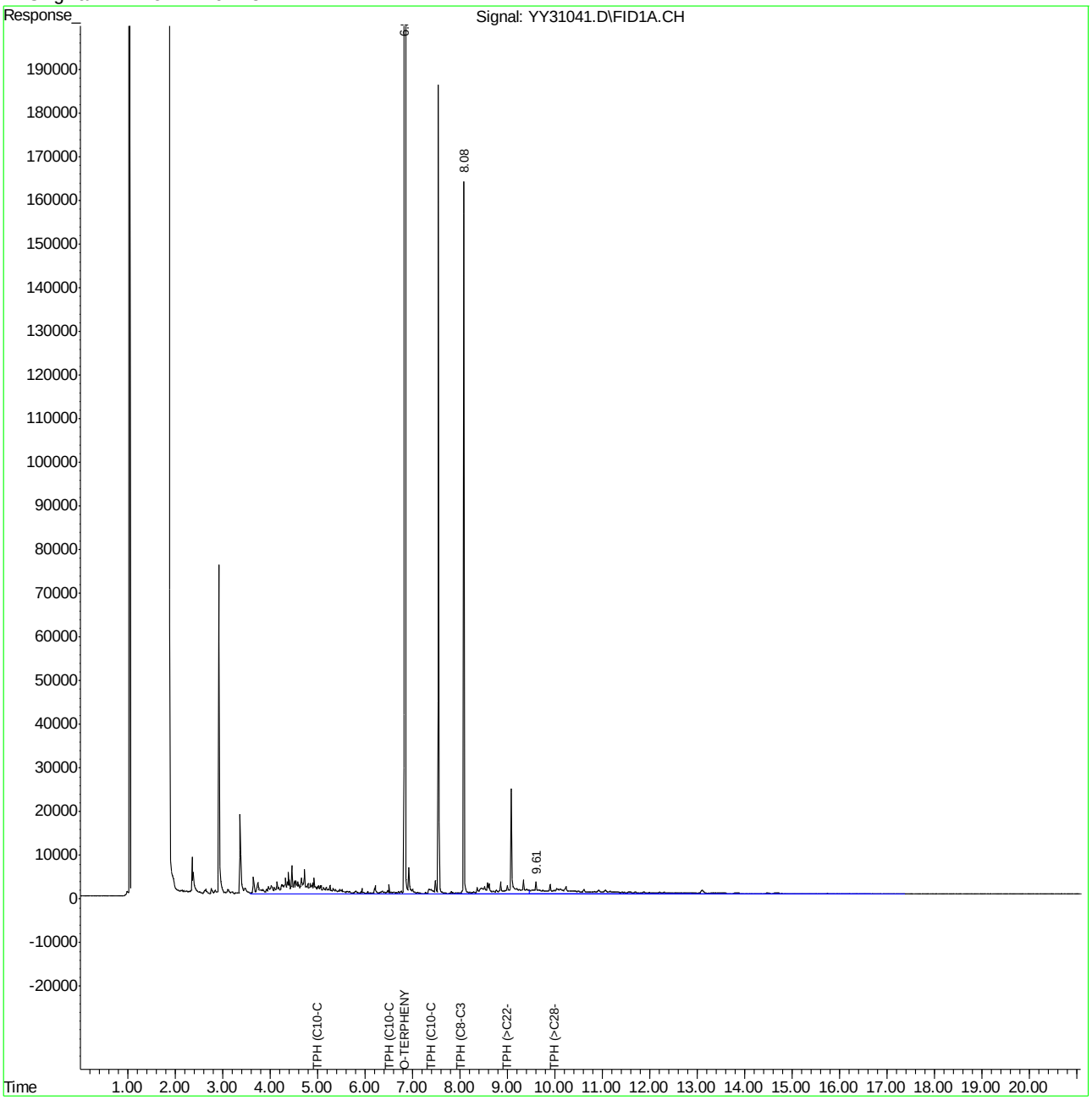
YY31041.D FDRO_OIL.M Fri Aug 10 15:36:19 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31041.D Vial: 17
Acq On : 8-8-12 07:30:42 PM Operator: STEVE
Sample : f95274-6 Inst : FID 5
Misc : op42889,GYY1148,30.2,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:46 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31035.D        Vial: 11
Acq On    : 8-8-12 04:40:29 PM                         Operator: STEVE
Sample    : op42889-mb                                 Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:14 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6160619	51.942 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 103.88%			
Target Compounds			
2) H TPH (C10-C28)	6.51	3780373	26.923 PPM
3) H TPH (C10-C22)	5.00	3243886	28.680 PPM
4) H TPH (>C28-C40)	10.00	1065547	14.615 PPM
5) H TPH (>C22-C36)	9.00	1039427	11.931 PPM
6) H TPH (C8-C36)	8.00	9509567	92.523 PPM
7) H TPH (C10-C40)	7.39	7817960	71.942 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

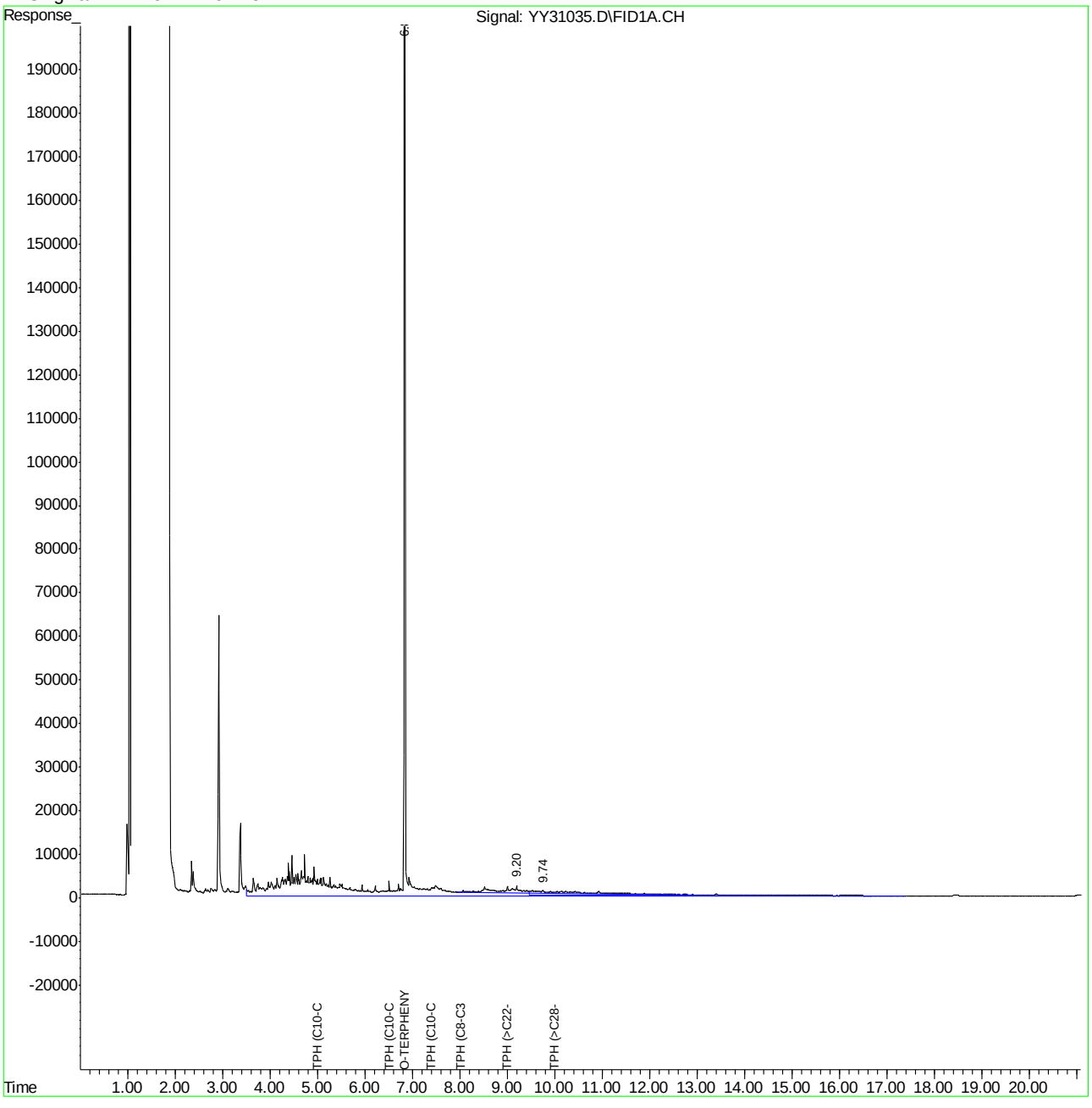
YY31035.D FDRO_OIL.M Fri Aug 10 15:36:01 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31035.D Vial: 11
Acq On : 8-8-12 04:40:29 PM Operator: STEVE
Sample : op42889-mb Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:34 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY31035.D FDRO_OIL.M Fri Aug 10 15:36:02 2012 Page 2

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/11/12 11:57

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31076.D        Vial: 5
Acq On    : 09 Aug 2012  12:38 pm                     Operator: STEVE
Sample    : op42889-mb                                Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 16:23:25 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6367055	53.683 PPM m
Spiked Amount 50.000 Range 49 - 108 Recovery = 107.37%			
Target Compounds			
2) H TPH (C10-C28)	6.51	6296652	44.843 PPM
3) H TPH (C10-C22)	5.00	5541610	48.995 PPM
4) H TPH (>C28-C40)	10.00	681898	9.353 PPM
5) H TPH (>C22-C36)	9.00	1352466	15.524 PPM
6) H TPH (C8-C36)	8.00	9288197	90.369 PPM
7) H TPH (C10-C40)	7.39	7096965	65.307 PPM

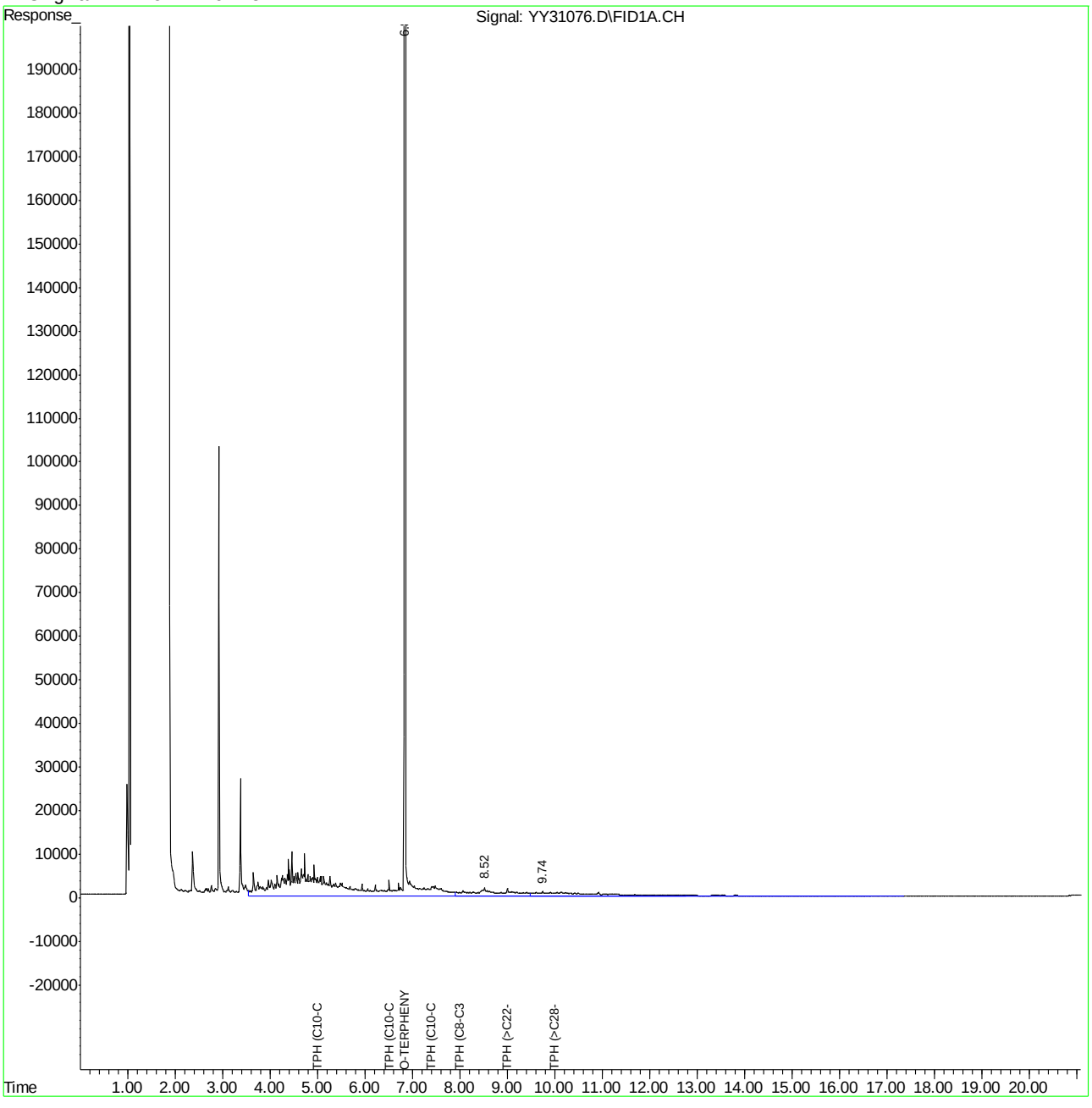
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31076.D Vial: 5
Acq On : 09 Aug 2012 12:38 pm Operator: STEVE
Sample : op42889-mb Inst : FID 5
Misc : op42889,GYY1149,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 16:37 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	OP42889-MB	**Method:**	SW846 8015C
Lab FileID:	YY31076.D	**Analyst approved:**	08/10/12 17:28 Stephen Lee
Injection Time:	08/09/12 12:38	**Supervisor approved:**	08/11/12 11:57 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mark Erstling
08/10/12 17:14

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31034.D        Vial: 10
Acq On    : 8-8-12 04:12:14 PM                          Operator: STEVE
Sample    : op42889-bs                                  Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil             Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:10 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6352550	53.561	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 107.12%					
Target Compounds					
2) H TPH (C10-C28)	6.51	149809594	1066.892	PPM	
3) H TPH (C10-C22)	5.00	120210575	1062.814	PPM	
4) H TPH (>C28-C40)	10.00	78792634	1080.744	PPM	
5) H TPH (>C22-C36)	9.00	100106903	1149.060	PPM	
6) H TPH (C8-C36)	8.00	226733811	2205.992	PPM	
7) H TPH (C10-C40)	7.39	238378211	2193.596	PPM	

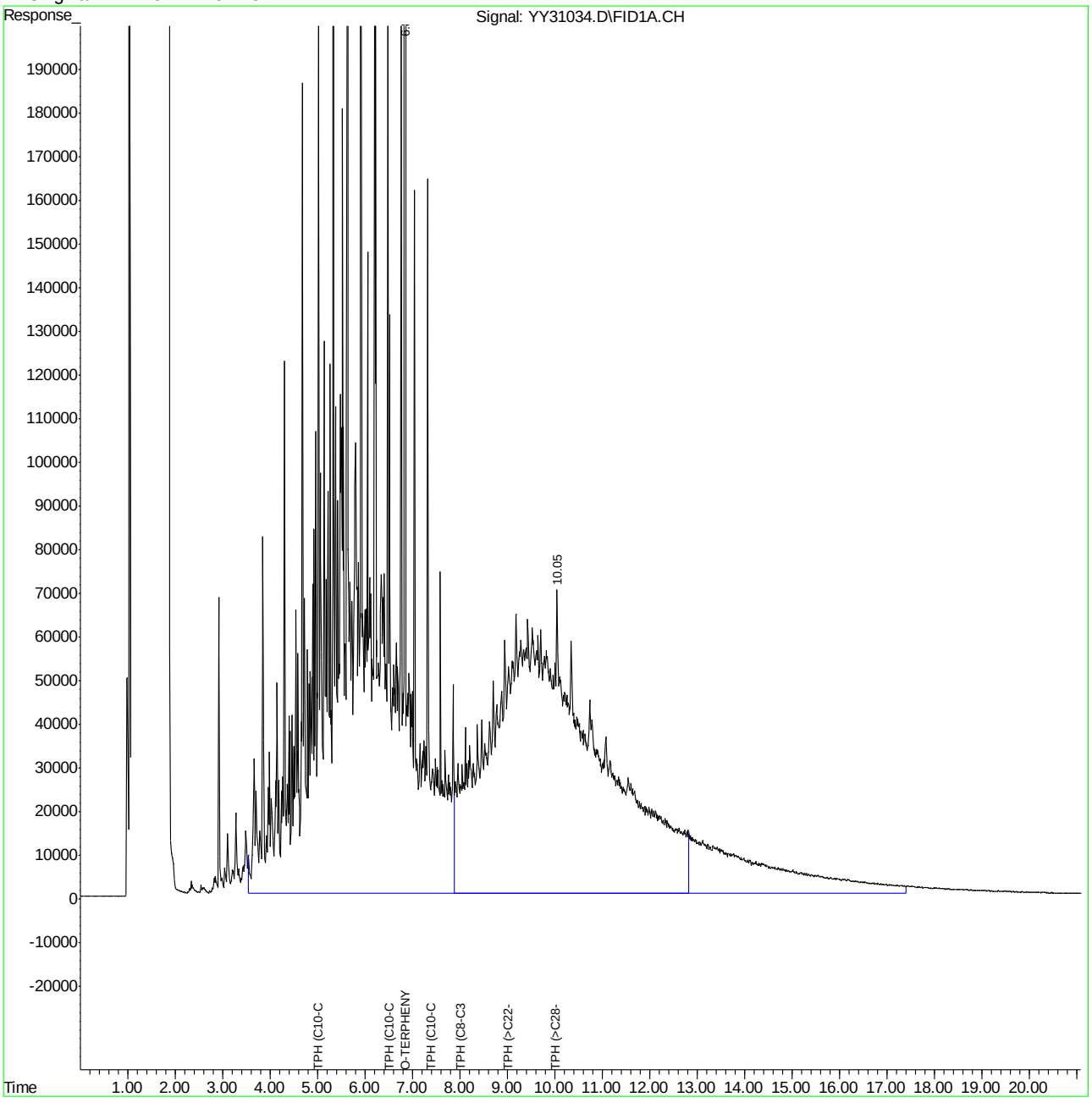
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31034.D Vial: 10
Acq On : 8-8-12 04:12:14 PM Operator: STEVE
Sample : op42889-bs Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 16:13 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	OP42889-BS	**Method:**	SW846 8015C
Lab FileID:	YY31034.D	**Analyst approved:**	08/10/12 16:13 Stephen Lee
Injection Time:	08/08/12 16:12	**Supervisor approved:**	08/10/12 17:14 Mark Erstling

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mark Erstling
08/10/12 17:14

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31058.D        Vial: 29
Acq On    : 8-9-12 03:25:36 AM                         Operator: STEVE
Sample    : op42889-ms                                 Inst    : FID 5
Misc      : op42889,GYY1148,29.7,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:56:36 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6376924	53.766	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 107.53%					
Target Compounds					
2) H TPH (C10-C28)	6.51	173371257	1234.690	PPM	
3) H TPH (C10-C22)	5.00	137654225	1217.037	PPM	
4) H TPH (>C28-C40)	10.00	73900725	1013.645	PPM	
5) H TPH (>C22-C36)	9.00	98975122	1136.069	PPM	
6) H TPH (C8-C36)	8.00	242448754	2358.889	PPM	
7) H TPH (C10-C40)	7.39	252835099	2326.631	PPM	

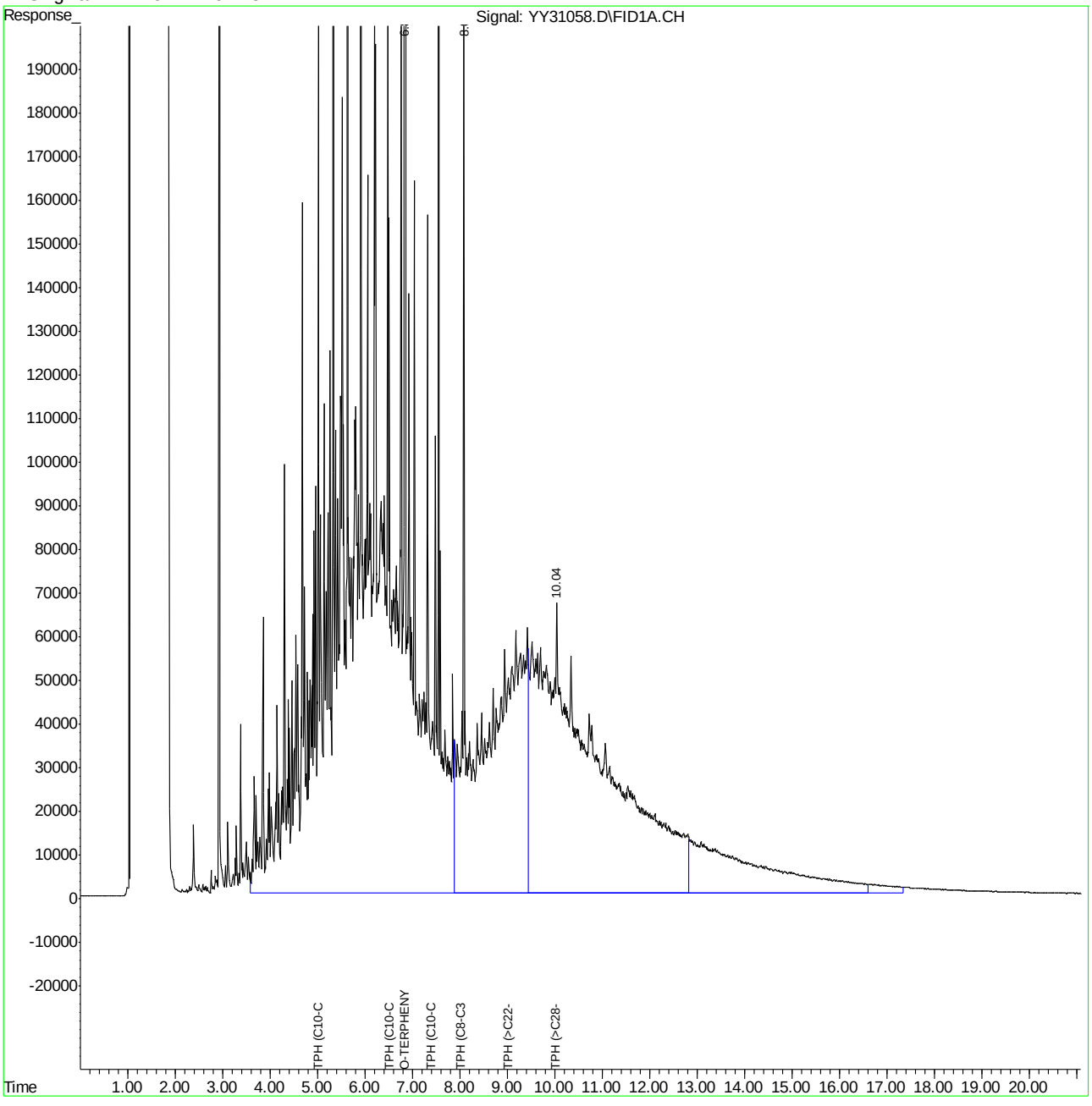
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31058.D Vial: 29
Acq On : 8-9-12 03:25:36 AM Operator: STEVE
Sample : op42889-ms Inst : FID 5
Misc : op42889,GYY1148,29.7,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 15:16 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	OP42889-MS	**Method:**	SW846 8015C
Lab FileID:	YY31058.D	**Analyst approved:**	08/10/12 16:00 Stephen Lee
Injection Time:	08/09/12 03:25	**Supervisor approved:**	08/10/12 17:14 Mark Erstling

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mark Erstling
08/10/12 17:14

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31059.D        Vial: 30
Acq On    : 8-9-12 03:53:15 AM                         Operator: STEVE
Sample    : op42889-msd                                Inst    : FID 5
Misc      : op42889,GYY1148,29.9,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:56:40 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6304138	53.152	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 106.30%					
Target Compounds					
2) H TPH (C10-C28)	6.51	162823361	1159.572	PPM	
3) H TPH (C10-C22)	5.00	128106414	1132.623	PPM	
4) H TPH (>C28-C40)	10.00	70431658	966.062	PPM	
5) H TPH (>C22-C36)	9.00	92969036	1067.129	PPM	
6) H TPH (C8-C36)	8.00	227821974	2216.579	PPM	
7) H TPH (C10-C40)	7.39	237262058	2183.325	PPM	

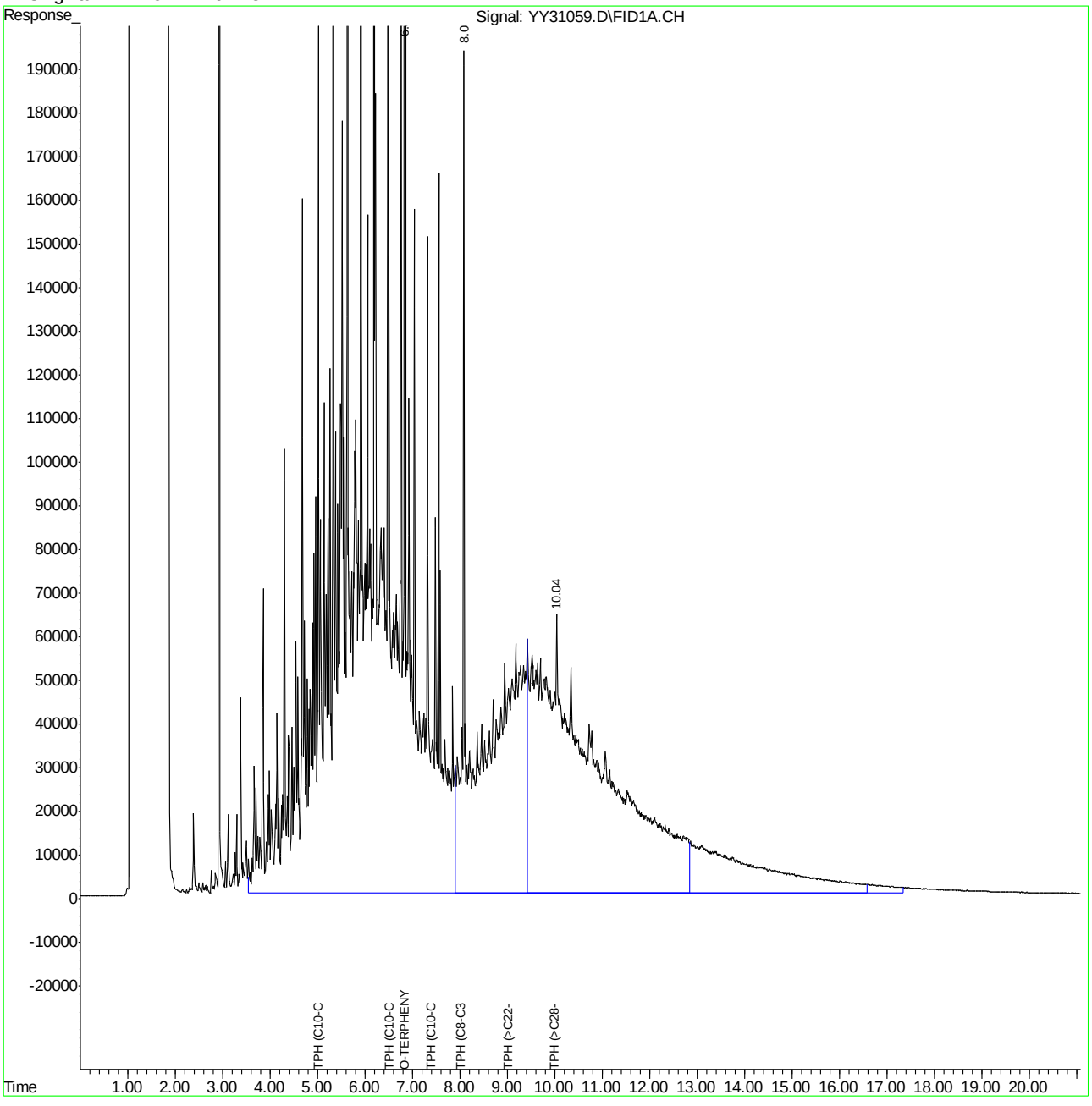
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31059.D Vial: 30
Acq On : 8-9-12 03:53:15 AM Operator: STEVE
Sample : op42889-msd Inst : FID 5
Misc : op42889,GYY1148,29.9,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 15:19 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	OP42889-MSD	**Method:**	SW846 8015C
Lab FileID:	YY31059.D	**Analyst approved:**	08/10/12 16:00 Stephen Lee
Injection Time:	08/09/12 03:53	**Supervisor approved:**	08/10/12 17:14 Mark Erstling

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30919.D       Vial: 2
Acq On    : 03 Aug 2012  11:47 am                    Operator: STEVE
Sample    : RT,C8-C40                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER         Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:31 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	5137306	47.544 PPM
Spiked Amount 50.000 Range 42 - 114 Recovery = 95.09%			
Target Compounds			
2) H TPH (C10-C28)	6.51	93808477	676.836 PPM
3) H TPH (C10-C22)	5.00	64959617	576.944 PPM
4) H TPH (>C28-C40)	10.00	59128946	914.958 PPM
5) H TPH (>C22-C36)	9.00	68274586	848.240 PPM
6) H TPH (C8-C36)	8.00	143470861	1450.614 PPM
7) H TPH (C10-C40)	7.39	153122408	1509.899 PPM

13.5.1

13

(f)=RT Delta > 1/2 Window (m)=manual int.

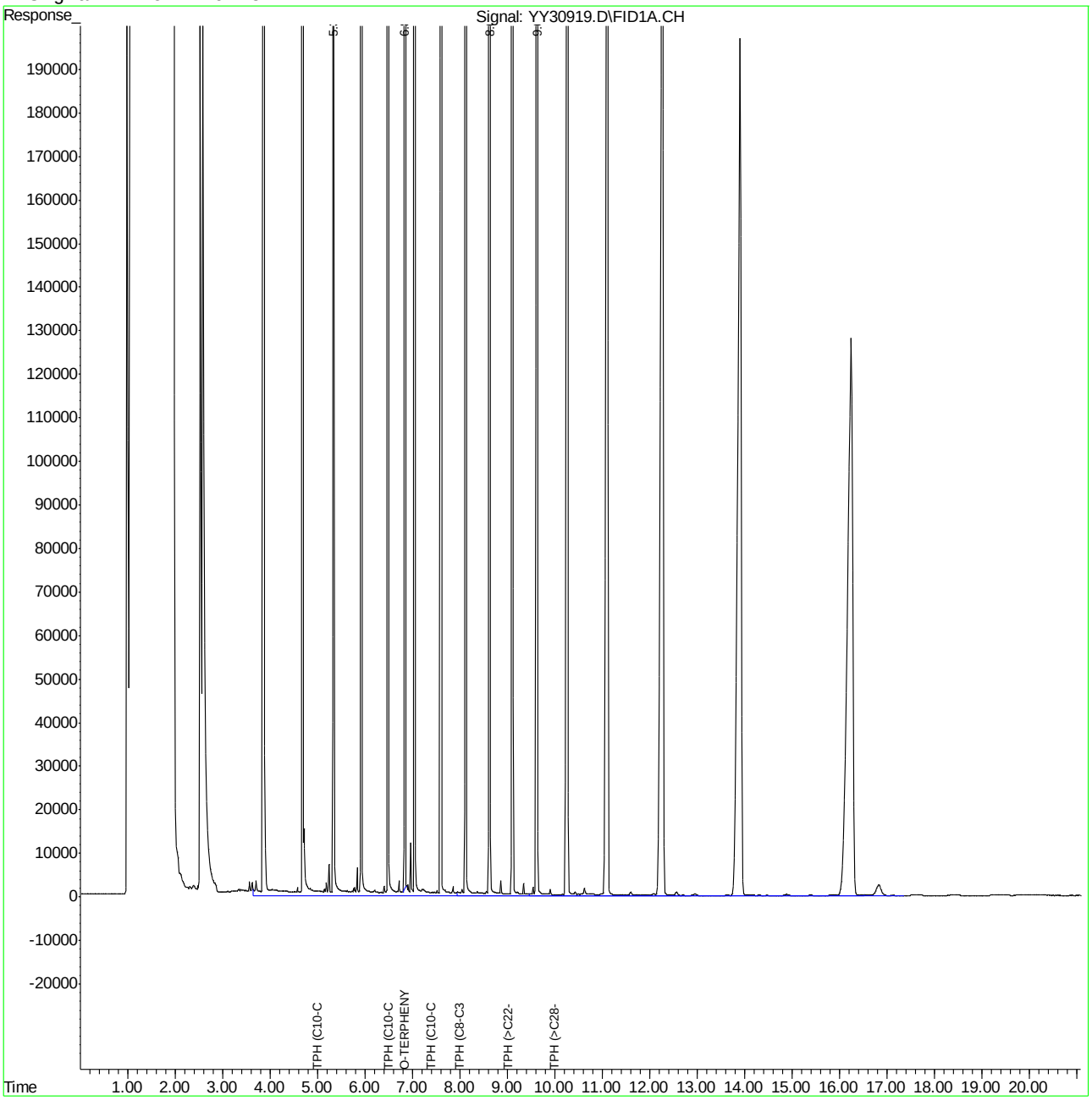
YY30919.D FDRO_OIL.M Mon Aug 06 15:09:26 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30919.D Vial: 2
Acq On : 03 Aug 2012 11:47 am Operator: STEVE
Sample : RT,C8-C40 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:22 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31031.D       Vial: 2
Acq On    : 8-8-12 02:10:39 PM                        Operator: STEVE
Sample    : rt,C10-C40                                Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:01 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6070725	51.184 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery = 102.37%	
Target Compounds			
2) H TPH (C10-C28)	6.51	110842892	789.385 PPM
3) H TPH (C10-C22)	5.00	76826634	679.245 PPM
4) H TPH (>C28-C40)	10.00	68794745	943.610 PPM
5) H TPH (>C22-C36)	9.00	80629845	925.496 PPM
6) H TPH (C8-C36)	8.00	169000760	1644.282 PPM
7) H TPH (C10-C40)	7.39	179995138	1656.345 PPM

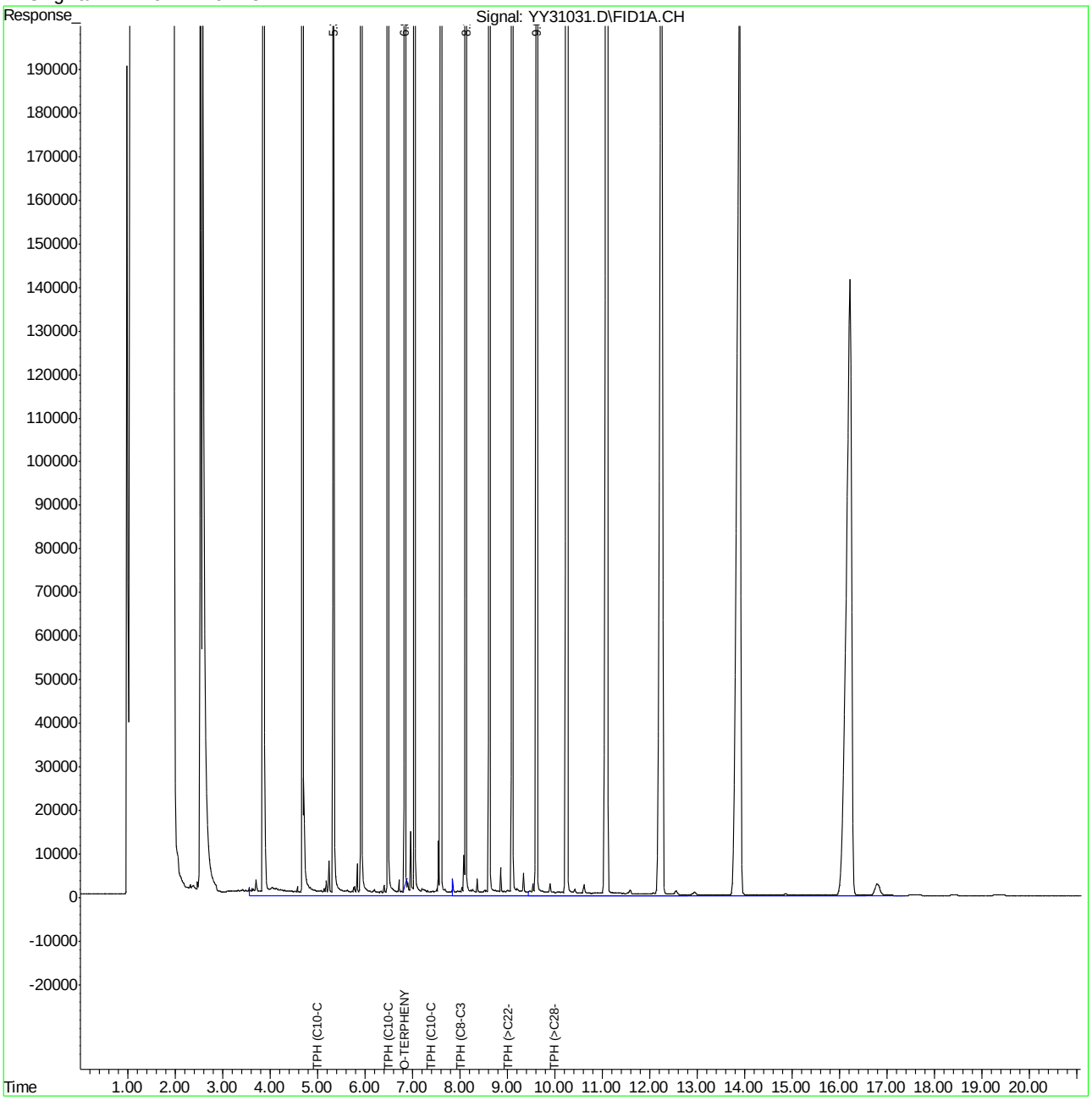
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31031.D Vial: 2
Acq On : 8-8-12 02:10:39 PM Operator: STEVE
Sample : rt,C10-C40 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:25 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31053.D       Vial: 2
Acq On    : 8-9-12 01:06:05 AM                        Operator: STEVE
Sample    : rt,C10-C40                                Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:56:23 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	7731444	65.187 PPM
Spiked Amount 50.000	Range 49 - 108	Recovery = 130.37%#	
Target Compounds			
2) H TPH (C10-C28)	6.51	135921864	967.989 PPM
3) H TPH (C10-C22)	5.00	94206749	832.907 PPM
4) H TPH (>C28-C40)	10.00	81178970	1113.476 PPM
5) H TPH (>C22-C36)	9.00	97960166	1124.419 PPM
6) H TPH (C8-C36)	8.00	205336633	1997.809 PPM
7) H TPH (C10-C40)	7.39	217416673	2000.704 PPM

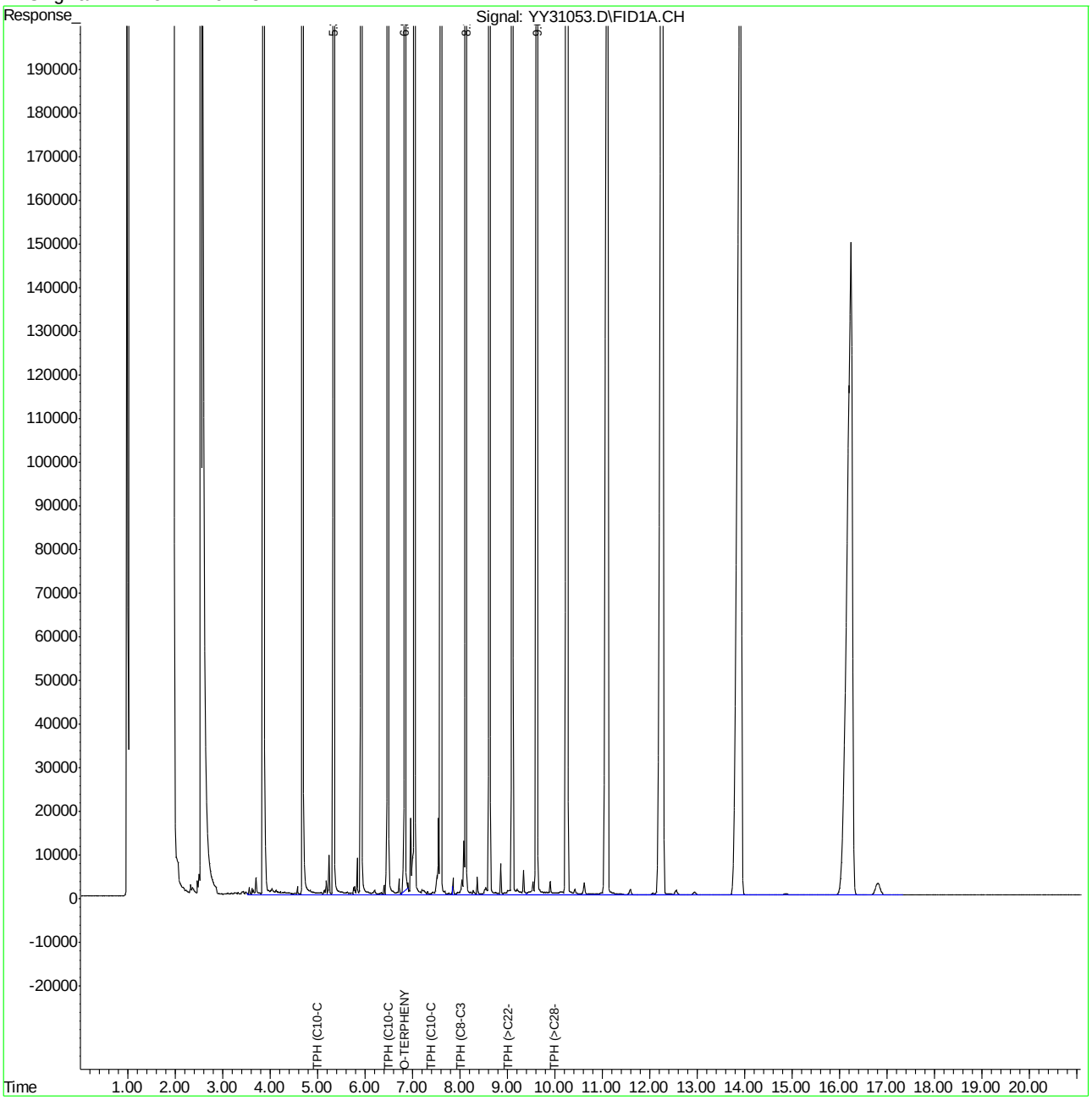
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31053.D Vial: 2
Acq On : 8-9-12 01:06:05 AM Operator: STEVE
Sample : rt,C10-C40 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 15:01 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31073.D       Vial: 2
Acq On    : 09 Aug 2012  11:13 am                    Operator: STEVE
Sample    : rt,C10-C40                               Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 16:23:13 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

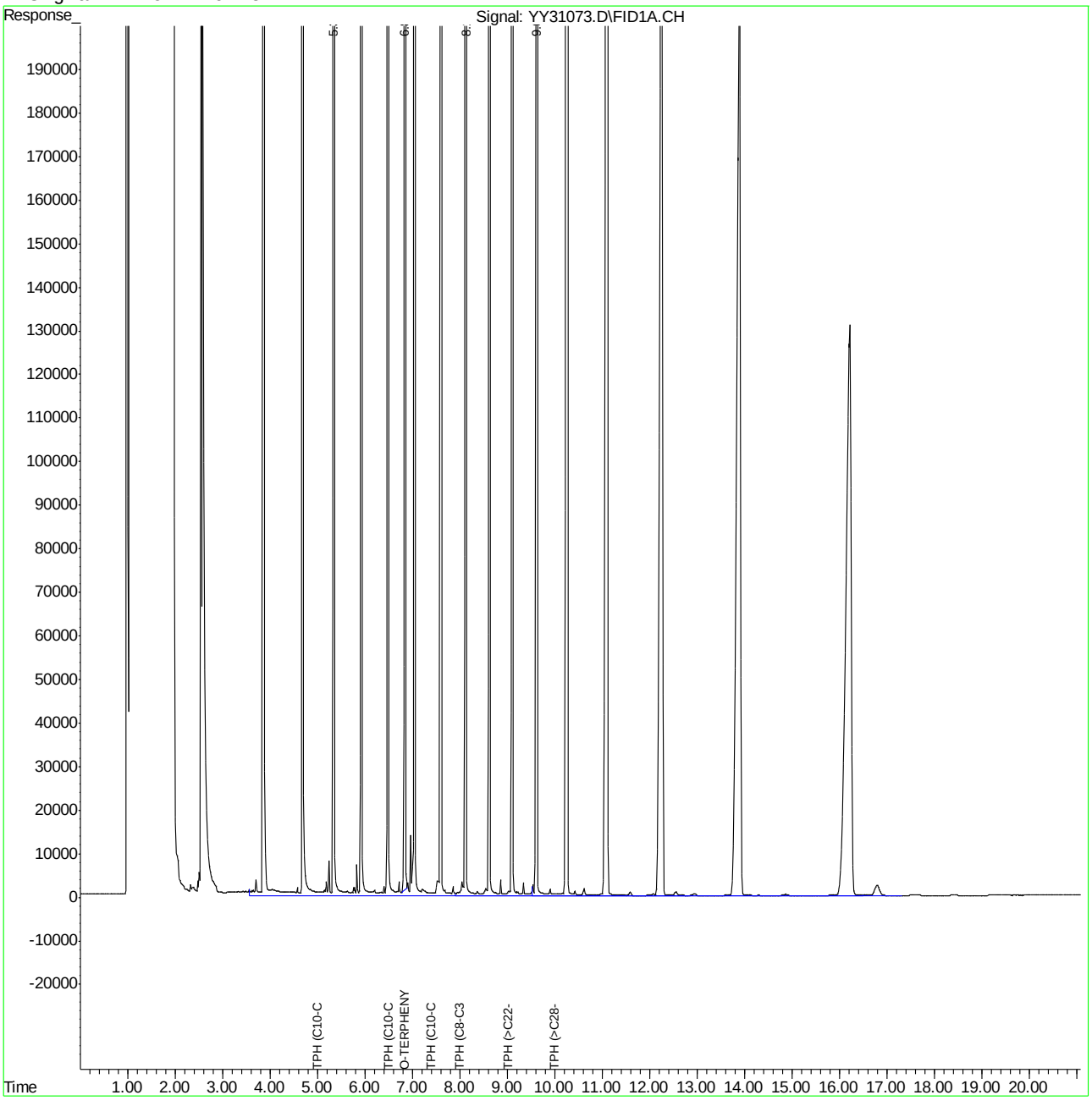
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6295354	53.078 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 106.16%			
Target Compounds			
2) H TPH (C10-C28)	6.51	111520517	794.211 PPM
3) H TPH (C10-C22)	5.00	77548700	685.629 PPM
4) H TPH (>C28-C40)	10.00	67715167	928.802 PPM
5) H TPH (>C22-C36)	9.00	80425167	923.146 PPM
6) H TPH (C8-C36)	8.00	169507361	1649.211 PPM
7) H TPH (C10-C40)	7.39	179535419	1652.115 PPM

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31073.D Vial: 2
Acq On : 09 Aug 2012 11:13 am Operator: STEVE
Sample : rt,C10-C40 Inst : FID 5
Misc : op42889,GYY1149,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 16:29 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30920.D        Vial: 3
Acq On    : 03 Aug 2012  12:15 pm                     Operator: STEVE
Sample    : IC1143-100                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:34 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.83	560316	5.186 PPM m
Spiked Amount 50.000 Range 42 - 114 Recovery = 10.37%#			
Target Compounds			
2) H TPH (C10-C28)	6.51	14034582	101.261 PPM
3) H TPH (C10-C22)	5.00	11391991	101.179 PPM
4) H TPH (>C28-C40)	10.00	6082517	94.121 PPM
5) H TPH (>C22-C36)	9.00	7771128	96.548 PPM
6) H TPH (C8-C36)	8.00	19874351	200.947 PPM
7) H TPH (C10-C40)	7.39	20265103	199.829 PPM

13.6.1
13

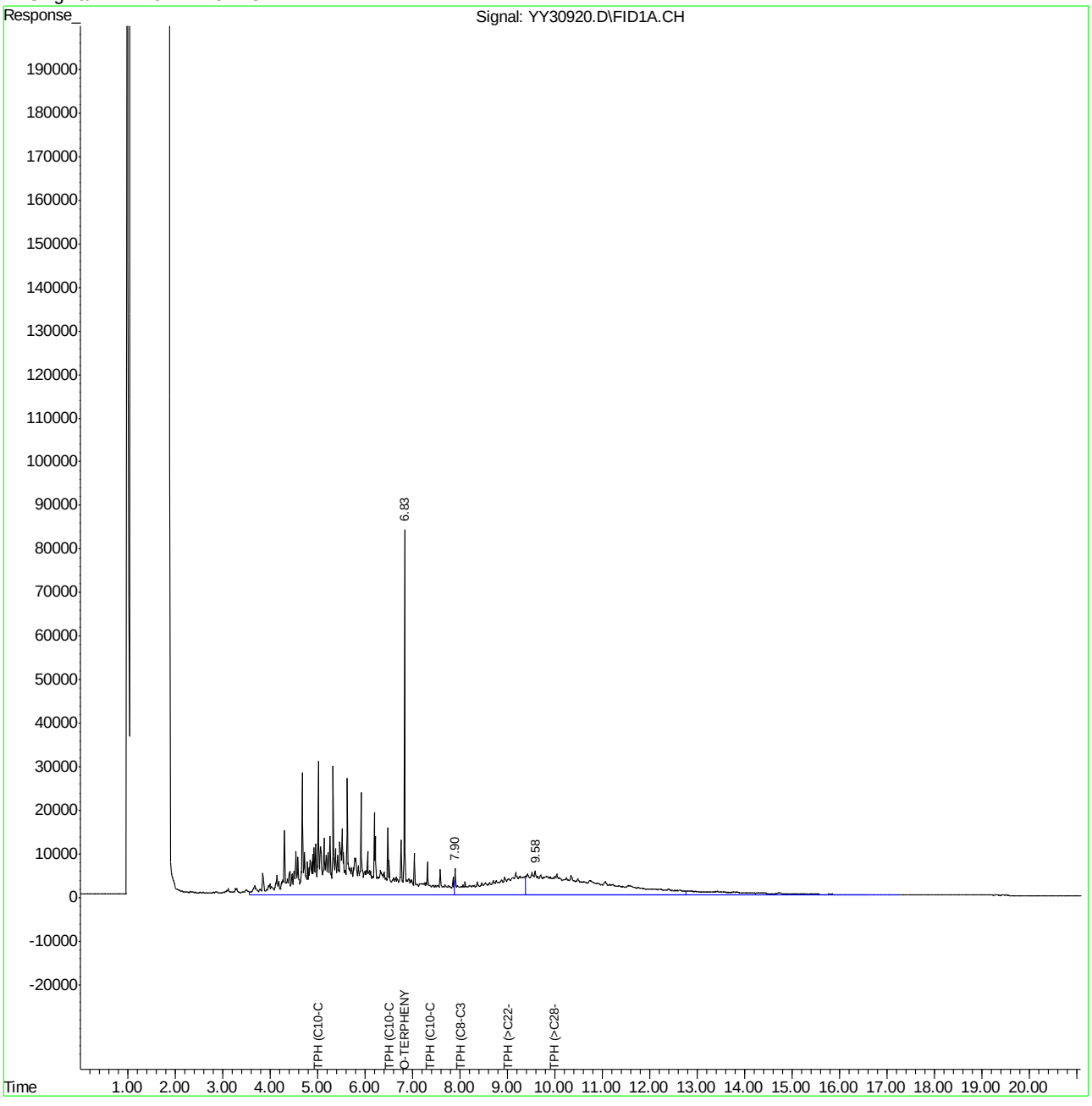
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30920.D FDRO_OIL.M Mon Aug 06 15:09:28 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30920.D Vial: 3
Acq On : 03 Aug 2012 12:15 pm Operator: STEVE
Sample : IC1143-100 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:26 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30920.D FDRO_OIL.M Mon Aug 06 15:09:29 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30920.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 12:15	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.83	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30921.D        Vial: 4
Acq On    : 03 Aug 2012  12:43 pm                     Operator: STEVE
Sample    : IC1143-250                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:16:38 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.83	1440327	13.330	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 26.66%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	34309756	247.548	PPM	
3) H TPH (C10-C22)	5.00	27672441	245.775	PPM	
4) H TPH (>C28-C40)	10.00	16365964	253.246	PPM	
5) H TPH (>C22-C36)	9.00	20488495	254.548	PPM	
6) H TPH (C8-C36)	8.00	49534002	500.831	PPM	
7) H TPH (C10-C40)	7.39	51684075	509.643	PPM	

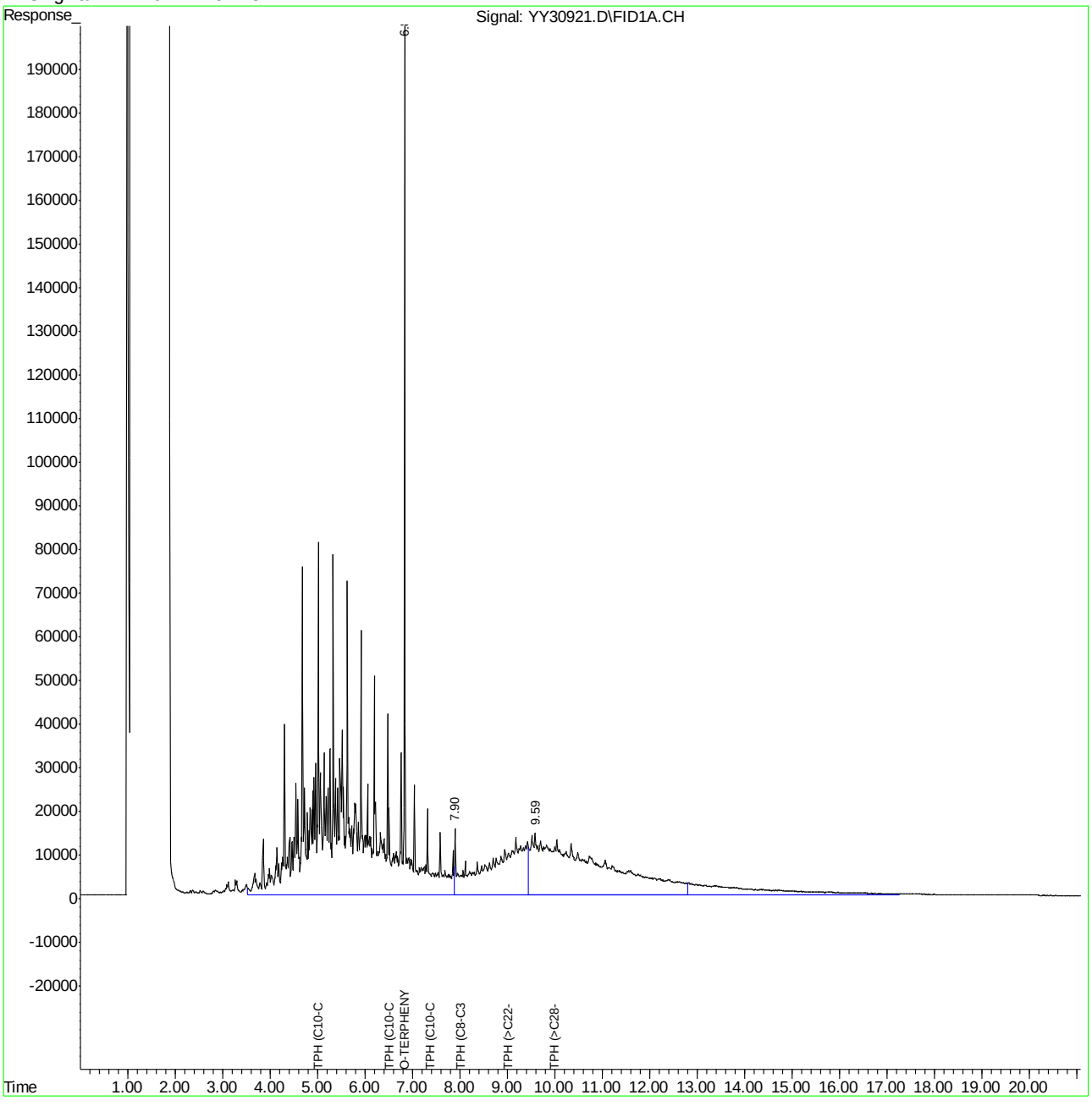
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30921.D FDRO_OIL.M Mon Aug 06 15:09:31 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30921.D Vial: 4
Acq On : 03 Aug 2012 12:43 pm Operator: STEVE
Sample : IC1143-250 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:35 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30921.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 12:43	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.83	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30922.D        Vial: 5
Acq On    : 8-3-12 01:12:03 PM                         Operator: STEVE
Sample    : IC1143-500                                 Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 13:35:29 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	2933835	27.152	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 54.30%					
Target Compounds					
2) H TPH (C10-C28)	6.51	69151682	498.935	PPM	
3) H TPH (C10-C22)	5.00	55432065	492.324	PPM	
4) H TPH (>C28-C40)	10.00	36424788	563.635	PPM	
5) H TPH (>C22-C36)	9.00	42709874	530.625	PPM	
6) H TPH (C8-C36)	8.00	101107951	1022.288	PPM	
7) H TPH (C10-C40)	7.39	107333866	1058.391	PPM	

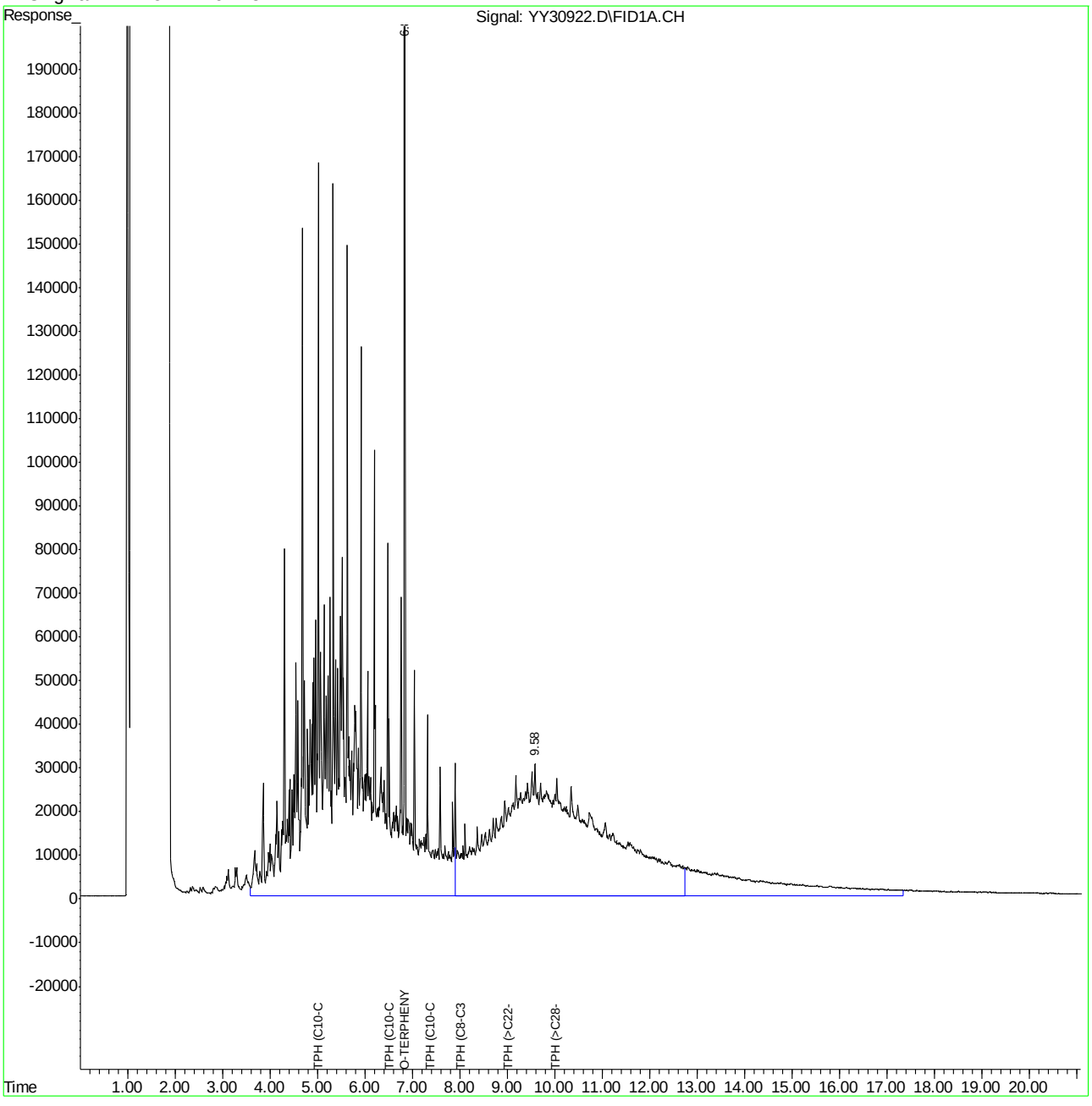
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30922.D Vial: 5
Acq On : 8-3-12 01:12:03 PM Operator: STEVE
Sample : IC1143-500 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 13:43 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30922.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 13:12	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30923.D        Vial: 6
Acq On    : 8-3-12 01:40:13 PM                         Operator: STEVE
Sample    : ICC1143-1000                               Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 14:28:05 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6067889	56.156	PPM	m
Spiked Amount 50.000 Range 42 - 114 Recovery = 112.31%					
Target Compounds					
2) H TPH (C10-C28)	6.51	140955809	1017.008	PPM	
3) H TPH (C10-C22)	5.00	113345986	1006.691	PPM	
4) H TPH (>C28-C40)	10.00	78145522	1209.220	PPM	
5) H TPH (>C22-C36)	9.00	90177297	1120.358	PPM	
6) H TPH (C8-C36)	8.00	208515820	2108.274	PPM	
7) H TPH (C10-C40)	7.39	223248022	2201.389	PPM	

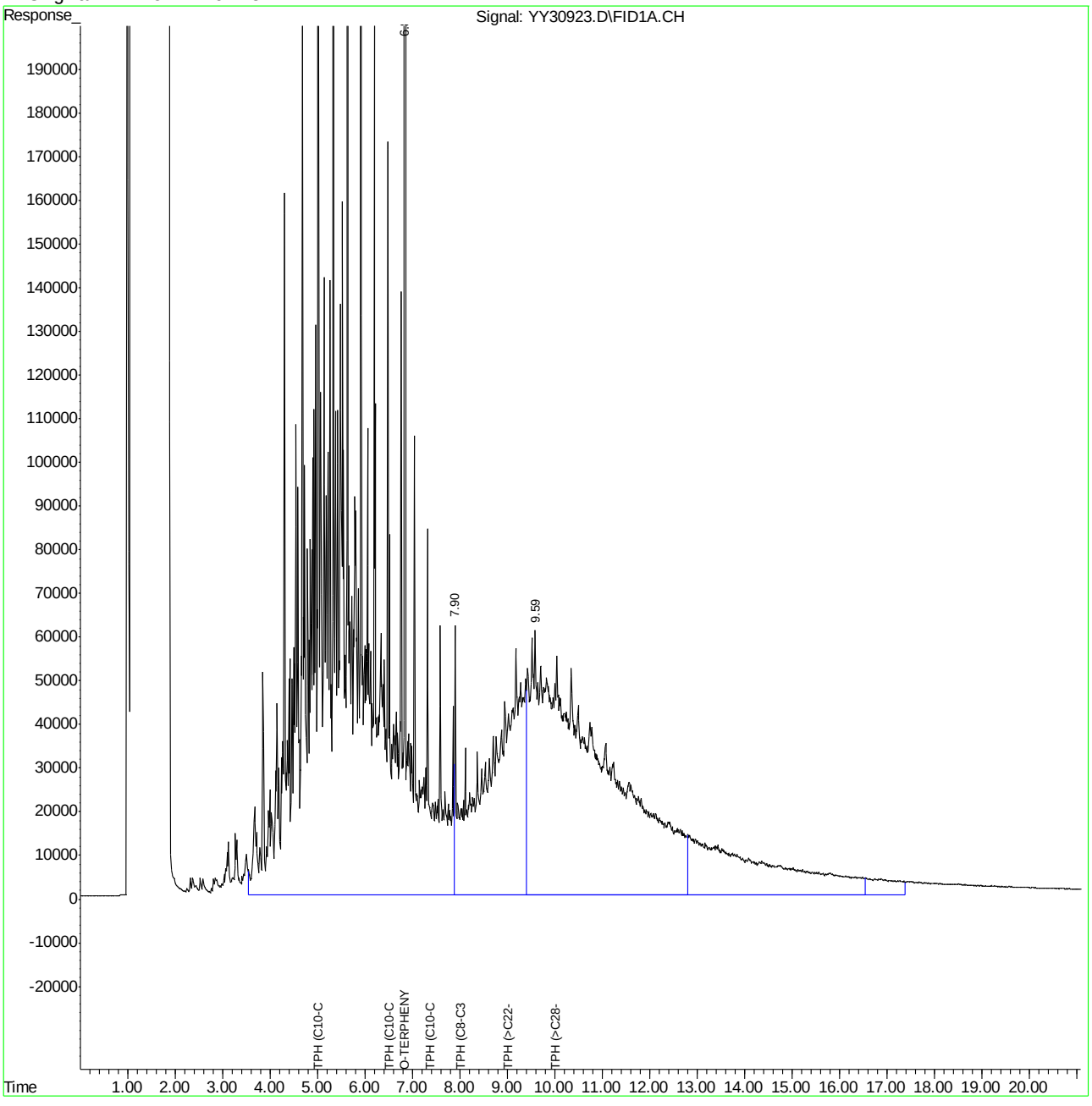
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30923.D FDRO_OIL.M Mon Aug 06 15:09:36 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30923.D Vial: 6
Acq On : 8-3-12 01:40:13 PM Operator: STEVE
Sample : ICC1143-1000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 14:31 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1143-ICC1143	**Method:**	SW846 8015C
Lab FileID:	YY30923.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 13:40	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30924.D        Vial: 7
Acq On    : 8-3-12 02:08:36 PM                         Operator: STEVE
Sample    : IC1143-1500                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:23:09 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	9001339	83.305	PPM	m
Spiked Amount 50.000	Range 42 - 114	Recovery = 166.61%#			
Target Compounds					
2) H TPH (C10-C28)	6.51	209211677	1509.480	PPM	
3) H TPH (C10-C22)	5.00	167898948	1491.207	PPM	
4) H TPH (>C28-C40)	10.00	117139404	1812.609	PPM	
5) H TPH (>C22-C36)	9.00	136832778	1700.004	PPM	
6) H TPH (C8-C36)	8.00	311750001	3152.060	PPM	
7) H TPH (C10-C40)	7.39	335039481	3303.735	PPM	

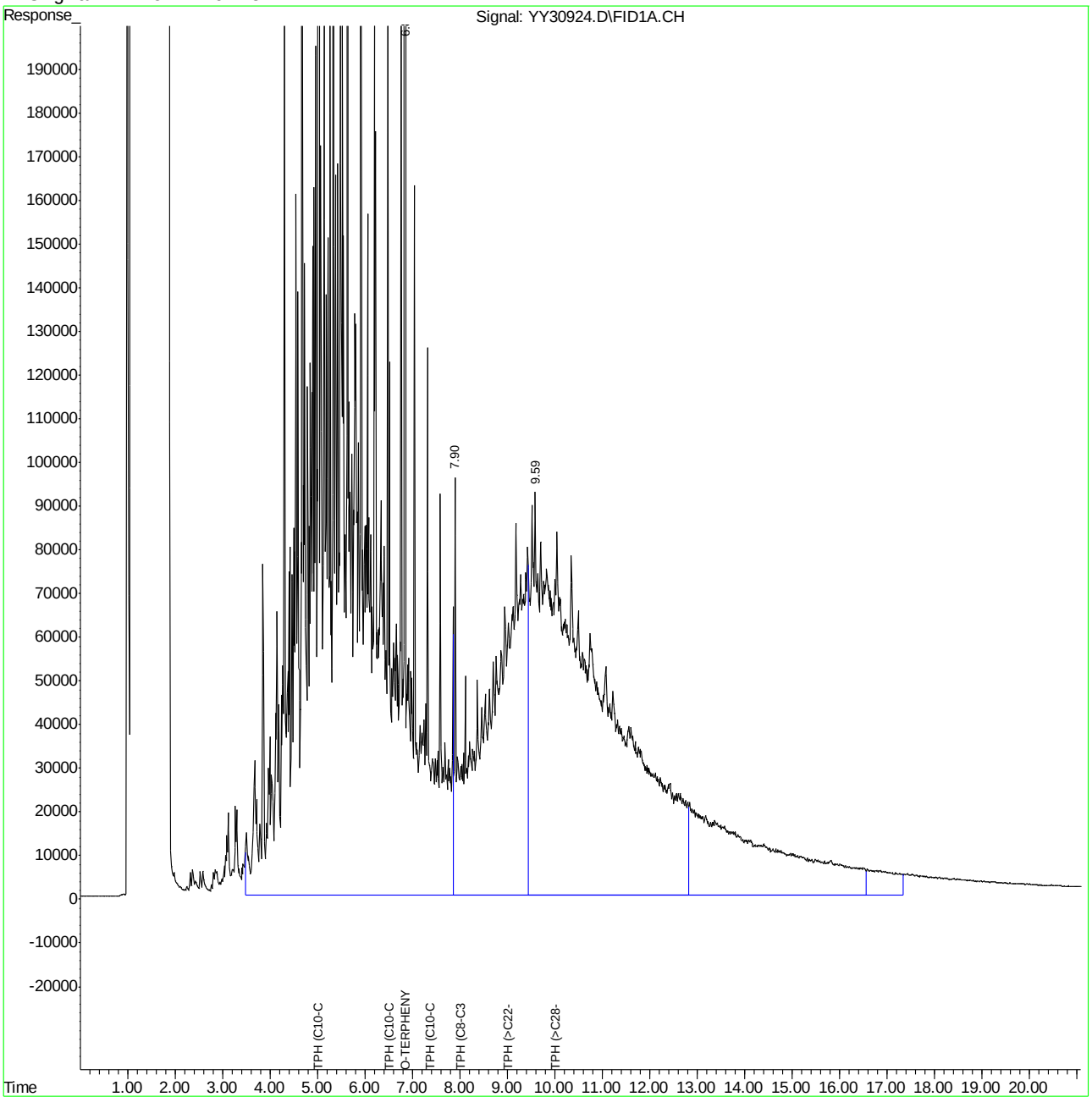
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30924.D FDRO_OIL.M Mon Aug 06 15:09:40 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30924.D Vial: 7
Acq On : 8-3-12 02:08:36 PM Operator: STEVE
Sample : IC1143-1500 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:25 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30924.D FDRO_OIL.M Mon Aug 06 15:09:41 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30924.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 14:08	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
08/07/12 09:27

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30925.D        Vial: 8
Acq On    : 8-3-12 02:36:48 PM                         Operator: STEVE
Sample    : IC1143-2000                                Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:26:14 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 13:13:19 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.85	12561020	116.248	PPM	m
Spiked Amount 50.000	Range 42 - 114	Recovery = 232.50%#			
Target Compounds					
2) H TPH (C10-C28)	6.51	292364638	2109.436	PPM	
3) H TPH (C10-C22)	5.00	235766997	2093.982	PPM	
4) H TPH (>C28-C40)	10.00	164116807	2539.534	PPM	
5) H TPH (>C22-C36)	9.00	192480417	2391.367	PPM	
6) H TPH (C8-C36)	8.00	435852614	4406.844	PPM	
7) H TPH (C10-C40)	7.39	466755900	4602.555	PPM	

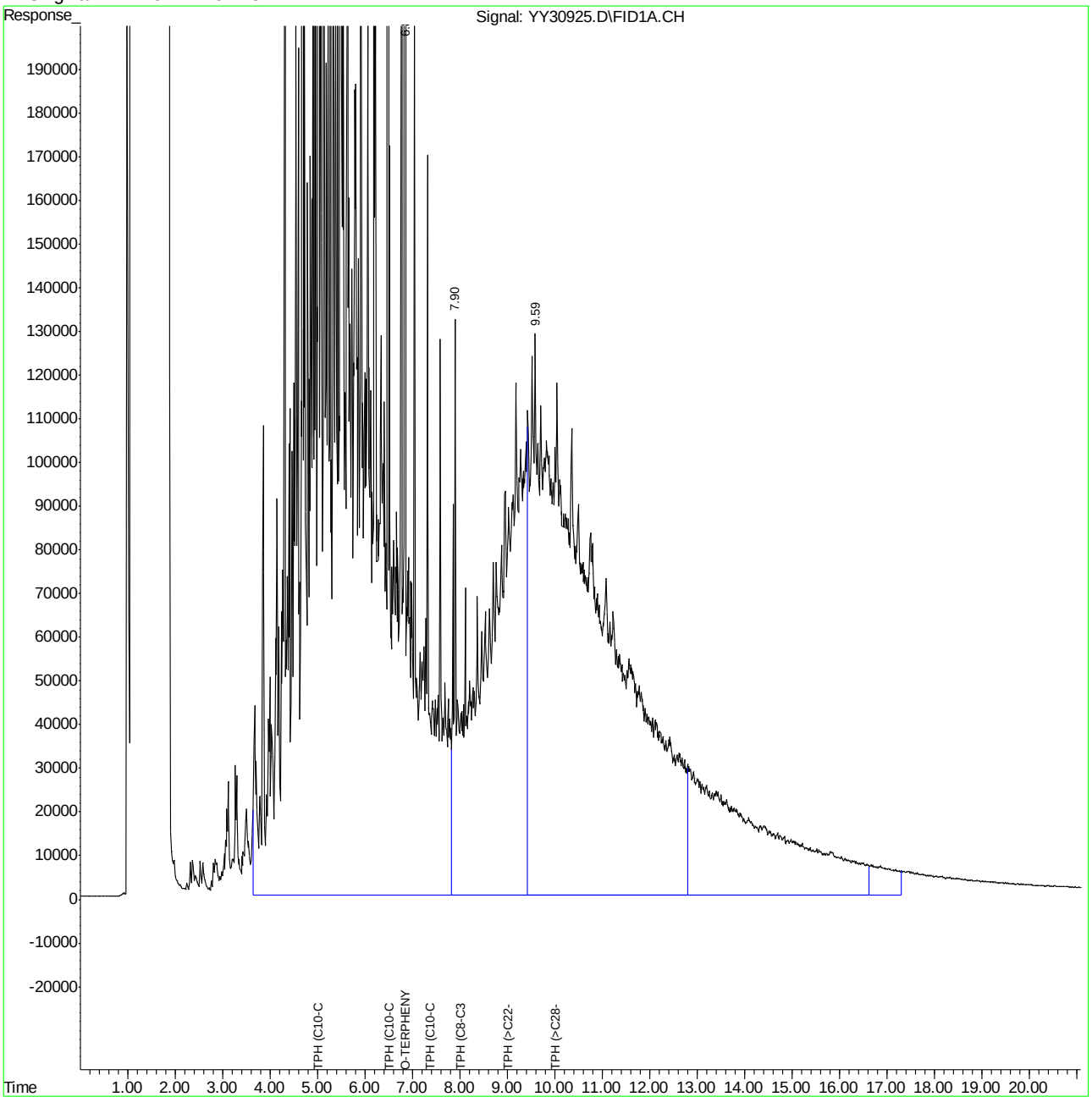
(f)=RT Delta > 1/2 Window (m)=manual int.
YY30925.D FDRO_OIL.M Mon Aug 06 15:09:43 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30925.D Vial: 8
Acq On : 8-3-12 02:36:48 PM Operator: STEVE
Sample : IC1143-2000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:29 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 13:13:19 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY30925.D FDRO_OIL.M Mon Aug 06 15:09:43 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1143-IC1143	**Method:**	SW846 8015C
Lab FileID:	YY30925.D	**Analyst approved:**	08/06/12 16:03 Stephen Lee
Injection Time:	08/03/12 14:36	**Supervisor approved:**	08/07/12 09:27 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.85	Poorly defined baseline

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D       Vial: 9
Acq On    : 8-3-12 03:05:00 PM                        Operator: STEVE
Sample    : ICV1143-1000                              Inst    : FID 5
Misc      : op42817,GYY1143,1040,,,1,1,WATER          Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 03 15:34:16 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S O-TERPHENYL	0.00	0	N.D.	PPM d
Spiked Amount 50.000 Range 42 - 114 Recovery = 0.00%#				
Target Compounds				
2) H TPH (C10-C28)	6.51	148570589	1058.068	PPM
3) H TPH (C10-C22)	5.00	117257690	1036.706	PPM
4) H TPH (>C28-C40)	10.00	75696126	1038.271	PPM
5) H TPH (>C22-C36)	9.00	92625630	1063.187	PPM
6) H TPH (C8-C36)	8.00	219157729	2132.281	PPM
7) H TPH (C10-C40)	7.39	228628283	2103.876	PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

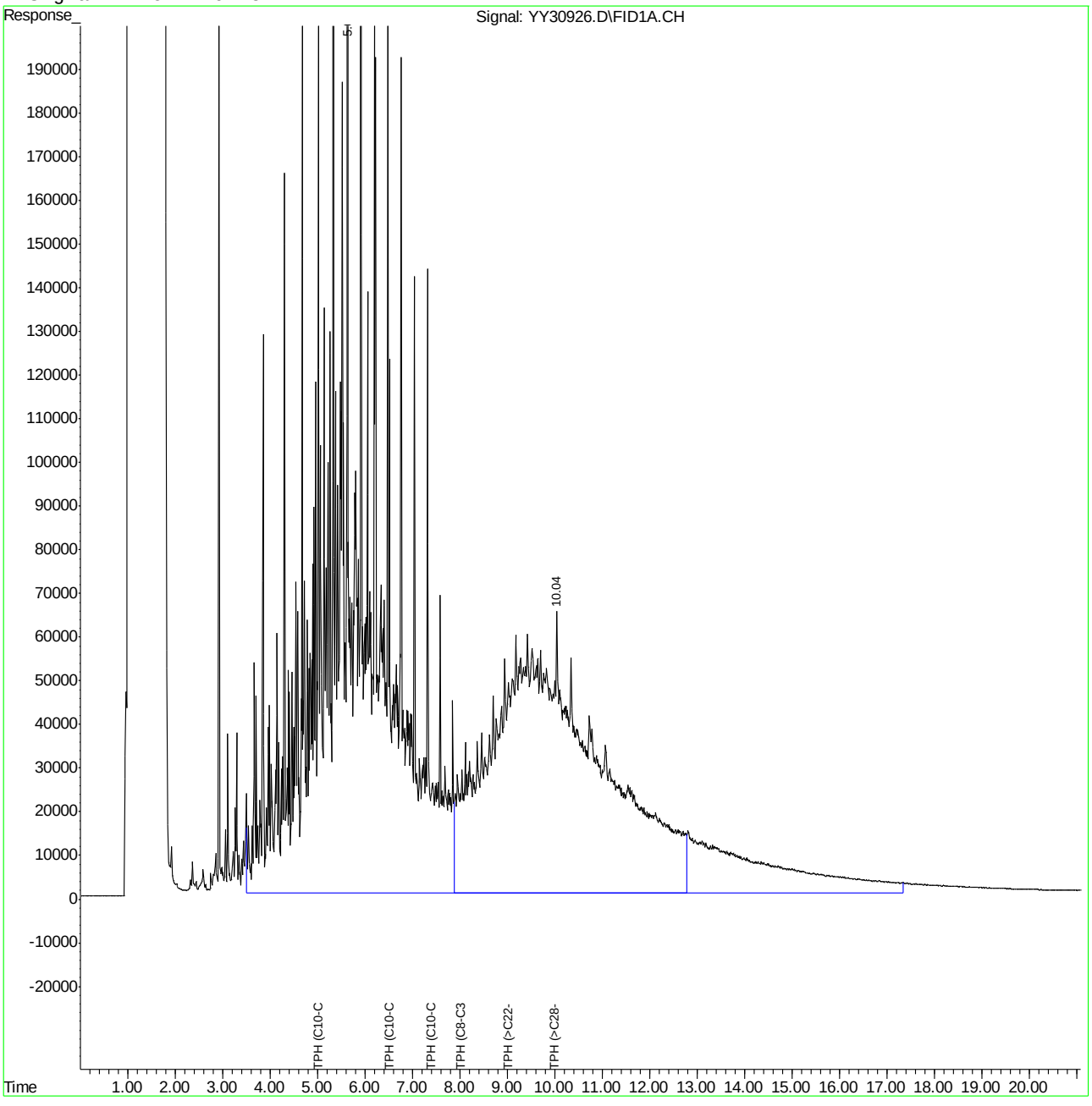
YY30926.D FDRO_OIL.M Mon Aug 06 15:09:45 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0803TPH2.S\YY30926.D Vial: 9
Acq On : 8-3-12 03:05:00 PM Operator: STEVE
Sample : ICV1143-1000 Inst : FID 5
Misc : op42817,GYY1143,1040,,,1,1,WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 3 15:37 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31032.D        Vial: 3
Acq On    : 8-8-12 02:39:28 PM                        Operator: STEVE
Sample    : cc1143-1000                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:03 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6539447	55.136 PPM
Spiked Amount 50.000 Range 49 - 108		Recovery = 110.27%#	
Target Compounds			
2) H TPH (C10-C28)	6.51	146770710	1045.250 PPM
3) H TPH (C10-C22)	5.00	119117461	1053.149 PPM
4) H TPH (>C28-C40)	10.00	75477266	1035.270 PPM
5) H TPH (>C22-C36)	9.00	91778896	1053.468 PPM
6) H TPH (C8-C36)	8.00	215232840	2094.094 PPM
7) H TPH (C10-C40)	7.39	227817461	2096.414 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

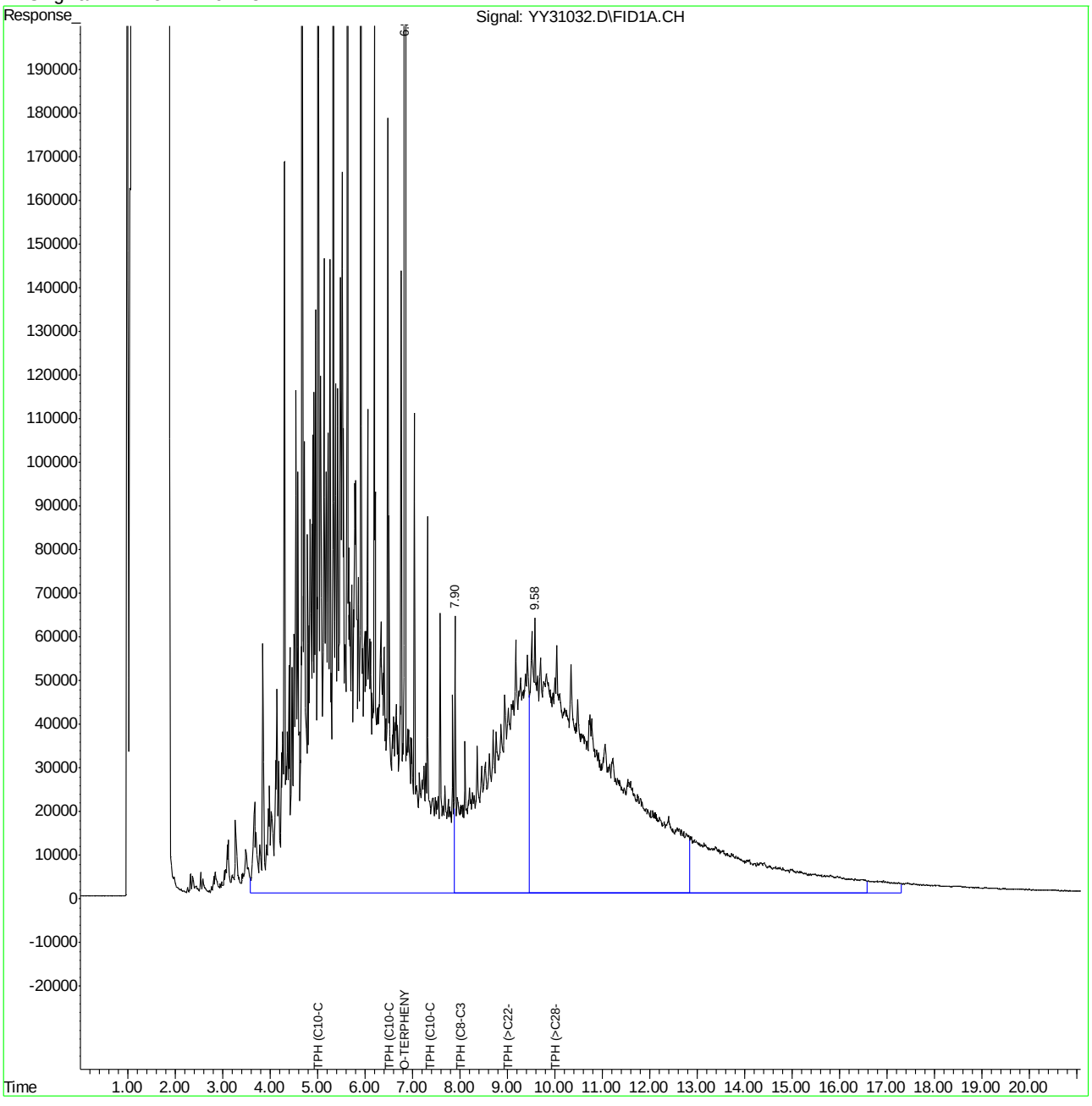
YY31032.D FDRO_OIL.M Fri Aug 10 15:35:53 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31032.D Vial: 3
Acq On : 8-8-12 02:39:28 PM Operator: STEVE
Sample : cc1143-1000 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:29 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31043.D        Vial: 3
Acq On    : 8-8-12 08:27:09 PM                        Operator: STEVE
Sample    : cc1143-1000                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:17:46 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 03 15:33:30 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

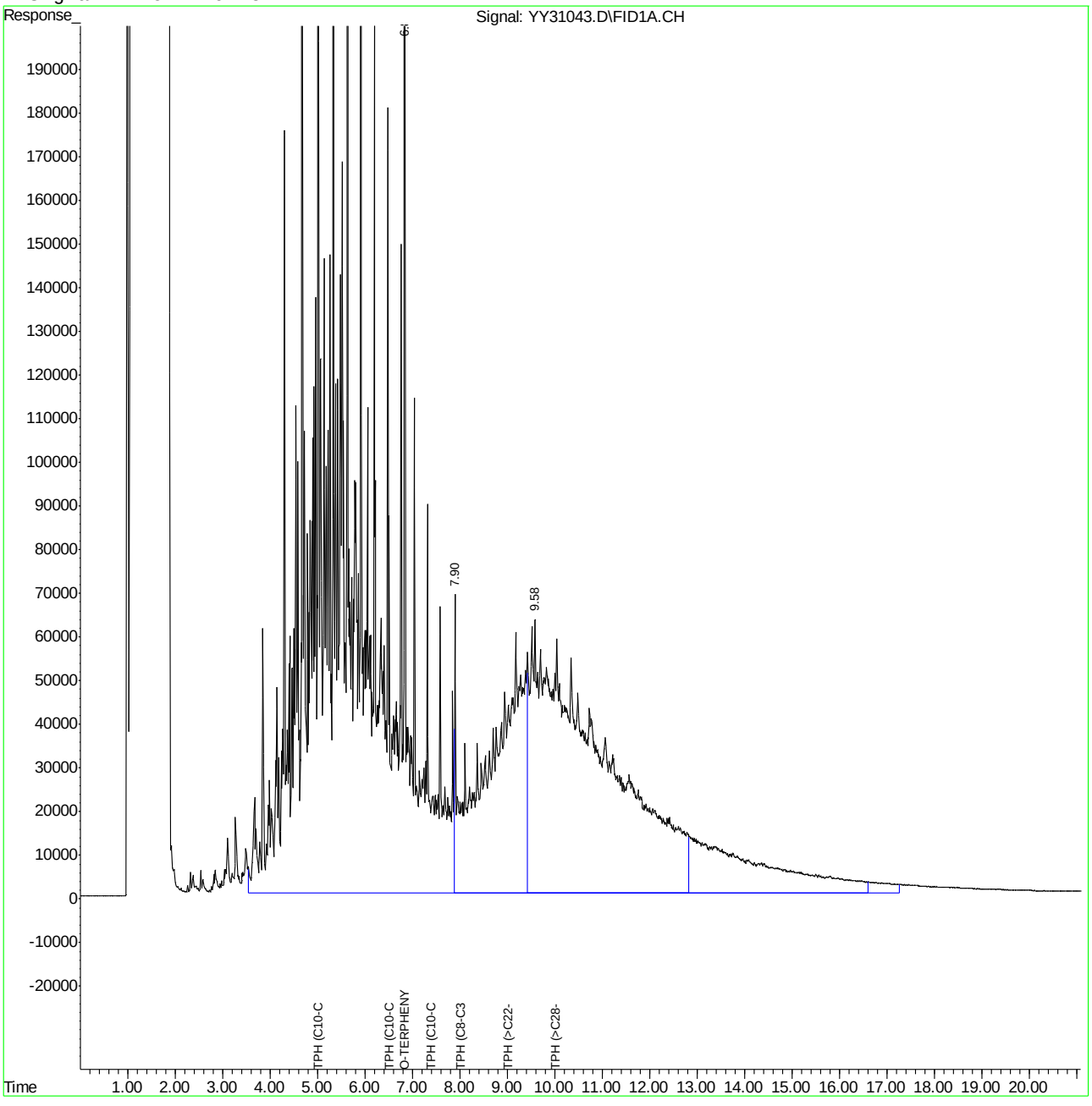
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	6491762	54.734 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 109.47%#			
Target Compounds			
2) H TPH (C10-C28)	6.51	145798733	1038.328 PPM
3) H TPH (C10-C22)	5.00	119828905	1059.439 PPM
4) H TPH (>C28-C40)	10.00	78112056	1071.409 PPM
5) H TPH (>C22-C36)	9.00	93302619	1070.958 PPM
6) H TPH (C8-C36)	8.00	217626967	2117.387 PPM
7) H TPH (C10-C40)	7.39	230174194	2118.101 PPM

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31043.D Vial: 3
Acq On : 8-8-12 08:27:09 PM Operator: STEVE
Sample : cc1143-1000 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 14:51 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 03 15:33:30 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Mark Erstling
08/10/12 17:14

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31054.D        Vial: 3
Acq On    : 8-9-12 01:33:57 AM                         Operator: STEVE
Sample    : cc1143-1000                                Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil            Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:56:25 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	6907108	58.236	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 116.47%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	162872270	1159.920	PPM	
3) H TPH (C10-C22)	5.00	131668457	1164.116	PPM	
4) H TPH (>C28-C40)	10.00	83660725	1147.516	PPM	
5) H TPH (>C22-C36)	9.00	102669424	1178.473	PPM	
6) H TPH (C8-C36)	8.00	236774090	2303.678	PPM	
7) H TPH (C10-C40)	7.39	253238463	2330.343	PPM	

13.6.10
13

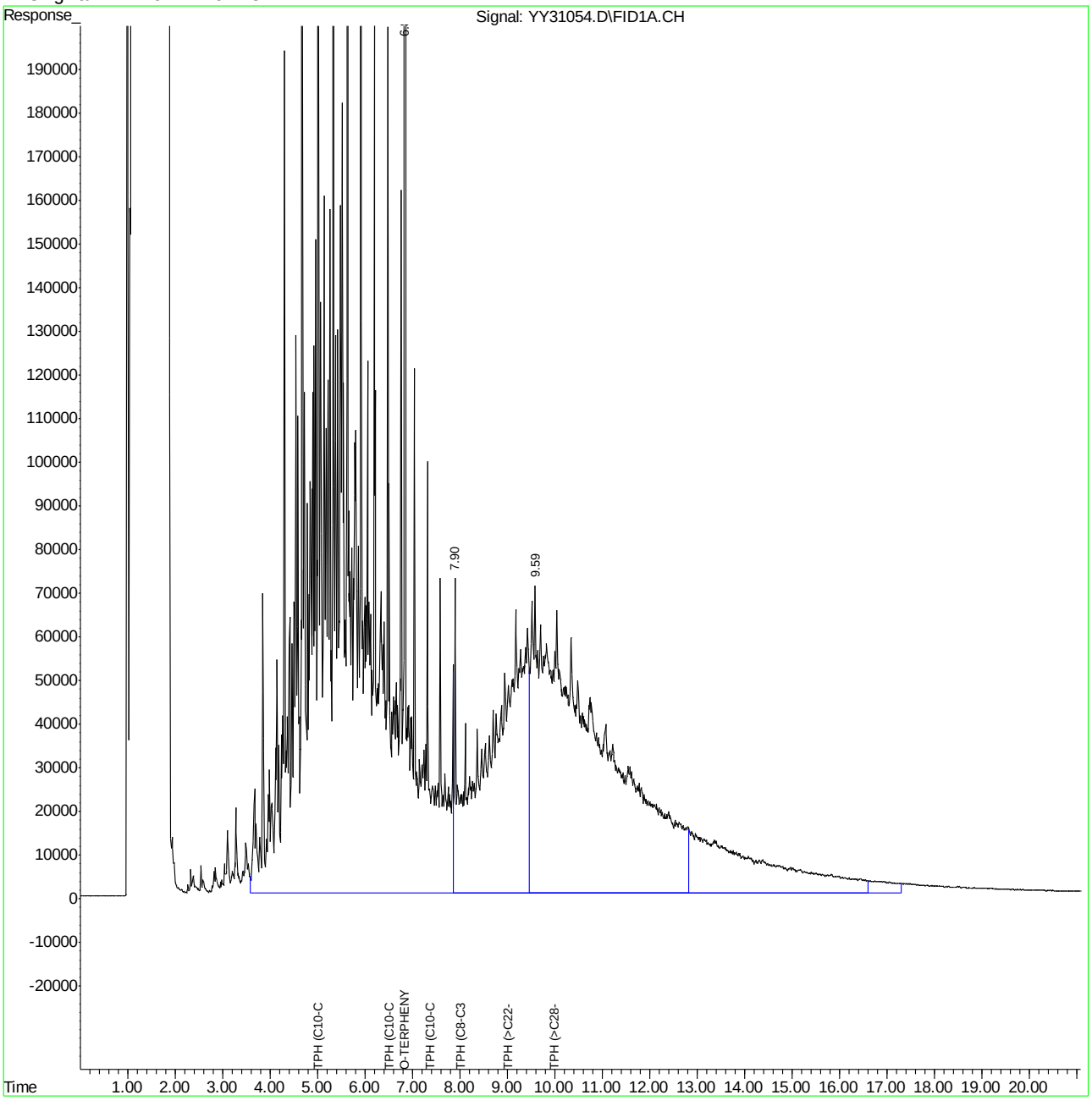
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31054.D Vial: 3
Acq On : 8-9-12 01:33:57 AM Operator: STEVE
Sample : cc1143-1000 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 15:06 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



YY31054.D FDRO_OIL.M Fri Aug 10 15:37:00 2012 Page 2

Manual Integration Approval Summary

Sample Number:	GYY1148-CC1143	**Method:**	SW846 8015C
Lab FileID:	YY31054.D	**Analyst approved:**	08/10/12 16:00 Stephen Lee
Injection Time:	08/09/12 01:33	**Supervisor approved:**	08/10/12 17:14 Mark Erstling

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31063.D        Vial: 34
Acq On    : 8-9-12 05:44:17 AM                        Operator: STEVE
Sample    : ecc1143-500                               Inst    : FID 5
Misc      : op42889,GYY1148,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 14:56:54 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S O-TERPHENYL	6.84	3304775	27.864 PPM
Spiked Amount 50.000 Range 49 - 108 Recovery = 55.73%			
Target Compounds			
2) H TPH (C10-C28)	6.51	76943902	547.968 PPM
3) H TPH (C10-C22)	5.00	62683597	554.202 PPM
4) H TPH (>C28-C40)	10.00	38539507	528.620 PPM
5) H TPH (>C22-C36)	9.00	47034422	539.876 PPM
6) H TPH (C8-C36)	8.00	111153841	1081.464 PPM
7) H TPH (C10-C40)	7.39	118090792	1086.691 PPM

(f)=RT Delta > 1/2 Window (m)=manual int.

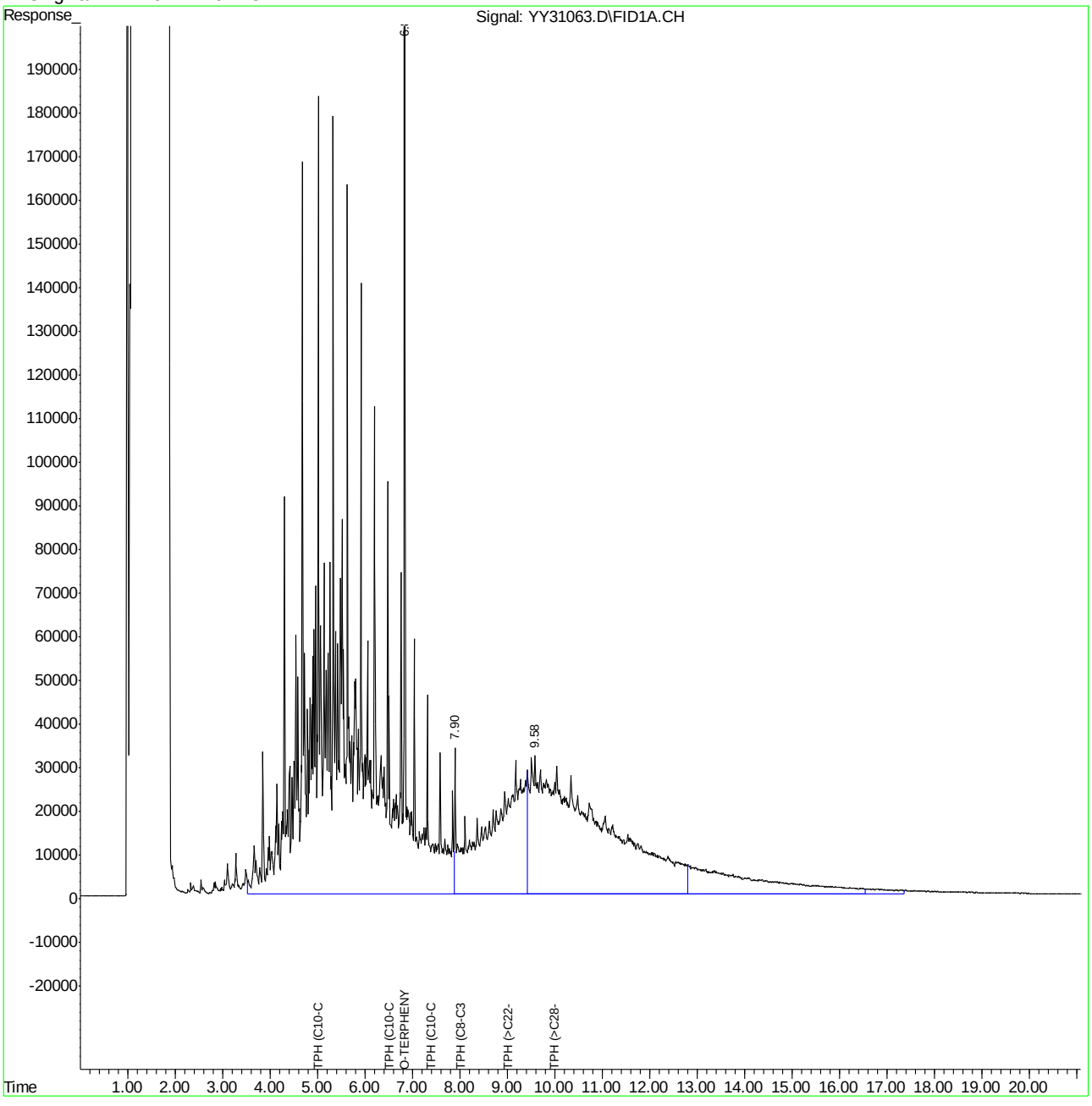
YY31063.D FDRO_OIL.M Fri Aug 10 15:37:27 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31063.D Vial: 34
Acq On : 8-9-12 05:44:17 AM Operator: STEVE
Sample : ecc1143-500 Inst : FID 5
Misc : op42889,GYY1148,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 15:31 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/11/12 11:57

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31074.D        Vial: 3
Acq On    : 09 Aug 2012  11:41 am                     Operator: STEVE
Sample    : cc1143-1000                               Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil           Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 16:23:17 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	7001184	59.030	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 118.06%#					
Target Compounds					
2) H TPH (C10-C28)	6.51	167740335	1194.589	PPM	
3) H TPH (C10-C22)	5.00	135459786	1197.636	PPM	
4) H TPH (>C28-C40)	10.00	85013739	1166.075	PPM	
5) H TPH (>C22-C36)	9.00	103512452	1188.150	PPM	
6) H TPH (C8-C36)	8.00	243640509	2370.484	PPM	
7) H TPH (C10-C40)	7.39	259537225	2388.305	PPM	

13.6.12
13

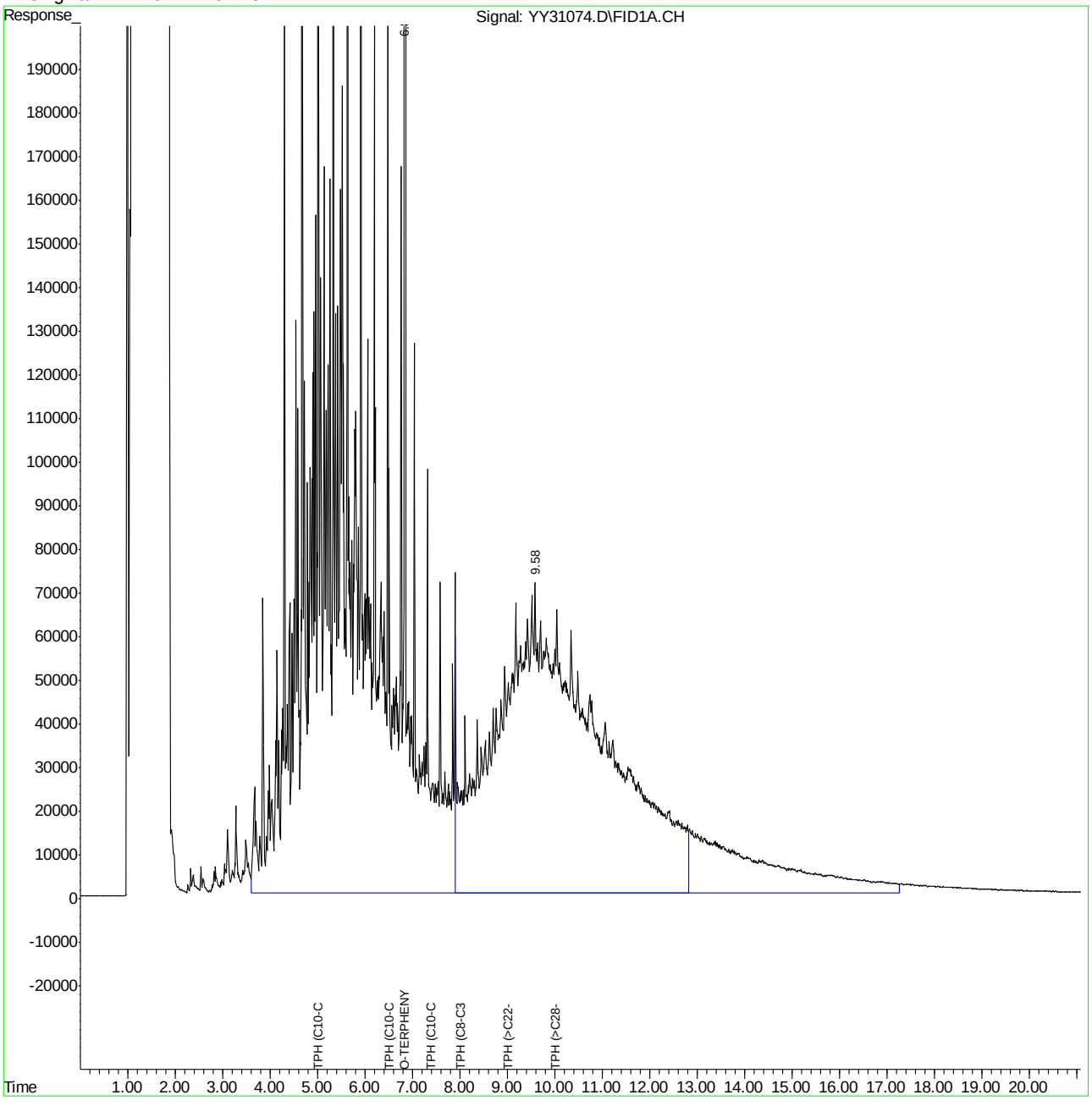
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31074.D Vial: 3
Acq On : 09 Aug 2012 11:41 am Operator: STEVE
Sample : cc1143-1000 Inst : FID 5
Misc : op42889,GYY1149,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 16:33 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1149-CC1143	**Method:**	SW846 8015C
Lab FileID:	YY31074.D	**Analyst approved:**	08/10/12 17:28 Stephen Lee
Injection Time:	08/09/12 11:41	**Supervisor approved:**	08/11/12 11:57 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
08/11/12 11:57

Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31085.D        Vial: 14
Acq On    : 8-9-12 04:54:30 PM                          Operator: STEVE
Sample    : ecc1143-500                                 Inst    : FID 5
Misc      : op42889,GYY1149,30.0,,,1,1,soil             Multiplr: 1.00
IntFile   : events.e
Quant Time: Aug 10 16:23:59 2012  Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title        : TPH by SW846 8015C
Last Update  : Fri Aug 10 14:55:17 2012
Response via : Initial Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj.  : 2.0 ul
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1) S O-TERPHENYL	6.84	3471403	29.269	PPM	m
Spiked Amount 50.000 Range 49 - 108 Recovery = 58.54%					
Target Compounds					
2) H TPH (C10-C28)	6.51	84058055	598.632	PPM	
3) H TPH (C10-C22)	5.00	66826444	590.830	PPM	
4) H TPH (>C28-C40)	10.00	42629155	584.715	PPM	
5) H TPH (>C22-C36)	9.00	51904183	595.773	PPM	
6) H TPH (C8-C36)	8.00	123025297	1196.966	PPM	
7) H TPH (C10-C40)	7.39	129912411	1195.476	PPM	

13.6.13
13

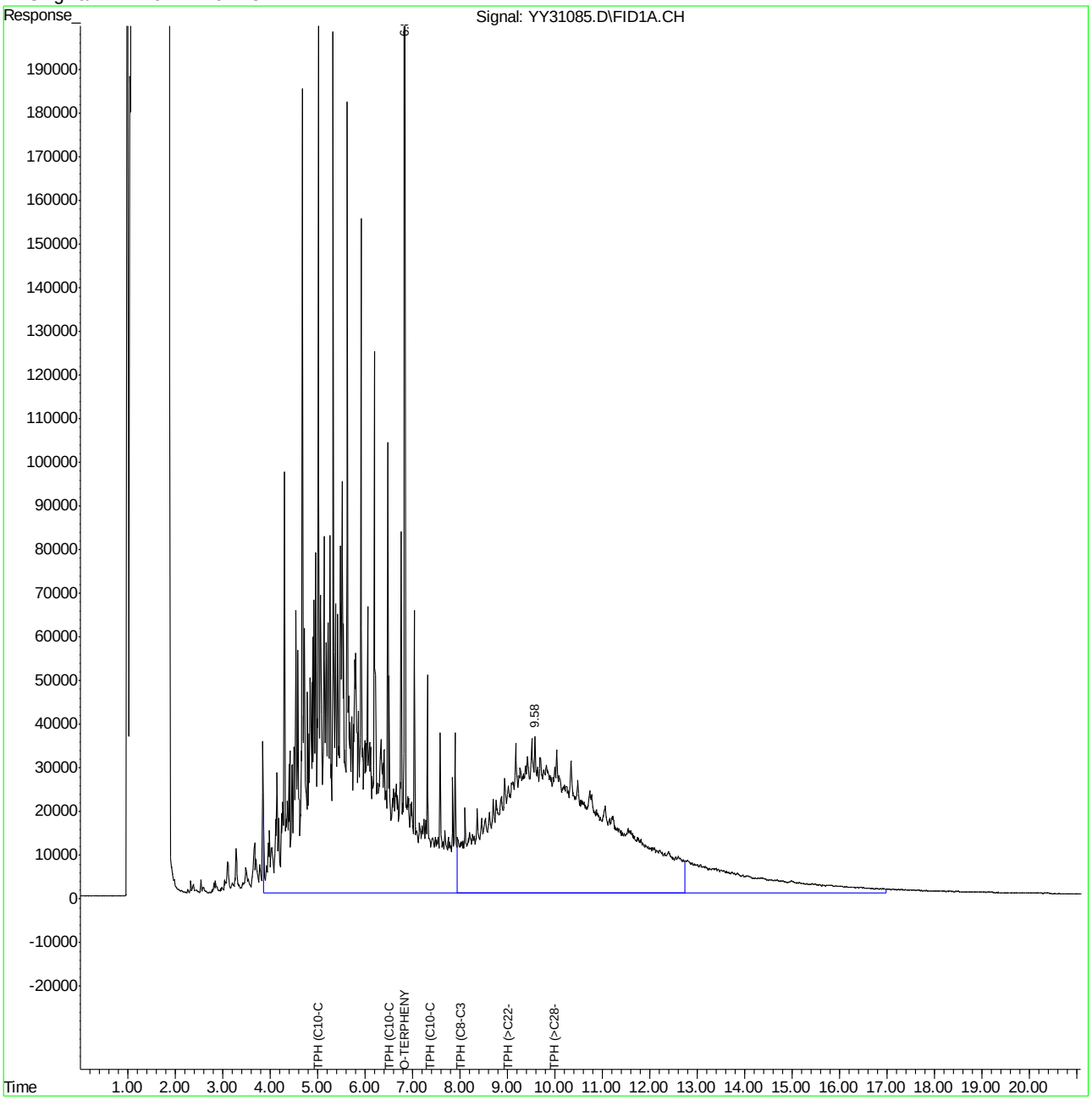
(f)=RT Delta > 1/2 Window (m)=manual int.
YY31085.D FDRO_OIL.M Fri Aug 10 17:20:12 2012

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\0807TPH2.S\YY31085.D Vial: 14
Acq On : 8-9-12 04:54:30 PM Operator: STEVE
Sample : ecc1143-500 Inst : FID 5
Misc : op42889,GYY1149,30.0,,,1,1,soil Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 10 17:10 2012 Quant Results File: FDRO_OIL.RES

Quant Method : C:\MSDCHEM\2\METHODS\FDRO_OIL.M (Chemstation Integrator)
Title : TPH by SW846 8015C
Last Update : Fri Aug 10 14:55:17 2012
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DUAL.M

Volume Inj. : 2.0 ul
Signal Phase : DB-5
Signal Info : 0.25 mm



Manual Integration Approval Summary

Sample Number:	GYY1149-ECC1143	**Method:**	SW846 8015C
Lab FileID:	YY31085.D	**Analyst approved:**	08/10/12 17:28 Stephen Lee
Injection Time:	08/09/12 16:54	**Supervisor approved:**	08/11/12 11:57 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Terphenyl	84-15-1	1	6.84	Poorly defined baseline

ACCUTEST LABORATORIES SE

DATE:	080312
COLUMN TYPE:	DB5
AMOUNT INJECTED:	2 ul
INSTRUMENT: FID5-YY	

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	TPH1001
PROC. METHOD:	FDRO01.M
CALIB. DATE:	~~080312~~ 080312
RUN BATCH: GYY	1143

ANALYST:	SJL
MECL2 LOT #:	K51503
SIGNAL 1 SURR. AREA/CONC:	6067859/50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 30918	1	solvent	ORO	•	1X		DNR
YY 19	2	ct,C8-C40'		S42293	2.5		✓ pass
YY 20	3	IC1143. 100~~00~~		S42289	20X	PII	✓ curve passes
YY 21	4	↓ • 250		↓	8X	↓	↓
YY 22	5	↓ • 500			4X		
YY 23	6	ICC1143 •1000			2X		
YY 24	7	IC1143•1500			3.4		
YY 25	8	↓ •2000		↓	1X	↓	↓
YY 26	9	ICV1143•1000		E4571 a1 E4158 DRO	200 µl 200 µl		✓ pass
YY 27	1	ccb		•	1X		ND
YY 28	10	op42817.bs		42817	↓		✓
YY 29	11	↓ .mb		↓			ND
YY 30	12	f95178•1			↓		✓
YY 31	13	↓ •2			5X		reran 1X
YY 32	14	↓ •3			1X		✓
YY 33	15	op98817•ms			↓		✓
YY 34	16	↓ •msd					✓
YY 35	17	f95178•4					✓
YY 36	18	↓ •5					✓
YY ↓ 37	19	↓ •6	↓	↓	↓		✓

① SJL 080312

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	080312
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORO
ACQ. METHOD:	TPH DUAL
PROC. METHOD:	FDRQal.m
CALIB. DATE:	① SJL 080312
RUN BATCH: GYY	1143

ANALYST:	SJL
MECL2 LOT #:	K515053
SIGNAL 1 SURR. AREA/CONC:	6067889 / 50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 00038	20	F95217.01	ORO	42517	1X		ND
YY 39	21	↓ .02	↓	↓	↓		ND
YY 40	6	CCI143.1000		84289	2X		✓ PASS
YY 41	1	CCD		•	1X		ND
YY 42	22	F95217.03		42517	↓		ND
YY 43	23	.04		↓	↓		✓
YY 44	24	.05		↓	↓		ND
YY 45	25	↓ .06		↓	↓		ND
YY 46	26	F95179.01		↓	↓		✓ PASS ①
YY 47	5	CCI143.500		84289	4X		✓ PASS
YY 48	1	blank		•	1X		DNR
YY ↓ 49	1	↓	↓	•	↓		↓
YY							
YY							
YY				SJL			
YY							
YY				080312			
YY							
YY							
YY							

① SJL 080312

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	080712
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO ORS
ACQ. METHOD:	TPH DUAL
PROC. METHOD:	FDRS01.M
CALIB. DATE:	080812
RUN BATCH: GYY	1148

ANALYST:	SJC
MECL2 LOT #:	K51803
SIGNAL 1 SURR. AREA/CONC:	053947/50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 31031	2	RT, C10-C40	ORO	84803			✓ pass
YY 032	3	cc 1143-1000		S4289			✓ pass
YY 033	4	ccb		—	—		ND
YY 034	10	op42889-bs		op42889	1X	pdb	✓
YY 035	11	op42889-mb					ND
YY 036	12	F95274-1					ND
YY 037	13	F95274-2					ND
YY 038	14	F95274-3					✓
YY 039	15	F95274-4					✓
YY 040	16	F95274-5					ND
YY 041	17	F95274-6					ND
YY 042	18	F95322-1,10			10X		rerun 200X
YY 043	3	cc 1143-1000		S4289			✓ pass
YY 044	4	ccb		—	—		ND
YY 045	19	F95322-2		op42889	1X		rerun 200X
YY 046	20	F95322-3					400X
YY 047	21	F95322-4					500X
YY 048	22	F95322-5					1000X
YY 049	23	F95322-6					1X
YY 050	24	F95322-7					1X

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

Instrument Run Log GYY1148 page 1 of 2
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ACCUTEST LABORATORIES
F95274
13.7.2 13

ACCUTEST LABORATORIES SE

DATE:	080712
COLUMN TYPE:	DB5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8010C DRO ORO
ACQ. METHOD:	TPH DUAL
PROC. METHOD:	FDRO.G.m
CALIB. DATE:	080312
RUN BATCH: GYY	1148

ANALYST:	SJL
MECL2 LOT #:	K51503
SIGNAL 1 SURR. AREA/CONC:	6539447/50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY 31051	25	F95322-8	ORO	op42889	1X		rerun 1X
YY 052	26	F95358-1		↓	1X		✓
YY 053	2	RT, C10-C40		S4363	2.5		✓ pass
YY 054	3	cc1143-1000		S4289	2X	PII	✓ pass
YY 055	4	ccb		—	—		ND
YY 056	27	F95358-2		op42889	1X		✓
YY 057	28	F95360-1					✓
YY 058	29	op42889-ms				pdb	✓
YY 059	30	op42889-msd				pdb	✓
YY 060	31	F95360-2					ND
YY 061	32	F95360-3				pdb	✓
YY 062	33	F95360-4					ND
YY 063	34	ccc1143-500		S4289	4X		✓ pass
YY 064	1	blank		"	1X		blanks required for dual method setup
YY 065	1	blank		"			
YY 066	1	blank		"			
YY to	1	blank	ORO	"			
YY 31071	1	blank	ORO	"	✓		
YY					SJL		
YY					081012		

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: Steve Lee

ACCUTEST LABORATORIES SE

DATE:	080712
COLUMN TYPE:	DB-5
AMOUNT INJECTED:	2 ul
INSTRUMENT:	FID5-YY

GC FID5-YY ANALYSIS LOG

METHODS:	8015C DRO GRO
ACQ. METHOD:	TPH DU01
PROC. METHOD:	FDRO.91.m
CALIB. DATE:	080312
RUN BATCH: GYY	1149

ANALYST:	SJC
MECL2 LOT #:	B15503
SIGNAL 1 SURR. AREA/CONC:	700 11834/50
SIGNAL 2 SURR. AREA/CONC:	

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
YY31072	1	3solventblank	ORO		1X		DNR
YY 73	2	rco-c40		84803	2.5		✓ pass
YY 74	3	cc1143.250		84289	2X	p11	✓ pass
YY 75	4	ccb			1X		ND
YY 76	5	op42889.mb		42889	↓	pdb	ND
YY 77	6	f95322.1			250X		✓
YY 78	7	2			↓		✓
YY 79	8	3			400X		✓
YY 80	9	4			500X		✓
YY 81	10	5			1000X		✓
YY 82	11	6			1X		✓
YY 83	12	7					ND
YY 84	13	8					ND ✓
YY 85	14	cc1143.500		84289	4X	p11	✓ pass
YY 86	1	blank			1X		blanks required
YY to	1				1X		for ~~dual~~ ~~wd~~
YY 93	1				1X		dual method
YY							setup
YY							
YY							

SJC 080712

① 08012 SJC

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

gcfid5_yy_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES F95274

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: CP 07/31/12 18:30pm (mm/dd/yy 24.00)

Prep Method: 3550C 3580A or Method (circle)

Batch#: OP 42889

Analytical Method: 8015DRO

Ext. By: KK, EC Conc. By: KK Vialed By: KK Balance ID: NAV 3

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 42889 MB		30.0	0.5ml		1.0ml	OP 42889
OP 42889 BS		30.0		0.5 0.5ml		
F95274-1	8	30.1				
2	8	29.5				
3	8	29.7				
4	8	30.1				
5	8	29.7				
6	8	30.7				
F95322-1	8	30.1				
2	8	29.8				
3	8	30.0				
4	8	29.5				
5	8	29.9				
6	8	30.1				
7	8	29.6				
8	8	30.2				
F95358-1	5	30.3				
2	5	30.3				
F95360-1	8	29.6				ms/msd
2	8	30.3				
3	8	29.7				
4	8	30.2				
F95360-1 MS	8	29.7		0.5ml		
-1 MSD	8	29.9				
DUP						

Comments:

Surr. ID: E4130-19 Conc: 1000ppm Exp. Date: 01/06/13 Inj. By: KK Ver. By: EC

Spk. ID: E4134 Conc: 2000ppm Exp. Date: 01/09/13 Inj. By: KK Ver. By: EC

E4148 2000ppm 01/13/13

Initial Bath Temp (Therm ID): TV #3

Observed Temp °C: 45 Corr. Temp °C: -

Exchange Bath/N-Evap Temp (Therm ID): -

Observed Temp °C: - Corr. Temp °C: -

CH2CL2 Lot # K35501 Hexane Lot # - Na2SO4 Lot# SS1592

Acetonitrile Lot # - Methanol Lot # - Acetone Lot# -

Syringe Filter Lot# - Reagent # - Reagent # FlorisGel-070552

Copper Lot # - If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: KK Date: 07/31/12

Accepted By: [signature] Date: 08/01/12

NF rev. 08/11 extsolid 081911.xls

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
Analyst: JL
Parameters: Hg

Date Analyzed: 07/31/12
Methods: SW846 7471B
Run ID: MA10000

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:21	MA10000-STD1	1		STD1
12:22	MA10000-STD2	1		STD2
12:24	MA10000-STD3	1		STD3
12:25	MA10000-STD4	1		STD4
12:27	MA10000-STD5	1		STD5
12:29	MA10000-STD6	1		STD6
12:31	MA10000-HSTD1	1		
12:33	MA10000-ICV1	1		
12:36	MA10000-ICB1	1		
12:38	MA10000-CRI1	1		
12:39	MA10000-CCV1	1		
12:40	MA10000-CCB1	1		
12:43	MP23332-MB1	1		
12:44	MP23332-B1	1		
12:45	F95217-1	1		(sample used for QC only; not part of login F95274)
12:47	MP23332-D1	1		
12:48	MP23332-SD1	5		
12:50	MP23332-S1	1		
12:51	MP23332-S2	1		
12:53	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:58	MA10000-CCV2	1		
12:59	MA10000-CCB2	1		
13:01	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:04	F95274-1	1		
13:05	F95274-2	1		
13:06	F95274-3	1		
13:08	F95274-4	1		
13:09	F95274-5	1		
13:10	F95274-6	1		
---------->	Last reportable sample/prep for job F95274			
13:11	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
Analyst: JL
Parameters: Hg

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:13	ZZZZZZ	1		
13:14	MA10000-CCV3	1		
13:15	MA10000-CCB3	1		
13:17	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:25	MA10000-CRI2	1		
13:26	MA10000-CCV4	1		
13:28	MA10000-CCB4	1		

----------> Last reportable CCB for job F95274
Refer to raw data for calibration curve and standards.

14.1
14

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: result < RL

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:			12:36		12:40		12:59		13:15	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.04	-0.023	<1.0	-0.021	<1.0	-0.024	<1.0	-0.026	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA10000 Units: ug/l

Time:			13:28	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Mercury	1.0	.04	-0.024	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

14.1.1
14

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA10000 Units: ug/l

Time:		12:33			12:39			12:58	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV Date Analyzed: 07/31/12 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA10000 Units: ug/l

Time:		13:14			13:26	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: 95 to 105 % Recovery

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:		12:31	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6.0	6.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

14.1.3

14

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40731S1.CSV
QC Limits: 80 to 120 % Recovery

Date Analyzed: 07/31/12
Run ID: MA10000

Methods: SW846 7471B
Units: ug/l

Time:			12:38		13:25	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.20	100.0	0.19	95.0

(*) Outside of QC limits
(anr) Analyte not requested

14.1.4

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV
Date Analyzed: 08/01/12
Methods: SW846 7470A
Analyst: JL
Run ID: MA10003
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:54	MA10003-STD1	1		STD1
11:55	MA10003-STD2	1		STD2
11:56	MA10003-STD3	1		STD3
11:58	MA10003-STD4	1		STD4
12:00	MA10003-STD5	1		STD5
12:02	MA10003-STD6	1		STD6
12:04	MA10003-HSTD1	1		
12:06	MA10003-ICV1	1		
12:08	MA10003-ICB1	1		
12:10	MA10003-CRI1	1		
12:12	MA10003-CCV1	1		
12:13	MA10003-CCB1	1		
12:55	MP23339-MB1	1		
12:56	MP23339-B1	1		
12:57	F95334-1A	1		(sample used for QC only; not part of login F95274)
12:59	MP23339-D1	1		
13:01	MP23339-SD1	5		
13:02	MP23339-S1	1		
13:03	MP23339-S2	1		
13:05	MP23339-MB2	1		
13:07	MP23339-B2	1		
13:09	MP23340-MB1	1		
13:11	MA10003-CCV2	1		
13:12	MA10003-CCB2	1		
13:14	MP23340-B1	1		
13:15	F95335-1	1		(sample used for QC only; not part of login F95274)
13:17	MP23340-D1	1		
13:18	MP23340-SD1	5		
13:20	MP23340-S1	1		
13:21	MP23340-S2	1		
13:23	ZZZZZZ	1		
13:25	F95310-1	1		(sample used for QC only; not part of login F95274)
13:26	F95274-7A	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV
Analyst: JL
Parameters: Hg

Date Analyzed: 08/01/12
Run ID: MA10003

Methods: SW846 7470A

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:28	ZZZZZZ	1		
13:29	MA10003-CCV3	1		
13:30	MA10003-CCB3	1		
13:32	MP23340-MB2	1		
13:33	MP23340-B2	1		
13:35	MP23340-MB3	1		
13:37	MP23340-B3	1		
13:38	MP23340-D2	1		
13:40	MP23340-MB4	1		
13:41	MP23340-B4	1		
---------->	Last reportable sample/prep for job F95274			
13:45	MA10003-CCV4	1		
13:46	MA10003-CCB4	1		
13:51	MA10003-CRI2	1		
13:53	MA10003-CCV5	1		
13:54	MA10003-CCB5	1		
---------->	Last reportable CCB for job F95274			

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV
QC Limits: result < RL

Date Analyzed: 08/01/12
Run ID: MA10003

Methods: SW846 7470A
Units: ug/l

Time:			12:08		12:13		13:12		13:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.04	-0.0094	<1.0	-0.018	<1.0	-0.013	<1.0	-0.016	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV Date Analyzed: 08/01/12 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA10003 Units: ug/l

Time:			13:46		13:54	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	1.0	.04	-0.015	<1.0	-0.014	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

14.2.1
14

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV Date Analyzed: 08/01/12 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10003 Units: ug/l

Time:		12:06			12:12			13:11	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV Date Analyzed: 08/01/12 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA10003 Units: ug/l

Time:		13:29			13:45			13:53	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3	2.9	96.7	3	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

14.2.2
14

HIGH STANDARD CHECK SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV
QC Limits: 95 to 105 % Recovery

Date Analyzed: 08/01/12
Run ID: MA10003

Methods: SW846 7470A
Units: ug/l

Time:		12:04	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.9	98.3

(*) Outside of QC limits
(anr) Analyte not requested

14.2.3

14

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: H40801W1.CSV
QC Limits: 80 to 120 % Recovery

Date Analyzed: 08/01/12
Run ID: MA10003

Methods: SW846 7470A
Units: ug/l

Time:			12:10		13:51	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.20	100.0	0.20	100.0

(*) Outside of QC limits
(anr) Analyte not requested

14.2.4

14

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:13	MA9995-STD1	1		STDA
05:17	MA9995-STD2	1		STDB
05:20	MA9995-STD3	1		STDC
05:23	MA9995-STD4	1		STDD
05:27	MA9995-HSTD1	1		
05:31	MA9995-ICV1	1		
05:36	MA9995-ICB1	1		
05:40	MA9995-CRIA1	1		
05:48	MA9995-ICSA1	1		
05:53	MA9995-ICSAB1	1		
05:57	MA9995-CCV1	1		
06:02	MA9995-CCB1	1		
06:06	MP23311-MB1	1		
06:11	MP23311-B1	1		
06:15	F95217-1	10		(sample used for QC only; not part of login F95274)
06:19	MP23311-D1	10		
06:24	MP23311-SD1	50		
06:28	MP23311-PS1	10		
06:32	MP23311-S1	10		
06:37	MP23311-S2	10		
06:41	ZZZZZZ	10		
06:46	ZZZZZZ	10		
06:50	MA9995-CCV2	1		
06:54	MA9995-CCB2	1		
07:14	MA9995-CCV3	1		
07:18	MA9995-CCB3	1		
07:21	ZZZZZZ	10		
07:26	ZZZZZZ	10		
07:30	ZZZZZZ	10		
07:35	F95274-1	10		
07:40	F95274-2	10		
07:44	F95274-3	10		
07:49	F95274-4	10		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	07:53	F95274-5	10		
	07:58	F95274-6	10		
---------->	Last reportable sample/prep for job F95274				
	08:02	MP23310-MB1	1		
	08:07	MA9995-CCV4	1		
	08:11	MA9995-CCB4	1		
	08:15	MP23310-B1	1		
	08:19	F95220-1	1		(sample used for QC only; not part of login F95274)
	08:24	MP23310-D1	1		
	08:29	MP23310-SD1	5		
	08:33	MP23310-PS1	1		
	08:38	MP23310-S1	1		
	08:43	MP23310-S2	1		
	08:48	ZZZZZZ	1		
	08:57	ZZZZZZ	1		
	09:02	MA9995-CCV5	1		
	09:06	MA9995-CCB5	1		
	09:15	ZZZZZZ	1		
	09:19	ZZZZZZ	1		
	09:24	ZZZZZZ	1		
	09:29	ZZZZZZ	1		
	09:33	ZZZZZZ	1		
	09:38	ZZZZZZ	1		
	09:42	ZZZZZZ	1		
	09:47	ZZZZZZ	1		
	09:51	MP23300-MB1	1		
	09:56	MA9995-CCV6	1		
	10:00	MA9995-CCB6	1		
	10:04	MP23300-B1	1		
	10:08	F95207-1	100		(sample used for QC only; not part of login F95274)
	10:13	MP23300-D1	100		
	10:17	MP23300-S1	100		
	10:22	MP23300-S2	100		
	10:27	MP23300-PS1	100		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:31	MP23300-SD1	500		
10:36	ZZZZZZ	100		
10:40	ZZZZZZ	100		
10:45	ZZZZZZ	2		
10:49	MA9995-CCV7	1		
10:54	MA9995-CCB7	1		
10:58	ZZZZZZ	2		
11:03	ZZZZZZ	100		
11:07	ZZZZZZ	100		
11:12	F95192-1	2		(sample used for QC only; not part of login F95274)
11:16	MP23299-D1	2		
11:21	MP23299-S1	2		
11:25	MP23299-S2	2		
11:30	MP23299-PS1	2		
11:34	MP23299-SD1	10		
11:39	ZZZZZZ	5		
11:43	MA9995-CCV8	1		
11:47	MA9995-CCB8	1		
11:52	MP23312-MB1	1		
11:56	MP23312-B1	1		
12:00	F95294-1	1		(sample used for QC only; not part of login F95274)
12:05	MP23312-D1	1		
12:09	MP23312-SD1	5		
12:13	MP23312-PS1	1		
12:18	MP23312-S1	1		
12:22	MP23312-S2	1		
12:26	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:35	MA9995-CCV9	1		
12:39	MA9995-CCB9	1		
12:44	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:31	MA9995-CCV10	1		
13:35	MA9995-CCB10	1		
13:40	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:13	MP23312-MB2A	1		
14:27	MA9995-CCV11	1		
14:33	MA9995-CCB11	1		
14:37	MA9995-CRIA2	1		
14:44	MA9995-ICSA2	1		
14:51	MA9995-ICSAB2	1		
14:59	MA9995-CCV12	1		
15:10	MA9995-CCB12	1		

----------> Last reportable CCB for job F95274
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:13	MA9995-STD1	2707	22083	9140	1495
05:17	MA9995-STD2	2668	21610	9080	1371
05:20	MA9995-STD3	2521	20544	8840	1204
05:23	MA9995-STD4	2456	20179	8811	1112
05:27	MA9995-HSTD1	2456	20307	8907	1114
05:31	MA9995-ICV1	2561	20751	8988	1218
05:36	MA9995-ICB1	2668 R	21305 R	8964 R	1455 R
05:40	MA9995-CRIA1	2603	20790	8838	1368
05:48	MA9995-ICSA1	2318	18337	8345	978
05:53	MA9995-ICSAB1	2324	18302	8486	967
05:57	MA9995-CCV1	2534	20215	8816	1190
06:02	MA9995-CCB1	2664	21077	8833	1444
06:06	MP23311-MB1	2594	20627	8679	1406
06:11	MP23311-B1	2507	19869	8513	1232
06:15	F95217-1	2578	20314	8846	1160
06:19	MP23311-D1	2624	20764	9127	1188
06:24	MP23311-SD1	2594	20473	8661	1305
06:28	MP23311-PS1	2574	20227	8728	1158
06:32	MP23311-S1	2573	20274	8796	1158
06:37	MP23311-S2	2577	20447	8917	1156
06:41	ZZZZZZ	2573	20273	8805	1165
06:46	ZZZZZZ	2576	20241	8813	1162
06:50	MA9995-CCV2	2451	19367	8343	1157
06:54	MA9995-CCB2	2641	20820	8661	1436
07:14	MA9995-CCV3	2498	19649	8421	1173
07:18	MA9995-CCB3	2682	21085	8714	1450
07:21	ZZZZZZ	2422	19264	8407	1134
07:26	ZZZZZZ	2388	18984	8396	1127
07:30	ZZZZZZ	2534	19981	8710	1170
07:35	F95274-1	2462	19349	8465	1153
07:40	F95274-2	2423	19134	8396	1126
07:44	F95274-3	2469	19540	8518	1177
07:49	F95274-4	2497	19724	8620	1153

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:53	F95274-5	2512	19718	8581	1178
07:58	F95274-6	2429	19276	8343	1147
08:02	MP23310-MB1	2501	19880	8290	1351
08:07	MA9995-CCV4	2501	19806	8470	1171
08:11	MA9995-CCB4	2642	20702	8651	1425
08:15	MP23310-B1	2417	18933	8145	1180
08:19	F95220-1	4306 !	32923 !	14112 !	982
08:24	MP23310-D1	4345 !	33534 !	14391 !	993
08:29	MP23310-SD1	3063	23655	9965	1263
08:33	MP23310-PS1	4246 !	32580 !	13972 !	966
08:38	MP23310-S1	4347 !	33455 !	14238 !	972
08:43	MP23310-S2	4422 !	33955 !	14751 !	940
08:48	ZZZZZZ	5093 !	39286 !	16845 !	1010
08:57	ZZZZZZ	3907 !	29458 !	12615 !	991
09:02	MA9995-CCV5	2533	19863	8463	1185
09:06	MA9995-CCB5	2657	20792	8603	1433
09:15	ZZZZZZ	No results reported for the elements associated with this internal standard.			
09:19	ZZZZZZ	7215 !	54826 !	23913 !	996
09:24	ZZZZZZ	2913	22649	9697	1080
09:29	ZZZZZZ	2840	21501	9136	1166
09:33	ZZZZZZ	4404 !	34203 !	14508 !	963
09:38	ZZZZZZ	8973 !	71004 !	30559 !	996
09:42	ZZZZZZ	3262	24998	10622	1084
09:47	ZZZZZZ	2734	21355	9055	1077
09:51	MP23300-MB1	2676	20942	8634	1440
09:56	MA9995-CCV6	2503	19620	8239	1171
10:00	MA9995-CCB6	2656	20932	8620	1433
10:04	MP23300-B1	2537	19993	8493	1236
10:08	F95207-1	2509	19330	8298	1243
10:13	MP23300-D1	2504	19251	8268	1235
10:17	MP23300-S1	2505	19293	8233	1236
10:22	MP23300-S2	2513	19436	8464	1235
10:27	MP23300-PS1	2509	19346	8368	1237

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:31	MP23300-SD1	2569	19908	8388	1327
10:36	ZZZZZZ	2500	19224	8267	1235
10:40	ZZZZZZ	2495	19152	8174	1234
10:45	ZZZZZZ	2136	16708	7784	960
10:49	MA9995-CCV7	2492	19656	8500	1161
10:54	MA9995-CCB7	2637	20485	8551	1416
10:58	ZZZZZZ	2194	17120	7891	1004
11:03	ZZZZZZ	2478	19132	8224	1225
11:07	ZZZZZZ	2477	19252	8252	1229
11:12	F95192-1	2517	19553	8547	1095
11:16	MP23299-D1	2578	20068	8735	1151
11:21	MP23299-S1	2547	19844	8569	1133
11:25	MP23299-S2	2511	19385	8363	1094
11:30	MP23299-PS1	2538	19676	8534	1102
11:34	MP23299-SD1	2597	20145	8387	1280
11:39	ZZZZZZ	2928	22828	9479	1308
11:43	MA9995-CCV8	2483	19589	8320	1160
11:47	MA9995-CCB8	2608	20613	8425	1415
11:52	MP23312-MB1	2596	20641	8524	1409
11:56	MP23312-B1	2511	19982	8524	1226
12:00	F95294-1	2405	19163	8311	1193
12:05	MP23312-D1	2397	19096	8195	1191
12:09	MP23312-SD1	2537	20240	8414	1328
12:13	MP23312-PS1	2405	19249	8394	1177
12:18	MP23312-S1	2404	19201	8296	1123
12:22	MP23312-S2	2389	19095	8180	1119
12:26	ZZZZZZ	2459	19678	8321	1246
12:31	ZZZZZZ	2460	19882	8454	1247
12:35	MA9995-CCV9	2444	19663	8330	1154
12:39	MA9995-CCB9	2591	20719	8479	1413
12:44	ZZZZZZ	2494	20025	8388	1319
12:48	ZZZZZZ	2383	19167	8245	1197
12:52	ZZZZZZ	1938	15593	7550	853 !

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9995
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:57	ZZZZZZ	2025	16260	7964	910
13:02	ZZZZZZ	1760	14036	7089	742 !
13:07	ZZZZZZ	1749	14096	7221	739 !
13:12	ZZZZZZ	1788	14516	7424	774 !
13:16	ZZZZZZ	1816	14821	7468	792 !
13:21	ZZZZZZ	1895	15642	7627	843 !
13:26	ZZZZZZ	2040	16833	7902	936
13:31	MA9995-CCV10	2389	19718	8578	1147
13:35	MA9995-CCB10	2528	20682	8738	1395
13:40	ZZZZZZ	2036	16801	7850	940
14:04	ZZZZZZ	1855	15557	7784	835 !
14:08	ZZZZZZ	1997	16749	8047	922
14:13	MP23312-MB2A	2462	20527	8679	1365
14:27	MA9995-CCV11	2332	19270	8456	1121
14:33	MA9995-CCB11	2478	20227	8603	1370
14:37	MA9995-CRIA2	2440	19939	8557	1302
14:44	MA9995-ICSA2	2121	17300	7986	910
14:51	MA9995-ICSAB2	2133	17457	8018	906
14:59	MA9995-CCV12	2325	19146	8296	1123
15:10	MA9995-CCB12	2478	20490	8737	1377

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			05:36		06:02		06:54		07:18	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	3.7	<200	8.5	<200	11.3	<200	4.8	<200
Antimony	6.0	1	0.20	<6.0	-0.70	<6.0	-0.80	<6.0	1.4	<6.0
Arsenic	10	1	0.70	<10	1.5	<10	1.0	<10	1.1	<10
Barium	200	1	-0.10	<200	0.20	<200	0.20	<200	0.20	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.20	<4.0	0.20	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.0	<5.0
Calcium	1000	50	1.4	<1000	8.6	<1000	12.3	<1000	4.2	<1000
Chromium	10	1	0.0	<10	0.0	<10	0.30	<10	-0.30	<10
Cobalt	50	1	-0.10	<50	0.0	<50	0.0	<50	0.10	<50
Copper	25	1	0.30	<25	0.70	<25	0.80	<25	-0.10	<25
Iron	300	34	1.7	<300	10.7	<300	6.7	<300	17.7	<300
Lead	5.0	1	0.0	<5.0	-0.10	<5.0	-0.50	<5.0	0.70	<5.0
Magnesium	5000	50	13.1	<5000	23.2	<5000	12.6	<5000	-14	<5000
Manganese	15	1	0.10	<15	0.20	<15	0.30	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	0.20	<40	0.40	<40	0.10	<40	0.30	<40
Potassium	10000	50	16.0	<10000	-3.0	<10000	8.3	<10000	31.3	<10000
Selenium	10	2	-0.30	<10	-1.8	<10	1.3	<10	1.0	<10
Silver	10	1	-0.40	<10	-0.20	<10	-0.20	<10	-0.50	<10
Sodium	10000	750	3.1	<10000	18.1	<10000	29.2	<10000	31.1	<10000
Strontium	10	1								
Thallium	10	1	-0.60	<10	0.20	<10	0.0	<10	2.5	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.10	<50	0.40	<50	0.20	<50
Zinc	20	1	-0.10	<20	0.30	<20	0.40	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			08:11		09:06		10:00		10:54	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-1.5	<200	11.3	<200	11.6	<200	7.2	<200
Antimony	6.0	1	-0.20	<6.0	0.0	<6.0	1.2	<6.0	0.0	<6.0
Arsenic	10	1	-0.80	<10	0.30	<10	0.20	<10	0.0	<10
Barium	200	1	0.20	<200	0.40	<200	0.20	<200	0.50	<200
Beryllium	4.0	.1	0.20	<4.0	0.30	<4.0	0.40	<4.0	0.50	<4.0
Cadmium	5.0	.1	0.10	<5.0	0.30	<5.0	0.30	<5.0	0.40	<5.0
Calcium	1000	50	7.8	<1000	9.1	<1000	10.4	<1000	15.4	<1000
Chromium	10	1	0.0	<10	0.40	<10	0.10	<10	0.50	<10
Cobalt	50	1	0.10	<50	0.20	<50	0.30	<50	0.40	<50
Copper	25	1	0.40	<25	0.50	<25	0.40	<25	0.70	<25
Iron	300	34	15.3	<300	19.3	<300	21.8	<300	22.4	<300
Lead	5.0	1	0.50	<5.0	0.60	<5.0	1.0	<5.0	0.60	<5.0
Magnesium	5000	50	3.9	<5000	6.7	<5000	14.8	<5000	11.4	<5000
Manganese	15	1	0.20	<15	0.40	<15	0.40	<15	0.50	<15
Molybdenum	50	1								
Nickel	40	1	0.40	<40	0.50	<40	0.60	<40	0.60	<40
Potassium	10000	50	9.2	<10000	67.9	<10000	16.4	<10000	102	<10000
Selenium	10	2	2.7	<10	2.9	<10	4.0	<10	1.6	<10
Silver	10	1	-0.10	<10	0.10	<10	0.20	<10	-0.10	<10
Sodium	10000	750	18.7	<10000	21.5	<10000	19.6	<10000	124	<10000
Strontium	10	1								
Thallium	10	1	1.5	<10	2.6	<10	2.2	<10	1.4	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.50	<50	0.80	<50	0.60	<50	0.50	<50
Zinc	20	1	0.50	<20	0.80	<20	0.80	<20	0.70	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			11:47		12:39		13:35		14:33	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-7.6	<200	-5.5	<200	-11	<200	-0.90	<200
Antimony	6.0	1	-0.10	<6.0	0.50	<6.0	-0.20	<6.0	0.30	<6.0
Arsenic	10	1	-1.9	<10	-0.40	<10	-1.2	<10	0.30	<10
Barium	200	1	-0.30	<200	-0.10	<200	0.0	<200	0.10	<200
Beryllium	4.0	.1	-0.10	<4.0	0.0	<4.0	0.10	<4.0	0.20	<4.0
Cadmium	5.0	.1	-0.10	<5.0	-0.10	<5.0	-0.10	<5.0	0.20	<5.0
Calcium	1000	50	-1.6	<1000	-2.4	<1000	5.6	<1000	7.7	<1000
Chromium	10	1	0.10	<10	0.0	<10	0.0	<10	0.30	<10
Cobalt	50	1	-0.30	<50	-0.20	<50	-0.10	<50	0.20	<50
Copper	25	1	-0.10	<25	-0.10	<25	-0.10	<25	0.20	<25
Iron	300	34	7.5	<300	10.1	<300	14.2	<300	12.5	<300
Lead	5.0	1	-0.40	<5.0	0.70	<5.0	0.0	<5.0	0.50	<5.0
Magnesium	5000	50	-4.0	<5000	-1.9	<5000	10.5	<5000	1.6	<5000
Manganese	15	1	-0.10	<15	-0.10	<15	0.0	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	0.10	<40	0.20	<40	0.10	<40	0.30	<40
Potassium	10000	50	13.9	<10000	21.4	<10000	18.6	<10000	-4.8	<10000
Selenium	10	2	0.80	<10	1.3	<10	1.4	<10	1.8	<10
Silver	10	1	-0.10	<10	0.20	<10	0.10	<10	-0.40	<10
Sodium	10000	750	22.8	<10000	26.8	<10000	186	<10000	127	<10000
Strontium	10	1								
Thallium	10	1	1.9	<10	1.7	<10	2.2	<10	1.5	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.20	<50	0.0	<50	0.20	<50
Zinc	20	1	0.0	<20	0.10	<20	0.20	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9995 Units: ug/l

Time:			15:10	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	20	2.1	<200
Antimony	6.0	1	0.30	<6.0
Arsenic	10	1	-0.70	<10
Barium	200	1	0.20	<200
Beryllium	4.0	.1	0.30	<4.0
Cadmium	5.0	.1	0.20	<5.0
Calcium	1000	50	8.1	<1000
Chromium	10	1	0.20	<10
Cobalt	50	1	0.40	<50
Copper	25	1	0.20	<25
Iron	300	34	11.9	<300
Lead	5.0	1	0.70	<5.0
Magnesium	5000	50	17.8	<5000
Manganese	15	1	0.30	<15
Molybdenum	50	1		
Nickel	40	1	0.40	<40
Potassium	10000	50	-12	<10000
Selenium	10	2	0.50	<10
Silver	10	1	0.0	<10
Sodium	10000	750	62.9	<10000
Strontium	10	1		
Thallium	10	1	1.7	<10
Tin	50	1		
Titanium	10	1.1		
Vanadium	50	1	0.30	<50
Zinc	20	1	0.50	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		05:31			05:57			06:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39200	98.0	40000	39500	98.8	40000	41400	103.5
Antimony	2000	1950	97.5	2000	1990	99.5	2000	2070	103.5
Arsenic	2000	1940	97.0	2000	1990	99.5	2000	2070	103.5
Barium	2000	2090	104.5	2000	2070	103.5	2000	2180	109.0
Beryllium	2000	2030	101.5	2000	2040	102.0	2000	2150	107.5
Cadmium	2000	1990	99.5	2000	2020	101.0	2000	2100	105.0
Calcium	40000	40400	101.0	40000	40400	101.0	40000	42300	105.8
Chromium	2000	2000	100.0	2000	2040	102.0	2000	2140	107.0
Cobalt	2000	2000	100.0	2000	2000	100.0	2000	2070	103.5
Copper	2000	2000	100.0	2000	2050	102.5	2000	2160	108.0
Iron	40000	40600	101.5	40000	39600	99.0	40000	41700	104.3
Lead	2000	1950	97.5	2000	2010	100.5	2000	2090	104.5
Magnesium	40000	39800	99.5	40000	40200	100.5	40000	42600	106.5
Manganese	2000	2000	100.0	2000	2070	103.5	2000	2180	109.0
Molybdenum									
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2110	105.5
Potassium	40000	40400	101.0	40000	40400	101.0	40000	42200	105.5
Selenium	2000	1990	99.5	2000	1990	99.5	2000	2070	103.5
Silver	250	246	98.4	250	247	98.8	250	258	103.2
Sodium	40000	40900	102.3	40000	40300	100.8	40000	42100	105.3
Strontium									
Thallium	2000	2060	103.0	2000	2040	102.0	2000	2110	105.5
Tin									
Titanium									
Vanadium	2000	2020	101.0	2000	2130	106.5			
Zinc	2000	2010	100.5	2000	2030	101.5	2000	2110	105.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		07:14			08:07			09:02	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40500	101.3	40000	40300	100.8
Antimony	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Barium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Beryllium	2000	2060	103.0	2000	2080	104.0	2000	2080	104.0
Cadmium	2000	2030	101.5	2000	2060	103.0	2000	2050	102.5
Calcium	40000	40600	101.5	40000	41300	103.3	40000	41200	103.0
Chromium	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Cobalt	2000	2030	101.5	2000	2050	102.5	2000	2040	102.0
Copper	2000	2010	100.5	2000	2030	101.5	2000	2040	102.0
Iron	40000	40400	101.0	40000	40600	101.5	40000	40400	101.0
Lead	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Magnesium	40000	40500	101.3	40000	41000	102.5	40000	41100	102.8
Manganese	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Molybdenum									
Nickel	2000	2030	101.5	2000	2060	103.0	2000	2050	102.5
Potassium	40000	40300	100.8	40000	40700	101.8	40000	40800	102.0
Selenium	2000	2010	100.5	2000	2030	101.5	2000	2010	100.5
Silver	250	252	100.8	250	254	101.6	250	254	101.6
Sodium	40000	40300	100.8	40000	40700	101.8	40000	40700	101.8
Strontium									
Thallium	2000	2010	100.5	2000	2040	102.0	2000	2040	102.0
Tin									
Titanium									
Vanadium	2000	2100	105.0	2000	2130	106.5	2000	2130	106.5
Zinc	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		09:56			10:49			11:43	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40900	102.3	40000	40000	100.0	40000	40900	102.3
Antimony	2000	2040	102.0	2000	2030	101.5	2000	2050	102.5
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	2050	102.5
Barium	2000	2100	105.0	2000	2060	103.0	2000	2080	104.0
Beryllium	2000	2090	104.5	2000	2060	103.0	2000	2090	104.5
Cadmium	2000	2070	103.5	2000	2060	103.0	2000	2080	104.0
Calcium	40000	41400	103.5	40000	40800	102.0	40000	41500	103.8
Chromium	2000	2090	104.5	2000	2050	102.5	2000	2090	104.5
Cobalt	2000	2060	103.0	2000	2040	102.0	2000	2070	103.5
Copper	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Iron	40000	40800	102.0	40000	39700	99.3	40000	40500	101.3
Lead	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Magnesium	40000	41300	103.3	40000	40300	100.8	40000	41100	102.8
Manganese	2000	2100	105.0	2000	2050	102.5	2000	2100	105.0
Molybdenum									
Nickel	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Potassium	40000	41100	102.8	40000	41000	102.5	40000	41300	103.3
Selenium	2000	2030	101.5	2000	2030	101.5	2000	2050	102.5
Silver	250	256	102.4	250	252	100.8	250	255	102.0
Sodium	40000	41100	102.8	40000	40100	100.3	40000	41200	103.0
Strontium									
Thallium	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Tin									
Titanium									
Vanadium	2000	2150	107.5	2000	2140	107.0	2000	2160	108.0
Zinc	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		12:35			13:31			14:27	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41200	103.0	40000	41300	103.3	40000	42400	106.0
Antimony	2000	2080	104.0	2000	2120	106.0	2000	2160	108.0
Arsenic	2000	2090	104.5	2000	2100	105.0	2000	2140	107.0
Barium	2000	2070	103.5	2000	2080	104.0	2000	2160	108.0
Beryllium	2000	2100	105.0	2000	2060	103.0	2000	2080	104.0
Cadmium	2000	2120	106.0	2000	2110	105.5	2000	2130	106.5
Calcium	40000	41700	104.3	40000	40200	100.5	40000	40300	100.8
Chromium	2000	2090	104.5	2000	2050	102.5	2000	2070	103.5
Cobalt	2000	2120	106.0	2000	2130	106.5	2000	2160	108.0
Copper	2000	2060	103.0	2000	2060	103.0	2000	2110	105.5
Iron	40000	40700	101.8	40000	39200	98.0	40000	39300	98.3
Lead	2000	2060	103.0	2000	2020	101.0	2000	2050	102.5
Magnesium	40000	40900	102.3	40000	39000	97.5	40000	38800	97.0
Manganese	2000	2070	103.5	2000	2030	101.5	2000	2060	103.0
Molybdenum									
Nickel	2000	2120	106.0	2000	2120	106.0	2000	2150	107.5
Potassium	40000	41600	104.0	40000	42000	105.0	40000	43400	108.5
Selenium	2000	2090	104.5	2000	2130	106.5	2000	2160	108.0
Silver	250	260	104.0	250	256	102.4	250	262	104.8
Sodium	40000	41600	104.0	40000	40500	101.3	40000	43100	107.8
Strontium									
Thallium	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5
Tin									
Titanium									
Vanadium	2000	2150	107.5	2000	2130	106.5	2000	2160	108.0
Zinc	2000	2110	105.5	2000	2070	103.5	2000	2080	104.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9995 Units: ug/l

Time:		14:59	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	42600	106.5
Antimony	2000	2150	107.5
Arsenic	2000	2140	107.0
Barium	2000	2190	109.5
Beryllium	2000	2080	104.0
Cadmium	2000	2130	106.5
Calcium	40000	40100	100.3
Chromium	2000	2070	103.5
Cobalt	2000	2160	108.0
Copper	2000	2090	104.5
Iron	40000	39500	98.8
Lead	2000	2030	101.5
Magnesium	40000	39100	97.8
Manganese	2000	2080	104.0
Molybdenum			
Nickel	2000	2140	107.0
Potassium	40000	43100	107.8
Selenium	2000	2160	108.0
Silver	250	260	104.0
Sodium	40000	43100	107.8
Strontium			
Thallium	2000	2070	103.5
Tin			
Titanium			
Vanadium	2000	2130	106.5
Zinc	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9995 Units: ug/l

Time:		05:27	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79000	98.8
Antimony	4000	4000	100.0
Arsenic	4000	4010	100.3
Barium	4000	3920	98.0
Beryllium	4000	3950	98.8
Cadmium	4000	3950	98.8
Calcium	80000	79300	99.1
Chromium	4000	3920	98.0
Cobalt	4000	3940	98.5
Copper	4000	3990	99.8
Iron	80000	78600	98.3
Lead	4000	4020	100.5
Magnesium	80000	79400	99.3
Manganese	4000	3880	97.0
Molybdenum			
Nickel	4000	3950	98.8
Potassium	80000	80200	100.3
Selenium	4000	3990	99.8
Silver	500	499	99.8
Sodium	80000	80200	100.3
Strontium			
Thallium	4000	4000	100.0
Tin			
Titanium			
Vanadium	4000	3900	97.5
Zinc	4000	3970	99.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9995 Units: ug/l

Time:			05:40		14:37	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	220	110.0	209	104.5
Antimony	10	5.0	5.4	108.0	5.8	116.0
Arsenic	20	10	12.0	120.0	10.3	103.0
Barium	400	200	218	109.0	222	111.0
Beryllium	10	5.0	5.4	108.0	5.2	104.0
Cadmium	10	5.0	5.9	118.0	5.9	118.0
Calcium	2000	1000	1070	107.0	1040	104.0
Chromium	20	10	10.7	107.0	10.6	106.0
Cobalt	100	50	55.1	110.2	57.5	115.0
Copper	50	25	27.1	108.4	26.5	106.0
Iron	600	300	319	106.3	315	105.0
Lead	10	5.0	5.4	108.0	5.6	112.0
Magnesium	10000	5000	5300	106.0	4950	99.0
Manganese	30	15	17.0	113.3	16.6	110.7
Molybdenum	100	50				
Nickel	80	40	44.9	112.3	45.9	114.8
Potassium	20000	10000	10500	105.0	11000	110.0
Selenium	20	10	9.4	94.0	12.2	122.0
Silver	20	10	8.9	89.0	9.6	96.0
Sodium	20000	10000	10500	105.0	10900	109.0
Strontium	20	10				
Thallium	20	10	11.3	113.0	12.5	125.0
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	54.7	109.4	54.3	108.6
Zinc	40	20	23.0	115.0	22.5	112.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA072712M1.ICP Date Analyzed: 07/27/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9995 Units: ug/l

Time:			05:48		05:53		14:44		14:51	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	494000	98.8	488000	97.6	526000	105.2	522000	104.4
Antimony		1000	0.10		998	99.8	-1.1		1080	108.0
Arsenic		1000	0.0		1000	100.0	-2.2		1060	106.0
Barium		500	1.1		542	108.4	1.6		568	113.6
Beryllium		500	0.0		509	101.8	-0.20		512	102.4
Cadmium		1000	-0.10		924	92.4	3.7		971	97.1
Calcium	500000	500000	476000	95.2	473000	94.6	470000	94.0	468000	93.6
Chromium		500	0.0		510	102.0	-0.40		510	102.0
Cobalt		500	0.0		459	91.8	-0.40		490	98.0
Copper		500	0.40		581	116.2	0.60		589	117.8
Iron	200000	200000	188000	94.0	183000	91.5	185000	92.5	184000	92.0
Lead		1000	0.0		999	99.9	1.6		1010	101.0
Magnesium	500000	500000	522000	104.4	518000	103.6	502000	100.4	498000	99.6
Manganese		500	0.50		500	100.0	0.20		496	99.2
Molybdenum		1000	0.40		940	94.0	0.30		1010	101.0
Nickel		1000	0.30		909	90.9	-0.50		952	95.2
Potassium			-25		0.30		1.3		-9.0	
Selenium		1000	0.0		987	98.7	0.50		1070	107.0
Silver		1000	0.30		1070	107.0	0.0		1100	110.0
Sodium			83.2		80.4		213		179	
Strontium		1000	2.2		1030	103.0	2.9		1070	107.0
Thallium		1000	-1.6		992	99.2	2.0		1000	100.0
Tin		1000	-0.20		858	85.8	0.0		881	88.1
Titanium		1000	-2.7		1040	104.0	-2.4		1040	104.0
Vanadium		500	0.60		515	103.0	0.60		515	103.0
Zinc		1000	2.0		923	92.3	1.3		936	93.6

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9998
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:46	MA9998-STD1	1		STDA
08:51	MA9998-STD2	1		STDB
08:56	MA9998-STD3	1		STDC
09:02	MA9998-STD4	1		STDD
09:09	MA9998-HSTD1	1		
09:18	MA9998-ICV1	1		
09:29	MA9998-ICB1	1		
09:33	MA9998-CRIA1	1		
09:43	MA9998-ICSA1	1		
09:52	MA9998-ICSAB1	1		
10:07	MA9998-CCV1	1		
10:16	MA9998-CCB1	1		
10:29	MP23319-MB1	1		
10:34	MP23319-B1	1		
10:38	F95272-1	1		(sample used for QC only; not part of login F95274)
10:42	MP23319-D1	1		
10:46	MP23319-SD1	5		
10:50	MP23319-PS1	1		
10:54	MP23319-S1	1		
10:58	MP23319-S2	1		
11:02	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:10	MA9998-CCV2	1		
11:14	MA9998-CCB2	1		
11:19	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:39	ZZZZZZ	1		
11:44	ZZZZZZ	1		
11:48	MP23320-MB1	1		
11:52	MP23320-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9998
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:56	F95305-1	1		(sample used for QC only; not part of login F95274)
12:01	MA9998-CCV3	1		
12:04	MA9998-CCB3	1		
12:09	MP23320-D1	1		
12:13	MP23320-SD1	5		
12:17	MP23320-S1	1		
12:22	MP23320-S2	1		
12:26	ZZZZZZ	1		
12:30	F95274-7A	1		
12:34	ZZZZZZ	1		
12:39	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:52	MA9998-CCV4	1		
12:56	MA9998-CCB4	1		
13:00	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:18	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:39	ZZZZZZ	1		
13:44	MA9998-CCV5	1		
13:48	MA9998-CCB5	1		
13:52	MP23320-D2	1		
13:56	MP23320-MB2	1		
14:01	MP23320-B2	1		
14:05	MP23320-MB3	1		
14:09	MP23320-B3	1		
---------->	Last reportable sample/prep for job F95274			
14:13	MA9998-CRIA2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9998
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:18	MA9998-ICSA2	1		
14:22	MA9998-ICSAB2	1		
14:26	MA9998-CCV6	1		
14:30	MA9998-CCB6	1		

----------> Last reportable CCB for job F95274
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP
Date Analyzed: 07/30/12
Methods: SW846 6010C
Analyst: LM
Run ID: MA9998
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:46	MA9998-STD1	6506	48815	10855	2877
08:51	MA9998-STD2	6452	48353	10921	2742
08:56	MA9998-STD3	6240	46843	10805	2494
09:02	MA9998-STD4	6083	46003	10743	2305
09:09	MA9998-HSTD1	6055	46040	10747	2302
09:18	MA9998-ICV1	6276	47108	10808	2499
09:29	MA9998-ICB1	6560 R	49265 R	10988 R	2882 R
09:33	MA9998-CRIA1	6475	48681	10913	2805
09:43	MA9998-ICSA1	5814	42982	10599	2221
09:52	MA9998-ICSAB1	5818	42683	10514	2180
10:07	MA9998-CCV1	6287	46832	10837	2489
10:16	MA9998-CCB1	6555	49191	10883	2874
10:29	MP23319-MB1	6604	49660	11098	2907
10:34	MP23319-B1	6472	48743	11068	2689
10:38	F95272-1	6359	47904	11022	2708
10:42	MP23319-D1	6429	48464	11056	2723
10:46	MP23319-SD1	6501	48846	11027	2823
10:50	MP23319-PS1	6299	47469	10991	2640
10:54	MP23319-S1	6303	47068	10930	2555
10:58	MP23319-S2	6360	47840	11005	2578
11:02	ZZZZZZ	6521	49438	11141	2778
11:06	ZZZZZZ	6572	49680	11206	2830
11:10	MA9998-CCV2	6312	47165	10775	2496
11:14	MA9998-CCB2	6555	48903	10882	2873
11:19	ZZZZZZ	6544	49447	11101	2818
11:23	ZZZZZZ	6583	49435	11218	2830
11:27	ZZZZZZ	6691	50276	11290	2870
11:31	ZZZZZZ	6449	48591	11201	2721
11:35	ZZZZZZ	6151	48486	11373	2621
11:39	ZZZZZZ	6696	50696	11421	2860
11:44	ZZZZZZ	6296	46866	10897	2615
11:48	MP23320-MB1	6634	50204	11158	2915
11:52	MP23320-B1	6423	48176	11014	2667

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP
Date Analyzed: 07/30/12
Methods: SW846 6010C
Analyst: LM
Run ID: MA9998
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:56	F95305-1	6262	46857	10910	2592
12:01	MA9998-CCV3	6299	47019	10833	2488
12:04	MA9998-CCB3	6584	48944	10962	2865
12:09	MP23320-D1	6279	46500	10994	2572
12:13	MP23320-SD1	6469	47993	10912	2748
12:17	MP23320-S1	6207	45633	10870	2443
12:22	MP23320-S2	6210	45936	10871	2451
12:26	ZZZZZZ	6248	46629	10886	2587
12:30	F95274-7A	6198	46067	10788	2553
12:34	ZZZZZZ	6359	47207	10947	2633
12:39	ZZZZZZ	6376	46992	10874	2636
12:43	ZZZZZZ	6343	47014	10848	2623
12:48	ZZZZZZ	6330	47087	10882	2624
12:52	MA9998-CCV4	6310	46776	10759	2480
12:56	MA9998-CCB4	6557	48881	10854	2852
13:00	ZZZZZZ	6337	46974	10888	2644
13:05	ZZZZZZ	6323	46897	10915	2635
13:09	ZZZZZZ	6165	46231	10709	2552
13:13	ZZZZZZ	6411	47327	10995	2620
13:18	ZZZZZZ	6600	48994	11328	2648
13:22	ZZZZZZ	6562	48821	11276	2645
13:26	ZZZZZZ	6309	47097	10841	2635
13:31	ZZZZZZ	6303	46787	10872	2624
13:35	ZZZZZZ	6437	47957	11097	2653
13:39	ZZZZZZ	6227	46609	10828	2586
13:44	MA9998-CCV5	6277	46880	10760	2492
13:48	MA9998-CCB5	6564	48942	10872	2869
13:52	MP23320-D2	6248	46600	10875	2584
13:56	MP23320-MB2	6329	46833	10917	2644
14:01	MP23320-B2	6286	46702	10764	2531
14:05	MP23320-MB3	6314	46621	10825	2632
14:09	MP23320-B3	6314	46815	10883	2530
14:13	MA9998-CRIA2	6531	48402	10821	2813

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP
Analyst: LM
Parameters: As,Ba,Cd,Cr,Pb,Se,Ag

Date Analyzed: 07/30/12
Run ID: MA9998

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:18	MA9998-ICSA2	5843	42733	10459	2228
14:22	MA9998-ICSAB2	5817	42703	10397	2188
14:26	MA9998-CCV6	6329	46958	10733	2506
14:30	MA9998-CCB6	6581	49160	10746	2880

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9998 Units: ug/l

Time:			09:29		10:16		11:14		12:04	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	24	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	1.5	<10	1.2	<10	0.90	<10	1.8	<10
Barium	200	4	0.0	<200	-0.10	<200	0.40	<200	0.40	<200
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.20	<5.0	0.30	<5.0
Calcium	1000	50	anr							
Chromium	10	1	0.0	<10	0.0	<10	0.0	<10	0.20	<10
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	23	anr							
Lead	5.0	1	0.60	<5.0	0.40	<5.0	0.70	<5.0	1.1	<5.0
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	0.70	<10	1.0	<10	-0.10	<10	1.7	<10
Silver	10	1	0.10	<10	0.20	<10	0.10	<10	0.30	<10
Sodium	10000	850	anr							
Strontium	10	1								
Thallium	10	1.5	anr							
Tin	50	1								
Titanium	10	1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9998 Units: ug/l

Time:			12:56		13:48		14:30	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	24	anr					
Antimony	6.0	1	anr					
Arsenic	10	1	0.20	<10	1.0	<10	0.90	<10
Barium	200	4	0.20	<200	0.20	<200	0.30	<200
Beryllium	4.0	.1	anr					
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	anr					
Chromium	10	1	-0.20	<10	0.10	<10	0.0	<10
Cobalt	50	1	anr					
Copper	25	1	anr					
Iron	300	23	anr					
Lead	5.0	1	0.90	<5.0	0.60	<5.0	0.80	<5.0
Magnesium	5000	50	anr					
Manganese	15	1	anr					
Molybdenum	50	1						
Nickel	40	1	anr					
Potassium	10000	50	anr					
Selenium	10	2	0.80	<10	1.1	<10	0.60	<10
Silver	10	1	0.30	<10	0.20	<10	0.0	<10
Sodium	10000	850	anr					
Strontium	10	1						
Thallium	10	1.5	anr					
Tin	50	1						
Titanium	10	1						
Vanadium	50	1	anr					
Zinc	20	1	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9998 Units: ug/l

Time:		09:18			10:07			11:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1950	97.5	2000	1980	99.0	2000	1970	98.5
Barium	2000	2090	104.5	2000	2030	101.5	2000	2030	101.5
Beryllium	anr								
Cadmium	2000	2000	100.0	2000	2020	101.0	2000	2010	100.5
Calcium	anr								
Chromium	2000	2000	100.0	2000	2030	101.5	2000	2020	101.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1940	97.0	2000	1980	99.0	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2010	100.5	2000	1980	99.0	2000	1970	98.5
Silver	250	248	99.2	250	248	99.2	250	246	98.4
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9998 Units: ug/l

Time:		12:01			12:52			13:44	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2000	100.0	2000	1980	99.0	2000	2000	100.0
Barium	2000	2050	102.5	2000	2040	102.0	2000	2040	102.0
Beryllium	anr								
Cadmium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Calcium	anr								
Chromium	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	2010	100.5	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	2000	2010	100.5	2000	1980	99.0	2000	2010	100.5
Silver	250	250	100.0	250	249	99.6	250	249	99.6
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

14.4.3
14

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9998 Units: ug/l

Time:		14:26	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2000	2000	100.0
Barium	2000	2030	101.5
Beryllium	anr		
Cadmium	2000	2030	101.5
Calcium	anr		
Chromium	2000	2040	102.0
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	1990	99.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	2000	2010	100.5
Silver	250	250	100.0
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9998 Units: ug/l

Time:		09:09	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	4020	100.5
Barium	4000	3980	99.5
Beryllium	anr		
Cadmium	4000	3960	99.0
Calcium	anr		
Chromium	4000	3930	98.3
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4040	101.0
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	4000	4010	100.3
Silver	500	500	100.0
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9998 Units: ug/l

Time:			09:33		14:13	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	11.1	111.0	11.9	119.0
Barium	400	200	208	104.0	210	105.0
Beryllium	10	5.0	anr			
Cadmium	10	5.0	5.9	118.0	5.7	114.0
Calcium	2000	1000	anr			
Chromium	20	10	10.3	103.0	10.7	107.0
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	5.2	104.0	5.8	116.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	11.5	115.0	13.0	130.0
Silver	20	10	9.9	99.0	9.4	94.0
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SB073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9998 Units: ug/l

Time:			09:43		09:52		14:18		14:22	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	487000	97.4	490000	98.0	490000	98.0	496000	99.2
Antimony		1000	0.0		1010	101.0	0.0		1020	102.0
Arsenic		1000	0.50		1010	101.0	1.2		1020	102.0
Barium		500	5.6		527	105.4	5.7		529	105.8
Beryllium		500	0.10		503	100.6	0.10		502	100.4
Cadmium		1000	0.0		938	93.8	-0.30		945	94.5
Calcium	500000	500000	466000	93.2	464000	92.8	469000	93.8	466000	93.2
Chromium		500	-0.20		513	102.6	-0.10		513	102.6
Cobalt		500	0.40		471	94.2	0.50		474	94.8
Copper		500	-0.30		545	109.0	-0.30		551	110.2
Iron	200000	200000	177000	88.5	182000	91.0	179000	89.5	182000	91.0
Lead		1000	0.0		964	96.4	2.0		965	96.5
Magnesium	500000	500000	485000	97.0	494000	98.8	487000	97.4	495000	99.0
Manganese		500	-0.20		492	98.4	-0.20		498	99.6
Molybdenum		1000	-0.70		967	96.7	-0.80		967	96.7
Nickel		1000	0.0		911	91.1	-0.10		923	92.3
Potassium			13.3		-2.2		30.8		-5.3	
Selenium		1000	0.80		1000	100.0	-1.9		1020	102.0
Silver		1000	0.20		1010	101.0	0.30		1020	102.0
Sodium			81.9		81.3		147		124	
Strontium		1000	5.5		1010	101.0	5.6		1020	102.0
Thallium		1000	0.0		966	96.6	-0.90		966	96.6
Tin		1000	-2.0		865	86.5	-2.1		875	87.5
Titanium		1000	-2.0		1020	102.0	-2.1		1030	103.0
Vanadium		500	-0.90		507	101.4	-1.1		510	102.0
Zinc		1000	0.10		932	93.2	0.10		941	94.1

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:23	MA9999-STD1	1		STDA
07:26	MA9999-STD2	1		STDB
07:31	MA9999-STD3	1		STDC
07:37	MA9999-STD4	1		STDD
07:47	MA9999-HSTD1	1		
07:54	MA9999-ICV1	1		
08:03	MA9999-ICB1	1		
08:08	MA9999-CRIA1	1		
08:26	MA9999-ICSA1	1		
08:34	MA9999-ICSAB1	1		
08:44	MA9999-CCV1	1		
08:53	MA9999-CCB1	1		
09:00	MP23311-MB1	1		
09:05	MP23311-B1	1		
09:09	F95217-1	10		(sample used for QC only; not part of login F95274)
09:13	MP23311-D1	10		
09:18	MP23311-PS1	10		
09:22	MP23311-SD1	50		
09:27	MP23311-S1	10		
09:31	MP23311-S2	10		
---------->	Last reportable sample/prep for job F95274			
09:35	ZZZZZZ	10		
09:40	ZZZZZZ	10		
09:44	MA9999-CCV2	1		
09:48	MA9999-CCB2	1		
09:53	F95220-1	5		(sample used for QC only; not part of login F95274)
09:57	MP23310-D1	5		
10:02	MP23310-S1	5		
10:06	MP23310-S2	5		
10:10	MP23310-PS1	5		
10:14	MP23310-SD1	25		
10:19	ZZZZZZ	5		
10:23	ZZZZZZ	4		
10:27	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:32	ZZZZZZ	4		
10:36	MA9999-CCV3	1		
10:40	MA9999-CCB3	1		
10:45	ZZZZZZ	4		
10:49	ZZZZZZ	10		
10:53	ZZZZZZ	4		
11:02	F95207-1	200		(sample used for QC only; not part of login F95274)
11:06	MP23300-D1	200		
11:11	MP23300-S1	200		
11:15	MP23300-S2	200		
11:20	MP23300-PS1	200		
11:24	MP23300-SD1	1000		
11:29	MA9999-CCV4	1		
11:33	MA9999-CCB4	1		
11:37	ZZZZZZ	200		
11:42	ZZZZZZ	200		
11:46	ZZZZZZ	200		
11:51	ZZZZZZ	2		
11:55	ZZZZZZ	2		
12:00	ZZZZZZ	4		
12:05	ZZZZZZ	4		
12:10	ZZZZZZ	2		
12:15	ZZZZZZ	2		
12:20	ZZZZZZ	2		
12:24	MA9999-CCV5	1		
12:28	MA9999-CCB5	1		
12:38	ZZZZZZ	4		
12:43	ZZZZZZ	2		
12:50	ZZZZZZ	2		
12:55	ZZZZZZ	200		
12:59	MP23318-MB1	1		
13:04	MP23318-B1	1		
13:08	F95286-1	1		(sample used for QC only; not part of login F95274)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:12	MP23318-D1	1		
13:17	MP23318-SD1	5		
13:21	MA9999-CCV6	1		
13:25	MA9999-CCB6	1		
13:30	MP23318-PS1	1		
13:34	MP23318-S1	1		
13:39	MP23318-S2	1		
13:43	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:16	MA9999-CCV7	1		
14:20	MA9999-CCB7	1		
14:24	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:55	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	MP23325-MB1	1		
15:09	MA9999-CCV8	1		
15:13	MA9999-CCB8	1		
15:17	MP23325-B1	1		
15:21	F95334-1	1		(sample used for QC only; not part of login F95274)
15:26	MP23325-D1	1		
15:30	MP23325-SD1	5		
15:35	MP23325-PS1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:39	MP23325-S1	1		
15:43	MP23325-S2	1		
15:47	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:56	ZZZZZZ	1		
16:01	MA9999-CCV9	1		
16:05	MA9999-CCB9	1		
16:31	MA9999-CCV10	1		
16:42	MA9999-CCB10	1		
16:45	ZZZZZZ	1		
16:50	ZZZZZZ	1		
16:55	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:09	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:19	ZZZZZZ	1		
17:24	ZZZZZZ	1		
17:29	ZZZZZZ	1		
17:34	MA9999-CCV11	1		
17:38	MA9999-CCB11	1		
17:42	ZZZZZZ	1		
17:47	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:56	ZZZZZZ	1		
18:00	MP23325-MB2A	1		
18:09	MP23326-MB1	1		
18:14	MP23326-B1	1		
18:18	F95354-1	1		(sample used for QC only; not part of login F95274)
18:22	MP23326-D1	1		
18:27	MA9999-CCV12	1		
18:31	MA9999-CCB12	1		
18:35	MP23326-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
Analyst: LM Run ID: MA9999
Parameters: V

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:40	MP23326-PS1	1		
18:44	MP23326-S1	1		
18:48	MP23326-S2	1		
18:52	ZZZZZZ	1		
18:57	ZZZZZZ	1		
19:01	ZZZZZZ	1		
19:06	ZZZZZZ	1		
19:11	MA9999-CRIA2	1		
19:15	MA9999-ICSA2	1		
19:20	MA9999-CCV13	1		
19:24	MA9999-CCB13	1		
19:28	MA9999-ICSAB2	1		
19:33	MA9999-CCV14	1		
19:37	MA9999-CCB14	1		

----------> Last reportable CCB for job F95274
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:23	MA9999-STD1	3366	25087	9449	1936
07:26	MA9999-STD2	3361	24955	9515	1800
07:31	MA9999-STD3	3215	24022	9384	1610
07:37	MA9999-STD4	3078	23279	9240	1469
07:47	MA9999-HSTD1	3091	23096	9217	1471
07:54	MA9999-ICV1	3204	23839	9399	1603
08:03	MA9999-ICB1	3389 R	24830 R	9463 R	1930 R
08:08	MA9999-CRIA1	3356	24599	9398	1839
08:26	MA9999-ICSA1	2926	21299	8950	1383
08:34	MA9999-ICSAB1	2899	21266	8933	1354
08:44	MA9999-CCV1	3214	23547	9396	1593
08:53	MA9999-CCB1	3368	24704	9521	1906
09:00	MP23311-MB1	3229	23684	9168	1826
09:05	MP23311-B1	3137	23062	9132	1618
09:09	F95217-1	3319	24305	9735	1616
09:13	MP23311-D1	3327	24296	9689	1597
09:18	MP23311-PS1	3311	24307	9645	1606
09:22	MP23311-SD1	3359	24579	9543	1769
09:27	MP23311-S1	3297	24108	9787	1559
09:31	MP23311-S2	3303	24265	9734	1568
09:35	ZZZZZZ	3303	24195	9737	1585
09:40	ZZZZZZ	3304	24133	9731	1554
09:44	MA9999-CCV2	3183	23240	9254	1564
09:48	MA9999-CCB2	3378	24631	9462	1903
09:53	F95220-1	3840	27510	10895	1683
09:57	MP23310-D1	3856	27752	10951	1707
10:02	MP23310-S1	3875	27949	11136	1674
10:06	MP23310-S2	3825	27537	10949	1676
10:10	MP23310-PS1	3859	27829	11074	1692
10:14	MP23310-SD1	3524	25626	9900	1833
10:19	ZZZZZZ	4021	29378	11536	1707
10:23	ZZZZZZ	3883	27283	11267	1620
10:27	ZZZZZZ	3789	27120	10852	1684

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:32	ZZZZZZ	3819	26751	11093	1620
10:36	MA9999-CCV3	3217	23748	9492	1585
10:40	MA9999-CCB3	3388	24783	9565	1913
10:45	ZZZZZZ	3435	24177	9907	1645
10:49	ZZZZZZ	3983	28722	11131	1779
10:53	ZZZZZZ	3952	28790	11312	1703
11:02	F95207-1	3278	23910	9488	1735
11:06	MP23300-D1	3276	23880	9438	1741
11:11	MP23300-S1	3277	23844	9463	1738
11:15	MP23300-S2	3273	23854	9474	1732
11:20	MP23300-PS1	3260	23808	9464	1732
11:24	MP23300-SD1	3347	24541	9493	1846
11:29	MA9999-CCV4	3204	23663	9417	1580
11:33	MA9999-CCB4	3370	24716	9493	1905
11:37	ZZZZZZ	3260	23840	9388	1732
11:42	ZZZZZZ	3264	23830	9488	1727
11:46	ZZZZZZ	3253	23713	9370	1724
11:51	ZZZZZZ	2678	19790	8713	1273
11:55	ZZZZZZ	2790	20589	8775	1349
12:00	ZZZZZZ	2696	19806	8650	1282
12:05	ZZZZZZ	2711	19914	8694	1281
12:10	ZZZZZZ	2532	18417	8286	1172
12:15	ZZZZZZ	2583	18773	8440	1202
12:20	ZZZZZZ	2682	19824	8681	1272
12:24	MA9999-CCV5	3196	23367	9331	1559
12:28	MA9999-CCB5	3358	24567	9465	1884
12:38	ZZZZZZ	2684	19592	8626	1271
12:43	ZZZZZZ	2534	18654	8328	1184
12:50	ZZZZZZ	2574	18877	8377	1204
12:55	ZZZZZZ	3209	23490	9221	1704
12:59	MP23318-MB1	3197	23617	9049	1803
13:04	MP23318-B1	3085	22515	8898	1576
13:08	F95286-1	3795	27660	10938	1598

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:12	MP23318-D1	3606	26636	10566	1530
13:17	MP23318-SD1	3487	25400	9711	1768
13:21	MA9999-CCV6	3202	23629	9236	1576
13:25	MA9999-CCB6	3364	24715	9315	1895
13:30	MP23318-PS1	3747	27393	10786	1572
13:34	MP23318-S1	3703	27184	10816	1525
13:39	MP23318-S2	3761	27612	10970	1502
13:43	ZZZZZZ	4120	30399	11957 !	1543
13:48	ZZZZZZ	3488	25365	9707	1731
13:52	ZZZZZZ	5056 !	36542 !	14465 !	1573
13:57	ZZZZZZ	8729 !	64212 !	24765 !	1593
14:01	ZZZZZZ	16745 !	123820 !	49155 !	1530
14:06	ZZZZZZ	3848	28547	11141	1606
14:11	ZZZZZZ	4342 !	31570 !	12724 !	1527
14:16	MA9999-CCV7	3202	23741	9314	1579
14:20	MA9999-CCB7	3366	24859	9359	1907
14:24	ZZZZZZ	3716	27318	10602	1673
14:28	ZZZZZZ	5255 !	39441 !	15415 !	1618
14:33	ZZZZZZ	3637	29652	12086 !	1610
14:38	ZZZZZZ	3809	28133	10791	1678
14:42	ZZZZZZ	3698	27282	10516	1695
14:46	ZZZZZZ	4188	31152 !	12049 !	1662
14:51	ZZZZZZ	3776	28114	10909	1680
14:55	ZZZZZZ	6031 !	44701 !	18032 !	1510
15:00	ZZZZZZ	3975	29412	11394	1664
15:04	MP23325-MB1	3332	24983	9565	1894
15:09	MA9999-CCV8	3180	23666	9265	1575
15:13	MA9999-CCB8	3350	24814	9429	1899
15:17	MP23325-B1	3193	23713	9268	1645
15:21	F95334-1	3248	24116	9387	1727
15:26	MP23325-D1	3279	24354	9537	1739
15:30	MP23325-SD1	3319	24639	9411	1839
15:35	MP23325-PS1	3220	23878	9369	1689

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:39	MP23325-S1	3174	23426	9323	1596
15:43	MP23325-S2	3177	23563	9297	1599
15:47	ZZZZZZ	3046	23417	9372	1643
15:52	ZZZZZZ	3108	23952	9567	1718
15:56	ZZZZZZ	2547	20044	8940	1234
16:01	MA9999-CCV9	3041	23591	9711	1538
16:05	MA9999-CCB9	3253	24924	9885	1878
16:31	MA9999-CCV10	3097	23400	9464	1553
16:42	MA9999-CCB10	3250	24512	9548	1873
16:45	ZZZZZZ	2595	19955	8842	1288
16:50	ZZZZZZ	2631	20135	8910	1317
16:55	ZZZZZZ	2572	19844	8768	1292
16:59	ZZZZZZ	2611	20045	8815	1312
17:04	ZZZZZZ	2234	17602	8107	1081 !
17:09	ZZZZZZ	2283	17731	8215	1102 !
17:14	ZZZZZZ	2059	15929	7687	952 !
17:19	ZZZZZZ	2039	16098	7650	951 !
17:24	ZZZZZZ	2183	16995	7856	1040 !
17:29	ZZZZZZ	2261	17907	8132	1092 !
17:34	MA9999-CCV11	2971	23419	9178	1542
17:38	MA9999-CCB11	3169	24608	9315	1874
17:42	ZZZZZZ	3130	24670	9371	1854
17:47	ZZZZZZ	3120	24541	9343	1807
17:51	ZZZZZZ	3114	24548	9335	1836
17:56	ZZZZZZ	2926	23231	9081	1599
18:00	MP23325-MB2A	3104	24674	9162	1854
18:09	MP23326-MB1	3091	23268	8947	1827
18:14	MP23326-B1	2920	22907	8694	1592
18:18	F95354-1	2872	22605	8645	1531
18:22	MP23326-D1	2986	23634	8818	1666
18:27	MA9999-CCV12	3015	23991	8984	1582
18:31	MA9999-CCB12	3160	25132	9115	1902
18:35	MP23326-SD1	3052	24419	9083	1748

INTERNAL STANDARD SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP
Analyst: LM
Parameters: V

Date Analyzed: 07/30/12
Run ID: MA9999

Methods: SW846 6010C

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:40	MP23326-PS1	2876	22958	8674	1522
18:44	MP23326-S1	2916	23119	8701	1552
18:48	MP23326-S2	2924	23284	8787	1565
18:52	ZZZZZZ	2859	22932	8591	1547
18:57	ZZZZZZ	3071	24397	9303	1474
19:01	ZZZZZZ	3219	25583	9947	1354
19:06	ZZZZZZ	3003	23868	9284	1349
19:11	MA9999-CRIA2	3139	25165	9099	1824
19:15	MA9999-ICSA2	2699	21420	8456	1350
19:20	MA9999-CCV13	2993	23957	8930	1580
19:24	MA9999-CCB13	3146	25201	9034	1908
19:28	MA9999-ICSAB2	2684	21298	8375	1333
19:33	MA9999-CCV14	2959	23825	8797	1571
19:37	MA9999-CCB14	3146	25054	8952	1913

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

14.5.1

14

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			08:03		08:53		09:48		10:40	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	-0.10	<50	0.0	<50	0.10	<50	0.30	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			11:33		12:28		13:25		14:20	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.20	<50	0.30	<50	0.30	<50	-0.20	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			15:13		16:05		16:42		17:38	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	anr							
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	anr							
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.20	<50	0.10	<50	0.10	<50	0.10	<50
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9999 Units: ug/l

Time:			18:31		19:24		19:37	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	20	anr					
Antimony	6.0	1	anr					
Arsenic	10	1	anr					
Barium	200	1	anr					
Beryllium	4.0	.1	anr					
Cadmium	5.0	.1	anr					
Calcium	1000	50	anr					
Chromium	10	1	anr					
Cobalt	50	1	anr					
Copper	25	1	anr					
Iron	300	34	anr					
Lead	5.0	1	anr					
Magnesium	5000	50	anr					
Manganese	15	1	anr					
Molybdenum	50	1	anr					
Nickel	40	1	anr					
Potassium	10000	50	anr					
Selenium	10	2	anr					
Silver	10	1	anr					
Sodium	10000	750	anr					
Strontium	10	1						
Thallium	10	1	anr					
Tin	50	1						
Titanium	10	1.1						
Vanadium	50	1	0.10	<50	-0.10	<50	0.20	<50
Zinc	20	1	anr					

(*) Outside of QC limits
(anr) Analyte not requested

14.5.2
14

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		07:54			08:44			09:44	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	2110	105.5	2000	2160	108.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		10:36			11:29			12:24	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2130	106.5	2000	2130	106.5	2000	2160	108.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		13:21			14:16			15:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2140	107.0	2000	2160	108.0	2000	2140	107.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		16:01			16:31			17:34	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2120	106.0	2000	2080	104.0	2000	2040	102.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9999 Units: ug/l

Time:		18:27			19:20			19:33	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	1990	99.5	2000	2000	100.0
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9999 Units: ug/l

Time:		07:47	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	4000	3940	98.5
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9999 Units: ug/l

Time:			08:08		19:11	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	53.2	106.4	50.7	101.4
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

File ID: SA073012M1.ICP Date Analyzed: 07/30/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9999 Units: ug/l

Time:			08:26		08:34		19:15		19:28	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	487000	97.4	498000	99.6	526000	105.2	533000	106.6
Antimony		1000	0.0		1020	102.0	3.7		1040	104.0
Arsenic		1000	0.0		1020	102.0	0.90		1040	104.0
Barium		500	5.7		539	107.8	5.8		542	108.4
Beryllium		500	-0.10		511	102.2	-0.20		499	99.8
Cadmium		1000	1.0		941	94.1	2.6		963	96.3
Calcium	500000	500000	475000	95.0	472000	94.4	455000	91.0	450000	90.0
Chromium		500	-0.40		516	103.2	-0.60		514	102.8
Cobalt		500	0.0		468	93.6	-0.20		494	98.8
Copper		500	1.4		581	116.2	1.7		536	107.2
Iron	200000	200000	182000	91.0	185000	92.5	177000	88.5	181000	90.5
Lead		1000	-0.40		957	95.7	8.3		917	91.7
Magnesium	500000	500000	515000	103.0	522000	104.4	479000	95.8	483000	96.6
Manganese		500	0.20		509	101.8	0.0		501	100.2
Molybdenum		1000	0.30		960	96.0	0.50		1020	102.0
Nickel		1000	0.10		924	92.4	-0.40		924	92.4
Potassium			-13		-20		-17		-9.2	
Selenium		1000	0.30		1010	101.0	-0.80		1050	105.0
Silver		1000	0.20		1070	107.0	-0.20		1080	108.0
Sodium			75.2		85.7		150		115	
Strontium		1000	5.6		1030	103.0	5.6		1020	102.0
Thallium		1000	1.1		952	95.2	1.7		900	90.0
Tin		1000	0.40		884	88.4	-0.70		788	78.8*
Titanium		1000	-4.9		1050	105.0	-4.0		1010	101.0
Vanadium		500	0.0		519	103.8	0.50		485	97.0
Zinc		1000	-0.50		939	93.9	0.10		924	92.4

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	0.50	<10
Antimony	1.0	.05	.1	0.020	<1.0
Arsenic	0.50	.05	.1	-0.045	<0.50
Barium	10	.05	.5	0.0	<10
Beryllium	0.25	.005	.05	-0.0050	<0.25
Cadmium	0.20	.005	.05	0.0	<0.20
Calcium	250	2.5	5	0.97	<250
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.05	.05	-0.010	<2.5
Copper	1.3	.05	.1	-0.010	<1.3
Iron	15	1.7	1.7	1.5	<15
Lead	1.0	.05	.05	-0.050	<1.0
Magnesium	250	2.5	5	0.32	<250
Manganese	0.75	.05	.05	0.020	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.055	<2.0
Potassium	500	2.5	25	0.89	<500
Selenium	1.0	.1	.2	0.015	<1.0
Silver	0.50	.05	.05	-0.020	<0.50
Sodium	500	38	55	0.48	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	-0.035	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	-0.0050	<2.5
Zinc	1.0	.05	.25	0.050	<1.0

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12 07/26/12

Metal	F95217-1 Original	DUP	RPD	QC Limits	F95217-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	19500	16100(a)	19.1	0-20	19500	21400(a)	1530	124.0(d)	80-120
Antimony	0.0	0.0 (a)	NC	0-20	0.0	7.9 (a)	28.4	27.8N(e)	80-120
Arsenic	6.4	5.9 (a)	8.1	0-20	6.4	116 (a)	114	96.5	80-120
Barium	156	191 (a)	20.2 (b)	0-20	156	307 (a)	114	133.0N(e	80-120
Beryllium	1.5	1.3 (a)	14.3	0-20	1.5	4.5 (a)	2.84	105.7	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	2.5 (a)	2.84	88.1	80-120
Calcium	124000	121000(a	2.4	0-20	124000	128000(a	1420	281.8(d)	80-120
Chromium	25.6	19.7 (a)	26.0*(c)	0-20	25.6	36.3 (a)	11.4	94.2	80-120
Cobalt	8.4	8.8 (a)	4.7	0-20	8.4	36.2 (a)	28.4	97.9	80-120
Copper	16.2	14.3 (a)	12.5	0-20	16.2	30.4 (a)	14.2	100.0	80-120
Iron	22900	19100(a)	18.1	0-20	22900	23700(a)	1480	54.2 (d)	80-120
Lead	12.9	12.3 (a)	4.8	0-20	12.9	42.2 (a)	28.4	103.2	80-120
Magnesium	20700	17900(a)	14.5	0-20	20700	22300(a)	1420	112.7	80-120
Manganese	304	327 (a)	7.3	0-20	304	355 (a)	28.4	179.7(d)	80-120
Molybdenum									
Nickel	23.8	21.2 (a)	11.6	0-20	23.8	51.2 (a)	28.4	96.5	80-120
Potassium	3570	3040 (a)	16.0	0-20	3570	5300 (a)	1420	121.9N(e	80-120
Selenium	0.0	0.0 (a)	NC	0-20	0.0	110 (a)	114	96.9	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.6 (a)	2.84	91.6	80-120
Sodium	3460	3190 (a)	8.1	0-20	3460	4790 (a)	1420	93.7	80-120
Strontium									
Thallium	0.0	0.0 (a)	NC	0-20	0.0	116 (a)	114	102.2	80-120
Tin									
Titanium									
Vanadium	39.6	31.5	0.3	0-20	39.6	71.4	28.4	140.2N(e	80-120
Zinc	64.0	57.7 (a)	10.4	0-20	64.0	90.9 (a)	28.4	94.8	80-120

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to sample matrix.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) High RPD due to possible sample nonhomogeneity.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	F95217-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	19500	20500(a)	1360	73.6 (b)	4.3	20
Antimony	0.0	5.5 (a)	25.2	21.9N(c)	35.8 (d)	20
Arsenic	6.4	99.8 (a)	101	92.8	15.0	20
Barium	156	291 (a)	101	134.2N(c	5.4	20
Beryllium	1.5	4.1 (a)	2.52	103.4	9.3	20
Cadmium	0.0	2.1 (a)	2.52	83.5	17.4	20
Calcium	124000	123000(a	1260	-79.5(b)	4.0	20
Chromium	25.6	32.7 (a)	10.1	70.6N(c)	10.4	20
Cobalt	8.4	33.7 (a)	25.2	100.6	7.2	20
Copper	16.2	28.9 (a)	12.6	101.0	5.1	20
Iron	22900	22100(a)	1310	-61.2(b)	7.0	20
Lead	12.9	37.6 (a)	25.2	98.2	11.5	20
Magnesium	20700	20700(a)	1260	0.0 (b)	7.4	20
Manganese	304	355 (a)	25.2	202.7(b)	0.0	20
Molybdenum						
Nickel	23.8	47.8 (a)	25.2	95.4	6.9	20
Potassium	3570	4900 (a)	1260	105.7	7.8	20
Selenium	0.0	93.6 (a)	101	93.0	16.1	20
Silver	0.0	2.3 (a)	2.52	91.4	12.2	20
Sodium	3460	4640 (a)	1260	93.8	3.2	20
Strontium						
Thallium	0.0	99.1 (a)	101	98.5	15.7	20
Tin						
Titanium						
Vanadium	39.6	56.5	25.2	99.0	23.3 (d)	20
Zinc	64.0	86.4 (a)	25.2	89.0	5.1	20

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to sample matrix.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(d) High RPD due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 07/26/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1370	1350	101.5	80-120
Antimony	24.7	25	98.8	80-120
Arsenic	96.7	100	96.7	80-120
Barium	109	100	109.0	80-120
Beryllium	2.7	2.5	108.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1280	1250	102.4	80-120
Chromium	10.6	10	106.0	80-120
Cobalt	25.6	25	102.4	80-120
Copper	13.3	12.5	106.4	80-120
Iron	1360	1300	104.6	80-120
Lead	23.7	25	94.8	80-120
Magnesium	1260	1250	100.8	80-120
Manganese	27.0	25	108.0	80-120
Molybdenum				
Nickel	26.2	25	104.8	80-120
Potassium	1280	1250	102.4	80-120
Selenium	96.1	100	96.1	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	1280	1250	102.4	80-120
Strontium				
Thallium	96.9	100	96.9	80-120
Tin				
Titanium				
Vanadium	27.2	25	108.8	80-120
Zinc	25.6	25	102.4	80-120

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/12

Metal	F95217-1 Original	SDL 10:50	%DIF	QC Limits
Aluminum	350000	357000	1.8	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	114	143	25.4 (a)	0-10
Barium	2790	2850	2.2	0-10
Beryllium	26.8	26.0	3.0	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2230000	2370000	6.4	0-10
Chromium	460	487	5.8	0-10
Cobalt	150	154	2.7	0-10
Copper	291	313	7.8	0-10
Iron	410000	433000	5.6	0-10
Lead	232	226	2.5	0-10
Magnesium	371000	385000	3.6	0-10
Manganese	5450	5750	5.6	0-10
Molybdenum				
Nickel	428	466	9.0	0-10
Potassium	64000	63500	0.8	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	62100	63100	1.6	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	711	755	33.1*(b)	0-10
Zinc	1150	1220	5.8	0-10

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23311
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/26/12

Metal	Sample ml	Final ml	F95217-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	350400	272636	348000	.2	125	2500	3014.6*a	80-120
Antimony	9.8	10	0	0	79.5	.2	5	100	79.5*(a)	80-120
Arsenic	9.8	10	114.2	78.596	209	.2	5	100	130.4*(a	80-120
Barium	9.8	10	2793	2150.12	3023	.2	12.5	250	349.2*(a	80-120
Beryllium	9.8	10	26.8	20.678	81.6	.2	2.5	50	121.8*(a	80-120
Cadmium	9.8	10	0	0	43.5	.2	2.5	50	87.0	80-120
Calcium	9.8	10	2231000	1733620	2202000	.2	250	5000	9367.6*a	80-120
Chromium	9.8	10	459.8	364.168	506.9	.2	2.5	50	285.5*(a	80-120
Cobalt	9.8	10	150.3	119.168	196.9	.2	2.5	50	155.5*(a	80-120
Copper	9.8	10	290.6	222.95	391.8	.2	5	100	168.9*(a	80-120
Iron	9.8	10	410100	318108	407800	.2	150	3000	2989.7*a	80-120
Lead	9.8	10	231.6	180.222	273	.2	2.5	50	185.6*(a	80-120
Magnesium	9.8	10	371400	286552	373100	.2	250	5000	1731.0*a	80-120
Manganese	9.8	10	5449	4219.88	5424	.2	2.5	50	2408.2*a	80-120
Molybdenum										
Nickel	9.8	10	427.6	337.61	521.3	.2	5	100	183.7*(a	80-120
Potassium	9.8	10	64010	50617	74240	.2	500	10000	236.2*(a	80-120
Selenium	9.8	10	0	0	98.7	.2	5	100	98.7	80-120
Silver	9.8	10	0	0	48.9	.2	2.5	50	97.8	80-120
Sodium	9.8	10	62060	50087.8	71910	.2	500	10000	218.2*(a	80-120
Strontium										
Thallium	9.8	10	0	0	84	.2	5	100	84.0	80-120
Tin										
Titanium										
Vanadium	9.8	10	710.7	555.66	625.2	.2	2.5	50	139.1*(a	80-120
Zinc	9.8	10	1148	910.714	1408	.2	12.5	250	198.9*(a	80-120

Associated samples MP23311: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					07/30/12		07/30/12		07/30/12
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	0.20	.024	.025						
Antimony	0.0060	.001	.002						
Arsenic	0.050	.001	.002	0.00050	<0.050	0.0080	<0.50	0.013	<0.50
Barium	1.0	.004	.005	0.00010	<1.0	0.0	<10	0.0030	<10
Beryllium	0.0040	.0001	.001						
Cadmium	0.0050	.0001	.001	0.0	<0.0050	0.0	<0.050	0.0	<0.050
Calcium	1.0	.05	.1						
Chromium	0.010	.001	.001	0.0	<0.010	0.0010	<0.10	-0.0010	<0.10
Cobalt	0.050	.001	.001						
Copper	0.025	.001	.002						
Iron	0.30	.023	.035						
Lead	0.050	.001	.001	0.00040	<0.050	0.012	<0.50	0.015	<0.50
Magnesium	5.0	.05	.1						
Manganese	0.015	.001	.001						
Molybdenum	0.050	.001	.002						
Nickel	0.040	.001	.002						
Potassium	10	.05	.5						
Selenium	0.050	.002	.002	0.00080	<0.050	0.017	<0.50	0.033	<0.50
Silver	0.010	.001	.001	0.00010	<0.010	0.0	<0.10	0.0030	<0.10
Sodium	10	.85	1.9						
Strontium	0.010	.001	.001						
Thallium	0.010	.0015	.0019						
Tin	0.050	.001	.001						
Titanium	0.010	.001	.002						
Vanadium	0.050	.001	.001						
Zinc	0.10	.001	.005						

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			07/30/12					07/30/12	
Metal	F95305-1 Original	DUP	RPD	QC Limits	F95305-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	21.6	20.0	108.0	80-120
Barium	2.1	2.0	4.9	0-20	2.1	24.3	20.0	111.0	80-120
Beryllium									
Cadmium	0.0	0.0	NC	0-20	0.0	0.54	0.50	108.0	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	2.2	2.0	110.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	5.3	5.0	106.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	22.4	20.0	112.0	80-120
Silver	0.010	0.0	200.0(a)	0-20	0.010	0.54	0.50	106.0	80-120
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					07/30/12				07/30/12	
Metal	F95305-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit	F95305-1 Original	DUP	RPD	QC Limits
Aluminum										
Antimony										
Arsenic	0.0	20.7	20.0	103.5	4.3	20	0.0	0.0	NC	0-20
Barium	2.1	23.3	20.0	106.0	4.2	20	2.1	2.1	0.0	0-20
Beryllium										
Cadmium	0.0	0.52	0.50	104.0	3.8	20	0.0	0.0	NC	0-20
Calcium										
Chromium	0.0	2.1	2.0	105.0	4.7	20	0.0	0.0	NC	0-20
Cobalt										
Copper										
Iron										
Lead	0.0	5.0	5.0	100.0	5.8	20	0.0	0.0	NC	0-20
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	0.0	21.5	20.0	107.5	4.1	20	0.0	0.0	NC	0-20
Silver	0.010	0.51	0.50	100.0	5.7	20	0.010	0.0	200.0(a)	0-20
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			07/30/12				07/30/12	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	2.0	2.0	100.0	80-120	20.4	20.0	102.0	80-120
Barium	2.1	2.0	105.0	80-120	21.2	20.0	106.0	80-120
Beryllium								
Cadmium	0.050	0.050	100.0	80-120	0.51	0.50	102.0	80-120
Calcium								
Chromium	0.21	0.20	105.0	80-120	2.1	2.0	105.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.47	0.50	94.0	80-120	4.9	5.0	98.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	2.0	2.0	100.0	80-120	20.9	20.0	104.5	80-120
Silver	0.049	0.050	98.0	80-120	0.50	0.50	100.0	80-120
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 07/30/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	20.9	20.0	104.5	80-120
Barium	21.9	20.0	109.5	80-120
Beryllium				
Cadmium	0.53	0.50	106.0	80-120
Calcium				
Chromium	2.2	2.0	110.0	80-120
Cobalt				
Copper				
Iron				
Lead	5.1	5.0	102.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	21.5	20.0	107.5	80-120
Silver	0.52	0.50	104.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23320
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/30/12

Metal	F95305-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	206	210	2.1	0-10
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	1.00	0.00	100.0(a)	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP23320: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.00036	<0.083

Associated samples MP23332: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12 07/31/12

Metal	F95217-1 Original	DUP	RPD	QC Limits	F95217-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0050	0.0	200.0(a)	0-20	0.0050	0.34	0.299	111.9	80-120

Associated samples MP23332: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	F95217-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0050	0.35	0.304	113.4	2.9	20

Associated samples MP23332: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/31/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.26	0.25	104.0	80-120

Associated samples MP23332: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

14.8.3

14

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23332
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 07/31/12

Metal	F95217-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0528	0.00	100.0(a)	0-10

Associated samples MP23332: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date:				08/01/12		08/01/12		08/01/12	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.0010	.00004	.00005	-0.000019	<0.0010	-0.000031	<0.010	-0.00016	<0.010

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 08/01/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.0010	.00004	.00005	0.000020	<0.010

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 08/01/12 08/01/12

Metal	F95335-1 Original	DUP	RPD	QC Limits	F95335-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.029	0.030	96.7	80-120

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 08/01/12

Metal	F95335-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.029	0.030	96.7	0.0	20

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 08/01/12 08/01/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0030	0.0030	100.0	80-120	0.030	0.030	100.0	80-120

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 08/01/12 08/01/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.030	0.030	100.0	80-120	0.030	0.030	100.0	80-120

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

QC Batch ID: MP23340
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 08/01/12

Metal	F95335-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23340: F95274-7A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

14.9.4

14

Instrument Detection Limits

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: LEEMANHG4 **Effective Date:** 04/09/12

Analyte	IDL ug/l
Mercury	.04

The above applies to the following instrument runs:
MA10000,MA10003

Instrument Detection Limits

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE1 **Effective Date:** 10/21/10

Analyte	IDL ug/l
Aluminum	20
Antimony	1
Arsenic	1
Barium	1
Beryllium	.1
Cadmium	.1
Calcium	50
Chromium	1
Cobalt	1
Copper	1
Iron	34
Lead	1
Magnesium	50
Manganese	1
Molybdenum	1
Nickel	1
Potassium	50
Selenium	2
Silicon	5
Silver	1
Sodium	750
Strontium	1
Thallium	1
Tin	1
Titanium	1.1
Vanadium	1
Zinc	1

The above applies to the following instrument runs:
MA9995,MA9999

Instrument Detection Limits

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE2 **Effective Date:** 10/21/10

Analyte	IDL ug/l
Aluminum	24
Antimony	1
Arsenic	1
Barium	4
Beryllium	.1
Cadmium	.1
Calcium	50
Chromium	1
Cobalt	1
Copper	1
Iron	23
Lead	1
Magnesium	50
Manganese	1
Molybdenum	1
Nickel	1
Potassium	50
Selenium	2
Silicon	5
Silver	1
Sodium	850
Strontium	1
Thallium	1.5
Tin	1
Titanium	1
Vanadium	1
Zinc	1

The above applies to the following instrument runs:
MA9998

Instrument Linear Ranges

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE1 **Effective Date:** 04/21/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA9995,MA9999

Instrument Linear Ranges

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA9998

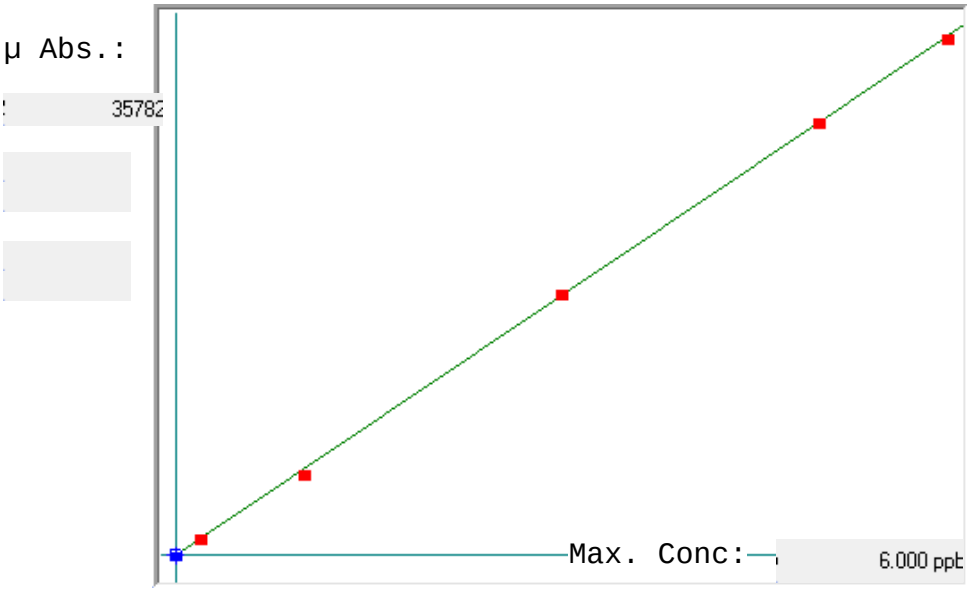
Southeast

Metals Analysis

Raw Data

HG7470a

Linear



A= 0.0000e+000

B= 1.6666e-004

C= 8.5137e-003

Rho= 0.9998997

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.023	0.023	84	0.000	84				
.2ppb	0.200	0.206	0.006	1182	0.0 %	1182				
1ppb	1.000	0.942	-0.058	5599	0.0 %	5599				
3ppb	3.000	3.036	0.036	18168	0.0 %	18168				
5ppb	5.000	5.022	0.022	30080	0.0 %	30080				
6ppb	6.000	5.972	-0.028	35782	0.0 %	35782				

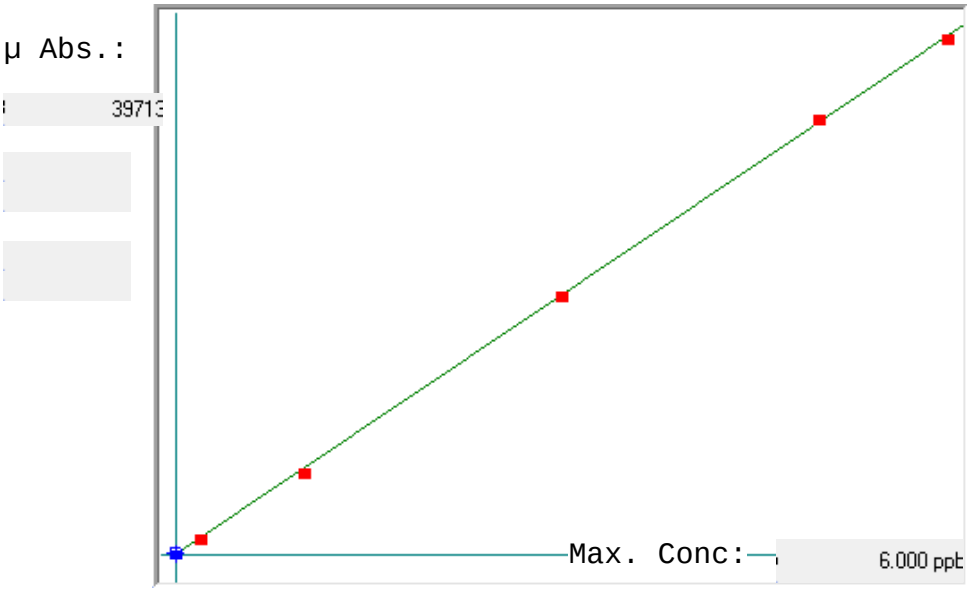
Inst QC: **MA10000**

Method: HG7470a Operator: Admin Date of Analysis: 31 Jul 2012 11:06:43

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
blank - 1	31 Jul 2012 12:21:36	Std	ppb	-	84	1.000	1.000
.2ppb - 1	31 Jul 2012 12:22:52	Std	ppb	-	1182	1.000	1.000
1ppb - 1	31 Jul 2012 12:24:09	Std	ppb	-	5599	1.000	1.000
3ppb - 1	31 Jul 2012 12:25:41	Std	ppb	-	18168	1.000	1.000
5ppb - 1	31 Jul 2012 12:27:32	Std	ppb	-	30080	1.000	1.000
6ppb - 1	31 Jul 2012 12:29:36	Std	ppb	-	35782	1.000	1.000
HSTD - 1	31 Jul 2012 12:31:46	CK STND	ppb	100.0% 5.9976	35935	1.000	1.000
ICV - 1	31 Jul 2012 12:33:58	CK STND	ppb	100.5% 3.0151	18040	1.000	1.000
ICB - 1	31 Jul 2012 12:36:08	CK STND	ppb	-0.0232	-190	1.000	1.000
CRI - 1	31 Jul 2012 12:38:11	CK STND	ppb	99.8% 0.1997	1147	1.000	1.000
CCV - 1	31 Jul 2012 12:39:28	CK STND	ppb	99.2% 2.9771	17812	1.000	1.000
CCB - 1	31 Jul 2012 12:40:56	CK STND	ppb	-0.0208	-176	1.000	1.000
MP23332-MB1 - 1	31 Jul 2012 12:43:02	SMPL	ppb	0.0043	-25	1.000	1.000
MP23332-B1 - 1	31 Jul 2012 12:44:17	SMPL	ppb	3.1575	18894	1.000	1.000
F95217-1 - 1	31 Jul 2012 12:45:33	SMPL	ppb	0.0528	266	1.000	1.000
MP23332-D1 - 1	31 Jul 2012 12:47:36	SMPL	ppb	0.0312	136	1.000	1.000
MP23332-SD1 - 1	31 Jul 2012 12:48:55	SMPL	ppb	-0.1366	-215	1.000	5.000
MP23332-S1 - 1	31 Jul 2012 12:50:13	SMPL	ppb	3.4240	20493	1.000	1.000
MP23332-S2 - 1	31 Jul 2012 12:51:29	SMPL	ppb	3.4516	20659	1.000	1.000
F95217-2 - 1	31 Jul 2012 12:53:31	SMPL	ppb	0.0342	154	1.000	1.000
F95217-3 - 1	31 Jul 2012 12:55:34	SMPL	ppb	0.0315	138	1.000	1.000
F95217-4 - 1	31 Jul 2012 12:56:53	SMPL	ppb	0.0087	1	1.000	1.000
CCV - 1	31 Jul 2012 12:58:13	CK STND	ppb	99.8% 2.9928	17906	1.000	1.000
CCB - 1	31 Jul 2012 12:59:30	CK STND	ppb	-0.0237	-193	1.000	1.000
F95217-5 - 1	31 Jul 2012 13:01:34	SMPL	ppb	0.0258	104	1.000	1.000
F95217-6 - 1	31 Jul 2012 13:02:51	SMPL	ppb	0.0988	542	1.000	1.000
F95274-1 - 1	31 Jul 2012 13:04:09	SMPL	ppb	0.0217	79	1.000	1.000
F95274-2 - 1	31 Jul 2012 13:05:27	SMPL	ppb	-0.0018	-62	1.000	1.000
F95274-3 - 1	31 Jul 2012 13:06:45	SMPL	ppb	0.0253	101	1.000	1.000
F95274-4 - 1	31 Jul 2012 13:08:02	SMPL	ppb	0.0417	199	1.000	1.000
F95274-5 - 1	31 Jul 2012 13:09:19	SMPL	ppb	0.0183	59	1.000	1.000
F95274-6 - 1	31 Jul 2012 13:10:37	SMPL	ppb	0.0123	23	1.000	1.000
F95322-1 - 1	31 Jul 2012 13:11:55	SMPL	ppb	0.0178	56	1.000	1.000
F95322-2 - 1	31 Jul 2012 13:13:12	SMPL	ppb	0.0195	66	1.000	1.000
CCV - 1	31 Jul 2012 13:14:28	CK STND	ppb	98.9% 2.9685	17760	1.000	1.000
CCB - 1	31 Jul 2012 13:15:44	CK STND	ppb	-0.0257	-205	1.000	1.000
F95322-3 - 1	31 Jul 2012 13:17:48	SMPL	ppb	0.0207	73	1.000	1.000
F95322-4 - 1	31 Jul 2012 13:19:04	SMPL	ppb	0.0267	109	1.000	1.000
F95322-5 - 1	31 Jul 2012 13:20:21	SMPL	ppb	0.0110	15	1.000	1.000
F95322-6 - 1	31 Jul 2012 13:21:39	SMPL	ppb	0.0945	516	1.000	1.000
F95322-7 - 1	31 Jul 2012 13:22:57	SMPL	ppb	-0.0175	-156	1.000	1.000
F95322-8 - 1	31 Jul 2012 13:24:16	SMPL	ppb	0.0213	77	1.000	1.000
CRI - 1	31 Jul 2012 13:25:32	SMPL	ppb	0.1880	1077	1.000	1.000
CCV - 1	31 Jul 2012 13:26:49	CK STND	ppb	95.2% 2.8551	17080	1.000	1.000
CCB - 1	31 Jul 2012 13:28:13	CK STND	ppb	-0.0243	-197	1.000	1.000

HG7470a

Linear



A= 0.0000e+000

B= 1.5043e-004

C= -2.9295e-003

Rho= 0.9999204

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.029	0.029	213	0.000	213				
.2ppb	0.200	0.199	-0.001	1342	0.0 %	1342				
1ppb	1.000	0.961	-0.039	6407	0.0 %	6407				
3ppb	3.000	2.996	-0.004	19937	0.0 %	19937				
5ppb	5.000	5.044	0.044	33551	0.0 %	33551				
6ppb	6.000	5.971	-0.029	39713	0.0 %	39713				

Inst QC: **MA10003**

Method: HG7470a Operator: Admin Date of Analysis: 01 Aug 2012 10:11:06

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
blank - 1	01 Aug 2012 11:54:21	Std	ppb	-	213	1.000	1.000
.2ppb - 1	01 Aug 2012 11:55:37	Std	ppb	-	1342	1.000	1.000
1ppb - 1	01 Aug 2012 11:56:54	Std	ppb	-	6407	1.000	1.000
3ppb - 1	01 Aug 2012 11:58:27	Std	ppb	-	19937	1.000	1.000
5ppb - 1	01 Aug 2012 12:00:16	Std	ppb	-	33551	1.000	1.000
6ppb - 1	01 Aug 2012 12:02:19	Std	ppb	-	39713	1.000	1.000
HSTD - 1	01 Aug 2012 12:04:25	CK STND	ppb	98.4% 5.9046	39272	1.000	1.000
ICV - 1	01 Aug 2012 12:06:34	CK STND	ppb	98.8% 2.9642	19725	1.000	1.000
ICB - 1	01 Aug 2012 12:08:42	CK STND	ppb	-0.0094	-43	1.000	1.000
CRI - 1	01 Aug 2012 12:10:45	CK STND	ppb	98.1% 0.1962	1324	1.000	1.000
CCV - 1	01 Aug 2012 12:12:03	CK STND	ppb	101.3% 3.0396	20226	1.000	1.000
CCB - 1	01 Aug 2012 12:13:35	CK STND	ppb	-0.0181	-101	1.000	1.000
MP23339-MB1 - 1	01 Aug 2012 12:55:19	SMPL	ppb	0.0263	194	1.000	1.000
MP23339-B1 - 1	01 Aug 2012 12:56:34	SMPL	ppb	2.9961	19937	1.000	1.000
F95334-1A - 1	01 Aug 2012 12:57:50	SMPL	ppb	-0.0189	-106	1.000	1.000
MP23339-D1 - 1	01 Aug 2012 12:59:52	SMPL	ppb	0.0008	25	1.000	1.000
MP23339-SD1 - 1	01 Aug 2012 13:01:08	SMPL	ppb	-0.0869	-96	1.000	5.000
MP23339-S1 - 1	01 Aug 2012 13:02:24	SMPL	ppb	2.9045	19328	1.000	1.000
MP23339-S2 - 1	01 Aug 2012 13:03:40	SMPL	ppb	2.9032	19319	1.000	1.000
MP23339-MB2 - 1	01 Aug 2012 13:05:42	SMPL	ppb	-0.0187	-105	1.000	1.000
MP23339-B2 - 1	01 Aug 2012 13:07:44	SMPL	ppb	2.9552	19665	1.000	1.000
MP23340-MB1 - 1	01 Aug 2012 13:09:02	SMPL	ppb	-0.0187	-105	1.000	1.000
CCV - 1	01 Aug 2012 13:11:03	CK STND	ppb	98.9% 2.9672	19745	1.000	1.000
CCB - 1	01 Aug 2012 13:12:19	CK STND	ppb	-0.0132	-68	1.000	1.000
MP23340-B1 - 1	01 Aug 2012 13:14:22	SMPL	ppb	2.9591	19691	1.000	1.000
F95335-1 - 1	01 Aug 2012 13:15:39	SMPL	ppb	-0.0217	-125	1.000	1.000
MP23340-D1 - 1	01 Aug 2012 13:17:41	SMPL	ppb	-0.0031	-1	1.000	1.000
MP23340-SD1 - 1	01 Aug 2012 13:18:57	SMPL	ppb	-0.0989	-112	1.000	5.000
MP23340-S1 - 1	01 Aug 2012 13:20:13	SMPL	ppb	2.9426	19581	1.000	1.000
MP23340-S2 - 1	01 Aug 2012 13:21:29	SMPL	ppb	2.9147	19396	1.000	1.000
F95330-2A - 1	01 Aug 2012 13:23:30	SMPL	ppb	-0.0141	-74	1.000	1.000
F95310-1 - 1	01 Aug 2012 13:25:32	SMPL	ppb	0.0056	57	1.000	1.000
F95274-7A - 1	01 Aug 2012 13:26:48	SMPL	ppb	-0.0020	6	1.000	1.000
F95407-1 - 1	01 Aug 2012 13:28:04	SMPL	ppb	0.0017	31	1.000	1.000
CCV - 1	01 Aug 2012 13:29:20	CK STND	ppb	96.9% 2.9081	19352	1.000	1.000
CCB - 1	01 Aug 2012 13:30:36	CK STND	ppb	-0.0160	-87	1.000	1.000
MP23340-MB2 - 1	01 Aug 2012 13:32:38	SMPL	ppb	-0.0031	-1	1.000	1.000
MP23340-B2 - 1	01 Aug 2012 13:33:54	SMPL	ppb	3.0036	19987	1.000	1.000
MP23340-MB3 - 1	01 Aug 2012 13:35:11	SMPL	ppb	-0.0159	-86	1.000	1.000
MP23340-B3 - 1	01 Aug 2012 13:37:15	SMPL	ppb	2.9572	19678	1.000	1.000
MP23340-D2 - 1	01 Aug 2012 13:38:32	SMPL	ppb	-0.0133	-69	1.000	1.000
MP23340-MB4 - 1	01 Aug 2012 13:40:33	SMPL	ppb	0.0020	33	1.000	1.000
MP23340-B4 - 1	01 Aug 2012 13:41:49	SMPL	ppb	2.9806	19834	1.000	1.000
CCV - 1	01 Aug 2012 13:45:07	CK STND	ppb	95.9% 2.8767	19143	1.000	1.000
CCB - 1	01 Aug 2012 13:46:37	CK STND	ppb	-0.0147	-78	1.000	1.000
CRI - 1	01 Aug 2012 13:51:51	SMPL	ppb	0.1950	1316	1.000	1.000
CCV - 1	01 Aug 2012 13:53:07	CK STND	ppb	96.3% 2.8899	19231	1.000	1.000
CCB - 1	01 Aug 2012 13:54:38	CK STND	ppb	-0.0135	-70	1.000	1.000

Zoom In ▶
Zoom Out

Sample Name: Blank Acquired: 7/27/2012 5:13:34 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0050	-.0016	.0044	.0011	.0033	-.0012	-.0010	.0001
Stddev	.0001	.0007	.0001	.0006	.0004	.0007	.0002	.0002	.0001
%RSD	136.4	14.20	7.867	14.12	34.08	21.72	14.28	16.85	66.68
#1	-.0003	.0043	-.0016	.0045	.0007	.0025	-.0012	-.0009	.0002
#2	.0000	.0051	-.0017	.0050	.0011	.0034	-.0014	-.0009	.0000
#3	.0000	.0057	-.0015	.0037	.0014	.0040	-.0011	-.0012	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0057	.0035	-.0008	-.0002	.0003	.0016	.0042	-.0008	-.0012
Stddev	.0002	.0007	.0002	.0005	.0001	.0003	.0004	.0002	.0004
%RSD	4.138	19.95	24.65	199.8	39.29	17.48	10.71	24.21	38.03
#1	.0058	.0043	-.0008	-.0006	.0004	.0017	.0045	-.0006	-.0013
#2	.0055	.0032	-.0006	.0003	.0004	.0018	.0043	-.0009	-.0015
#3	.0059	.0030	-.0009	-.0004	.0002	.0013	.0037	-.0008	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	-.0004	.0094	.0008	-.0017	.0036	-.0020	-.0004	.0027
Stddev	.0006	.0006	.0002	.0001	.0003	.0003	.0001	.0002	.0003
%RSD	74.02	142.1	2.131	10.20	17.42	7.946	6.027	50.01	9.508
#1	.0012	-.0004	.0092	.0007	-.0015	.0039	-.0021	-.0002	.0025
#2	.0009	.0002	.0095	.0008	-.0021	.0036	-.0019	-.0004	.0030
#3	.0001	-.0009	.0094	.0009	-.0017	.0033	-.0021	-.0006	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1494.9	2706.7	22083.	9139.6
Stddev	4.7	12.6	76.	29.1
%RSD	.31473	.46417	.34394	.31787
#1	1489.5	2692.2	22101.	9172.7
#2	1497.8	2715.0	22149.	9127.3
#3	1497.5	2712.8	22000.	9118.6

◀ Zoom In ▶
Zoom Out

Sample Name: LowStd Acquired: 7/27/2012 5:17:02 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0307	1.696	.1106	4.642	5.899	2.343	2.310	1.270	.2438	.5333
Stddev	.0002	.008	.0008	.015	.021	.007	.005	.001	.0013	.0019
%RSD	.6756	.4600	.7209	.3270	.3515	.2970	.1979	.0377	.5354	.3655
#1	.0309	1.702	.1103	4.641	5.895	2.337	2.311	1.270	.2448	.5328
#2	.0305	1.699	.1100	4.657	5.922	2.350	2.314	1.271	.2423	.5316
#3	.0307	1.687	.1115	4.627	5.881	2.341	2.305	1.270	.2442	.5354

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.081	.7015	.2528	1.555	.7088	2.946	.7710	.4136	.1668	.0798
Stddev	.008	.0030	.0006	.008	.0017	.006	.0007	.0008	.0004	.0005
%RSD	.3879	.4225	.2358	.5100	.2400	.1952	.0888	.1978	.2540	.5796
#1	2.076	.7002	.2522	1.556	.7068	2.947	.7702	.4145	.1673	.0793
#2	2.090	.7049	.2533	1.547	.7100	2.951	.7712	.4134	.1668	.0801
#3	2.076	.6994	.2528	1.563	.7095	2.940	.7715	.4129	.1664	.0801

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1928	.2277	8.034	1.105	.1992	.3452	1.008
Stddev	.0003	.0003	.024	.006	.0007	.0009	.002
%RSD	.1456	.1517	.2985	.5880	.3410	.2674	.2097
#1	.1925	.2274	8.022	1.105	.1993	.3445	1.010
#2	.1931	.2277	8.062	1.098	.1997	.3448	1.008
#3	.1928	.2280	8.018	1.111	.1984	.3462	1.006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1370.8	2668.1	21610.	9080.4
Stddev	1.0	5.4	91.	41.4
%RSD	.07497	.20240	.42197	.45556
#1	1371.4	2672.8	21652.	9074.9
#2	1369.6	2669.3	21673.	9042.0
#3	1371.3	2662.2	21506.	9124.2

◀ Zoom In ▶
Zoom Out

Sample Name: MidStd Acquired: 7/27/2012 5:20:08 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1245	6.675	.4535	18.59	23.53	9.214	9.094	4.956	.9608	2.113
Stddev	.0005	.012	.0013	.09	.07	.026	.026	.013	.0029	.015
%RSD	.3964	.1817	.2869	.5077	.2996	.2873	.2893	.2599	.2987	.7102
#1	.1251	6.665	.4536	18.52	23.48	9.202	9.091	4.954	.9627	2.098
#2	.1244	6.671	.4522	18.56	23.50	9.197	9.070	4.944	.9575	2.128
#3	.1241	6.688	.4548	18.70	23.61	9.245	9.122	4.969	.9621	2.112

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.880	2.784	.9976	6.088	2.849	11.72	2.990	1.712	.6696	.3249
Stddev	.019	.010	.0030	.006	.006	.04	.009	.003	.0027	.0009
%RSD	.2413	.3579	.3012	.1016	.1950	.3550	.2980	.1584	.4025	.2783
#1	7.880	2.777	.9948	6.081	2.850	11.68	2.990	1.715	.6697	.3246
#2	7.861	2.780	.9974	6.093	2.843	11.73	2.981	1.709	.6669	.3243
#3	7.899	2.796	1.001	6.088	2.855	11.76	2.999	1.711	.6722	.3260

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7752	.9067	32.61	4.463	.8055	1.404	3.991
Stddev	.0023	.0033	.42	.017	.0025	.002	.016
%RSD	.3004	.3662	1.295	.3803	.3087	.1446	.3892
#1	.7750	.9065	32.13	4.451	.8082	1.406	3.991
#2	.7730	.9034	32.78	4.482	.8033	1.404	3.976
#3	.7777	.9100	32.91	4.455	.8051	1.402	4.007

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1203.9	2520.8	20544.	8839.8
Stddev	.1	5.6	102.	17.1
%RSD	.00937	.22411	.49770	.19381
#1	1203.8	2522.9	20653.	8840.8
#2	1204.0	2525.1	20451.	8856.4
#3	1203.8	2514.4	20527.	8822.2

◀ Zoom In ▶
Zoom Out

Sample Name: HighStd Acquired: 7/27/2012 5:23:16 Type: Cal
Method: 60102007_042011(v154) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2521	13.19	.9030	36.04	44.98	17.90	17.52	9.559	1.849	4.183
Stddev	.0007	.02	.0021	.16	.25	.04	.02	.013	.002	.009
%RSD	.2959	.1613	.2338	.4364	.5638	.1974	.1006	.1395	.1073	.2258
#1	.2513	13.19	.9014	36.22	45.27	17.94	17.53	9.563	1.847	4.172
#2	.2528	13.21	.9022	36.00	44.84	17.91	17.50	9.544	1.849	4.191
#3	.2522	13.17	.9054	35.91	44.82	17.87	17.52	9.570	1.851	4.185

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	15.53	5.496	1.968	11.73	5.507	23.08	5.744	3.432	1.327	.6440
Stddev	.06	.004	.005	.02	.009	.04	.007	.011	.003	.0008
%RSD	.3675	.0714	.2616	.1294	.1680	.1951	.1246	.3229	.2516	.1297
#1	15.56	5.493	1.973	11.73	5.510	23.03	5.742	3.436	1.325	.6446
#2	15.56	5.500	1.968	11.75	5.497	23.12	5.737	3.440	1.325	.6430
#3	15.46	5.494	1.963	11.72	5.515	23.09	5.751	3.419	1.331	.6443

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.506	1.722	62.61	8.651	1.588	2.598	7.716
Stddev	.003	.003	.63	.015	.003	.005	.015
%RSD	.2167	.1987	1.009	.1728	.1878	.2047	.1968
#1	1.503	1.720	63.18	8.637	1.591	2.593	7.733
#2	1.506	1.719	61.93	8.667	1.589	2.596	7.703
#3	1.509	1.725	62.74	8.648	1.585	2.604	7.712

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1111.8	2456.0	20179.	8810.7
Stddev	2.5	4.2	18.	26.3
%RSD	.22876	.17243	.08699	.29838
#1	1111.5	2460.2	20183.	8791.6
#2	1109.4	2456.0	20160.	8799.8
#3	1114.5	2451.8	20195.	8840.6

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/27/2012 5:27:14 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4994	79.01	4.012	3.923	3.946	79.29	3.948	3.938	3.918	3.993
Stddev	.0002	.24	.005	.028	.009	.03	.003	.001	.018	.019
%RSD	.0322	.3086	.1142	.7139	.2331	.0437	.0648	.0318	.4706	.4722
#1	.4992	79.29	4.009	3.892	3.949	79.27	3.949	3.939	3.896	3.988
#2	.4995	78.92	4.017	3.945	3.954	79.28	3.945	3.937	3.929	4.014
#3	.4993	78.83	4.009	3.933	3.936	79.33	3.949	3.938	3.927	3.977
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	78.56	80.19	79.35	3.876	3.940	80.18	3.951	4.024	4.000	3.987
Stddev	.11	.20	.11	.014	.002	.21	.001	.011	.003	.009
%RSD	.1447	.2530	.1357	.3486	.0514	.2581	.0223	.2601	.0664	.2323
#1	78.66	80.36	79.47	3.864	3.938	80.36	3.950	4.013	4.000	3.986
#2	78.57	79.96	79.29	3.890	3.939	79.96	3.950	4.028	4.002	3.978
#3	78.43	80.25	79.29	3.872	3.942	80.23	3.952	4.033	3.997	3.996
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.002	3.960	3.957	3.929	3.995	3.900	3.969
Stddev	.001	.003	.049	.009	.017	.019	.004
%RSD	.0262	.0806	1.243	.2378	.4256	.4810	.1086
#1	4.001	3.962	4.011	3.922	3.976	3.884	3.972
#2	4.003	3.957	3.944	3.939	4.009	3.920	3.964
#3	4.001	3.962	3.915	3.925	3.999	3.895	3.971
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/27/2012 5:27:14 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.6	2455.7	20307.	8907.3
Stddev	4.0	2.0	62.	58.2
%RSD	.35969	.08198	.30672	.65346
#1	1118.2	2458.0	20362.	8843.0
#2	1111.6	2454.4	20240.	8922.7
#3	1111.1	2454.6	20321.	8956.3

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/27/2012 5:31:28 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2458	39.17	1.944	2.085	2.028	40.36	1.991	2.000	1.999	1.998
Stddev	.0018	.04	.001	.004	.005	.12	.002	.002	.009	.005
%RSD	.7387	.1081	.0256	.1843	.2422	.2908	.0737	.1132	.4655	.2365
#1	.2446	39.13	1.944	2.080	2.023	40.23	1.991	1.998	1.992	1.997
#2	.2448	39.16	1.945	2.086	2.029	40.40	1.992	2.003	1.997	1.994
#3	.2479	39.22	1.944	2.088	2.032	40.45	1.989	1.999	2.010	2.003
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.61	40.36	39.84	1.998	1.909	40.90	2.020	1.949	1.951	1.993
Stddev	.11	.07	.13	.010	.002	.05	.000	.006	.003	.003
%RSD	.2740	.1746	.3294	.4890	.0938	.1155	.0185	.2929	.1347	.1312
#1	40.50	40.29	39.70	1.990	1.910	40.88	2.020	1.953	1.949	1.992
#2	40.63	40.43	39.89	1.995	1.909	40.96	2.020	1.951	1.954	1.996
#3	40.72	40.34	39.95	2.009	1.907	40.87	2.019	1.942	1.950	1.992
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0453	1.906	2.009	1.947	2.055	2.016	2.009
Stddev	.0002	.003	.003	.008	.003	.003	.002
%RSD	.3355	.1665	.1333	.3922	.1530	.1493	.1064
#1	.0452	1.908	2.006	1.941	2.056	2.015	2.011
#2	.0455	1.909	2.010	1.945	2.058	2.014	2.009
#3	.0453	1.903	2.011	1.956	2.052	2.019	2.007
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/27/2012 5:31:28 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1217.5	2560.8	20751.	8988.4
Stddev	2.6	2.7	99.	2.9
%RSD	.21465	.10374	.47742	.03200
#1	1216.4	2561.4	20789.	8985.3
#2	1215.6	2557.9	20826.	8988.7
#3	1220.5	2563.1	20639.	8991.1

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/27/2012 5:36:53 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0037	.0007	-.0001	.0001	.0014	.0000	-.0001	.0000	.0003
Stddev	.0003	.0048	.0004	.0001	.0000	.0016	.000	.0001	.000	.0000
%RSD	84.88	129.9	60.57	111.3	4.392	114.8	246.1	72.78	996.3	10.76
#1	-.0001	.0042	.0011	.0000	.0001	.0032	.0000	-.0002	-.0003	.0003
#2	-.0004	-.0014	.0008	.0000	.0001	.0003	.0000	.0000	.0002	.0002
#3	-.0007	.0081	.0002	-.0002	.0001	.0006	.0000	-.0002	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0160	.0131	.0001	.0002	.0031	.0002	.0000	.0002	-.0003
Stddev	.0033	.0263	.0105	.0001	.0002	.0038	.0001	.0006	.0012	.0009
%RSD	189.5	163.9	80.25	73.65	79.60	122.4	36.44	8093.	540.1	304.6
#1	.0054	.0172	.0080	.0001	.0002	.0020	.0001	-.0007	.0014	-.0003
#2	.0004	.0417	.0061	.0000	.0000	.0074	.0002	.0003	-.0011	-.0011
#3	-.0007	-.0108	.0252	.0001	.0004	.0000	.0002	.0004	.0004	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0000	.0000	.0008	-.0006	.0001	-.0001
Stddev	.0003	.0001	.0000	.0001	.0011	.0002	.0001
%RSD	31.76	138.9	38.65	15.39	176.5	286.1	42.45
#1	.0011	.0000	.0000	.0009	-.0008	-.0002	-.0002
#2	.0007	.0000	.0001	.0007	.0006	.0003	-.0001
#3	.0013	.0001	.0000	.0007	-.0017	.0001	-.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/27/2012 5:36:53 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1455.0	2667.9	21305.	8964.4
Stddev	.1	2.4	26.	63.4
%RSD	.00954	.09005	.12222	.70770
#1	1455.1	2665.2	21328.	9000.6
#2	1455.1	2669.8	21277.	9001.4
#3	1454.8	2668.6	21311.	8891.1

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 5:40:48 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	.2195	.0120	.2177	.0054	1.072	.0059	.0551	.0107	.0271
Stddev	.0001	.0077	.0006	.0004	.0000	.009	.0002	.0003	.0003	.0001
%RSD	1.615	3.513	5.431	.1866	.2777	.8101	2.657	.6179	3.006	.3562
#1	.0088	.2123	.0126	.2176	.0054	1.071	.0059	.0547	.0104	.0269
#2	.0090	.2184	.0120	.2182	.0054	1.064	.0058	.0552	.0110	.0271
#3	.0088	.2277	.0113	.2174	.0055	1.082	.0061	.0553	.0106	.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3193	10.54	5.300	.0170	.0512	10.51	.0449	.0054	.0054	.0094
Stddev	.0027	.04	.035	.0001	.0003	.01	.0001	.0004	.0004	.0014
%RSD	.8402	.3815	.6605	.3204	.5336	.0768	.2807	6.568	7.836	14.39
#1	.3178	10.57	5.274	.0170	.0512	10.51	.0449	.0051	.0053	.0092
#2	.3177	10.55	5.287	.0170	.0509	10.51	.0450	.0054	.0051	.0082
#3	.3224	10.50	5.340	.0169	.0514	10.50	.0447	.0058	.0059	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.0539	.0107	.0102	.0113	.0547	.0230
Stddev	.0008	.0004	.0000	.0001	.0017	.0003	.0003
%RSD	13.48	.8034	.3495	.8712	14.65	.6328	1.121
#1	.0052	.0535	.0107	.0102	.0126	.0543	.0228
#2	.0069	.0538	.0107	.0103	.0095	.0550	.0229
#3	.0061	.0543	.0108	.0101	.0119	.0547	.0233
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 5:40:48 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1367.9	2602.7	20790.	8838.0
Stddev	3.5	2.6	40.	44.3
%RSD	.25783	.10168	.19433	.50175
#1	1371.8	2605.7	20746.	8826.3
#2	1364.8	2600.8	20800.	8887.0
#3	1367.1	2601.5	20825.	8800.6

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/27/2012 5:44:33 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0089	.0009	.0001	.0000	.0035	.0002	-.0010	-.0002	-.0006
Stddev	.0001	.0017	.0001	.0001	.000	.0013	.0000	.0001	.0001	.0000
%RSD	69.72	18.49	13.52	102.6	640.5	36.08	13.30	12.00	82.45	4.213
#1	-.0001	.0099	.0011	.0002	.0000	.0025	.0002	-.0011	-.0001	-.0006
#2	-.0002	.0099	.0010	.0000	.0000	.0031	.0003	-.0009	-.0003	-.0006
#3	-.0003	.0070	.0008	.0002	.0000	.0050	.0002	-.0011	-.0001	-.0006
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0062	.0062	.0109	.0001	-.0001	.0207	-.0013	-.0010	.0004	.0001
Stddev	.0022	.0025	.0126	.0000	.0003	.0020	.0001	.0001	.0012	.0012
%RSD	35.02	40.47	116.1	34.05	338.6	9.664	10.89	13.23	304.2	850.0
#1	-.0039	.0035	.0130	.0001	-.0003	.0216	-.0015	-.0009	-.0010	.0011
#2	-.0065	.0085	.0223	.0001	.0002	.0220	-.0013	-.0012	.0012	-.0012
#3	-.0083	.0067	-.0027	.0001	-.0001	.0184	-.0012	-.0010	.0010	.0005
Check ?	None	None	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.31	-.0013	.0000	-.0001	-.0011	.0003	-.0004
Stddev	.01	.0001	.000	.0001	.0010	.0002	.0002
%RSD	.0269	8.914	111.8	99.71	96.71	83.57	54.14
#1	45.30	-.0014	.0000	.0000	-.0012	.0000	-.0006
#2	45.31	-.0013	-.0001	-.0002	.0000	.0004	-.0002
#3	45.32	-.0012	-.0001	-.0003	-.0020	.0004	-.0003
Check ?	Chk Pass	None	None	None	None	None	None
Value							
Range							

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/27/2012 5:44:33 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1436.8	2667.5	21293.	8922.6
Stddev	6.5	3.9	32.	34.8
%RSD	.44954	.14533	.15002	.38985
#1	1441.8	2669.8	21329.	8936.7
#2	1429.5	2663.1	21270.	8948.2
#3	1439.2	2669.8	21279.	8883.0

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	494.1	F.0035	F.0011	.0000	476.4	-.0001	.0000
Stddev	.0004	1.8	.0004	.0000	.000	2.7	.0001	.000
%RSD	131.3	.3653	11.64	3.614	43.99	.5750	40.87	580.0
#1	-.0001	492.8	.0033	.0011	-.0001	479.0	-.0002	-.0003
#2	.0007	493.4	.0032	.0011	.0000	473.5	-.0001	.0001
#3	.0004	496.2	.0039	.0011	.0000	476.8	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020	.0010				
Low Limit			-.0020	-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	187.6	-.0249	521.9	.0005	.0004	.0832
Stddev	.000	.0004	1.0	.0209	1.8	.0000	.0004	.0083
%RSD	1011.	121.5	.5436	83.87	.3493	4.026	102.3	9.975
#1	-.0004	.0008	187.6	-.0335	523.6	.0004	.0002	.0882
#2	.0004	.0000	186.6	-.0402	520.0	.0005	.0009	.0878
#3	-.0001	.0003	188.6	-.0011	522.2	.0005	.0001	.0736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	F-.0031	F.0027	F.0039	.0173	-.0002	F.0022	F-.0027
Stddev	.0003	.0037	.0037	.0039	.0027	.0012	.0000	.0000
%RSD	101.6	119.8	134.9	101.0	15.73	585.5	1.957	1.807
#1	.0007	.0005	.0056	.0010	.0203	-.0014	.0022	-.0026
#2	.0000	-.0069	.0041	.0084	.0166	.0000	.0023	-.0027
#3	.0003	-.0029	-.0014	.0024	.0149	.0009	.0022	-.0026
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	None	Chk Pass	Chk Fail	Chk Fail
High Limit		.0010	.0020	.0020			.0010	.0020
Low Limit		-.0010	-.0020	-.0020			-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v154) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	.0006	.0020
Stddev	.0026	.0002	.0001
%RSD	162.4	38.45	4.980
#1	-.0034	.0003	.0019
#2	.0014	.0007	.0019
#3	-.0029	.0007	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	977.96	2318.3	18337.	8344.5
Stddev	1.74	1.2	21.	43.4
%RSD	.17819	.05132	.11694	.51984
#1	979.69	2317.4	18330.	8308.1
#2	977.97	2317.8	18361.	8392.5
#3	976.21	2319.6	18320.	8332.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	494.1	.0000	F.0011	.0000	476.4	-.0001	.0000
Stddev	.0004	1.8	.000	.0000	.000	2.7	.0001	.000
%RSD	131.3	.3653	1062.	3.614	43.99	.5750	40.87	580.0
#1	-.0001	492.8	-.0002	.0011	-.0001	479.0	-.0002	-.0003
#2	.0007	493.4	-.0003	.0011	.0000	473.5	-.0001	.0001
#3	.0004	496.2	.0004	.0011	.0000	476.8	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	187.6	-.0249	521.9	.0005	.0004	.0832
Stddev	.000	.0004	1.0	.0209	1.8	.0000	.0004	.0083
%RSD	1011.	121.5	.5436	83.87	.3493	4.026	102.3	9.975
#1	-.0004	.0008	187.6	-.0335	523.6	.0004	.0002	.0882
#2	.0004	.0000	186.6	-.0402	520.0	.0005	.0009	.0878
#3	-.0001	.0003	188.6	-.0011	522.2	.0005	.0001	.0736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0000	.0001	.0000	.0173	-.0002	F.0022	F-.0027
Stddev	.0003	.004	.0037	.0039	.0027	.0012	.0000	.0000
%RSD	101.7	358300.	6781.	125300.	15.73	585.5	1.957	1.807
#1	.0007	.0036	.0029	-.0029	.0203	-.0014	.0022	-.0026
#2	.0000	-.0038	.0014	.0045	.0166	.0000	.0023	-.0027
#3	.0003	.0003	-.0041	-.0015	.0149	.0009	.0022	-.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit							.0010	.0020
Low Limit							-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 5:48:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	.0006	.0020
Stddev	.0026	.0002	.0001
%RSD	162.4	38.45	4.971
#1	-.0034	.0003	.0019
#2	.0014	.0007	.0019
#3	-.0029	.0007	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	977.96	2318.3	18337.	8344.5
Stddev	1.74	1.2	21.	43.4
%RSD	.17819	.05132	.11694	.51984
#1	979.69	2317.4	18330.	8308.1
#2	977.97	2317.8	18361.	8392.5
#3	976.21	2319.6	18320.	8332.8

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 5:53:21 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.068	487.6	.9996	.5423	.5085	472.7	.9240	.4588	.5100	.5805
Stddev	.006	4.4	.0021	.0033	.0008	4.7	.0004	.0002	.0013	.0006
%RSD	.5316	.8956	.2081	.6123	.1478	1.004	.0484	.0496	.2490	.1117
#1	1.074	485.5	.9999	.5387	.5077	467.2	.9245	.4586	.5097	.5798
#2	1.065	492.6	.9974	.5432	.5088	474.7	.9238	.4590	.5115	.5806
#3	1.065	484.7	1.001	.5452	.5091	476.1	.9237	.4589	.5090	.5811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.2	.0003	517.5	.4998	.9403	.0804	.9087	.9988	.9979	.9867
Stddev	1.2	.0049	1.9	.0007	.0012	.0023	.0022	.0019	.0037	.0054
%RSD	.6617	1941.	.3651	.1301	.1309	2.835	.2385	.1931	.3663	.5427
#1	182.9	.0031	516.5	.4995	.9400	.0808	.9064	1.000	.9939	.9850
#2	184.6	-.0054	519.7	.5006	.9392	.0780	.9089	.9995	1.001	.9824
#3	182.2	.0030	516.4	.4994	.9416	.0825	.9107	.9966	.9986	.9927
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.8575	1.033	1.036	.9919	.5148	.9231
Stddev	.0019	.0028	.004	.002	.0019	.0007	.0009
%RSD	25.19	.3248	.3423	.2112	.1903	.1410	.1025
#1	.0059	.8561	1.029	1.037	.9936	.5139	.9220
#2	.0071	.8557	1.033	1.034	.9922	.5153	.9234
#3	.0096	.8607	1.036	1.038	.9899	.5151	.9238
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 5:53:21 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	967.16	2324.0	18302.	8485.8
Stddev	3.88	2.9	36.	47.3
%RSD	.40082	.12408	.19827	.55735
#1	963.34	2320.8	18305.	8522.9
#2	967.04	2326.3	18336.	8432.5
#3	971.09	2325.0	18264.	8501.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 5:57:59 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2471	39.47	1.992	2.070	2.044	40.35	2.016	1.995	2.039	2.052
Stddev	.0018	.14	.020	.016	.006	.04	.020	.019	.007	.008
%RSD	.7362	.3592	.9767	.7500	.2845	.1019	.9746	.9704	.3551	.4018
#1	.2451	39.42	1.982	2.064	2.040	40.39	2.007	1.986	2.036	2.044
#2	.2487	39.36	1.978	2.058	2.043	40.35	2.004	1.982	2.047	2.061
#3	.2475	39.63	2.014	2.087	2.051	40.31	2.039	2.017	2.033	2.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.64	40.35	40.24	2.068	2.000	40.32	2.031	2.009	1.985	1.987
Stddev	.09	.26	.07	.006	.021	.18	.020	.015	.023	.020
%RSD	.2212	.6414	.1692	.3121	1.040	.4437	.9941	.7477	1.145	1.023
#1	39.60	40.30	40.18	2.065	1.992	40.21	2.021	2.001	1.973	1.979
#2	39.57	40.13	40.24	2.075	1.985	40.22	2.017	2.001	1.971	1.973
#3	39.74	40.63	40.31	2.063	2.024	40.52	2.054	2.027	2.011	2.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.018	2.062	2.074	2.064	2.041	2.125	2.029
Stddev	.021	.020	.011	.007	.016	.008	.019
%RSD	1.068	.9725	.5226	.3405	.7782	.3948	.9374
#1	2.011	2.052	2.069	2.062	2.027	2.121	2.018
#2	2.000	2.050	2.065	2.072	2.037	2.134	2.017
#3	2.042	2.085	2.086	2.059	2.058	2.119	2.051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 5:57:59 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1189.6	2533.7	20215.	8815.6
Stddev	8.8	23.9	47.	17.2
%RSD	.73846	.94430	.23495	.19509
#1	1196.0	2542.6	20241.	8795.8
#2	1193.2	2551.9	20160.	8827.1
#3	1179.6	2506.6	20244.	8823.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:02:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0085	.0015	.0002	.0001	.0086	.0001	.0000	.0000	.0007
Stddev	.0002	.0005	.0005	.0000	.0000	.0013	.0000	.000	.000	.0002
%RSD	92.82	6.136	33.89	19.42	21.62	15.02	42.94	5353.	337.8	37.14
#1	-.0002	.0088	.0018	.0002	.0001	.0100	.0001	-.0001	-.0001	.0006
#2	-.0005	.0089	.0019	.0002	.0001	.0082	.0000	.0001	.0001	.0009
#3	-.0001	.0079	.0009	.0002	.0001	.0075	.0001	.0000	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107	-.0030	.0232	.0002	.0000	.0181	.0004	-.0001	-.0007	-.0018
Stddev	.0057	.0153	.0058	.0001	.0001	.0061	.0002	.0006	.0009	.0023
%RSD	52.84	515.8	25.05	28.06	5191.	33.77	42.17	475.2	131.5	126.1
#1	.0170	.0088	.0176	.0003	.0001	.0130	.0004	-.0008	-.0007	-.0030
#2	.0092	-.0202	.0292	.0002	-.0001	.0164	.0003	.0000	.0002	.0008
#3	.0059	.0025	.0229	.0003	.0000	.0248	.0006	.0004	-.0015	-.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	.0006	.0001	.0003	.0002	.0001	.0003
Stddev	.0006	.0000	.0000	.0001	.0004	.0002	.0001
%RSD	22.33	5.919	23.38	30.06	219.8	158.9	31.54
#1	.0030	.0006	.0001	.0003	-.0002	.0004	.0004
#2	.0019	.0006	.0001	.0003	.0003	.0000	.0002
#3	.0026	.0006	.0001	.0002	.0004	.0000	.0004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:02:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1443.5	2663.5	21077.	8833.1
Stddev	1.6	4.6	47.	39.4
%RSD	.11028	.17455	.22462	.44652
#1	1444.6	2663.9	21037.	8856.4
#2	1441.7	2658.7	21063.	8855.4
#3	1444.2	2668.0	21129.	8787.6

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/27/2012 6:06:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0100	-.0009	.0000	-.0001	.0194	.0000	-.0002	.0002	-.0002
Stddev	.0004	.0011	.0005	.0001	.0000	.0008	.000	.0002	.0001	.0002
%RSD	94.84	11.26	55.99	3488.	41.57	3.898	25.81	97.04	31.85	98.12
#1	-.0007	.0108	-.0013	-.0001	.0000	.0202	.0000	-.0004	.0003	.0000
#2	-.0004	.0087	-.0003	.0001	-.0001	.0191	.0000	-.0001	.0002	-.0004
#3	.0000	.0105	-.0011	.0000	-.0001	.0188	.0000	.0000	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0305	.0177	.0064	.0004	.0005	.0095	.0011	-.0010	.0004	.0003
Stddev	.0022	.0126	.0085	.0000	.0002	.0049	.0001	.0005	.0001	.0008
%RSD	7.060	71.14	132.7	4.524	40.01	51.91	9.582	54.54	26.66	260.9
#1	.0327	.0204	.0001	.0004	.0006	.0112	.0012	-.0015	.0004	-.0001
#2	.0304	.0039	.0030	.0004	.0005	.0133	.0010	-.0005	.0003	-.0002
#3	.0284	.0286	.0162	.0004	.0003	.0039	.0012	-.0009	.0004	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161	.0139	.0000	-.0003	-.0007	.0002	.0010
Stddev	.0003	.0003	.0001	.0001	.0011	.0001	.0001
%RSD	2.154	2.501	709.6	20.44	162.8	67.80	6.909
#1	.0163	.0144	.0001	-.0002	-.0014	.0002	.0011
#2	.0157	.0137	-.0001	-.0003	-.0012	.0000	.0011
#3	.0163	.0138	.0000	-.0004	.0006	.0002	.0010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/27/2012 6:06:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1405.9	2594.3	20627.	8679.2
Stddev	5.8	13.4	68.	51.1
%RSD	.41528	.51595	.32854	.58930
#1	1399.6	2580.4	20560.	8637.4
#2	1406.9	2595.4	20625.	8736.3
#3	1411.2	2607.1	20696.	8664.1

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/27/2012 6:11:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	27.46	1.934	2.186	.0535	25.60	.0505	.5112	.2126	.2655
Stddev	.0006	.05	.007	.003	.0002	.14	.0002	.0017	.0011	.0012
%RSD	1.333	.1882	.3874	.1316	.4109	.5326	.3374	.3371	.5277	.4473
#1	.0463	27.40	1.926	2.183	.0533	25.57	.0504	.5099	.2113	.2641
#2	.0473	27.48	1.935	2.188	.0534	25.48	.0504	.5105	.2133	.2663
#3	.0474	27.50	1.941	2.188	.0537	25.75	.0507	.5132	.2132	.2660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.22	25.57	25.22	.5402	.4904	25.56	.5248	.4741	.4939	1.922
Stddev	.06	.03	.10	.0026	.0020	.10	.0020	.0010	.0023	.007
%RSD	.2273	.1323	.3993	.4865	.4065	.3781	.3836	.2046	.4620	.3425
#1	27.18	25.55	25.20	.5372	.4890	25.45	.5248	.4739	.4914	1.920
#2	27.19	25.61	25.13	.5416	.4896	25.64	.5228	.4752	.4959	1.917
#3	27.29	25.56	25.33	.5418	.4927	25.58	.5268	.4733	.4944	1.930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163	.4969	.5010	.5039	1.938	.5308	.5124
Stddev	.0004	.0027	.0005	.0018	.010	.0019	.0029
%RSD	2.169	.5397	.1059	.3535	.5010	.3545	.5744
#1	.0159	.4941	.5005	.5018	1.938	.5287	.5108
#2	.0165	.4971	.5015	.5051	1.929	.5322	.5105
#3	.0165	.4994	.5009	.5047	1.948	.5316	.5158
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/27/2012 6:11:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1232.1	2506.8	19869.	8513.4
Stddev	2.9	5.2	61.	40.5
%RSD	.23712	.20563	.30899	.47549
#1	1229.8	2505.2	19909.	8509.4
#2	1235.4	2512.6	19798.	8555.8
#3	1231.0	2502.6	19900.	8475.1

Zoom In
Zoom Out

Sample Name: F95217-1 Acquired: 7/27/2012 6:15:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	350.4	.1142	2.793	.0268	2231.	-.0073	.1503	.4598	.2906
Stddev	.0047	.3	.0053	.010	.0002	3.	.0013	.0014	.0060	.0011
%RSD	243.3	.0966	4.606	.3737	.8438	.1468	18.17	.9358	1.308	.3796
#1	-.0048	350.0	.1193	2.801	.0271	2229.	-.0081	.1493	.4625	.2900
#2	.0035	350.7	.1088	2.798	.0268	2230.	-.0081	.1519	.4529	.2898
#3	-.0046	350.5	.1144	2.781	.0266	2235.	-.0058	.1498	.4639	.2918

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	410.1	64.01	371.4	5.449	.0121	62.06	.4276	.2316	-.0225	-.0017
Stddev	.2	.32	.7	.014	.0011	.16	.0036	.0082	.0094	.0114
%RSD	.0514	.5069	.1950	.2521	9.501	.2616	.8350	3.551	41.64	683.8
#1	409.8	63.68	372.2	5.438	.0108	61.98	.4268	.2394	-.0137	.0013
#2	410.2	64.33	370.8	5.445	.0126	62.24	.4245	.2326	-.0214	-.0143
#3	410.1	64.00	371.1	5.464	.0129	61.95	.4315	.2230	-.0323	.0080

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	44.96	.0279	4.587	3.026	.0047	.7107	1.148
Stddev	.17	.0048	.010	.011	.0056	.0011	.003
%RSD	.3792	17.06	.2182	.3586	119.6	.1583	.2239
#1	44.78	.0244	4.595	3.020	.0016	.7094	1.147
#2	45.12	.0333	4.591	3.019	.0013	.7116	1.147
#3	44.97	.0259	4.576	3.038	.0112	.7111	1.151

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1160.0	2577.5	20314.	8845.6
Stddev	1.1	6.9	38.	8.0
%RSD	.09526	.26753	.18689	.09068
#1	1159.1	2582.3	20353.	8841.4
#2	1161.2	2569.6	20311.	8840.6
#3	1159.8	2580.5	20277.	8854.8

Zoom In
Zoom Out

Sample Name: MP23311-D1 Acquired: 7/27/2012 6:19:36 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0064	290.7	.1064	3.457	.0239	2185.	-.0055	.1598	.3570	.2590
Stddev	.0026	.5	.0040	.001	.0002	11.	.0003	.0014	.0074	.0013
%RSD	41.29	.1706	3.765	.0394	.7358	.4838	5.226	.8631	2.065	.5108
#1	-.0081	290.2	.1023	3.459	.0237	2173.	-.0057	.1582	.3486	.2599
#2	-.0077	290.9	.1103	3.457	.0240	2190.	-.0052	.1606	.3600	.2575
#3	-.0034	291.1	.1067	3.456	.0239	2192.	-.0055	.1605	.3625	.2597

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	345.3	54.95	324.1	5.914	.0084	57.80	.3841	.2227	-.0258	-.0116
Stddev	1.0	.10	.4	.025	.0016	.10	.0027	.0051	.0127	.0113
%RSD	.2925	.1769	.1273	.4294	18.43	.1780	.6915	2.306	49.21	97.20
#1	344.3	54.84	323.7	5.922	.0102	57.79	.3858	.2218	-.0313	-.0246
#2	346.3	54.99	324.5	5.885	.0077	57.91	.3810	.2282	-.0348	-.0041
#3	345.4	55.02	324.1	5.933	.0073	57.70	.3854	.2180	-.0113	-.0062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	59.17	.0265	5.247	2.623	-.0161	.6180	1.044
Stddev	.10	.0071	.001	.014	.0239	.0007	.003
%RSD	.1711	26.94	.0127	.5243	148.5	.1075	.3021
#1	59.10	.0343	5.247	2.622	-.0023	.6188	1.045
#2	59.12	.0204	5.247	2.610	-.0436	.6178	1.041
#3	59.29	.0248	5.246	2.638	-.0023	.6176	1.047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1188.1	2624.0	20764.	9126.5
Stddev	3.0	2.8	58.	28.3
%RSD	.25570	.10591	.27750	.31013
#1	1185.5	2622.0	20721.	9158.3
#2	1187.3	2627.2	20830.	9103.9
#3	1191.4	2622.9	20742.	9117.4

Zoom In
Zoom Out

Sample Name: MP23311-SD1 Acquired: 7/27/2012 6:24:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0057	356.7	.1432	2.854	.0260	2373.	-.0108	.1543	.4866	.3132
Stddev	.0032	1.6	.0316	.025	.0010	13.	.0035	.0053	.0259	.0068
%RSD	56.19	.4624	22.09	.8611	3.748	.5624	32.34	3.464	5.333	2.166
#1	-.0081	356.3	.1795	2.827	.0253	2363.	-.0074	.1593	.4941	.3208
#2	-.0021	358.5	.1285	2.862	.0271	2388.	-.0105	.1487	.4577	.3109
#3	-.0071	355.2	.1217	2.874	.0257	2367.	-.0144	.1551	.5079	.3078

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	432.9	63.52	384.9	5.754	.0026	63.08	.4659	.2257	-.0825	-.0333
Stddev	2.2	.84	2.2	.015	.0051	.43	.0081	.0185	.0210	.0320
%RSD	.5074	1.318	.5673	.2556	199.8	.6749	1.744	8.201	25.49	96.23
#1	431.0	64.48	383.9	5.737	.0009	62.61	.4705	.2043	-.0649	.0037
#2	435.3	62.94	387.4	5.764	-.0015	63.42	.4707	.2364	-.1058	-.0524
#3	432.4	63.15	383.4	5.760	.0083	63.22	.4565	.2364	-.0768	-.0511

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	46.44	.0036	4.752	3.129	-.0443	.7416	1.215
Stddev	.06	.0197	.014	.023	.0344	.0122	.007
%RSD	.1298	548.0	.3036	.7429	77.62	1.641	.5795
#1	46.44	.0142	4.740	3.125	-.0552	.7511	1.210
#2	46.50	.0158	4.768	3.154	-.0719	.7459	1.223
#3	46.38	-.0192	4.748	3.108	-.0058	.7279	1.212

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1304.8	2593.8	20473.	8660.6
Stddev	2.8	5.0	51.	46.2
%RSD	.21397	.19293	.25126	.53341
#1	1303.9	2593.0	20517.	8688.1
#2	1307.9	2599.2	20416.	8607.3
#3	1302.5	2589.2	20485.	8686.5

Zoom In
Zoom Out

Sample Name: MP23311-PS1 Acquired: 7/27/2012 6:28:25 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0489	348.0	.2090	3.023	.0816	2202.	.0435	.1969	.5069	.3918
Stddev	.0042	.2	.0108	.016	.0002	5.	.0007	.0006	.0050	.0039
%RSD	8.615	.0492	5.157	.5289	.2702	.2203	1.722	.3204	.9891	1.007
#1	.0537	348.1	.2041	3.020	.0819	2203.	.0438	.1976	.5047	.3872
#2	.0460	347.8	.2014	3.009	.0815	2196.	.0441	.1965	.5034	.3939
#3	.0469	348.0	.2213	3.041	.0815	2206.	.0427	.1966	.5126	.3942

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	407.8	74.24	373.1	5.424	.1109	71.91	.5213	.2730	.0795	.0987
Stddev	.2	.20	.8	.017	.0015	.20	.0021	.0076	.0138	.0111
%RSD	.0552	.2732	.2234	.3185	1.315	.2769	.4069	2.781	17.39	11.28
#1	407.6	74.44	372.4	5.424	.1119	72.02	.5237	.2666	.0683	.1069
#2	407.8	74.04	374.0	5.407	.1093	71.68	.5197	.2814	.0950	.1030
#3	408.1	74.24	372.9	5.441	.1117	72.03	.5206	.2709	.0753	.0860

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.01	.0724	4.582	3.117	.0840	.7556	1.408
Stddev	.12	.0053	.011	.004	.0298	.0013	.003
%RSD	.2580	7.311	.2490	.1283	35.47	.1696	.2171
#1	45.14	.0676	4.580	3.116	.1114	.7568	1.411
#2	45.00	.0716	4.572	3.121	.0882	.7556	1.409
#3	44.90	.0781	4.595	3.113	.0523	.7543	1.405

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1158.2	2574.0	20227.	8727.6
Stddev	1.3	8.0	42.	24.9
%RSD	.11552	.31136	.20575	.28547
#1	1159.8	2566.4	20188.	8707.9
#2	1157.5	2573.2	20271.	8755.6
#3	1157.4	2582.3	20222.	8719.2

Zoom In Zoom Out

Sample Name: MP23311-S1 Acquired: 7/27/2012 6:32:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0456	377.7	2.049	5.405	.0795	2259.	.0436	.6372	.6392	.5353
Stddev	.0050	.8	.011	.007	.0001	8.	.0000	.0021	.0012	.0065
%RSD	10.87	.2027	.5183	.1367	.1814	.3448	.0947	.3301	.1801	1.205
#1	.0451	376.8	2.044	5.406	.0794	2255.	.0436	.6359	.6387	.5279
#2	.0508	378.3	2.061	5.397	.0796	2268.	.0435	.6360	.6383	.5390
#3	.0409	377.9	2.042	5.411	.0794	2254.	.0436	.6396	.6405	.5391

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	417.5	93.39	393.3	6.246	.4323	84.31	.9013	.7437	.1396	1.934
Stddev	1.0	.08	.6	.017	.0009	.20	.0039	.0092	.0034	.027
%RSD	.2434	.0907	.1578	.2674	.1987	.2327	.4378	1.241	2.471	1.396
#1	416.4	93.31	392.9	6.242	.4317	84.47	.9028	.7527	.1427	1.956
#2	418.3	93.37	394.0	6.264	.4320	84.09	.8969	.7441	.1359	1.941
#3	417.9	93.48	393.1	6.232	.4333	84.38	.9044	.7343	.1402	1.904

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	40.21	.4778	5.747	3.592	2.044	1.197	1.602
Stddev	.15	.0059	.007	.018	.020	.002	.004
%RSD	.3780	1.229	.1140	.5151	.9817	.1666	.2580
#1	40.22	.4757	5.753	3.572	2.041	1.196	1.604
#2	40.06	.4732	5.740	3.609	2.025	1.197	1.604
#3	40.36	.4844	5.748	3.594	2.065	1.200	1.597

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1157.6	2573.3	20274.	8796.4
Stddev	2.1	9.3	28.	6.3
%RSD	.18508	.36085	.13983	.07106
#1	1159.6	2573.8	20303.	8802.7
#2	1157.7	2582.4	20247.	8790.2
#3	1155.4	2563.8	20273.	8796.1

Zoom In Zoom Out

Sample Name: MP23311-S2 Acquired: 7/27/2012 6:37:15 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0463	406.7	1.984	5.781	.0811	2440.	.0417	.6705	.6499	.5751
Stddev	.0047	1.3	.011	.026	.0007	13.	.0010	.0007	.0029	.0019
%RSD	10.20	.3306	.5603	.4428	.9189	.5502	2.339	.1087	.4511	.3341
#1	.0447	405.1	1.996	5.762	.0819	2426.	.0423	.6711	.6486	.5768
#2	.0425	407.2	1.975	5.771	.0809	2440.	.0406	.6697	.6532	.5753
#3	.0515	407.6	1.980	5.810	.0805	2453.	.0422	.6706	.6478	.5730

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	440.0	97.30	410.5	7.059	.4101	92.16	.9511	.7471	.1090	1.861
Stddev	1.6	.21	2.2	.021	.0023	.24	.0034	.0069	.0121	.021
%RSD	.3528	.2163	.5322	.2956	.5701	.2590	.3570	.9186	11.09	1.100
#1	438.2	97.18	408.1	7.038	.4077	92.04	.9488	.7406	.1086	1.876
#2	440.6	97.18	411.4	7.059	.4101	92.01	.9550	.7543	.1213	1.870
#3	441.1	97.55	412.2	7.080	.4124	92.44	.9494	.7464	.0971	1.838

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	52.26	.4578	6.864	3.675	1.969	1.222	1.718
Stddev	.04	.0044	.023	.022	.010	.002	.002
%RSD	.0689	.9558	.3344	.6022	.4862	.1521	.1155
#1	52.24	.4565	6.840	3.649	1.958	1.220	1.717
#2	52.24	.4543	6.868	3.688	1.975	1.222	1.718
#3	52.30	.4627	6.885	3.687	1.973	1.224	1.720

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1156.2	2576.5	20447.	8916.5
Stddev	2.7	8.4	28.	10.8
%RSD	.23403	.32689	.13933	.12072
#1	1158.0	2577.2	20464.	8928.3
#2	1157.4	2584.6	20463.	8914.1
#3	1153.1	2567.8	20414.	8907.2

Zoom In Zoom Out

Sample Name: F95217-2 Acquired: 7/27/2012 6:41:39 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	312.6	.0967	3.588	.0252	2352.	-.0055	.1543	.3889	.2655
Stddev	.0021	1.5	.0066	.020	.0003	22.	.0006	.0022	.0019	.0010
%RSD	127.2	.4693	6.772	.5572	1.119	.9153	11.19	1.416	.4860	.3679
#1	-.0033	311.7	.0903	3.569	.0249	2336.	-.0048	.1518	.3891	.2647
#2	.0007	311.9	.1034	3.585	.0251	2344.	-.0060	.1553	.3907	.2666
#3	-.0025	314.3	.0966	3.609	.0255	2376.	-.0058	.1559	.3869	.2652

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	371.6	58.69	333.0	5.983	.0109	59.04	.3948	.2266	-.0113	.0051
Stddev	1.3	.30	1.6	.004	.0028	.18	.0045	.0101	.0188	.0044
%RSD	.3386	.5075	.4893	.0720	25.93	.3079	1.143	4.478	166.1	86.44
#1	370.6	59.00	331.3	5.981	.0124	58.86	.3964	.2314	-.0043	.0038
#2	371.3	58.40	333.0	5.988	.0126	59.22	.3897	.2149	.0030	.0015
#3	373.0	58.66	334.6	5.980	.0076	59.04	.3982	.2334	-.0326	.0099

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	49.93	.0263	6.583	2.877	-.0169	.6546	1.069
Stddev	.09	.0008	.008	.014	.0049	.0019	.004
%RSD	.1882	3.198	.1280	.4779	29.15	.2970	.3818
#1	49.97	.0263	6.574	2.887	-.0132	.6526	1.066
#2	49.83	.0254	6.585	2.861	-.0225	.6565	1.069
#3	50.00	.0271	6.591	2.884	-.0150	.6548	1.074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1165.4	2573.2	20273.	8804.8
Stddev	2.2	5.9	30.	40.8
%RSD	.19202	.22873	.14896	.46371
#1	1163.4	2571.1	20266.	8838.2
#2	1165.0	2579.8	20306.	8816.9
#3	1167.8	2568.6	20247.	8759.3

Zoom In Zoom Out

Sample Name: F95217-3 Acquired: 7/27/2012 6:46:07 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0032	288.1	.0889	4.277	.0226	2506.	-.0063	.1412	.3764	.2408
Stddev	.0039	.4	.0014	.001	.0003	20.	.0003	.0014	.0051	.0019
%RSD	122.2	.1418	1.581	.0259	1.430	.8080	4.519	1.023	1.362	.7737
#1	-.0076	288.3	.0873	4.278	.0227	2505.	-.0063	.1395	.3741	.2399
#2	.0000	288.3	.0899	4.277	.0228	2487.	-.0061	.1419	.3823	.2395
#3	-.0020	287.6	.0896	4.276	.0222	2527.	-.0067	.1422	.3729	.2429

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	360.4	55.83	306.5	6.422	.0099	55.72	.3591	.2291	-.0214	-.0001
Stddev	.1	.15	.6	.004	.0024	.13	.0032	.0091	.0077	.0147
%RSD	.0394	.2615	.1904	.0706	24.51	.2258	.8850	3.972	35.83	10190.
#1	360.2	55.75	306.0	6.418	.0102	55.80	.3559	.2278	-.0294	.0120
#2	360.4	55.99	306.3	6.427	.0122	55.79	.3623	.2388	-.0207	.0040
#3	360.5	55.73	307.2	6.421	.0074	55.58	.3590	.2207	-.0141	-.0165

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.91	.0175	10.20	2.911	-.0248	.6571	.9948
Stddev	.09	.0037	.02	.003	.0135	.0038	.0017
%RSD	.1881	20.98	.1696	.1137	54.18	.5768	.1723
#1	47.82	.0155	10.22	2.911	-.0233	.6554	.9944
#2	47.91	.0218	10.20	2.914	-.0390	.6544	.9933
#3	48.00	.0153	10.19	2.908	-.0122	.6614	.9967

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1162.3	2576.1	20241.	8812.7
Stddev	2.5	5.5	21.	31.6
%RSD	.21373	.21417	.10539	.35853
#1	1164.9	2582.4	20264.	8818.2
#2	1162.2	2573.6	20222.	8841.2
#3	1159.9	2572.3	20236.	8778.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 6:50:33 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2583	41.38	2.074	2.177	2.151	42.32	2.096	2.074	2.138
Stddev	.0014	.10	.006	.006	.005	.10	.002	.004	.006
%RSD	.5260	.2438	.2793	.2799	.2200	.2471	.1090	.2022	.2912
#1	.2598	41.27	2.075	2.174	2.150	42.40	2.095	2.074	2.145
#2	.2572	41.40	2.068	2.173	2.148	42.21	2.093	2.069	2.133
#3	.2580	41.47	2.079	2.184	2.157	42.36	2.098	2.078	2.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.164	41.65	42.24	42.59	2.177	2.075	42.13	2.109	2.085
Stddev	.006	.05	.16	.23	.009	.004	.16	.003	.005
%RSD	.2929	.1173	.3894	.5402	.4135	.1914	.3904	.1387	.2418
#1	2.168	41.68	42.11	42.66	2.186	2.075	41.95	2.108	2.090
#2	2.157	41.59	42.18	42.33	2.176	2.071	42.18	2.107	2.080
#3	2.167	41.67	42.42	42.77	2.169	2.079	42.27	2.113	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.073	2.069	2.106	2.148	2.166	2.169	2.111	F2.218	2.109
Stddev	.006	.001	.006	.002	.004	.005	.003	.007	.001
%RSD	.3066	.0226	.2720	.0867	.1984	.2264	.1601	.3254	.0409
#1	2.070	2.069	2.101	2.146	2.162	2.175	2.113	2.226	2.109
#2	2.068	2.068	2.104	2.147	2.165	2.166	2.108	2.212	2.110
#3	2.080	2.068	2.112	2.150	2.171	2.167	2.113	2.217	2.109
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								2.000	
Range								10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 6:50:33 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1156.7	2450.9	19367.	8343.4
Stddev	3.5	5.3	61.	27.2
%RSD	.30535	.21534	.31726	.32606
#1	1155.3	2450.3	19309.	8327.6
#2	1160.8	2456.5	19431.	8374.9
#3	1154.2	2446.0	19361.	8327.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:54:40 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0113	.0010	.0002	.0002	.0123	.0001	.0000	.0003	.0008
Stddev	.0003	.0008	.0010	.0001	.0000	.0030	.0000	.000	.0001	.0001
%RSD	161.1	7.084	96.25	34.08	24.36	24.67	27.84	224.5	45.35	15.50
#1	-.0004	.0108	.0022	.0001	.0002	.0109	.0001	-.0001	.0001	.0009
#2	-.0002	.0109	.0004	.0002	.0002	.0102	.0001	-.0001	.0004	.0007
#3	.0001	.0122	.0005	.0001	.0001	.0158	.0001	.0001	.0004	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0083	.0126	.0003	.0002	.0292	.0001	-.0005	-.0008	.0013
Stddev	.0037	.0062	.0100	.0001	.0002	.0026	.0003	.0010	.0008	.0005
%RSD	55.01	74.84	79.60	32.65	75.53	9.010	253.7	228.6	97.44	34.39
#1	.0108	.0014	.0242	.0002	.0001	.0303	.0004	-.0006	-.0015	.0008
#2	.0060	.0101	.0057	.0004	.0005	.0262	.0001	-.0014	-.0011	.0014
#3	.0035	.0135	.0080	.0002	.0002	.0311	-.0002	.0007	.0001	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	.0006	.0002	-.0002	.0000	.0004	.0004
Stddev	.0010	.0001	.0001	.0002	.0011	.0002	.0001
%RSD	16.77	13.15	25.15	64.44	2592.	63.19	37.12
#1	.0068	.0006	.0003	-.0003	-.0011	.0006	.0005
#2	.0049	.0007	.0002	-.0001	.0011	.0004	.0004
#3	.0057	.0005	.0002	-.0004	.0001	.0001	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 6:54:40 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1435.6	2641.4	20820.	8660.8
Stddev	1.2	1.9	43.	24.5
%RSD	.08633	.07180	.20495	.28284
#1	1435.4	2641.6	20845.	8684.3
#2	1436.9	2643.1	20844.	8662.7
#3	1434.5	2639.3	20770.	8635.4

Zoom In Zoom Out

Sample Name: Blank Acquired: 7/27/2012 6:59:49 Type: Cal
Method: 60102007_042011(v155) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0002	.0060	-.0013	.0058	.0023	.0043	-.0007	-.0009	.0002
Stddev	.0004	.0006	.0002	.0011	.0004	.0001	.0001	.0006	.0001
%RSD	204.7	10.73	13.85	19.02	16.95	1.783	13.79	68.82	73.38
#1	-.0005	.0053	-.0012	.0052	.0020	.0044	-.0008	-.0015	.0000
#2	-.0002	.0064	-.0012	.0052	.0028	.0042	-.0006	-.0009	.0003
#3	.0002	.0064	-.0015	.0071	.0022	.0042	-.0008	-.0003	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0066	.0016	-.0004	.0001	.0009	.0013	.0062	-.0005	-.0016
Stddev	.0001	.0002	.0008	.0002	.0001	.0002	.0002	.0002	.0005
%RSD	1.017	15.09	212.9	429.5	10.72	11.94	2.765	41.98	29.60
#1	.0066	.0015	-.0005	-.0002	.0010	.0011	.0060	-.0005	-.0012
#2	.0066	.0014	-.0012	.0003	.0009	.0013	.0061	-.0007	-.0021
#3	.0067	.0019	.0005	.0001	.0009	.0014	.0064	-.0003	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-.0007	.0112	.0008	.0006	.0013	-.0024	-.0003	.0026
Stddev	.0003	.0002	.0002	.0002	.0004	.0003	.0002	.0001	.0001
%RSD	51.35	31.74	1.973	21.27	72.50	25.17	9.135	31.95	5.413
#1	.0006	-.0007	.0114	.0007	.0002	.0016	-.0025	-.0002	.0026
#2	.0007	-.0005	.0110	.0010	.0006	.0010	-.0022	-.0003	.0025
#3	.0002	-.0009	.0112	.0007	.0010	.0012	-.0026	-.0004	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1419.7	2606.7	20466.	8490.6
Stddev	1.2	1.3	16.	66.9
%RSD	.08345	.05117	.07838	.78806
#1	1418.8	2605.5	20480.	8567.5
#2	1421.0	2606.4	20449.	8458.1
#3	1419.1	2608.1	20470.	8446.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 7:14:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2518	40.41	2.000	2.064	2.064	40.63	2.034	2.030	2.047	2.012
Stddev	.0023	.18	.004	.003	.004	.14	.005	.006	.009	.004
%RSD	.9048	.4533	.1848	.1596	.1885	.3524	.2421	.2776	.4188	.2052
#1	.2501	40.23	2.002	2.061	2.060	40.50	2.032	2.029	2.042	2.007
#2	.2544	40.59	2.002	2.064	2.067	40.78	2.040	2.037	2.057	2.015
#3	.2510	40.41	1.996	2.068	2.066	40.60	2.030	2.026	2.042	2.013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.40	40.32	40.54	2.058	2.037	40.27	2.034	1.995	2.011	2.011
Stddev	.11	.12	.14	.005	.008	.06	.005	.003	.002	.003
%RSD	.2609	.2873	.3494	.2409	.3814	.1382	.2406	.1310	.1124	.1372
#1	40.32	40.19	40.37	2.054	2.034	40.21	2.034	1.994	2.010	2.012
#2	40.52	40.41	40.61	2.063	2.046	40.31	2.039	1.998	2.013	2.013
#3	40.37	40.35	40.63	2.058	2.031	40.30	2.030	1.993	2.009	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.028	2.053	2.064	2.050	2.014	2.099	2.029
Stddev	.004	.006	.005	.004	.007	.006	.007
%RSD	.2230	.3137	.2362	.2185	.3479	.2669	.3697
#1	2.028	2.048	2.058	2.045	2.022	2.093	2.025
#2	2.032	2.060	2.066	2.054	2.010	2.104	2.038
#3	2.023	2.052	2.067	2.052	2.011	2.099	2.025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 7:14:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1172.7	2497.9	19649.	8421.4
Stddev	3.6	2.7	55.	45.0
%RSD	.30719	.10694	.27903	.53472
#1	1169.1	2494.8	19706.	8455.3
#2	1176.3	2499.0	19596.	8370.3
#3	1172.7	2499.8	19644.	8438.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 7:18:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0048	.0011	.0002	.0002	.0042	.0000	.0001	-.0003
Stddev	.0004	.0024	.0007	.0001	.0000	.0005	.0001	.0001	.0003
%RSD	73.62	50.77	64.99	54.61	15.92	11.30	414.5	77.78	86.46
#1	-.0005	.0070	.0009	.0001	.0002	.0044	.0000	.0000	-.0001
#2	-.0010	.0022	.0020	.0001	.0001	.0046	.0001	.0002	-.0006
#3	-.0002	.0052	.0006	.0002	.0002	.0037	.0000	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0177	.0313	-.0141	.0002	F.0010	.0311	.0003	.0007
Stddev	.0002	.0024	.0035	.0130	.0000	.0003	.0052	.0002	.0012
%RSD	340.1	13.62	11.15	92.10	5.627	25.03	16.67	64.79	179.1
#1	.0002	.0201	.0273	-.0023	.0002	.0012	.0308	.0005	.0012
#2	-.0002	.0178	.0334	-.0120	.0002	.0012	.0261	.0004	-.0007
#3	-.0002	.0153	.0332	-.0280	.0002	.0007	.0365	.0001	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0010	-.0010	.0004	.0001	.0019	F.0025	.0002	.0003
Stddev	.0008	.0015	.0005	.0003	.0000	.0002	.0018	.0002	.0000
%RSD	60.97	141.9	50.58	74.31	9.935	8.219	74.08	111.9	16.64
#1	.0021	.0013	-.0015	.0001	.0001	.0020	.0038	.0000	.0003
#2	.0015	-.0006	-.0005	.0007	.0001	.0020	.0004	.0003	.0003
#3	.0005	.0023	-.0009	.0004	.0001	.0017	.0032	.0002	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0020		
Low Limit							-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 7:18:16 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1450.1	2682.0	21085.	8714.0
Stddev	2.8	3.2	40.	26.2
%RSD	.19159	.11842	.18858	.30039
#1	1448.2	2683.7	21123.	8742.0
#2	1448.9	2684.1	21090.	8709.9
#3	1453.3	2678.4	21044.	8690.1

Zoom In Zoom Out

Sample Name: F95217-4 Acquired: 7/27/2012 7:21:53 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0062	183.2	.0386	1.305	.0099	4009.	-.0105	.0691	.2270	.1187
Stddev	.0042	.3	.0049	.005	.0005	10.	.0010	.0023	.0041	.0022
%RSD	67.99	.1448	12.63	.3554	5.459	.2373	9.783	3.364	1.797	1.882
#1	-.0035	182.9	.0340	1.310	.0095	4019.	-.0108	.0718	.2289	.1179
#2	-.0041	183.4	.0438	1.303	.0097	4006.	-.0094	.0676	.2299	.1213
#3	-.0111	183.1	.0381	1.302	.0105	4001.	-.0114	.0680	.2224	.1170

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	186.1	40.38	173.1	3.842	.0159	15.90	.1769	.1412	-.0110	.0019
Stddev	.4	.05	.7	.016	.0030	.01	.0016	.0110	.0043	.0257
%RSD	.2329	.1167	.4331	.4174	18.73	.0582	.8807	7.799	39.27	1357.
#1	185.7	40.35	172.5	3.860	.0189	15.91	.1771	.1515	-.0159	-.0157
#2	186.5	40.43	173.9	3.837	.0129	15.90	.1753	.1426	-.0081	.0314
#3	186.1	40.36	172.9	3.829	.0159	15.90	.1784	.1296	-.0089	-.0100

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.11	.0179	14.47	2.571	.0154	.3445	.5520
Stddev	.06	.0058	.03	.009	.0129	.0014	.0015
%RSD	.1243	32.28	.2358	.3365	83.87	.4132	.2688
#1	45.05	.0232	14.47	2.574	.0035	.3429	.5503
#2	45.13	.0186	14.50	2.579	.0291	.3453	.5531
#3	45.16	.0118	14.43	2.562	.0135	.3454	.5526

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1133.7	2422.1	19264.	8406.5
Stddev	2.8	2.1	73.	25.1
%RSD	.24461	.08752	.38122	.29875
#1	1135.1	2421.6	19195.	8408.8
#2	1135.5	2424.4	19256.	8430.4
#3	1130.5	2420.3	19341.	8380.3

Zoom In Zoom Out

Sample Name: F95217-5 Acquired: 7/27/2012 7:26:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	56.17	.0019	.4768	.0009	4864.	-.0127	.0168	.0923	.0299
Stddev	.0065	.11	.0107	.0016	.0004	11.	.0004	.0011	.0045	.0019
%RSD	539.5	.2015	562.9	.3383	44.69	.2179	3.162	6.317	4.870	6.197
#1	.0052	56.29	.0142	.4749	.0006	4852.	-.0126	.0165	.0937	.0294
#2	-.0077	56.17	-.0050	.4774	.0014	4866.	-.0123	.0159	.0873	.0319
#3	-.0012	56.06	-.0035	.4780	.0007	4873.	-.0131	.0180	.0960	.0283

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	61.05	13.98	26.54	.8255	.0066	2.573	.0441	.0287	-.0017	.0218
Stddev	.14	.14	.13	.0003	.0021	.024	.0005	.0081	.0119	.0132
%RSD	.2358	.9781	.5010	.0420	32.42	.9214	1.154	28.12	717.5	60.63
#1	60.89	14.03	26.40	.8258	.0044	2.553	.0435	.0226	.0045	.0070
#2	61.17	13.82	26.54	.8252	.0087	2.567	.0445	.0378	.0058	.0324
#3	61.10	14.08	26.67	.8255	.0066	2.599	.0441	.0256	-.0154	.0260

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	39.27	.0053	21.19	1.566	.0163	.1152	.1353
Stddev	.08	.0025	.06	.014	.0168	.0027	.0016
%RSD	.2013	46.83	.2753	.8646	103.3	2.368	1.192
#1	39.36	.0030	21.20	1.576	.0272	.1166	.1370
#2	39.24	.0079	21.24	1.572	-.0031	.1170	.1338
#3	39.22	.0050	21.13	1.551	.0247	.1121	.1350

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1127.0	2388.2	18984.	8396.3
Stddev	3.4	6.6	12.	27.9
%RSD	.29755	.27768	.06408	.33247
#1	1124.7	2380.6	18971.	8412.5
#2	1125.4	2391.2	18996.	8364.1
#3	1130.9	2392.8	18985.	8412.3

Zoom In Zoom Out

Sample Name: F95217-6 Acquired: 7/27/2012 7:30:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0014	276.3	.0464	1.543	.0141	2594.	-.0018	.0790	.3232	.1407
Stddev	.0051	.9	.0193	.010	.0002	6.	.0011	.0012	.0034	.0041
%RSD	375.0	.3087	41.60	.6636	1.692	.2249	62.41	1.462	1.064	2.900
#1	-.0007	276.0	.0260	1.543	.0138	2601.	-.0029	.0781	.3230	.1363
#2	-.0068	277.2	.0645	1.554	.0143	2593.	-.0008	.0803	.3267	.1414
#3	.0034	275.5	.0488	1.533	.0142	2590.	-.0015	.0788	.3198	.1444

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	242.8	46.76	117.9	4.093	.0097	3.034	.2267	.1483	-.0054	.0047
Stddev	.5	.38	.2	.003	.0024	.023	.0040	.0155	.0118	.0046
%RSD	.2084	.8092	.1905	.0843	24.48	.7519	1.767	10.44	220.9	97.67
#1	243.3	46.34	118.1	4.089	.0074	3.014	.2259	.1304	-.0015	-.0003
#2	242.7	47.06	117.6	4.093	.0121	3.059	.2232	.1568	-.0187	.0058
#3	242.3	46.88	117.9	4.096	.0096	3.029	.2311	.1576	.0041	.0087

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	51.27	.0185	13.12	3.228	.0193	.4221	.7486
Stddev	.13	.0016	.03	.026	.0132	.0022	.0013
%RSD	.2600	8.535	.2577	.8197	68.60	.5104	.1748
#1	51.43	.0176	13.11	3.215	.0339	.4205	.7471
#2	51.21	.0203	13.16	3.210	.0081	.4245	.7491
#3	51.18	.0176	13.10	3.258	.0159	.4212	.7496

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1170.0	2533.5	19981.	8709.5
Stddev	3.2	3.3	40.	53.7
%RSD	.27188	.13113	.20169	.61690
#1	1173.3	2530.9	19975.	8650.1
#2	1166.9	2532.3	20023.	8754.6
#3	1169.8	2537.2	19943.	8724.0

Zoom In
Zoom Out

Sample Name: F95274-1 Acquired: 7/27/2012 7:35:23 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	161.2	.0281	1.407	.0072	3494.	-.0062	.0464	.1815	.0868
Stddev	.0070	.2	.0069	.008	.0005	9.	.0003	.0004	.0018	.0025
%RSD	545.3	.1486	24.52	.5437	7.682	.2607	5.198	.9264	.9901	2.874
#1	-.0031	160.9	.0361	1.405	.0067	3497.	-.0066	.0467	.1797	.0851
#2	-.0071	161.4	.0241	1.400	.0078	3484.	-.0061	.0459	.1833	.0896
#3	.0064	161.2	.0242	1.415	.0070	3502.	-.0060	.0466	.1817	.0855

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	147.5	29.15	70.93	2.778	.0078	2.820	.1298	.0874	-.0102	-.0050
Stddev	.1	.04	.19	.007	.0028	.033	.0019	.0057	.0058	.0199
%RSD	.0737	.1377	.2724	.2375	35.12	1.173	1.429	6.493	56.41	402.2
#1	147.4	29.14	70.72	2.771	.0048	2.858	.1297	.0824	-.0062	.0175
#2	147.4	29.20	70.97	2.781	.0101	2.798	.1280	.0863	-.0168	-.0117
#3	147.6	29.12	71.10	2.783	.0086	2.804	.1317	.0936	-.0076	-.0207

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	43.34	.0170	22.57	2.529	.0185	.2848	.4566
Stddev	.07	.0023	.01	.009	.0280	.0022	.0013
%RSD	.1567	13.56	.0450	.3638	151.8	.7715	.2809
#1	43.38	.0156	22.57	2.522	.0038	.2867	.4578
#2	43.38	.0196	22.56	2.527	.0008	.2853	.4553
#3	43.26	.0157	22.58	2.539	.0508	.2824	.4568

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1153.2	2461.9	19349.	8465.4
Stddev	.8	2.0	24.	21.3
%RSD	.06903	.08098	.12488	.25115
#1	1154.1	2459.6	19375.	8467.6
#2	1152.6	2463.1	19345.	8485.5
#3	1152.9	2463.0	19327.	8443.2

Zoom In
Zoom Out

Sample Name: F95274-2 Acquired: 7/27/2012 7:40:00 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0031	193.6	.0467	1.252	.0093	4527.	-.0105	.0599	.1993	.0899
Stddev	.0021	.8	.0059	.005	.0002	34.	.0002	.0006	.0026	.0023
%RSD	67.09	.4071	12.64	.4419	1.665	.7603	1.541	.9616	1.326	2.552
#1	-.0008	192.7	.0441	1.251	.0091	4509.	-.0104	.0592	.2018	.0873
#2	-.0048	194.1	.0534	1.258	.0094	4566.	-.0107	.0601	.1995	.0917
#3	-.0039	194.0	.0425	1.247	.0094	4505.	-.0105	.0603	.1965	.0907

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	168.9	35.59	73.34	3.550	.0123	3.422	.1600	.0868	-.0109	-.0064
Stddev	.8	.11	.42	.004	.0005	.060	.0026	.0051	.0157	.0213
%RSD	.4626	.3169	.5787	.1268	3.978	1.746	1.614	5.835	143.5	335.5
#1	168.0	35.65	72.91	3.545	.0127	3.424	.1601	.0903	.0021	.0008
#2	169.4	35.66	73.76	3.554	.0125	3.362	.1574	.0810	-.0065	.0105
#3	169.2	35.46	73.33	3.552	.0118	3.481	.1625	.0892	-.0283	-.0303

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.81	.0113	23.81	2.679	.0129	.3350	.4779
Stddev	.15	.0045	.21	.016	.0140	.0043	.0018
%RSD	.3331	39.44	.8625	.6035	108.5	1.286	.3824
#1	45.66	.0136	23.60	2.662	.0115	.3303	.4758
#2	45.97	.0062	24.01	2.694	.0275	.3360	.4787
#3	45.80	.0143	23.82	2.680	-.0003	.3387	.4792

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1126.0	2422.5	19134.	8395.8
Stddev	.2	3.4	100.	40.3
%RSD	.01395	.14040	.52029	.47984
#1	1126.1	2426.1	19224.	8431.1
#2	1125.8	2419.4	19027.	8351.9
#3	1126.1	2422.1	19152.	8404.3

Zoom In
Zoom Out

Sample Name: F95274-3 Acquired: 7/27/2012 7:44:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	100.9	.0169	.7715	.0041	3342.	-.0086	.0287	.1072	.0472
Stddev	.0036	.3	.0128	.0045	.0001	18.	.0003	.0013	.0033	.0012
%RSD	184.8	.3352	76.04	.5812	3.185	.5493	3.143	4.696	3.102	2.632
#1	-.0016	100.8	.0303	.7684	.0042	3324.	-.0085	.0302	.1050	.0460
#2	.0014	101.3	.0047	.7766	.0040	3361.	-.0084	.0279	.1055	.0472
#3	-.0057	100.7	.0156	.7694	.0040	3340.	-.0089	.0279	.1110	.0485

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.20	19.12	41.03	1.671	.0045	2.640	.0847	.0442	-.0030	.0151
Stddev	.60	.12	.31	.005	.0011	.047	.0019	.0065	.0138	.0554
%RSD	.6756	.6336	.7566	.2932	25.10	1.785	2.263	14.77	459.9	368.2
#1	87.61	19.05	40.80	1.668	.0033	2.693	.0831	.0375	-.0110	-.0477
#2	88.80	19.26	40.91	1.677	.0056	2.625	.0841	.0505	.0130	.0573
#3	88.18	19.06	41.39	1.669	.0046	2.602	.0868	.0446	-.0110	.0356

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	37.35	.0110	20.74	1.711	.0009	.1807	.2395
Stddev	.03	.0053	.05	.005	.0383	.0009	.0006
%RSD	.0757	48.05	.2495	.2878	4403.	.4959	.2467
#1	37.33	.0059	20.69	1.707	.0450	.1817	.2390
#2	37.38	.0106	20.80	1.717	-.0228	.1800	.2402
#3	37.34	.0165	20.74	1.710	-.0196	.1805	.2394

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1176.9	2468.9	19540.	8518.2
Stddev	3.4	4.2	49.	28.2
%RSD	.28661	.17142	.25077	.33161
#1	1173.7	2469.0	19568.	8516.2
#2	1176.6	2464.6	19483.	8490.9
#3	1180.5	2473.0	19568.	8547.3

Zoom In
Zoom Out

Sample Name: F95274-4 Acquired: 7/27/2012 7:49:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0067	282.0	.0833	1.490	.0137	3311.	-.0075	.0778	.3350	.1458
Stddev	.0032	.5	.0104	.009	.0003	10.	.0002	.0009	.0019	.0021
%RSD	48.19	.1597	12.48	.5880	1.827	.2989	2.736	1.111	.5538	1.447
#1	-.0030	281.6	.0947	1.481	.0140	3321.	-.0073	.0788	.3345	.1473
#2	-.0081	282.1	.0743	1.491	.0135	3311.	-.0077	.0771	.3370	.1434
#3	-.0091	282.4	.0809	1.498	.0138	3302.	-.0074	.0776	.3333	.1466

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	247.2	48.28	109.7	3.236	.0236	3.105	.2335	.1412	-.0124	.0322
Stddev	.5	.08	.2	.001	.0019	.034	.0021	.0106	.0096	.0207
%RSD	.2218	.1633	.1602	.0408	8.119	1.101	.9015	7.493	76.89	64.31
#1	246.9	48.29	109.5	3.235	.0256	3.090	.2337	.1471	-.0233	.0555
#2	246.8	48.36	109.9	3.237	.0218	3.081	.2313	.1290	-.0053	.0158
#3	247.8	48.20	109.7	3.235	.0234	3.144	.2355	.1474	-.0087	.0253

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.93	.0170	17.68	3.467	.0051	.5166	.7511
Stddev	.27	.0032	.05	.008	.0048	.0019	.0026
%RSD	.5362	18.75	.2990	.2249	94.06	.3611	.3465
#1	51.11	.0137	17.62	3.462	.0052	.5186	.7541
#2	50.61	.0171	17.71	3.476	.0099	.5149	.7499
#3	51.06	.0201	17.71	3.464	.0003	.5163	.7493

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1152.5	2497.0	19724.	8619.5
Stddev	2.7	13.0	17.	24.4
%RSD	.23292	.52179	.08457	.28267
#1	1150.9	2486.1	19706.	8611.5
#2	1151.0	2511.4	19725.	8646.9
#3	1155.6	2493.5	19739.	8600.2

Zoom In Zoom Out

Sample Name: F95274-5 Acquired: 7/27/2012 7:53:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0014	179.1	.0559	2.171	.0118	2349.	-.0065	.0988	.2243	.1457
Stddev	.0047	1.2	.0043	.005	.0002	15.	.0005	.0008	.0040	.0028
%RSD	322.5	.6531	7.663	.2267	1.715	.6267	7.394	.8274	1.804	1.904
#1	.0037	177.8	.0513	2.167	.0116	2360.	-.0060	.0979	.2237	.1436
#2	-.0054	180.2	.0567	2.170	.0118	2355.	-.0069	.0991	.2206	.1448
#3	-.0026	179.2	.0598	2.176	.0120	2332.	-.0066	.0994	.2286	.1488

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	222.2	37.56	165.5	5.058	.0094	5.557	.2294	.1385	-.0122	.0151
Stddev	.6	.16	.7	.037	.0011	.038	.0022	.0061	.0218	.0295
%RSD	.2770	.4386	.3956	.7257	11.51	.6892	.9413	4.388	178.9	194.6
#1	221.8	37.54	165.1	5.021	.0086	5.600	.2269	.1350	-.0373	-.0180
#2	222.9	37.73	166.3	5.059	.0106	5.527	.2307	.1455	.0016	.0249
#3	222.0	37.41	165.3	5.094	.0090	5.543	.2306	.1349	-.0008	.0384

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	39.70	.0163	12.81	2.419	.0121	.4254	.6368
Stddev	.19	.0023	.02	.013	.0274	.0020	.0024
%RSD	.4850	13.85	.1474	.5506	225.9	.4605	.3716
#1	39.56	.0168	12.80	2.404	.0170	.4232	.6351
#2	39.92	.0183	12.83	2.429	.0368	.4269	.6395
#3	39.62	.0138	12.79	2.424	-.0174	.4260	.6359

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1177.7	2512.1	19718.	8580.9
Stddev	5.4	4.7	90.	24.4
%RSD	.45563	.18814	.45768	.28472
#1	1181.5	2515.1	19818.	8588.2
#2	1171.6	2506.7	19695.	8553.7
#3	1180.1	2514.6	19641.	8600.9

Zoom In Zoom Out

Sample Name: F95274-6 Acquired: 7/27/2012 7:58:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0037	146.0	.0118	.9710	.0063	3459.	-.0101	.0466	.1356	.0820
Stddev	.0035	.6	.0074	.0047	.0004	23.	.0012	.0019	.0054	.0025
%RSD	93.84	.4232	62.66	.4864	6.912	.6641	12.13	4.027	4.011	3.073
#1	-.0030	145.8	.0066	.9656	.0067	3433.	-.0115	.0468	.1411	.0846
#2	-.0076	145.4	.0202	.9742	.0064	3472.	-.0095	.0446	.1302	.0796
#3	-.0007	146.6	.0085	.9733	.0058	3473.	-.0092	.0484	.1356	.0819

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	143.6	31.15	167.4	3.874	.0094	40.14	.1241	.0652	-.0137	.0132
Stddev	.2	.25	.2	.014	.0018	.07	.0009	.0021	.0140	.0229
%RSD	.1261	.8036	.1478	.3650	19.39	.1855	.7005	3.229	101.5	174.3
#1	143.5	30.95	167.2	3.861	.0073	40.19	.1243	.0632	-.0005	.0308
#2	143.6	31.43	167.3	3.889	.0107	40.18	.1231	.0649	-.0125	-.0128
#3	143.8	31.06	167.7	3.872	.0101	40.06	.1248	.0674	-.0283	.0214

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.43	.0181	13.10	2.616	.0007	.2334	.3559
Stddev	.05	.0063	.02	.017	.0041	.0017	.0044
%RSD	.1003	35.09	.1620	.6422	605.9	.7112	1.235
#1	50.44	.0189	13.08	2.600	-.0024	.2349	.3540
#2	50.37	.0239	13.12	2.633	-.0009	.2336	.3529
#3	50.47	.0113	13.09	2.616	.0053	.2316	.3610

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1146.8	2428.5	19276.	8342.7
Stddev	1.8	1.2	41.	52.1
%RSD	.15367	.04931	.21501	.62407
#1	1148.2	2429.7	19293.	8390.2
#2	1147.4	2427.3	19229.	8351.0
#3	1144.8	2428.5	19306.	8287.0

Zoom In Zoom Out

Sample Name: MP23310-MB1 Acquired: 7/27/2012 8:02:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0020	-.0029	-.0001	-.0002	.0274	-.0003	-.0002	.0002	-.0005
Stddev	.0005	.0010	.0009	.0001	.0000	.0047	.0000	.0001	.0003	.0001
%RSD	612.8	48.65	29.88	83.79	24.25	17.27	17.63	51.36	170.5	20.05
#1	-.0006	-.0009	-.0019	-.0001	-.0001	.0324	-.0003	-.0004	.0005	-.0006
#2	.0004	-.0024	-.0032	.0000	-.0002	.0268	-.0003	-.0001	.0000	-.0004
#3	-.0001	-.0027	-.0035	-.0002	-.0002	.0230	-.0002	-.0002	.0000	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397	.0080	.0021	.0002	.0004	.0097	.0005	-.0008	-.0001	.0006
Stddev	.0020	.0122	.0156	.0001	.0001	.0030	.0002	.0003	.0005	.0008
%RSD	5.072	154.0	725.9	46.86	33.15	30.56	42.05	36.48	445.1	136.1
#1	.0420	.0011	.0131	.0002	.0004	.0123	.0006	-.0005	.0000	-.0003
#2	.0381	.0006	-.0157	.0001	.0003	.0065	.0006	-.0012	-.0007	.0009
#3	.0391	.0221	.0090	.0001	.0005	.0105	.0003	-.0008	.0003	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197	.0136	-.0001	.0001	-.0011	-.0002	.0008
Stddev	.0011	.0009	.0001	.0000	.0020	.0003	.0001
%RSD	5.789	6.891	45.31	41.21	181.9	137.6	12.76
#1	.0204	.0127	-.0001	.0001	-.0033	.0000	.0009
#2	.0203	.0146	-.0002	.0001	.0005	-.0005	.0007
#3	.0184	.0135	-.0002	.0002	-.0005	-.0001	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23310-MB1 Acquired: 7/27/2012 8:02:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1350.6	2501.0	19880.	8290.3
Stddev	8.0	15.2	63.	29.0
%RSD	.59343	.60896	.31940	.34983
#1	1341.9	2487.1	19807.	8257.1
#2	1352.4	2498.7	19919.	8303.0
#3	1357.6	2517.3	19916.	8310.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 8:07:01 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2535	40.50	2.020	2.055	2.082	41.30	2.056	2.049	2.060	2.032
Stddev	.0007	.06	.004	.003	.001	.06	.002	.002	.005	.007
%RSD	.2927	.1570	.2242	.1492	.0380	.1504	.0878	.0974	.2574	.3437
#1	.2527	40.55	2.022	2.052	2.083	41.32	2.057	2.051	2.056	2.037
#2	.2537	40.43	2.023	2.057	2.081	41.35	2.057	2.049	2.058	2.024
#3	.2541	40.52	2.015	2.057	2.081	41.23	2.054	2.047	2.066	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.62	40.66	41.01	2.056	2.047	40.68	2.058	2.022	2.017	2.033
Stddev	.02	.15	.07	.005	.002	.10	.004	.004	.004	.003
%RSD	.0384	.3716	.1710	.2534	.1192	.2579	.1774	.2249	.2096	.1214
#1	40.60	40.82	41.09	2.055	2.047	40.78	2.059	2.027	2.020	2.032
#2	40.63	40.51	40.96	2.051	2.050	40.57	2.060	2.019	2.019	2.031
#3	40.63	40.65	40.97	2.061	2.045	40.68	2.053	2.019	2.012	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054	2.081	2.072	2.056	2.041	2.127	2.057
Stddev	.003	.002	.000	.006	.010	.003	.002
%RSD	.1398	.0923	.0170	.2897	.5100	.1281	.1179
#1	2.056	2.083	2.072	2.055	2.052	2.128	2.060
#2	2.055	2.080	2.072	2.051	2.038	2.125	2.056
#3	2.051	2.079	2.072	2.062	2.032	2.130	2.055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 8:07:01 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1171.4	2500.6	19806.	8470.1
Stddev	1.9	3.2	50.	4.8
%RSD	.16516	.12900	.25280	.05668
#1	1169.9	2502.5	19766.	8473.2
#2	1170.8	2496.9	19863.	8472.6
#3	1173.6	2502.4	19790.	8464.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 8:11:07 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0015	-.0008	.0002	.0002	.0078	.0001	.0001	.0000
Stddev	.0006	.0062	.0007	.0001	.0001	.0013	.0000	.0001	.000
%RSD	857.4	420.3	87.37	31.86	25.51	17.02	37.83	48.26	947.5
#1	-.0006	-.0076	-.0014	.0001	.0002	.0092	.0001	.0001	.0000
#2	.0006	-.0018	.0000	.0002	.0003	.0078	.0001	.0002	.0002
#3	-.0003	.0049	-.0010	.0002	.0001	.0065	.0001	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0153	.0092	.0039	.0002	.0007	.0187	.0004	.0005
Stddev	.0002	.0024	.0206	.0092	.0001	.0003	.0062	.0001	.0007
%RSD	42.94	15.78	223.9	235.1	33.73	39.97	32.85	33.83	149.4
#1	.0003	.0170	.0016	.0103	.0002	.0010	.0252	.0002	-.0001
#2	.0003	.0163	.0325	-.0066	.0002	.0005	.0129	.0005	.0003
#3	.0006	.0125	-.0065	.0080	.0001	.0005	.0182	.0004	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	F.0027	.0001	.0005	.0002	.0010	.0015	.0005	.0005
Stddev	.0006	.0006	.0006	.0004	.0000	.0000	.0007	.0001	.0002
%RSD	349.2	20.38	394.3	77.21	11.87	4.717	46.16	11.50	41.26
#1	.0001	.0032	-.0005	.0009	.0001	.0010	.0009	.0004	.0007
#2	.0002	.0021	.0006	.0001	.0002	.0009	.0022	.0005	.0003
#3	-.0008	.0029	.0003	.0005	.0002	.0010	.0014	.0005	.0005
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0020							
Low Limit		-.0020							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 8:11:07 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1424.5	2642.2	20702.	8651.2
Stddev	1.1	8.4	19.	21.6
%RSD	.07845	.31625	.09105	.24940
#1	1424.9	2651.0	20708.	8674.8
#2	1423.2	2634.3	20718.	8632.5
#3	1425.3	2641.3	20681.	8646.4

Zoom In Zoom Out

Sample Name: MP23310-B1 Acquired: 7/27/2012 8:15:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490	28.61	2.041	2.259	.0564	26.13	.0531	.5441	.2226	.2748
Stddev	.0003	.07	.005	.009	.0002	.16	.0002	.0007	.0013	.0007
%RSD	.6247	.2448	.2570	.3888	.3770	.5964	.3201	.1202	.5848	.2616
#1	.0492	28.53	2.047	2.257	.0563	26.02	.0529	.5448	.2240	.2754
#2	.0492	28.62	2.037	2.269	.0561	26.05	.0532	.5441	.2215	.2740
#3	.0486	28.67	2.041	2.252	.0566	26.30	.0531	.5435	.2223	.2750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.15	26.15	25.64	.5598	.5261	26.38	.5515	.4963	.5228	2.049
Stddev	.11	.10	.18	.0030	.0014	.08	.0008	.0020	.0016	.009
%RSD	.3910	.3905	.6965	.5320	.2625	.3177	.1442	.4095	.2992	.4421
#1	28.05	26.13	25.46	.5624	.5276	26.39	.5524	.4942	.5245	2.057
#2	28.15	26.26	25.64	.5565	.5260	26.46	.5512	.4967	.5224	2.052
#3	28.27	26.07	25.82	.5604	.5248	26.29	.5508	.4982	.5215	2.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.5225	.5247	.5277	2.025	.5517	.5376
Stddev	.0008	.0010	.0013	.0011	.010	.0014	.0015
%RSD	3.662	.1899	.2426	.2040	.4769	.2478	.2805
#1	.0212	.5228	.5237	.5288	2.032	.5532	.5359
#2	.0213	.5233	.5261	.5267	2.014	.5510	.5387
#3	.0199	.5214	.5243	.5275	2.028	.5507	.5382
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23310-B1 Acquired: 7/27/2012 8:15:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1179.6	2417.2	18933.	8145.2
Stddev	5.7	18.8	93.	14.8
%RSD	.48622	.77627	.48893	.18114
#1	1173.0	2396.9	18826.	8141.6
#2	1182.3	2420.8	18987.	8161.4
#3	1183.4	2433.9	18986.	8132.6

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/27/2012 8:19:45 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0023	273.0	.0336	1.224	.0101	1.281	-.0022	.0436
Stddev	.0003	1.8	.0003	.004	.0000	.005	.0001	.0002
%RSD	12.65	.6480	.8014	.3085	.0382	.4180	3.862	.4800
#1	-.0020	273.4	.0333	1.223	.0101	1.287	-.0022	.0435
#2	-.0022	271.1	.0338	1.228	.0101	1.280	-.0023	.0436
#3	-.0026	274.6	.0337	1.221	.0101	1.277	-.0021	.0439

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0142	.1389	185.9	66.23	42.45	F7.040	.0029	.6706
Stddev	.0001	.0002	1.1	.15	.04	.048	.0003	.0046
%RSD	.5527	.1208	.5882	.2288	.0874	.6838	9.353	.6837
#1	.0141	.1390	186.5	66.39	42.49	7.025	.0028	.6758
#2	.0141	.1387	186.5	66.08	42.42	7.094	.0033	.6671
#3	.0142	.1390	184.6	66.23	42.44	7.001	.0028	.6689

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0118	.2049	F-.0074	-.0016	16.37	.0188	.1953	F15.98
Stddev	.0002	.0004	.0016	.0019	.01	.0001	.0001	.03
%RSD	1.494	.1887	21.87	117.8	.0548	.7946	.0462	.1992
#1	.0117	.2045	-.0060	-.0033	16.37	.0187	.1952	15.98
#2	.0118	.2048	-.0092	.0004	16.36	.0190	.1954	15.94
#3	.0120	.2053	-.0070	-.0018	16.37	.0187	.1953	16.01

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0234	.1958	.6155
Stddev	.0023	.0003	.0010
%RSD	9.799	.1482	.1690
#1	-.0234	.1961	.6152
#2	-.0211	.1959	.6147
#3	-.0257	.1955	.6167

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/27/2012 8:19:45 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	981.87	4306.3	32923.	14112.
Stddev	.57	12.3	68.	119.
%RSD	.05813	.28631	.20629	.84145
#1	981.22	4293.8	32859.	13982.
#2	982.29	4306.9	32916.	14141.
#3	982.10	4318.4	32994.	14214.

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/27/2012 8:24:32 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0028	251.4	.0341	1.129	.0092	1.338	-.0018	.0437
Stddev	.0002	1.3	.0016	.006	.0000	.005	.0001	.0001
%RSD	7.181	.5109	4.745	.5675	.3961	.4093	5.106	.2689
#1	-.0028	252.0	.0328	1.136	.0092	1.338	-.0017	.0438
#2	-.0026	249.9	.0359	1.129	.0092	1.333	-.0019	.0436
#3	-.0030	252.3	.0337	1.123	.0091	1.344	-.0019	.0436

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0185	.1441	182.8	66.66	42.28	F7.025	.0034	.6363
Stddev	.0002	.0004	.8	.22	.24	.009	.0000	.0044
%RSD	1.171	.2980	.4316	.3290	.5692	.1358	1.155	.6884
#1	.0187	.1443	182.2	66.89	42.30	7.021	.0033	.6410
#2	.0183	.1444	182.5	66.64	42.03	7.036	.0034	.6356
#3	.0184	.1436	183.7	66.45	42.51	7.019	.0033	.6323

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0126	.1913	F-.0078	-.0042	10.66	.0213	.1731	F17.29
Stddev	.0004	.0019	.0011	.0012	.01	.0004	.0007	.02
%RSD	3.448	.9756	14.63	29.07	.0842	1.649	.3823	.1400
#1	.0121	.1935	-.0065	-.0045	10.65	.0209	.1736	17.31
#2	.0128	.1899	-.0087	-.0053	10.67	.0213	.1733	17.31
#3	.0130	.1907	-.0083	-.0029	10.65	.0216	.1723	17.27

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0274	.2027	.6012
Stddev	.0041	.0002	.0008
%RSD	14.90	.0821	.1306
#1	-.0231	.2027	.6016
#2	-.0277	.2025	.6003
#3	-.0313	.2029	.6017

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/27/2012 8:24:32 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	992.84	4345.1	33534.	14391.
Stddev	.67	8.3	69.	18.
%RSD	.06784	.19128	.20709	.12275
#1	992.67	4339.3	33455.	14379.
#2	992.26	4341.3	33559.	14412.
#3	993.58	4354.6	33587.	14383.

Zoom In Zoom Out

Sample Name: MP23310-SD1 Acquired: 7/27/2012 8:29:18 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0045	405.8	.0500	1.784	.0149	3.274	-.0064	.0724	.0220
Stddev	.0015	.5	.0076	.003	.0003	.029	.0005	.0023	.0014
%RSD	33.41	.1331	15.28	.1923	1.998	.8809	7.214	3.146	6.151
#1	-.0057	405.5	.0524	1.785	.0148	3.241	-.0058	.0750	.0227
#2	-.0049	406.4	.0561	1.786	.0146	3.295	-.0066	.0717	.0229
#3	-.0028	405.5	.0414	1.780	.0152	3.286	-.0066	.0707	.0204

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2046	296.5	98.71	63.63	11.62	.0036	1.461	.0150	.2007
Stddev	.0002	.4	.26	.22	.09	.0010	.026	.0003	.0057
%RSD	.1109	.1390	.2623	.3420	.7353	29.05	1.812	1.960	2.862
#1	.2045	296.2	98.51	63.73	11.59	.0024	1.470	.0154	.1979
#2	.2044	297.0	98.61	63.77	11.56	.0041	1.482	.0149	.1970
#3	.2048	296.5	99.00	63.38	11.72	.0042	1.431	.0148	.2074

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0177	.0120	25.40	.0277	.2967	F26.39	-.0151	.3024	.9842
Stddev	.0032	.0021	.05	.0040	.0006	.10	.0054	.0019	.0006
%RSD	18.15	17.24	.1861	14.29	.2008	.3700	35.51	.6374	.0632
#1	-.0214	.0142	25.36	.0265	.2960	26.33	-.0089	.3001	.9836
#2	-.0157	.0102	25.46	.0322	.2971	26.33	-.0186	.3032	.9843
#3	-.0160	.0115	25.39	.0246	.2971	26.50	-.0178	.3037	.9848

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1263.0	3063.1	23655.	9964.8
Stddev	1.5	1.7	99.	30.0
%RSD	.12218	.05645	.41907	.30081
#1	1263.1	3065.0	23716.	9983.6
#2	1264.5	3062.4	23708.	9930.3
#3	1261.4	3061.7	23540.	9980.6

Zoom In Zoom Out

Sample Name: MP23310-PS1 Acquired: 7/27/2012 8:33:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0268	271.1	.0905	1.360	.0425	4.543	.0268	.0717	.0447
Stddev	.0001	1.0	.0021	.002	.0001	.013	.0004	.0002	.0005
%RSD	.4393	.3794	2.313	.1175	.1397	.2775	1.451	.2264	1.142
#1	.0268	270.9	.0894	1.360	.0426	4.528	.0272	.0715	.0445
#2	.0269	272.3	.0929	1.358	.0424	4.550	.0264	.0719	.0453
#3	.0266	270.2	.0892	1.361	.0425	4.550	.0267	.0718	.0444

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2008	185.2	71.90	45.17	F6.980	.0605	6.725	.0676	.2582
Stddev	.0006	2.5	.07	.19	.016	.0003	.013	.0006	.0026
%RSD	.2951	1.344	.0952	.4169	.2344	.4884	.1974	.8833	.9994
#1	.2002	182.4	71.86	44.95	6.999	.0602	6.740	.0681	.2554
#2	.2014	187.0	71.85	45.28	6.971	.0607	6.716	.0669	.2605
#3	.2007	186.3	71.98	45.27	6.970	.0607	6.718	.0677	.2587

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0500	.0530	16.14	.0442	.2244	F15.89	.0787	.2251	.7744
Stddev	.0002	.0026	.02	.0003	.0002	.04	.0010	.0005	.0014
%RSD	.3287	4.904	.1164	.5813	.0923	.2626	1.316	.2068	.1746
#1	.0500	.0516	16.16	.0444	.2242	15.85	.0777	.2247	.7738
#2	.0501	.0514	16.13	.0439	.2245	15.93	.0797	.2251	.7734
#3	.0498	.0560	16.13	.0443	.2246	15.91	.0787	.2256	.7759

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	966.45	4246.3	32580.	13972.
Stddev	1.74	11.9	79.	58.
%RSD	.18015	.28072	.24346	.41411
#1	965.05	4233.9	32535.	14007.
#2	965.92	4247.4	32533.	13905.
#3	968.40	4257.7	32672.	14004.

Zoom In Zoom Out

Sample Name: MP23310-S1 Acquired: 7/27/2012 8:38:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0243	269.1	1.112	2.352	.0412	16.20	.0261	.3173	.1311
Stddev	.0002	3.8	.004	.014	.0000	.09	.0003	.0004	.0006
%RSD	1.011	1.403	.4068	.5761	.1148	.5556	1.073	.1105	.4744
#1	.0241	270.1	1.117	2.339	.0412	16.09	.0264	.3175	.1314
#2	.0245	272.2	1.108	2.366	.0411	16.25	.0261	.3169	.1304
#3	.0241	264.8	1.110	2.352	.0411	16.25	.0258	.3174	.1315

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3218	161.4	70.67	50.12	F6.989	.2522	15.81	.2898	.7053
Stddev	.0011	.6	.22	.22	.024	.0006	.04	.0005	.0017
%RSD	.3500	.3672	.3160	.4328	.3458	.2408	.2694	.1654	.2342
#1	.3214	160.7	70.42	49.89	7.004	.2529	15.77	.2903	.7064
#2	.3209	161.7	70.76	50.33	6.962	.2519	15.82	.2899	.7034
#3	.3230	161.8	70.84	50.15	7.003	.2517	15.85	.2893	.7060

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1063	1.099	17.78	.2645	.4772	F12.97	2.074	.4541	.7835
Stddev	.0016	.003	.03	.0011	.0007	.05	.001	.0019	.0012
%RSD	1.496	.2391	.1652	.4189	.1427	.3574	.0239	.4237	.1583
#1	.1058	1.102	17.81	.2633	.4764	12.97	2.074	.4548	.7829
#2	.1081	1.098	17.75	.2655	.4775	12.92	2.074	.4519	.7826
#3	.1050	1.097	17.78	.2645	.4776	13.02	2.074	.4556	.7849

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	972.35	4346.8	33455.	14238.
Stddev	4.00	9.8	119.	54.
%RSD	.41150	.22601	.35527	.37986
#1	967.73	4335.6	33338.	14230.
#2	974.57	4353.9	33576.	14189.
#3	974.74	4350.9	33452.	14296.

Zoom In Zoom Out

Sample Name: MP23310-S2 Acquired: 7/27/2012 8:43:13 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0246	270.1	1.047	2.376	.0402	15.50	.0254	.3081	.1309
Stddev	.0003	2.8	.003	.021	.0001	.04	.0001	.0003	.0011
%RSD	1.142	1.039	.3055	.8754	.2349	.2740	.3538	.0944	.8059
#1	.0243	267.0	1.044	2.397	.0402	15.47	.0254	.3079	.1297
#2	.0248	272.5	1.051	2.374	.0401	15.49	.0255	.3080	.1317
#3	.0247	270.8	1.047	2.356	.0402	15.55	.0253	.3085	.1312

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3223	193.5	F82.86	57.55	F7.848	.2388	15.01	.2789	.7486
Stddev	.0006	1.0	.22	.32	.034	.0004	.04	.0005	.0027
%RSD	.1797	.5165	.2697	.5479	.4349	.1566	.2605	.1755	.3588
#1	.3230	193.3	82.71	57.22	7.836	.2393	14.99	.2783	.7457
#2	.3218	192.7	82.74	57.58	7.822	.2385	15.00	.2790	.7491
#3	.3222	194.6	83.12	57.85	7.887	.2387	15.06	.2793	.7510

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0900	1.035	11.00	.2532	.4681	F16.30	2.060	.4879	.8821
Stddev	.0014	.002	.01	.0009	.0008	.04	.005	.0008	.0006
%RSD	1.559	.1764	.1313	.3499	.1746	.2211	.2456	.1652	.0700
#1	.0903	1.037	10.99	.2532	.4678	16.26	2.056	.4878	.8817
#2	.0885	1.035	10.99	.2541	.4674	16.33	2.058	.4871	.8817
#3	.0912	1.033	11.01	.2523	.4690	16.31	2.066	.4887	.8828

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	940.33	4422.1	33955.	14751.
Stddev	.56	1.9	36.	16.
%RSD	.05948	.04360	.10720	.10590
#1	940.78	4421.2	33964.	14737.
#2	940.50	4424.3	33915.	14768.
#3	939.70	4420.7	33986.	14749.

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/27/2012 8:48:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0013	144.6	.0253	.8953	.0068	3.970	-.0015	.0306
Stddev	.0001	.3	.0008	.0031	.0000	.019	.0002	.0002
%RSD	11.58	.2396	3.248	.3460	.6874	.4803	11.85	.7625
#1	-.0014	144.5	.0245	.8949	.0068	3.962	-.0013	.0304
#2	-.0011	144.2	.0262	.8986	.0067	3.955	-.0017	.0306
#3	-.0013	144.9	.0252	.8925	.0068	3.991	-.0015	.0308

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0177	.0539	142.4	57.28	36.58	F4.414	.0017	.4649
Stddev	.0001	.0003	.8	.11	.12	.022	.0001	.0048
%RSD	.8077	.6069	.5688	.1900	.3416	.4900	5.297	1.041
#1	.0178	.0543	142.0	57.16	36.48	4.409	.0018	.4594
#2	.0176	.0538	143.3	57.38	36.53	4.437	.0016	.4684
#3	.0175	.0537	141.9	57.29	36.72	4.395	.0016	.4668

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0112	.0615	F-.0059	-.0007	8.099	.0128	.1823	F13.43
Stddev	.0003	.0022	.0009	.0007	.017	.0004	.0003	.04
%RSD	2.538	3.570	14.94	108.0	.2113	3.043	.1662	.3113
#1	.0116	.0630	-.0055	-.0003	8.099	.0132	.1823	13.46
#2	.0111	.0625	-.0069	-.0016	8.082	.0128	.1826	13.45
#3	.0110	.0590	-.0053	-.0002	8.116	.0125	.1820	13.38

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0223	.1525	.4756
Stddev	.0017	.0004	.0006
%RSD	7.743	.2714	.1346
#1	-.0234	.1524	.4749
#2	-.0203	.1521	.4757
#3	-.0232	.1529	.4762

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/27/2012 8:48:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1009.9	5093.3	39286.	16845.
Stddev	2.5	15.2	131.	34.
%RSD	.24957	.29871	.33426	.20115
#1	1007.8	5086.5	39162.	16820.
#2	1009.2	5110.8	39272.	16833.
#3	1012.7	5082.8	39423.	16884.

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/27/2012 8:52:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0045	F924.6	.0463	1.122	.0079	.9646	.0001	.0356
Stddev	.0001	9.2	.0021	.004	.0000	.0058	.0002	.0003
%RSD	2.406	.9995	4.602	.3592	.3224	.6029	307.9	.8198
#1	-.0045	914.3	.0445	1.126	.0079	.9580	.0001	.0353
#2	-.0046	927.2	.0487	1.123	.0079	.9691	.0002	.0355
#3	-.0044	932.2	.0457	1.118	.0079	.9666	-.0001	.0359

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1125	.1308	358.2	35.69	35.74	3.445	.0091	.3405
Stddev	.0002	.0003	3.0	.07	.26	.005	.0006	.0042
%RSD	.1843	.2301	.8501	.1875	.7287	.1573	6.615	1.245
#1	.1126	.1309	356.5	35.76	35.48	3.439	.0084	.3440
#2	.1123	.1311	356.4	35.68	35.73	3.446	.0095	.3419
#3	.1126	.1305	361.7	35.63	36.00	3.449	.0094	.3358

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0606	.3871	F-.0090	.0036	14.99	.0299	.0535	F10.65
Stddev	.0004	.0048	.0012	.0030	.05	.0004	.0001	.05
%RSD	.6294	1.230	13.57	83.53	.3025	1.254	.1625	.4346
#1	.0604	.3854	-.0103	.0030	14.97	.0295	.0536	10.71
#2	.0603	.3834	-.0079	.0009	14.95	.0302	.0535	10.64
#3	.0610	.3924	-.0086	.0069	15.04	.0300	.0534	10.62

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0345	.4893	.5497
Stddev	.0070	.0006	.0015
%RSD	20.25	.1240	.2776
#1	-.0388	.4894	.5482
#2	-.0384	.4898	.5497
#3	-.0265	.4886	.5512

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/27/2012 8:52:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	829.59	3834.5	28342.	12441.
Stddev	1.30	6.8	97.	12.
%RSD	.15688	.17860	.34131	.09641
#1	830.51	3838.2	28251.	12434.
#2	828.10	3838.7	28331.	12435.
#3	830.16	3826.6	28444.	12455.

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/27/2012 8:57:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0042	478.5	.0292	1.483	.0102	1.501	-.0022	.0435
Stddev	.0001	1.0	.0011	.005	.0001	.010	.0002	.0003
%RSD	3.383	.2006	3.608	.3373	.5121	.6875	9.149	.5938
#1	-.0041	479.1	.0300	1.484	.0101	1.490	-.0020	.0437
#2	-.0041	479.1	.0280	1.487	.0102	1.502	-.0022	.0432
#3	-.0043	477.4	.0297	1.477	.0101	1.511	-.0023	.0437

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0533	.0540	194.2	47.66	34.82	3.880	.0035	.6076
Stddev	.0002	.0006	.4	.24	.16	.020	.0003	.0036
%RSD	.4560	1.070	.2280	.4937	.4489	.5243	9.780	.5843
#1	.0535	.0543	193.7	47.49	34.69	3.904	.0033	.6109
#2	.0534	.0544	194.5	47.93	34.80	3.866	.0032	.6081
#3	.0530	.0533	194.3	47.57	34.99	3.870	.0038	.6039

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0315	.1693	F-.0058	.0023	15.06	.0248	.0593	F12.90
Stddev	.0003	.0027	.0021	.0014	.01	.0005	.0002	.04
%RSD	.8779	1.577	35.59	59.72	.0849	1.989	.3466	.3367
#1	.0313	.1704	-.0039	.0009	15.07	.0254	.0593	12.94
#2	.0313	.1663	-.0080	.0024	15.04	.0244	.0595	12.90
#3	.0318	.1712	-.0055	.0037	15.06	.0247	.0591	12.85

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0260	.2339	.5082
Stddev	.0047	.0005	.0011
%RSD	18.08	.2274	.2083
#1	-.0208	.2336	.5075
#2	-.0276	.2345	.5077
#3	-.0298	.2336	.5094

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/27/2012 8:57:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	990.60	3907.2	29458.	12615.
Stddev	1.62	10.5	228.	30.
%RSD	.16326	.26895	.77508	.23627
#1	989.02	3895.9	29208.	12581.
#2	992.26	3909.0	29509.	12634.
#3	990.53	3916.7	29656.	12631.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:02:11 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2538	40.27	2.016	2.066	2.075	41.23	2.048	2.040	2.069	2.035
Stddev	.0012	.02	.007	.010	.004	.11	.003	.003	.008	.002
%RSD	.4595	.0586	.3628	.5044	.2134	.2723	.1497	.1373	.3970	.0959
#1	.2551	40.26	2.018	2.073	2.072	41.10	2.050	2.042	2.068	2.036
#2	.2527	40.25	2.021	2.072	2.080	41.31	2.049	2.041	2.078	2.037
#3	.2537	40.30	2.007	2.054	2.074	41.28	2.044	2.036	2.062	2.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.42	40.79	41.05	2.070	2.038	40.70	2.054	2.018	2.011	2.014
Stddev	.11	.19	.13	.009	.003	.15	.005	.004	.004	.005
%RSD	.2704	.4539	.3094	.4223	.1448	.3733	.2296	.1943	.2019	.2326
#1	40.30	40.93	40.91	2.069	2.039	40.81	2.057	2.013	2.012	2.019
#2	40.48	40.85	41.15	2.079	2.040	40.78	2.056	2.021	2.015	2.014
#3	40.50	40.58	41.10	2.062	2.035	40.53	2.048	2.019	2.007	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.063	2.080	2.073	2.065	2.038	2.128	2.058
Stddev	.006	.003	.008	.008	.000	.006	.002
%RSD	.2861	.1499	.3852	.3877	.0119	.2939	.0942
#1	2.067	2.083	2.077	2.066	2.038	2.123	2.060
#2	2.065	2.082	2.079	2.072	2.038	2.135	2.058
#3	2.056	2.077	2.064	2.056	2.037	2.126	2.056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:02:11 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1184.6	2533.1	19863.	8463.4
Stddev	2.4	5.3	35.	18.0
%RSD	.20438	.20746	.17732	.21289
#1	1187.0	2532.2	19860.	8484.2
#2	1182.1	2528.3	19830.	8452.5
#3	1184.7	2538.7	19900.	8453.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 9:06:17 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0113	.0003	.0004	.0003	.0091	.0003	.0002	.0004
Stddev	.0001	.0069	.0005	.0001	.0000	.0023	.0001	.0000	.0003
%RSD	276.7	60.78	145.2	25.59	6.132	25.73	26.74	8.892	57.61
#1	-.0001	.0174	.0008	.0004	.0003	.0107	.0003	.0002	.0007
#2	.0001	.0128	.0004	.0004	.0003	.0101	.0003	.0002	.0005
#3	.0002	.0038	-.0002	.0003	.0003	.0064	.0002	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0193	.0679	.0067	.0004	.0008	.0215	.0005	.0006
Stddev	.0001	.0031	.0396	.0103	.0000	.0002	.0027	.0001	.0007
%RSD	25.19	15.82	58.40	153.2	10.73	27.52	12.75	18.65	103.4
#1	.0006	.0222	.1038	-.0012	.0004	.0010	.0212	.0006	.0013
#2	.0006	.0196	.0744	.0030	.0004	.0006	.0244	.0004	.0005
#3	.0004	.0161	.0254	.0183	.0005	.0007	.0189	.0004	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F.0029	.0017	.0004	.0003	F.0021	F.0026	.0008	.0008
Stddev	.002	.0003	.0004	.0003	.0000	.0001	.0009	.0002	.0001
%RSD	6548.	11.62	25.32	83.51	11.43	4.347	33.97	27.99	14.22
#1	.0015	.0028	.0022	.0001	.0004	.0021	.0019	.0008	.0007
#2	-.0020	.0027	.0013	.0002	.0003	.0021	.0024	.0006	.0007
#3	.0004	.0033	.0017	.0007	.0003	.0020	.0036	.0010	.0009
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		.0020				.0020	.0020		
Low Limit		-.0020				-.0020	-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 9:06:17 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1433.3	2656.5	20792.	8603.2
Stddev	1.0	2.1	5.	17.3
%RSD	.07111	.07848	.02425	.20107
#1	1433.9	2654.2	20788.	8600.6
#2	1432.1	2656.8	20791.	8587.3
#3	1433.9	2658.4	20798.	8621.6

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/27/2012 9:10:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0019	F977.9	.0457	1.178	.0091	1.952	.0014	.0419
Stddev	.0001	2.3	.0030	.002	.0000	.007	.0002	.0004
%RSD	4.905	.2333	6.567	.1349	.1364	.3543	15.01	1.022
#1	-.0019	980.0	.0441	1.177	.0091	1.944	.0015	.0414
#2	-.0019	975.5	.0491	1.176	.0091	1.956	.0015	.0420
#3	-.0018	978.3	.0437	1.179	.0091	1.956	.0011	.0422

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1286	.1875	373.0	41.55	43.75	F4.128	.0104	.4989
Stddev	.0004	.0013	1.9	.09	.14	.008	.0001	.0052
%RSD	.3411	.6767	.4980	.2247	.3215	.2015	.6055	1.041
#1	.1289	.1888	372.0	41.65	43.59	4.133	.0105	.5008
#2	.1287	.1863	371.9	41.53	43.78	4.118	.0104	.5029
#3	.1281	.1874	375.1	41.47	43.87	4.132	.0104	.4930

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0748	.3406	F-.0060	.0036	21.23	.0274	.0594	F11.33
Stddev	.0005	.0043	.0016	.0061	.05	.0010	.0000	.00
%RSD	.6574	1.275	26.03	168.5	.2284	3.525	.0147	.0399
#1	.0747	.3357	-.0051	.0083	21.18	.0282	.0594	11.33
#2	.0744	.3439	-.0078	-.0033	21.22	.0278	.0594	11.32
#3	.0753	.3422	-.0051	.0058	21.28	.0263	.0594	11.33

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0199	.5037	.6484
Stddev	.0048	.0003	.0043
%RSD	24.02	.0600	.6624
#1	-.0214	.5038	.6434
#2	-.0146	.5034	.6507
#3	-.0238	.5040	.6511

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/27/2012 9:10:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	839.03	3709.6	27475.	12117.
Stddev	2.23	3.4	138.	45.
%RSD	.26534	.09062	.50070	.36921
#1	838.75	3713.3	27317.	12066.
#2	841.39	3708.9	27539.	12137.
#3	836.96	3706.6	27568.	12148.

Zoom In Zoom Out

Sample Name: F95220-6 Acquired: 7/27/2012 9:15:29 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0006	F1107.	.0688	.7247	.0067	14.92	.0025	.0245
Stddev	.0001	5.	.0021	.0025	.0001	.07	.0008	.0001
%RSD	21.00	.4874	2.990	.3400	1.246	.4478	31.56	.4008
#1	-.0006	1100.	.0668	.7242	.0066	14.85	.0034	.0246
#2	-.0007	1110.	.0688	.7225	.0068	14.96	.0024	.0244
#3	-.0005	1110.	.0709	.7274	.0068	14.97	.0018	.0245

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2502	.1058	F510.3	16.30	14.12	1.199	.0146	.4275
Stddev	.0019	.0004	5.4	.06	.12	.004	.0003	.0034
%RSD	.7419	.4213	1.056	.3853	.8280	.3619	2.391	.7955
#1	.2481	.1054	504.4	16.23	14.01	1.194	.0142	.4239
#2	.2517	.1057	511.7	16.31	14.12	1.202	.0147	.4279
#3	.2506	.1063	514.9	16.35	14.24	1.201	.0149	.4306

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0887	.3145	-.0048	.0186	33.69	.0426	.0759	F4.802
Stddev	.0006	.0023	.0012	.0125	.04	.0008	.0003	.014
%RSD	.6507	.7162	24.28	67.48	.1295	1.949	.3677	.2876
#1	.0881	.3127	-.0061	.0089	33.66	.0435	.0756	4.787
#2	.0891	.3170	-.0042	.0327	33.68	.0418	.0760	4.812
#3	.0891	.3138	-.0040	.0140	33.74	.0425	.0762	4.809

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0134	.7933	.3237
Stddev	.0040	.0031	.0004
%RSD	29.81	.3955	.1290
#1	-.0091	.7897	.3237
#2	-.0140	.7952	.3242
#3	-.0170	.7950	.3234

Zoom In Zoom Out

Sample Name: F95220-6 Acquired: 7/27/2012 9:15:29 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	879.52	2657.6	19741.	8759.7
Stddev	2.40	1.0	44.	16.1
%RSD	.27253	.03614	.22194	.18360
#1	882.23	2657.4	19786.	8774.8
#2	877.68	2658.6	19698.	8761.5
#3	878.66	2656.7	19739.	8742.8

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/27/2012 9:19:58 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0014	266.3	.0172	3.114	.0111	.3704	.0000	.1180
Stddev	.0001	2.3	.0004	.010	.0000	.0021	.0000	.0003
%RSD	3.818	.8670	2.285	.3340	.1384	.5650	486.3	.2646
#1	-.0014	266.1	.0174	3.124	.0111	.3688	.0000	.1176
#2	-.0013	268.7	.0168	3.103	.0111	.3697	.0000	.1182
#3	-.0014	264.1	.0175	3.115	.0111	.3728	.0000	.1181

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1192	.0251	153.2	4.244	7.677	1.217	.0008	.6509
Stddev	.0004	.0001	.1	.008	.046	.001	.0001	.0003
%RSD	.3505	.4002	.0699	.1817	.5964	.0624	8.018	.0506
#1	.1187	.0251	153.2	4.245	7.625	1.216	.0008	.6509
#2	.1194	.0249	153.1	4.236	7.698	1.217	.0007	.6512
#3	.1194	.0251	153.3	4.251	7.709	1.217	.0008	.6505

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.7641	.1243	-.0035	.0002	11.18	.0188	.0083	2.085
Stddev	.0018	.0022	.0012	.0011	.03	.0002	.0000	.002
%RSD	.2296	1.780	33.54	470.6	.2869	1.206	.2574	.1152
#1	.7622	.1260	-.0032	-.0001	11.15	.0190	.0083	2.088
#2	.7647	.1218	-.0048	-.0007	11.19	.0185	.0083	2.084
#3	.7655	.1252	-.0025	.0015	11.21	.0189	.0083	2.084

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0180	.3263	.3132
Stddev	.0011	.0003	.0003
%RSD	6.284	.0781	.1016
#1	-.0177	.3260	.3129
#2	-.0192	.3265	.3133
#3	-.0170	.3265	.3135

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/27/2012 9:19:58 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	995.88	7215.4	54826.	23913.
Stddev	3.53	13.8	43.	64.
%RSD	.35491	.19061	.07825	.26905
#1	998.62	7231.2	54777.	23839.
#2	997.14	7206.2	54842.	23946.
#3	991.89	7208.7	54858.	23955.

Zoom In
Zoom Out

Sample Name: F95245-1 Acquired: 7/27/2012 9:24:34 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0016	85.96	.0175	.6422	.0029	289.0	-.0011	.0085	.1359	.0150
Stddev	.0004	.20	.0011	.0025	.0000	1.4	.0001	.0002	.0003	.0002
%RSD	23.70	.2372	6.324	.3830	.7954	.4859	8.778	2.361	.1900	1.027
#1	-.0013	86.05	.0162	.6442	.0028	290.4	-.0011	.0083	.1361	.0150
#2	-.0014	85.73	.0182	.6395	.0029	287.6	-.0010	.0086	.1360	.0148
#3	-.0020	86.11	.0180	.6429	.0029	289.2	-.0012	.0086	.1356	.0151

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.07	4.036	10.13	.2649	.0049	.4754	.0171	.0886	-.0022	-.0019
Stddev	.10	.013	.01	.0007	.0001	.0016	.0001	.0008	.0002	.0013
%RSD	.2007	.3091	.0898	.2557	1.626	.3366	.8437	.8517	7.653	69.31
#1	52.07	4.042	10.13	.2646	.0048	.4759	.0169	.0890	-.0020	-.0028
#2	51.97	4.021	10.13	.2657	.0049	.4737	.0171	.0890	-.0023	-.0023
#3	52.17	4.043	10.14	.2645	.0050	.4767	.0172	.0877	-.0022	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	33.03	.0116	1.493	.7208	-.0069	.1611	.0508
Stddev	.02	.0002	.004	.0005	.0011	.0005	.0003
%RSD	.0522	1.805	.2492	.0739	15.93	.2793	.5175
#1	33.05	.0119	1.495	.7214	-.0056	.1615	.0510
#2	33.01	.0115	1.489	.7203	-.0072	.1613	.0505
#3	33.04	.0115	1.496	.7207	-.0078	.1606	.0509

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1080.2	2912.9	22649.	9696.8
Stddev	3.8	8.3	82.	52.8
%RSD	.35261	.28424	.36297	.54450
#1	1075.9	2903.5	22558.	9637.0
#2	1081.4	2916.1	22672.	9716.8
#3	1083.2	2919.0	22718.	9736.7

Zoom In
Zoom Out

Sample Name: F95281-1 Acquired: 7/27/2012 9:29:03 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	236.5	.0092	.3911	.0039	1.076	-.0015	.0143	.0735	.0801
Stddev	.0002	1.5	.0005	.0019	.0000	.006	.0001	.0001	.0003	.0003
%RSD	38.45	.6307	5.715	.4776	1.005	.5898	5.873	.6693	.4199	.3787
#1	-.0007	236.3	.0097	.3914	.0039	1.083	-.0014	.0142	.0732	.0804
#2	-.0005	238.2	.0092	.3928	.0039	1.075	-.0016	.0143	.0738	.0798
#3	-.0003	235.2	.0086	.3891	.0039	1.071	-.0014	.0144	.0736	.0801

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.97	8.109	8.041	.3328	.0011	.8546	.0327	.0901	-.0026	.0055
Stddev	.05	.038	.035	.0006	.0003	.0088	.0002	.0011	.0008	.0028
%RSD	.0669	.4661	.4370	.1724	23.59	1.024	.6850	1.261	29.03	50.63
#1	80.97	8.143	8.074	.3321	.0013	.8538	.0325	.0895	-.0035	.0082
#2	81.02	8.116	8.004	.3329	.0013	.8637	.0327	.0914	-.0021	.0026
#3	80.91	8.069	8.046	.3333	.0008	.8463	.0329	.0893	-.0022	.0059

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	31.68	.0141	.0163	.8721	-.0014	.2140	.1364
Stddev	.07	.0008	.0000	.0006	.0001	.0005	.0003
%RSD	.2071	5.815	.3048	.0687	9.783	.2471	.2450
#1	31.74	.0138	.0163	.8726	-.0013	.2135	.1363
#2	31.61	.0135	.0164	.8714	-.0013	.2146	.1368
#3	31.70	.0150	.0163	.8723	-.0015	.2140	.1362

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1166.1	2839.8	21501.	9135.5
Stddev	4.0	11.8	35.	47.6
%RSD	.34542	.41456	.16438	.52070
#1	1162.4	2826.6	21474.	9083.9
#2	1170.4	2849.2	21490.	9144.9
#3	1165.5	2843.7	21541.	9177.6

Zoom In Zoom Out

Sample Name: F95281-2 Acquired: 7/27/2012 9:33:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0033	204.2	.0333	1.351	.0122	5.947	.0008	.0670
Stddev	.0002	2.8	.0005	.007	.0000	.027	.0003	.0001
%RSD	6.863	1.366	1.465	.5524	.3839	.4497	36.82	.2135
#1	-.0034	202.7	.0335	1.343	.0122	5.923	.0011	.0671
#2	-.0033	207.5	.0328	1.351	.0121	5.976	.0005	.0670
#3	-.0030	202.6	.0337	1.358	.0121	5.942	.0009	.0668

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1829	.2387	257.2	29.90	42.98	1.413	.0009	2.235
Stddev	.0005	.0001	2.0	.08	.32	.001	.0002	.002
%RSD	.3006	.0552	.7938	.2601	.7360	.0587	25.33	.0775
#1	.1829	.2388	255.8	29.84	42.63	1.414	.0007	2.233
#2	.1835	.2388	259.6	29.87	43.25	1.414	.0009	2.237
#3	.1824	.2385	256.3	29.99	43.05	1.412	.0012	2.234

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1504	.5134	F-.0065	.0008	19.19	.0134	.2176	2.295
Stddev	.0002	.0021	.0006	.0008	.02	.0004	.0005	.002
%RSD	.1139	.4000	8.916	99.04	.1154	3.340	.2429	.0741
#1	.1505	.5116	-.0067	.0014	19.22	.0131	.2171	2.293
#2	.1502	.5157	-.0058	.0012	19.19	.0139	.2175	2.296
#3	.1506	.5129	-.0069	-.0001	19.17	.0131	.2181	2.295

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0224	.3757	.6696
Stddev	.0021	.0007	.0019
%RSD	9.494	.1865	.2815
#1	-.0219	.3753	.6688
#2	-.0205	.3765	.6681
#3	-.0247	.3753	.6717

Zoom In Zoom Out

Sample Name: F95281-2 Acquired: 7/27/2012 9:33:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	962.91	4404.0	34203.	14508.
Stddev	2.51	14.9	29.	108.
%RSD	.26072	.33818	.08365	.74159
#1	960.50	4387.0	34186.	14552.
#2	962.73	4409.9	34187.	14386.
#3	965.51	4414.9	34236.	14587.

Zoom In Zoom Out

Sample Name: F95281-3 Acquired: 7/27/2012 9:38:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0029	72.74	.0328	1.626	.0266	16.83	.0004	.0519
Stddev	.0001	.24	.0004	.015	.0001	.06	.0000	.0000
%RSD	4.491	.3353	1.372	.9048	.2988	.3782	8.067	.0603
#1	-.0028	72.58	.0327	1.623	.0267	16.77	.0004	.0519
#2	-.0028	73.02	.0333	1.643	.0267	16.82	.0003	.0519
#3	-.0030	72.61	.0324	1.614	.0266	16.89	.0004	.0519

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0576	.1591	90.63	19.16	31.10	1.201	.0000	1.454
Stddev	.0001	.0005	.10	.02	.14	.005	.000	.005
%RSD	.1173	.2858	.1136	.1065	.4532	.3926	156.3	.3295
#1	.0577	.1594	90.73	19.17	30.94	1.197	.0000	1.460
#2	.0576	.1586	90.53	19.14	31.16	1.200	.0000	1.453
#3	.0577	.1593	90.62	19.18	31.20	1.206	-.0001	1.450

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1227	.2074	-.0045	-.0024	7.806	.0048	.3225	.8498
Stddev	.0005	.0021	.0004	.0003	.010	.0000	.0009	.0015
%RSD	.3694	1.004	9.778	13.03	.1309	.6349	.2848	.1720
#1	.1231	.2097	-.0040	-.0026	7.814	.0048	.3228	.8486
#2	.1222	.2070	-.0046	-.0026	7.794	.0048	.3231	.8493
#3	.1228	.2056	-.0049	-.0021	7.808	.0049	.3214	.8514

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0328	.1209	.4605
Stddev	.0030	.0005	.0007
%RSD	9.165	.4230	.1614
#1	-.0299	.1204	.4609
#2	-.0359	.1207	.4596
#3	-.0326	.1214	.4609

Zoom In Zoom Out

Sample Name: F95281-3 Acquired: 7/27/2012 9:38:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	995.84	8972.7	71004.	30559.
Stddev	3.30	17.2	167.	125.
%RSD	.33139	.19136	.23454	.40911
#1	999.64	8952.9	71011.	30463.
#2	994.18	8983.4	71167.	30515.
#3	993.70	8981.8	70834.	30701.

Zoom In Zoom Out

Sample Name: F95281-4 Acquired: 7/27/2012 9:42:39 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	178.3	.0179	1.005	.0069	5.619	-.0016	.0376	.1220	.1781
Stddev	.0001	2.0	.0004	.002	.0000	.030	.0003	.0001	.0002	.0006
%RSD	6.928	1.114	1.963	.1553	.3255	.5412	18.25	.2376	.1240	.3505
#1	-.0020	180.5	.0175	1.006	.0069	5.609	-.0013	.0377	.1221	.1788
#2	-.0023	176.7	.0179	1.006	.0068	5.594	-.0015	.0375	.1219	.1777
#3	-.0021	177.6	.0182	1.003	.0069	5.653	-.0019	.0376	.1219	.1777

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	207.7	29.92	19.35	.7151	.0007	.6906	.0519	.2625	-.0035	.0048
Stddev	1.5	.05	.12	.0023	.0001	.0039	.0001	.0006	.0006	.0009
%RSD	.7120	.1759	.6432	.3190	8.114	.5702	.2188	.2267	18.33	17.95
#1	206.9	29.90	19.26	.7153	.0007	.6946	.0518	.2631	-.0035	.0045
#2	206.7	29.98	19.30	.7173	.0007	.6867	.0520	.2620	-.0029	.0057
#3	209.4	29.88	19.49	.7127	.0006	.6904	.0520	.2623	-.0042	.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.60	.0163	.1714	1.248	-.0072	.3467	.2704
Stddev	.03	.0007	.0002	.002	.0017	.0005	.0009
%RSD	.1419	4.609	.1415	.1344	23.44	.1368	.3459
#1	20.60	.0166	.1713	1.248	-.0063	.3461	.2693
#2	20.58	.0154	.1716	1.249	-.0092	.3469	.2710
#3	20.63	.0168	.1711	1.246	-.0062	.3470	.2709

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1083.8	3262.3	24998.	10622.
Stddev	1.2	3.3	93.	45.
%RSD	.11258	.10147	.37140	.42284
#1	1082.8	3258.5	24896.	10584.
#2	1083.4	3264.8	25019.	10671.
#3	1085.1	3263.5	25078.	10609.

Zoom In Zoom Out

Sample Name: F95281-5 Acquired: 7/27/2012 9:47:11 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0002	137.5	.0248	.2228	.0051	1.428	-.0002	.0093
Stddev	.0003	.4	.0016	.0010	.0000	.009	.0005	.0003
%RSD	205.5	.3073	6.384	.4524	.6269	.6547	261.1	3.515
#1	-.0001	137.0	.0233	.2218	.0051	1.417	.0002	.0090
#2	.0001	137.5	.0265	.2227	.0052	1.434	-.0007	.0091
#3	.0005	137.9	.0248	.2238	.0051	1.432	.0000	.0096

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1723	.1213	361.6	8.054	7.746	.3401	.0024	.2902
Stddev	.0008	.0011	3.5	.026	.071	.0014	.0004	.0049
%RSD	.4839	.8837	.9721	.3176	.9229	.4194	17.86	1.680
#1	.1727	.1217	358.3	8.058	7.671	.3415	.0027	.2917
#2	.1714	.1221	365.3	8.027	7.814	.3401	.0025	.2847
#3	.1729	.1201	361.2	8.078	7.753	.3387	.0019	.2941

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0209	.2272	-.0036	.0066	15.66	.0158	.0121	1.298
Stddev	.0005	.0019	.0014	.0006	.05	.0009	.0000	.003
%RSD	2.398	.8329	38.93	9.256	.3502	5.498	.2985	.2347
#1	.0210	.2294	-.0052	.0072	15.61	.0160	.0121	1.301
#2	.0213	.2262	-.0034	.0064	15.65	.0148	.0120	1.297
#3	.0203	.2259	-.0024	.0061	15.72	.0165	.0121	1.295

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0131	.8249	.1099
Stddev	.0011	.0007	.0004
%RSD	8.017	.0893	.3817
#1	-.0120	.8243	.1095
#2	-.0131	.8257	.1099
#3	-.0141	.8247	.1103

Zoom In Zoom Out

Sample Name: F95281-5 Acquired: 7/27/2012 9:47:11 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1077.3	2734.1	21355.	9055.3
Stddev	3.1	8.8	50.	59.4
%RSD	.28770	.32295	.23259	.65567
#1	1078.9	2739.5	21332.	9095.9
#2	1079.1	2738.9	21321.	8987.1
#3	1073.7	2723.9	21412.	9082.8

Zoom In Zoom Out

Sample Name: MP23300-MB1 Acquired: 7/27/2012 9:51:34 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	-.0032	-.0005	-.0001	-.0002	.0082	-.0002	-.0003	.0002	-.0013
Stddev	.0001	.0079	.0002	.0001	.0000	.0007	.0000	.0002	.0004	.0002
%RSD	72.18	245.1	47.55	73.95	14.33	8.642	16.26	57.65	163.3	11.82
#1	-.0003	.0055	-.0003	-.0003	-.0002	.0090	-.0002	-.0005	-.0002	-.0012
#2	-.0001	-.0099	-.0008	.0000	-.0002	.0076	-.0001	-.0002	.0005	-.0015
#3	-.0001	-.0053	-.0004	-.0001	-.0002	.0081	-.0002	-.0002	.0003	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0255	.0166	-.0147	-.0002	-.0001	-.0040	.0003	.0005	-.0001	.0034
Stddev	.0048	.0048	.0041	.0000	.0002	.0024	.0002	.0007	.0002	.0019
%RSD	18.79	29.03	27.65	19.06	268.8	59.83	64.16	145.0	256.9	54.94
#1	.0308	.0155	-.0127	-.0001	.0000	-.0013	.0002	-.0003	-.0003	.0040
#2	.0241	.0218	-.0121	-.0002	.0001	-.0050	.0005	.0009	-.0001	.0013
#3	.0215	.0124	-.0194	-.0002	-.0002	-.0059	.0002	.0009	.0001	.0048

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0096	-.0022	-.0002	.0002	.0009	-.0002	.0001
Stddev	.0006	.0003	.0000	.0001	.0004	.0001	.0001
%RSD	5.852	12.42	9.702	54.59	38.28	82.58	112.5
#1	.0103	-.0021	-.0002	.0001	.0010	-.0002	.0001
#2	.0093	-.0020	-.0002	.0003	.0005	.0000	.0001
#3	.0093	-.0025	-.0002	.0001	.0012	-.0003	.0000

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1439.9	2676.3	20942.	8634.3
Stddev	3.1	3.6	32.	55.6
%RSD	.21572	.13277	.15207	.64367
#1	1437.5	2672.7	20909.	8623.6
#2	1443.4	2679.9	20943.	8584.8
#3	1438.7	2676.2	20973.	8694.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:56:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2556	40.90	2.039	2.098	2.094	41.40	2.070	2.060	2.088	2.056
Stddev	.0014	.09	.005	.010	.003	.02	.006	.003	.002	.004
%RSD	.5444	.2085	.2369	.4600	.1232	.0579	.2856	.1529	.1141	.1982
#1	.2567	40.90	2.034	2.108	2.094	41.39	2.071	2.060	2.088	2.059
#2	.2562	40.82	2.042	2.096	2.091	41.43	2.063	2.056	2.090	2.058
#3	.2541	40.99	2.042	2.089	2.096	41.40	2.074	2.063	2.085	2.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.78	41.11	41.28	2.100	2.059	41.08	2.074	2.034	2.035	2.033
Stddev	.06	.06	.04	.003	.002	.08	.007	.002	.009	.008
%RSD	.1567	.1489	.0872	.1485	.0825	.2053	.3543	.1187	.4502	.3958
#1	40.75	41.18	41.24	2.104	2.060	41.16	2.074	2.036	2.036	2.036
#2	40.74	41.10	41.28	2.099	2.058	41.08	2.067	2.035	2.025	2.024
#3	40.85	41.06	41.31	2.098	2.061	41.00	2.082	2.032	2.043	2.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.101	2.095	2.086	2.055	2.147	2.078
Stddev	.003	.007	.004	.001	.006	.004	.005
%RSD	.1274	.3428	.1803	.0600	.3051	.1860	.2388
#1	2.088	2.101	2.100	2.087	2.059	2.151	2.077
#2	2.085	2.094	2.093	2.084	2.059	2.144	2.073
#3	2.090	2.109	2.093	2.085	2.048	2.145	2.083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 9:56:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1170.8	2502.8	19620.	8238.7
Stddev	3.2	4.7	47.	15.4
%RSD	.27669	.18839	.24124	.18642
#1	1167.8	2500.2	19566.	8250.2
#2	1170.4	2508.2	19653.	8244.5
#3	1174.2	2500.0	19642.	8221.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:00:08 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0116	.0002	.0002	.0004	.0104	.0003	.0003	.0001
Stddev	.0004	.0087	.0004	.0002	.0000	.0014	.0001	.0001	.0006
%RSD	184.7	75.42	193.0	90.36	5.628	13.57	15.62	42.43	520.9
#1	.0002	.0215	.0005	.0004	.0004	.0114	.0003	.0003	-.0005
#2	-.0002	.0054	.0004	.0000	.0004	.0110	.0003	.0004	.0002
#3	.0006	.0078	-.0003	.0003	.0004	.0088	.0004	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0218	.0164	.0148	.0004	.0009	.0196	.0006	.0010
Stddev	.0001	.0030	.0044	.0100	.0000	.0002	.0055	.0001	.0001
%RSD	24.30	13.81	26.90	67.41	5.783	17.93	28.21	18.43	6.898
#1	.0004	.0245	.0161	.0238	.0004	.0010	.0253	.0005	.0009
#2	.0005	.0223	.0209	.0164	.0004	.0010	.0143	.0006	.0010
#3	.0003	.0185	.0121	.0041	.0004	.0007	.0191	.0007	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	F.0040	.0025	.0007	.0004	.0011	F.0022	.0006	.0008
Stddev	.0002	.0007	.0003	.0001	.0000	.0001	.0007	.0001	.0001
%RSD	18.38	18.26	12.66	14.49	2.075	6.923	32.66	14.30	10.19
#1	.0014	.0039	.0024	.0006	.0004	.0011	.0016	.0006	.0007
#2	.0010	.0033	.0028	.0008	.0004	.0011	.0030	.0005	.0008
#3	.0013	.0047	.0022	.0007	.0004	.0010	.0020	.0007	.0007
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		.0020					.0020		
Low Limit		-.0020					-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:00:08 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1433.4	2655.6	20932.	8619.6
Stddev	1.1	9.1	57.	46.9
%RSD	.07384	.34318	.27434	.54428
#1	1434.5	2646.6	20866.	8623.6
#2	1433.3	2655.4	20971.	8570.8
#3	1432.4	2664.8	20959.	8664.4

Zoom In Zoom Out

Sample Name: MP23300-B1 Acquired: 7/27/2012 10:04:37 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0493	27.56	2.000	2.139	.0533	25.89	.0520	.5238	.2118	.2623
Stddev	.0000	.04	.001	.003	.0002	.07	.0001	.0010	.0011	.0011
%RSD	.0751	.1539	.0438	.1441	.4044	.2722	.1921	.1821	.5157	.4075
#1	.0494	27.52	2.001	2.140	.0531	25.82	.0519	.5249	.2115	.2630
#2	.0493	27.56	1.999	2.136	.0535	25.96	.0520	.5231	.2109	.2627
#3	.0493	27.61	2.001	2.142	.0535	25.89	.0521	.5236	.2130	.2611

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.12	25.80	25.23	.5323	.5137	25.82	.5365	.4922	.5102	2.020
Stddev	.04	.08	.08	.0030	.0012	.05	.0004	.0022	.0029	.004
%RSD	.1423	.3090	.3007	.5554	.2297	.1778	.0757	.4532	.5771	.1938
#1	27.08	25.74	25.32	.5302	.5141	25.77	.5369	.4910	.5086	2.024
#2	27.11	25.89	25.19	.5309	.5124	25.84	.5362	.4948	.5085	2.017
#3	27.16	25.78	25.19	.5357	.5147	25.85	.5363	.4909	.5136	2.019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0095	.5176	.5158	.5145	2.040	.5319	.5237
Stddev	.0008	.0025	.0006	.0005	.003	.0014	.0011
%RSD	7.908	.4810	.1204	.0974	.1343	.2564	.2016
#1	.0100	.5202	.5151	.5148	2.043	.5304	.5249
#2	.0087	.5173	.5161	.5139	2.038	.5320	.5235
#3	.0099	.5153	.5163	.5147	2.038	.5331	.5228

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.7	2537.2	19993.	8492.9
Stddev	2.1	1.9	58.	9.7
%RSD	.16601	.07362	.29182	.11417
#1	1237.9	2535.9	19930.	8483.3
#2	1233.9	2539.4	20046.	8502.6
#3	1235.2	2536.5	20004.	8492.7

Zoom In Zoom Out

Sample Name: F95207-1 Acquired: 7/27/2012 10:08:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0204	-.4553	-.0244	-.0007	-.0153	428.6	-.0231	-.0184
Stddev	.0676	.3045	.0424	.0162	.0027	1.4	.0067	.0056
%RSD	331.3	66.88	173.6	2241.	17.52	.3183	29.18	30.65
#1	-.0018	-.8060	-.0719	.0180	-.0131	428.2	-.0206	-.0149
#2	.0963	-.3010	.0098	-.0098	-.0144	430.2	-.0179	-.0249
#3	-.0333	-.2587	-.0112	-.0104	-.0182	427.6	-.0307	-.0153

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0260	.0068	.2032	409.4	1312.	-.0258	-.0040	F10890.
Stddev	.0244	.0336	.1813	.6	3.	.0042	.0076	130.
%RSD	94.18	492.8	89.21	.1445	.2593	16.41	190.5	1.192
#1	-.0068	.0337	.3965	408.8	1309.	-.0236	-.0120	10940.
#2	-.0535	-.0309	.1759	409.3	1316.	-.0307	-.0031	10980.
#3	-.0176	.0176	.0371	410.0	1312.	-.0231	.0031	10740.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0119	.0762	-.0684	.1357	.2429	-.0418	7.831	.0408
Stddev	.0054	.0459	.0323	.1383	.1045	.0350	.052	.0106
%RSD	45.73	60.23	47.25	101.9	43.00	83.57	.6614	26.03
#1	-.0058	.1283	-.0744	-.0186	.2134	-.0462	7.891	.0295
#2	-.0163	.0414	-.0974	.2483	.3590	-.0744	7.803	.0505
#3	-.0134	.0591	-.0335	.1775	.1564	-.0049	7.799	.0423

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.1150	-.0184	-.0033
Stddev	.1352	.0126	.0088
%RSD	117.6	68.48	270.0
#1	.2543	-.0066	.0017
#2	-.0157	-.0317	-.0135
#3	.1065	-.0171	.0019

Zoom In Zoom Out

Sample Name: F95207-1 Acquired: 7/27/2012 10:08:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1242.6	2509.0	19330.	8298.4
Stddev	2.3	2.9	24.	22.4
%RSD	.18532	.11570	.12319	.26934
#1	1243.6	2506.7	19354.	8277.7
#2	1240.0	2508.1	19330.	8295.4
#3	1244.2	2512.2	19306.	8322.1

Zoom In Zoom Out

Sample Name: MP23300-D1 Acquired: 7/27/2012 10:13:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0186	-.2372	-.0580	-.0020	-.0151	429.9	-.0135	-.0038
Stddev	.0344	.0682	.0704	.0110	.0038	1.6	.0071	.0083
%RSD	184.9	28.77	121.4	548.9	24.98	.3612	52.97	219.1
#1	-.0285	-.2347	-.0956	-.0113	-.0158	429.9	-.0053	-.0031
#2	.0197	-.3066	.0232	-.0049	-.0186	428.3	-.0171	.0041
#3	-.0471	-.1702	-.1017	.0102	-.0111	431.4	-.0181	-.0123

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0209	.0063	-.4706	412.3	1315.	-.0243	-.0085	F11030.
Stddev	.0120	.0061	.0571	2.0	4.	.0034	.0112	80.
%RSD	57.50	97.44	12.12	.4939	.2895	13.98	132.1	.7278
#1	-.0232	-.0002	-.4899	409.9	1317.	-.0233	.0032	11020.
#2	-.0079	.0120	-.4064	413.3	1310.	-.0281	-.0096	11120.
#3	-.0317	.0071	-.5156	413.6	1317.	-.0215	-.0192	10960.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0062	.0146	-.0733	.0956	.1863	-.0249	7.891	.0239
Stddev	.0078	.0276	.1239	.1436	.0461	.0216	.032	.0058
%RSD	126.3	188.6	169.1	150.2	24.76	86.73	.4053	24.07
#1	.0051	.0407	-.2145	-.0607	.2077	-.0495	7.855	.0204
#2	-.0010	.0173	-.0229	.1257	.1334	-.0162	7.901	.0306
#3	.0145	-.0142	.0175	.2218	.2178	-.0090	7.917	.0209

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0523	-.0005	.0230
Stddev	.0859	.0325	.0048
%RSD	164.3	6398.	20.66
#1	-.0450	-.0016	.0261
#2	.1178	-.0325	.0255
#3	.0841	.0325	.0176

Zoom In Zoom Out

Sample Name: MP23300-D1 Acquired: 7/27/2012 10:13:22 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.0	2504.0	19251.	8267.5
Stddev	2.3	3.1	92.	28.4
%RSD	.18974	.12482	.47868	.34321
#1	1237.0	2500.6	19273.	8235.1
#2	1235.5	2504.8	19150.	8279.9
#3	1232.4	2506.8	19331.	8287.6

Zoom In Zoom Out

Sample Name: MP23300-S1 Acquired: 7/27/2012 10:17:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0292	27.46	2.080	2.217	.0366	448.2	.0321	.5379
Stddev	.0565	.08	.119	.014	.0051	.2	.0031	.0174
%RSD	193.4	.2932	5.716	.6496	13.85	.0398	9.653	3.237
#1	.0933	27.38	2.206	2.232	.0326	448.4	.0340	.5522
#2	.0078	27.44	1.970	2.203	.0349	448.1	.0337	.5430
#3	-.0134	27.54	2.064	2.215	.0423	448.1	.0285	.5185

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1769	.2743	27.71	431.0	1319.	.5483	.5156	F10820.
Stddev	.0171	.0071	.24	3.4	2.	.0028	.0139	119.
%RSD	9.695	2.601	.8634	.7781	.1182	.5053	2.700	1.103
#1	.1774	.2819	27.94	433.2	1317.	.5475	.5229	10690.
#2	.1937	.2677	27.74	427.1	1318.	.5461	.4995	10920.
#3	.1595	.2732	27.46	432.5	1320.	.5514	.5243	10860.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.5654	.5641	.4794	2.322	.2154	.5160	8.255	.5603
Stddev	.0351	.0975	.0218	.101	.0694	.0096	.024	.0140
%RSD	6.205	17.28	4.551	4.341	32.21	1.866	.2906	2.501
#1	.5684	.6217	.4601	2.221	.1894	.5203	8.282	.5676
#2	.5288	.6191	.5031	2.423	.1628	.5227	8.238	.5442
#3	.5988	.4516	.4749	2.322	.2940	.5050	8.244	.5692

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	2.154	.5444	.5651
Stddev	.052	.0167	.0093
%RSD	2.423	3.073	1.652
#1	2.206	.5259	.5708
#2	2.155	.5489	.5543
#3	2.102	.5585	.5701

Zoom In Zoom Out

Sample Name: MP23300-S1 Acquired: 7/27/2012 10:17:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.9	2505.2	19293.	8233.4
Stddev	2.4	2.2	43.	7.7
%RSD	.19424	.08862	.22081	.09295
#1	1234.9	2506.4	19258.	8237.7
#2	1234.3	2506.7	19280.	8237.9
#3	1238.7	2502.7	19340.	8224.6

Zoom In Zoom Out

Sample Name: MP23300-S2 Acquired: 7/27/2012 10:22:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0680	29.25	2.122	2.262	.0375	463.2	.0294	.5465
Stddev	.0153	.27	.059	.017	.0016	.4	.0027	.0042
%RSD	22.43	.9060	2.784	.7285	4.374	.0931	9.082	.7643
#1	.0856	28.95	2.119	2.256	.0384	462.9	.0291	.5418
#2	.0595	29.34	2.065	2.281	.0385	463.7	.0269	.5500
#3	.0588	29.46	2.183	2.249	.0356	463.0	.0323	.5476

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2121	.2823	29.27	448.0	1346.	.5582	.5394	F11060.
Stddev	.0414	.0084	.04	1.4	5.	.0081	.0096	139.
%RSD	19.54	2.971	.1306	.3091	.3832	1.458	1.782	1.258
#1	.1644	.2914	29.28	446.5	1341.	.5574	.5334	11210.
#2	.2328	.2749	29.22	448.3	1347.	.5506	.5344	11030.
#3	.2391	.2805	29.29	449.2	1352.	.5668	.5505	10940.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.5757	.5044	.5204	2.455	.2262	.5067	8.517	.5776
Stddev	.0058	.0521	.0217	.038	.0769	.0514	.015	.0136
%RSD	.9993	10.33	4.172	1.542	34.00	10.15	.1728	2.355
#1	.5691	.5520	.5448	2.422	.2440	.5651	8.509	.5843
#2	.5782	.5126	.5131	2.445	.1420	.4681	8.534	.5619
#3	.5798	.4487	.5033	2.496	.2926	.4870	8.507	.5864

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	2.229	.5635	.6003
Stddev	.157	.0089	.0159
%RSD	7.059	1.584	2.646
#1	2.078	.5632	.6160
#2	2.392	.5548	.5843
#3	2.218	.5726	.6005

Zoom In
Zoom Out

Sample Name: MP23300-S2 Acquired: 7/27/2012 10:22:26 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.3	2512.6	19436.	8463.9
Stddev	2.5	3.2	50.	35.5
%RSD	.20314	.12756	.25875	.41988
#1	1237.1	2514.9	19446.	8434.0
#2	1232.4	2514.0	19480.	8454.6
#3	1236.3	2508.9	19381.	8503.2

Zoom In
Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/27/2012 10:27:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0835	4.546	.1180	.5071	.0878	451.8	.0802	.0856
Stddev	.0539	.138	.1271	.0088	.0012	1.0	.0100	.0088
%RSD	64.62	3.031	107.7	1.732	1.389	.2140	12.45	10.30
#1	.0218	4.601	-.0272	.5014	.0874	452.4	.0885	.0863
#2	.1220	4.647	.1719	.5026	.0892	452.3	.0831	.0941
#3	.1066	4.389	.2093	.5172	.0869	450.7	.0691	.0765

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0794	.2162	5.548	444.9	1349.	.0817	.1855	F11080.
Stddev	.0327	.0199	.178	1.6	7.	.0017	.0076	143.
%RSD	41.16	9.185	3.211	.3513	.5153	2.110	4.086	1.287
#1	.0629	.2241	5.629	443.7	1350.	.0806	.1839	11220.
#2	.0583	.1936	5.343	446.7	1355.	.0837	.1789	11070.
#3	.1171	.2309	5.670	444.5	1341.	.0808	.1938	10940.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1887	.1329	.1295	.3446	.2558	.0271	8.144	.2089
Stddev	.0129	.0189	.0764	.2109	.0395	.0376	.016	.0056
%RSD	6.853	14.24	58.96	61.20	15.43	138.6	.2007	2.674
#1	.2034	.1546	.0444	.1470	.2105	.0696	8.146	.2025
#2	.1834	.1240	.1921	.3201	.2742	.0140	8.127	.2115
#3	.1793	.1200	.1521	.5666	.2827	-.0022	8.159	.2128

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.2212	.0993	.6012
Stddev	.0715	.0210	.0208
%RSD	32.32	21.18	3.461
#1	.1394	.1152	.6020
#2	.2528	.1071	.5799
#3	.2715	.0754	.6215

Zoom In
Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/27/2012 10:27:01 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1237.0	2509.4	19346.	8367.9
Stddev	2.0	5.8	75.	24.8
%RSD	.16098	.23037	.38895	.29679
#1	1236.1	2509.2	19267.	8374.7
#2	1239.3	2515.3	19354.	8340.3
#3	1235.6	2503.7	19417.	8388.6

Zoom In
Zoom Out

Sample Name: MP23300-SD1 Acquired: 7/27/2012 10:31:36 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 500.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0596	3.891	-.2425	-.0326	-.0831	469.5	-.0887	-.0953	-.1507
Stddev	.1614	1.175	.3746	.0790	.0051	2.7	.0260	.0614	.0748
%RSD	270.7	30.19	154.5	242.6	6.199	.5789	29.34	64.46	49.67
#1	.0026	4.951	-.6432	-.1228	-.0836	468.8	-.0792	-.0244	-.1998
#2	.0614	4.094	.0990	.0012	-.0879	472.5	-.1181	-.1308	-.1876
#3	-.2428	2.628	-.1833	.0239	-.0777	467.2	-.0687	-.1308	-.0646

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0839	-3.060	460.4	1376.	-.0986	-.1209	11600.	.0057	.1118
Stddev	.0777	.251	15.4	9.	.0100	.0826	48.	.0460	.4018
%RSD	92.61	8.186	3.335	.6593	10.10	68.33	.4107	811.5	359.5
#1	.0650	-2.856	460.1	1366.	-.1058	-.0357	11650.	-.0399	-.2040
#2	.0174	-2.984	445.3	1383.	-.1027	-.2006	11580.	.0522	-.0248
#3	.1694	-3.339	476.0	1379.	-.0872	-.1264	11570.	.0047	.5640

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4474	.4717	1.076	-.3617	8.263	-.0620	.3398	-.0496	-.0022
Stddev	.1994	.4600	.479	.1987	.022	.0473	.6892	.1004	.0356
%RSD	44.57	97.52	44.52	54.93	.2641	76.31	202.8	202.5	1607.
#1	-.6326	.4360	1.386	-.3822	8.283	-.0074	-.2736	-.1550	.0304
#2	-.2363	.0306	1.318	-.1536	8.240	-.0915	1.086	.0449	.0032
#3	-.4734	.9486	.5243	-.5493	8.266	-.0871	.2075	-.0386	-.0402

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1326.5	2568.6	19908.	8388.0
Stddev	1.5	6.5	70.	57.7
%RSD	.11215	.25203	.35104	.68785
#1	1325.4	2569.8	19955.	8429.5
#2	1328.2	2574.4	19943.	8322.1
#3	1325.8	2561.6	19828.	8412.5

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/27/2012 10:36:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0165	-.4335	.0578	.0024	-.0203	425.6	-.0199	-.0170
Stddev	.0051	.1459	.0915	.0068	.0032	1.3	.0021	.0051
%RSD	30.80	33.66	158.3	280.6	15.93	.2959	10.76	30.22
#1	-.0126	-.6003	-.0459	-.0053	-.0196	426.4	-.0178	-.0185
#2	-.0223	-.3300	.1270	.0049	-.0175	424.2	-.0221	-.0212
#3	-.0146	-.3701	.0924	.0076	-.0238	426.3	-.0199	-.0113

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0428	-.0003	-.7971	403.5	1305.	-.0234	-.0138	F10780.
Stddev	.0181	.0085	.0454	1.6	5.	.0027	.0237	87.
%RSD	42.32	2835.	5.690	.3993	.3662	11.35	172.1	.8069
#1	-.0630	.0062	-.8383	405.3	1310.	-.0251	-.0126	10870.
#2	-.0280	-.0100	-.7485	403.0	1304.	-.0249	-.0381	10710.
#3	-.0374	.0029	-.8044	402.2	1301.	-.0204	.0093	10750.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0099	.0430	-.0825	.0175	.2049	-.0583	7.788	.0200
Stddev	.0153	.0289	.0115	.0870	.0606	.0101	.013	.0023
%RSD	154.3	67.16	14.00	496.2	29.55	17.36	.1703	11.70
#1	-.0121	.0624	-.0697	.0535	.2503	-.0582	7.775	.0173
#2	.0063	.0568	-.0922	.0808	.1361	-.0685	7.788	.0212
#3	-.0241	.0098	-.0855	-.0817	.2284	-.0483	7.801	.0214

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0081	-.0291	.0199
Stddev	.0120	.0221	.0171
%RSD	148.8	76.10	85.83
#1	-.0025	-.0103	.0017
#2	.0212	-.0235	.0355
#3	.0055	-.0535	.0226

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/27/2012 10:36:05 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1235.1	2500.2	19224.	8267.4
Stddev	4.7	3.7	50.	49.5
%RSD	.38087	.14844	.25949	.59923
#1	1236.7	2498.2	19201.	8245.9
#2	1238.8	2504.5	19190.	8324.0
#3	1229.8	2497.9	19281.	8232.2

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/27/2012 10:40:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0099	-.6412	-.0570	-.0036	-.0172	410.7	-.0232	-.0149
Stddev	.0507	.5775	.0121	.0163	.0020	1.5	.0087	.0156
%RSD	513.8	90.07	21.26	453.7	11.61	.3617	37.58	104.7
#1	-.0244	-.1908	-.0576	-.0193	-.0150	412.3	-.0154	-.0098
#2	-.0141	-.4405	-.0446	.0132	-.0177	410.3	-.0326	-.0324
#3	.0681	-1.292	-.0689	-.0046	-.0190	409.4	-.0215	-.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0361	.0140	-.8706	394.6	1256.	-.0198	-.0134	F10540.
Stddev	.0174	.0175	.0811	1.9	6.	.0031	.0130	65.
%RSD	48.30	125.0	9.313	.4832	.4530	15.85	97.10	.6160
#1	-.0226	.0082	-.9628	396.8	1262.	-.0220	-.0125	10600.
#2	-.0300	.0001	-.8104	393.7	1255.	-.0213	-.0009	10530.
#3	-.0558	.0337	-.8385	393.4	1251.	-.0162	-.0269	10480.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0007	-.0270	-.0721	.2462	.3560	-.0150	7.498	.0047
Stddev	.0122	.1289	.0802	.0618	.0115	.0210	.039	.0095
%RSD	1809.	477.3	111.3	25.12	3.219	139.4	.5244	201.2
#1	.0009	.0578	-.0319	.2272	.3622	-.0090	7.528	.0071
#2	-.0136	.0365	-.0198	.1961	.3630	-.0383	7.512	-.0057
#3	.0106	-.1754	-.1645	.3153	.3428	.0022	7.453	.0127

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.1450	.0004	.0009
Stddev	.1033	.0262	.0093
%RSD	71.26	6333.	1084.
#1	.0271	.0046	-.0081
#2	.1881	-.0277	.0104
#3	.2197	.0243	.0003

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/27/2012 10:40:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1233.7	2494.6	19152.	8174.3
Stddev	3.5	3.4	77.	37.1
%RSD	.28749	.13798	.40207	.45325
#1	1233.2	2494.0	19227.	8132.0
#2	1230.4	2491.4	19073.	8190.3
#3	1237.5	2498.3	19155.	8200.7

Zoom In Zoom Out

Sample Name: F95238-1 Acquired: 7/27/2012 10:45:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0015	.0760	.0010	.1163	-.0004	F1054.	-.0028	.0040	-.0002
Stddev	.0019	.0097	.0032	.0007	.0000	6.	.0000	.0002	.0006
%RSD	126.1	12.70	311.0	.6182	7.774	.5440	1.420	3.940	279.3
#1	.0030	.0807	-.0018	.1162	-.0004	1048.	-.0029	.0041	.0001
#2	.0022	.0824	.0045	.1171	-.0004	1059.	-.0028	.0042	.0001
#3	-.0006	.0649	.0004	.1156	-.0003	1054.	-.0028	.0039	-.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0022	2.754	31.42	412.2	F9.373	.0010	F1447.	.0026	.0011
Stddev	.0003	.011	.10	.6	.051	.0006	23.	.0004	.0016
%RSD	15.08	.4094	.3061	.1458	.5437	60.21	1.584	16.24	144.5
#1	-.0025	2.746	31.35	411.5	9.378	.0003	1471.	.0029	-.0005
#2	-.0023	2.748	31.39	412.3	9.320	.0013	1426.	.0021	.0012
#3	-.0018	2.767	31.53	412.7	9.421	.0015	1442.	.0028	.0027

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0018	.0003	13.28	-.0026	7.811	-.0104	.0018	-.0001	-.0019
Stddev	.0032	.0046	.03	.0008	.069	.0002	.0016	.0001	.0002
%RSD	178.6	1387.	.2109	30.63	.8889	1.818	91.88	171.5	7.846
#1	.0018	-.0034	13.30	-.0017	7.731	-.0104	.0001	-.0002	-.0018
#2	-.0044	.0054	13.25	-.0031	7.855	-.0102	.0018	.0000	-.0021
#3	-.0028	-.0010	13.30	-.0029	7.848	-.0106	.0034	.0000	-.0019

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	959.76	2136.3	16708.	7784.1
Stddev	1.74	5.4	34.	13.9
%RSD	.18087	.25476	.20051	.17857
#1	958.46	2134.2	16677.	7768.7
#2	961.74	2142.5	16743.	7795.7
#3	959.10	2132.3	16704.	7787.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 10:49:56 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	40.03	2.034	2.064	2.061	40.84	2.058	2.044	2.049	2.058
Stddev	.0002	.10	.009	.016	.006	.10	.002	.003	.007	.004
%RSD	.0718	.2382	.4586	.7746	.2944	.2481	.0840	.1253	.3461	.1975
#1	.2519	40.13	2.039	2.082	2.068	40.94	2.058	2.043	2.045	2.054
#2	.2517	39.94	2.023	2.055	2.057	40.74	2.057	2.043	2.057	2.062
#3	.2515	40.01	2.040	2.055	2.058	40.85	2.060	2.047	2.045	2.058
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.73	40.98	40.33	2.050	2.038	40.13	2.071	2.040	2.031	2.028
Stddev	.18	.12	.10	.008	.003	.06	.004	.004	.003	.004
%RSD	.4501	.2852	.2421	.3968	.1545	.1412	.1813	.1731	.1304	.1866
#1	39.92	41.12	40.45	2.049	2.039	40.19	2.071	2.037	2.034	2.028
#2	39.56	40.89	40.26	2.058	2.034	40.07	2.067	2.044	2.029	2.031
#3	39.71	40.94	40.30	2.042	2.040	40.12	2.075	2.039	2.031	2.024
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.074	2.104	2.086	2.060	2.067	2.141	2.067
Stddev	.006	.005	.010	.006	.004	.004	.002
%RSD	.2820	.2356	.4579	.2856	.1822	.1816	.1164
#1	2.077	2.103	2.097	2.056	2.068	2.138	2.069
#2	2.067	2.100	2.081	2.067	2.063	2.145	2.065
#3	2.078	2.109	2.081	2.057	2.071	2.141	2.068
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 10:49:56 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1160.5	2491.8	19656.	8500.3
Stddev	1.2	5.8	56.	38.2
%RSD	.10146	.23433	.28423	.44892
#1	1161.8	2490.4	19632.	8472.8
#2	1160.3	2498.1	19616.	8543.8
#3	1159.5	2486.7	19720.	8484.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:54:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0072	.0000	.0005	.0005	.0154	.0004	.0004	.0005	.0007
Stddev	.0003	.0041	.0004	.0000	.0000	.0030	.0001	.0001	.0003	.0002
%RSD	180.0	56.50	1495.	6.724	5.372	19.39	23.23	31.81	60.66	23.18
#1	-.0003	.0070	.0004	.0004	.0005	.0167	.0004	.0005	.0009	.0008
#2	-.0003	.0033	-.0005	.0005	.0005	.0175	.0005	.0004	.0004	.0007
#3	.0002	.0114	.0001	.0005	.0005	.0120	.0003	.0003	.0003	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224	.1017	.0114	.0005	.0009	.1235	.0006	.0006	.0000	.0016
Stddev	.0020	.0132	.0058	.0000	.0003	.0059	.0002	.0006	.0007	.0022
%RSD	8.951	13.00	50.95	6.438	29.81	4.771	29.74	103.5	8668.	132.2
#1	.0247	.1152	.0174	.0005	.0012	.1207	.0005	-.0001	-.0006	-.0008
#2	.0215	.0888	.0109	.0005	.0007	.1302	.0007	.0011	-.0002	.0026
#3	.0210	.1009	.0058	.0006	.0008	.1194	.0004	.0008	.0008	.0031
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0007	.0005	.0014	.0014	.0005	.0007
Stddev	.0005	.0003	.0000	.0001	.0009	.0002	.0001
%RSD	36.03	46.99	6.040	6.342	63.16	41.22	17.08
#1	.0017	.0010	.0005	.0015	.0013	.0007	.0006
#2	.0014	.0005	.0005	.0014	.0006	.0005	.0009
#3	.0008	.0005	.0005	.0013	.0023	.0003	.0007
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 10:54:02 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1415.7	2636.5	20485.	8551.0
Stddev	3.5	5.5	100.	61.2
%RSD	.24517	.20825	.48958	.71570
#1	1411.7	2633.5	20591.	8575.7
#2	1416.8	2642.8	20473.	8596.0
#3	1418.4	2633.1	20391.	8481.3

Zoom In Zoom Out

Sample Name: F95238-2 Acquired: 7/27/2012 10:58:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0622	-.0013	.2414	-.0003	688.5	-.0018	.0045	.0002
Stddev	.0008	.0169	.0022	.0008	.0000	5.6	.0001	.0005	.0005
%RSD	264.0	27.18	177.1	.3393	7.313	.8072	5.132	10.31	281.7
#1	.0002	.0756	.0012	.2420	-.0003	683.9	-.0018	.0044	-.0003
#2	-.0004	.0677	-.0031	.2417	-.0003	694.7	-.0019	.0050	.0001
#3	.0011	.0432	-.0019	.2405	-.0003	686.9	-.0017	.0041	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.9799	25.67	395.8	6.049	.0036	F922.8	.0012	.0001
Stddev	.0003	.0036	.08	1.9	.009	.0002	8.1	.0006	.0007
%RSD	35.65	.3643	.2982	.4787	.1464	5.632	.8743	47.02	609.9
#1	-.0008	.9840	25.65	394.5	6.045	.0038	924.1	.0019	.0000
#2	-.0004	.9785	25.76	398.0	6.043	.0034	930.2	.0009	.0009
#3	-.0009	.9772	25.61	395.1	6.059	.0037	914.2	.0009	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0019	.0020	12.95	-.0031	6.590	-.0045	.0006	.0005	-.0006
Stddev	.0022	.0081	.02	.0002	.058	.0003	.0006	.0009	.0003
%RSD	114.0	396.6	.1737	6.801	.8745	5.899	105.4	199.0	54.95
#1	.0006	-.0056	12.93	-.0034	6.653	-.0045	.0003	.0001	-.0006
#2	-.0031	.0105	12.97	-.0029	6.577	-.0048	.0012	-.0002	-.0002
#3	-.0034	.0012	12.95	-.0030	6.540	-.0042	.0001	.0015	-.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1003.6	2194.1	17120.	7891.0
Stddev	.6	3.2	32.	29.3
%RSD	.06337	.14772	.18411	.37158
#1	1004.3	2197.6	17143.	7885.8
#2	1003.0	2191.3	17132.	7864.7
#3	1003.4	2193.5	17084.	7922.6

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/27/2012 11:03:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0192	-.5005	-.0617	-.0059	-.0184	435.8	-.0180	-.0143
Stddev	.0405	.4752	.0688	.0053	.0028	1.4	.0022	.0170
%RSD	210.8	94.96	111.6	89.97	15.17	.3208	12.01	118.7
#1	.0246	-.0651	-.0489	.0000	-.0215	434.3	-.0191	.0032
#2	-.0271	-.4288	-.1360	-.0104	-.0161	435.9	-.0156	-.0154
#3	-.0552	-1.007	-.0001	-.0073	-.0176	437.1	-.0195	-.0308

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0523	.0045	-.3932	424.0	1329.	-.0165	-.0046	F10860.
Stddev	.0173	.0145	.0919	.6	3.	.0008	.0101	150.
%RSD	33.06	325.2	23.38	.1424	.2569	5.136	220.2	1.378
#1	-.0324	.0196	-.2873	423.7	1327.	-.0165	-.0012	10880.
#2	-.0619	-.0093	-.4529	423.6	1327.	-.0156	-.0159	11000.
#3	-.0627	.0031	-.4394	424.7	1333.	-.0173	.0034	10700.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0010	-.0165	-.0774	.0594	.3603	-.0376	7.967	.0181
Stddev	.0041	.0719	.0668	.0719	.0868	.0062	.030	.0115
%RSD	411.2	437.0	86.29	121.1	24.09	16.63	.3752	63.50
#1	.0044	-.0977	-.1367	.0806	.3763	-.0308	7.933	.0268
#2	.0022	.0089	-.0050	.1184	.2666	-.0387	7.990	.0051
#3	-.0036	.0394	-.0905	-.0207	.4380	-.0432	7.979	.0224

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0681	-.0063	.0236
Stddev	.0903	.0053	.0130
%RSD	132.7	84.57	54.97
#1	.1670	-.0083	.0247
#2	.0472	-.0102	.0102
#3	-.0100	-.0002	.0361

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/27/2012 11:03:21 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1225.1	2477.9	19132.	8223.7
Stddev	4.5	6.7	22.	10.8
%RSD	.36691	.27213	.11397	.13124
#1	1219.9	2471.0	19146.	8228.1
#2	1227.3	2478.1	19142.	8211.4
#3	1228.0	2484.5	19107.	8231.5

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/27/2012 11:07:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0314	-.0920	-.0518	-.0152	-.0147	434.5	-.0249	-.0145
Stddev	.0057	.8434	.0976	.0183	.0025	1.9	.0037	.0057
%RSD	18.05	916.6	188.4	120.1	17.33	.4485	14.84	39.22
#1	-.0282	-.4350	.0496	-.0275	-.0119	433.9	-.0288	-.0080
#2	-.0380	-.7099	-.1450	.0058	-.0153	432.8	-.0214	-.0186
#3	-.0280	.8689	-.0600	-.0239	-.0169	436.6	-.0246	-.0168

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	-.0405	.0043	-.4590	421.8	1335.	-.0212	-.0224	F11030.
Stddev	.0116	.0216	.1458	1.9	9.	.0039	.0166	138.
%RSD	28.79	500.7	31.77	.4404	.6885	18.45	74.06	1.250
#1	-.0327	-.0099	-.5201	420.4	1343.	-.0203	-.0394	10880.
#2	-.0539	.0292	-.5643	421.2	1325.	-.0179	-.0063	11150.
#3	-.0348	-.0063	-.2925	423.9	1337.	-.0256	-.0213	11070.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0168	.0521	-.1201	.0976	.3314	-.0600	7.991	.0133
Stddev	.0217	.0826	.1066	.0704	.1075	.0110	.005	.0084
%RSD	129.0	158.6	88.75	72.09	32.44	18.28	.0693	63.07
#1	-.0202	-.0427	-.2412	.0225	.2462	-.0699	7.988	.0159
#2	-.0366	.0899	-.0407	.1082	.4522	-.0482	7.988	.0039
#3	.0064	.1091	-.0783	.1621	.2959	-.0620	7.998	.0201

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0172	-.0141	-.0011
Stddev	.0604	.0311	.0008
%RSD	350.9	219.8	73.35
#1	-.0694	-.0374	-.0002
#2	-.0312	.0212	-.0015
#3	.0490	-.0262	-.0016

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/27/2012 11:07:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1228.6	2476.9	19252.	8252.0
Stddev	3.0	5.8	28.	21.7
%RSD	.24104	.23314	.14544	.26291
#1	1230.0	2470.3	19282.	8248.6
#2	1225.2	2479.3	19248.	8275.2
#3	1230.6	2481.0	19226.	8232.3

Zoom In Zoom Out

Sample Name: F95192-1 Acquired: 7/27/2012 11:12:27 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	71.60	.0060	.2344	.0034	766.3	-.0018	.0064	.0984	.0247
Stddev	.0012	.08	.0009	.0007	.0000	5.0	.0001	.0002	.0004	.0003
%RSD	148.1	.1076	15.77	.2825	1.424	.6488	4.040	3.611	.4210	1.265
#1	.0002	71.69	.0070	.2344	.0035	760.8	-.0018	.0065	.0981	.0250
#2	-.0005	71.59	.0059	.2351	.0034	770.4	-.0018	.0062	.0982	.0247
#3	-.0021	71.54	.0051	.2338	.0034	767.7	-.0019	.0066	.0989	.0244

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	35.81	3.028	6.979	.0968	.0038	7.550	.0251	.0565	-.0004	.0071
Stddev	.07	.028	.034	.0002	.0002	.033	.0003	.0014	.0029	.0038
%RSD	.2089	.9112	.4811	.2407	4.117	.4414	1.154	2.451	762.8	53.30
#1	35.73	3.051	6.940	.0969	.0039	7.579	.0250	.0549	-.0021	.0038
#2	35.87	3.035	6.994	.0965	.0037	7.558	.0254	.0573	.0030	.0113
#3	35.84	2.997	7.002	.0969	.0037	7.513	.0249	.0573	-.0020	.0063

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	50.93	.0115	3.403	.3705	-.0024	.1882	.0220
Stddev	.10	.0009	.008	.0007	.0034	.0018	.0007
%RSD	.2034	7.597	.2373	.1951	142.3	.9457	3.140
#1	51.05	.0124	3.407	.3713	-.0024	.1903	.0213
#2	50.85	.0114	3.409	.3705	-.0057	.1872	.0227
#3	50.90	.0107	3.394	.3698	.0010	.1872	.0221

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1094.7	2517.2	19553.	8546.9
Stddev	6.2	15.9	111.	34.9
%RSD	.56726	.63244	.57011	.40879
#1	1087.6	2499.2	19438.	8539.3
#2	1098.1	2523.2	19560.	8516.4
#3	1098.5	2529.3	19661.	8585.0

Zoom In Zoom Out

Sample Name: MP23299-D1 Acquired: 7/27/2012 11:16:59 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	69.29	.0045	.2194	.0033	517.5	-.0012	.0050	.0954	.0237
Stddev	.0007	.14	.0015	.0017	.0001	2.5	.0002	.0004	.0003	.0002
%RSD	71.38	.1999	33.27	.7956	3.455	.4829	13.17	7.684	.3028	1.044
#1	-.0012	69.44	.0060	.2213	.0033	516.8	-.0010	.0046	.0957	.0240
#2	-.0002	69.18	.0043	.2178	.0034	520.3	-.0013	.0054	.0951	.0236
#3	-.0016	69.24	.0031	.2193	.0032	515.4	-.0011	.0050	.0955	.0235

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	32.92	2.968	6.796	.0792	.0041	4.705	.0245	.0561	-.0010	.0088
Stddev	.05	.043	.011	.0003	.0002	.000	.0004	.0024	.0010	.0019
%RSD	.1373	1.450	.1576	.4175	4.620	.0079	1.493	4.239	104.3	21.02
#1	32.95	2.991	6.803	.0789	.0041	4.705	.0242	.0559	.0001	.0087
#2	32.87	2.994	6.783	.0796	.0038	4.704	.0249	.0585	-.0019	.0071
#3	32.94	2.918	6.800	.0791	.0042	4.705	.0245	.0538	-.0011	.0108

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	51.66	.0123	2.330	.3402	-.0013	.2069	.0188
Stddev	.15	.0002	.006	.0017	.0006	.0008	.0001
%RSD	.2819	1.916	.2529	.4868	45.08	.3838	.5521
#1	51.83	.0121	2.337	.3398	-.0013	.2063	.0187
#2	51.59	.0126	2.328	.3388	-.0018	.2066	.0189
#3	51.57	.0123	2.326	.3421	-.0007	.2078	.0189

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1150.9	2578.1	20068.	8734.6
Stddev	3.0	11.1	15.	40.5
%RSD	.26251	.42922	.07324	.46363
#1	1147.5	2565.4	20053.	8690.8
#2	1153.3	2583.4	20083.	8742.1
#3	1152.0	2585.6	20070.	8770.8

Zoom In Zoom Out

Sample Name: MP23299-S1 Acquired: 7/27/2012 11:21:30 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0464	92.34	1.902	2.254	.0551	387.7	.0478	.4961	.2833	.2801
Stddev	.0001	.08	.008	.007	.0001	2.4	.0002	.0004	.0008	.0011
%RSD	.1227	.0827	.4166	.3213	.1455	.6178	.5011	.0878	.2720	.4064
#1	.0465	92.43	1.909	2.262	.0551	385.0	.0481	.4958	.2839	.2807
#2	.0464	92.33	1.904	2.252	.0552	388.8	.0476	.4966	.2835	.2787
#3	.0464	92.28	1.893	2.248	.0550	389.4	.0477	.4959	.2824	.2807

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.21	27.63	29.42	.5737	.4728	28.54	.5232	.5407	.2767	1.926
Stddev	.06	.05	.02	.0007	.0016	.07	.0009	.0024	.0021	.012
%RSD	.1057	.1672	.0691	.1291	.3279	.2353	.1656	.4518	.7689	.6063
#1	52.17	27.65	29.41	.5738	.4738	28.62	.5242	.5396	.2777	1.933
#2	52.20	27.66	29.45	.5729	.4736	28.51	.5228	.5390	.2742	1.933
#3	52.28	27.57	29.42	.5744	.4710	28.50	.5226	.5435	.2781	1.913

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	44.34	.4730	2.245	.5641	2.005	.6677	.5083
Stddev	.16	.0021	.004	.0027	.003	.0015	.0009
%RSD	.3560	.4538	.1983	.4804	.1557	.2297	.1688
#1	44.48	.4738	2.251	.5669	2.002	.6695	.5081
#2	44.37	.4705	2.243	.5615	2.007	.6670	.5075
#3	44.17	.4746	2.243	.5638	2.007	.6666	.5092

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1133.3	2547.1	19844.	8569.2
Stddev	3.6	11.0	28.	5.4
%RSD	.31787	.43240	.14201	.06347
#1	1129.2	2539.9	19824.	8564.7
#2	1134.7	2541.7	19833.	8567.6
#3	1136.0	2559.8	19877.	8575.3

Zoom In Zoom Out

Sample Name: MP23299-S2 Acquired: 7/27/2012 11:25:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0474	101.4	1.906	2.338	.0555	662.2	.0467	.4880	.2913	.2819
Stddev	.0004	.2	.016	.008	.0002	2.5	.0001	.0006	.0003	.0003
%RSD	.7944	.1973	.8178	.3408	.3697	.3825	.2075	.1253	.0958	.0921
#1	.0474	101.6	1.908	2.347	.0555	659.3	.0466	.4884	.2910	.2817
#2	.0470	101.4	1.890	2.335	.0557	663.4	.0468	.4873	.2916	.2820
#3	.0477	101.2	1.921	2.332	.0553	664.0	.0467	.4883	.2913	.2822

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	56.93	28.24	30.65	.6071	.4643	30.89	.5162	.5422	.2717	1.940
Stddev	.13	.14	.20	.0012	.0016	.10	.0009	.0025	.0018	.008
%RSD	.2358	.4987	.6610	.1910	.3513	.3198	.1668	.4595	.6483	.3943
#1	56.79	28.21	30.47	.6064	.4640	31.00	.5164	.5406	.2708	1.932
#2	56.95	28.40	30.62	.6084	.4629	30.85	.5153	.5408	.2705	1.941
#3	57.06	28.12	30.87	.6065	.4661	30.82	.5170	.5450	.2737	1.947

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.57	.4604	3.268	.5910	1.991	.6827	.5019
Stddev	.17	.0009	.008	.0020	.012	.0007	.0012
%RSD	.3603	.2038	.2411	.3309	.6131	.0980	.2433
#1	47.68	.4593	3.277	.5890	1.987	.6833	.5005
#2	47.37	.4608	3.263	.5929	1.981	.6827	.5025
#3	47.65	.4610	3.263	.5912	2.005	.6820	.5027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1094.3	2510.5	19385.	8363.0
Stddev	5.8	9.2	49.	13.5
%RSD	.52850	.36705	.25429	.16126
#1	1091.5	2501.4	19424.	8362.8
#2	1100.9	2519.8	19329.	8376.6
#3	1090.4	2510.5	19401.	8349.6

Zoom In Zoom Out

Sample Name: MP23299-PS1 Acquired: 7/27/2012 11:30:13 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0469	71.66	.1058	.4815	.0560	753.7	.0473	.0546	.1448	.1293
Stddev	.0007	.18	.0008	.0011	.0003	2.5	.0001	.0002	.0007	.0011
%RSD	1.428	.2452	.7397	.2303	.4807	.3382	.2819	.4417	.5001	.8512
#1	.0466	71.82	.1056	.4825	.0562	756.6	.0472	.0548	.1457	.1286
#2	.0476	71.69	.1051	.4803	.0560	752.5	.0473	.0544	.1444	.1305
#3	.0464	71.47	.1066	.4815	.0557	751.9	.0475	.0548	.1443	.1286

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.76	13.21	11.66	.1449	.1009	17.54	.1205	.1067	.0964	.1062
Stddev	.12	.07	.04	.0003	.0002	.01	.0006	.0016	.0026	.0066
%RSD	.3052	.5362	.3299	.1764	.1753	.0812	.5291	1.513	2.749	6.226
#1	37.87	13.29	11.70	.1446	.1008	17.55	.1212	.1056	.0991	.1132
#2	37.76	13.15	11.65	.1451	.1011	17.53	.1199	.1058	.0938	.1053
#3	37.64	13.20	11.62	.1451	.1008	17.54	.1203	.1085	.0963	.1000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	49.00	.0561	3.343	.4603	.0992	.2351	.2936
Stddev	.07	.0008	.005	.0007	.0015	.0022	.0008
%RSD	.1387	1.367	.1568	.1540	1.539	.9155	.2737
#1	49.07	.0565	3.349	.4609	.0999	.2373	.2929
#2	48.99	.0566	3.340	.4595	.1002	.2350	.2935
#3	48.94	.0552	3.340	.4604	.0974	.2331	.2945

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1102.0	2538.4	19676.	8534.4
Stddev	2.9	4.3	44.	64.6
%RSD	.26671	.17004	.22455	.75644
#1	1100.4	2533.4	19706.	8460.8
#2	1105.4	2540.7	19625.	8561.2
#3	1100.3	2541.0	19697.	8581.3

Zoom In Zoom Out

Sample Name: MP23299-SD1 Acquired: 7/27/2012 11:34:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0027	78.24	.0005	.2556	.0025	888.3	-.0035	.0056	.1115	.0234
Stddev	.0036	.42	.0047	.0021	.0001	2.8	.0007	.0010	.0010	.0004
%RSD	135.6	.5325	982.9	.8062	3.477	.3194	19.41	17.02	.9070	1.879
#1	.0060	77.80	-.0028	.2550	.0025	885.6	-.0027	.0056	.1126	.0229
#2	-.0012	78.62	-.0017	.2579	.0024	891.3	-.0038	.0047	.1111	.0238
#3	.0032	78.29	.0058	.2539	.0026	888.1	-.0039	.0066	.1107	.0234

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.89	3.136	8.046	.1086	.0035	7.853	.0275	.0668	-.0155	.0279
Stddev	.26	.092	.068	.0016	.0013	.064	.0014	.0065	.0095	.0054
%RSD	.6235	2.929	.8418	1.436	35.92	.8115	5.039	9.757	61.39	19.39
#1	40.61	3.062	7.980	.1088	.0021	7.878	.0261	.0595	-.0080	.0275
#2	41.10	3.239	8.116	.1070	.0046	7.900	.0289	.0690	-.0262	.0334
#3	40.98	3.108	8.044	.1101	.0037	7.780	.0275	.0720	-.0124	.0226

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	55.88	.0068	3.727	.4166	.0095	.2099	.0241
Stddev	.14	.0016	.007	.0016	.0072	.0035	.0007
%RSD	.2580	23.95	.1790	.3784	75.68	1.661	3.056
#1	55.72	.0059	3.722	.4148	.0140	.2062	.0250
#2	56.00	.0086	3.735	.4173	.0012	.2132	.0239
#3	55.91	.0057	3.725	.4177	.0134	.2102	.0235

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1279.9	2596.9	20145.	8386.8
Stddev	.8	4.1	33.	35.5
%RSD	.06282	.15837	.16233	.42279
#1	1280.7	2599.7	20119.	8396.0
#2	1279.9	2592.2	20182.	8347.7
#3	1279.1	2598.8	20134.	8416.8

Zoom In Zoom Out

Sample Name: F95194-1 Acquired: 7/27/2012 11:39:06 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	205.0	.0235	1.503	.0084	36.07	.0059	.0071	.3236	.8634
Stddev	.0014	.3	.0049	.006	.0002	.12	.0002	.0002	.0011	.0031
%RSD	199.6	.1589	20.90	.4173	2.675	.3197	3.031	2.689	.3412	.3575
#1	.0008	204.8	.0229	1.510	.0083	35.94	.0061	.0069	.3228	.8660
#2	-.0008	205.3	.0287	1.503	.0087	36.10	.0059	.0071	.3248	.8600
#3	-.0021	204.8	.0189	1.497	.0082	36.16	.0057	.0073	.3231	.8641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	111.5	4.154	6.770	2.278	.0040	3.364	.0926	.1722	-.0085	.0137
Stddev	.1	.044	.096	.003	.0008	.008	.0008	.0029	.0029	.0088
%RSD	.0477	1.059	1.422	.1425	19.04	.2288	.9097	1.657	33.56	63.95
#1	111.5	4.126	6.661	2.280	.0033	3.365	.0936	.1727	-.0098	.0116
#2	111.4	4.131	6.806	2.279	.0038	3.356	.0924	.1748	-.0105	.0234
#3	111.5	4.204	6.844	2.274	.0048	3.371	.0919	.1691	-.0052	.0062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	34.60	.0177	2.874	1.343	.0008	.1025	.5634
Stddev	.07	.0027	.002	.005	.0019	.0006	.0006
%RSD	.1943	15.08	.0694	.3957	251.6	.5942	.1110
#1	34.66	.0208	2.875	1.348	.0000	.1020	.5639
#2	34.62	.0160	2.872	1.344	.0029	.1032	.5627
#3	34.53	.0163	2.875	1.337	-.0007	.1023	.5636

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1307.6	2928.3	22828.	9479.2
Stddev	.5	5.4	70.	13.1
%RSD	.03719	.18496	.30784	.13848
#1	1307.4	2922.5	22770.	9469.0
#2	1308.1	2929.4	22806.	9474.6
#3	1307.2	2933.1	22906.	9494.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 11:43:27 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2553	40.88	2.052	2.081	2.090	41.50	2.082	2.074	2.089	2.061
Stddev	.0011	.05	.003	.000	.002	.04	.001	.001	.016	.009
%RSD	.4480	.1182	.1570	.0147	.0723	.1055	.0403	.0692	.7489	.4256
#1	.2566	40.87	2.056	2.081	2.092	41.53	2.082	2.075	2.098	2.057
#2	.2543	40.83	2.050	2.081	2.089	41.45	2.082	2.075	2.071	2.071
#3	.2551	40.93	2.050	2.082	2.090	41.52	2.081	2.072	2.099	2.054
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.51	41.26	41.05	2.095	2.075	41.17	2.086	2.049	2.047	2.053
Stddev	.06	.06	.09	.012	.001	.04	.001	.004	.004	.003
%RSD	.1418	.1500	.2083	.5497	.0441	.0996	.0480	.2034	.2029	.1197
#1	40.57	41.31	41.08	2.106	2.075	41.21	2.087	2.047	2.048	2.050
#2	40.51	41.19	41.12	2.083	2.076	41.17	2.086	2.054	2.051	2.055
#3	40.45	41.27	40.96	2.096	2.074	41.12	2.085	2.047	2.043	2.054
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.111	2.098	2.088	2.075	2.157	2.087
Stddev	.003	.000	.001	.005	.003	.004	.003
%RSD	.1242	.0196	.0537	.2643	.1373	.1673	.1226
#1	2.091	2.110	2.099	2.094	2.079	2.160	2.086
#2	2.086	2.111	2.097	2.083	2.075	2.153	2.089
#3	2.087	2.111	2.098	2.087	2.073	2.158	2.084
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 11:43:27 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1159.5	2483.2	19589.	8319.9
Stddev	.5	2.1	49.	24.2
%RSD	.04669	.08320	.24800	.29034
#1	1160.1	2481.8	19535.	8304.2
#2	1159.2	2485.6	19603.	8307.7
#3	1159.2	2482.3	19629.	8347.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 11:47:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0076	-.0019	-.0003	-.0001	-.0016	-.0001	-.0003	.0001	-.0001
Stddev	.0001	.0048	.0009	.0000	.0000	.0019	.0001	.0001	.0004	.0001
%RSD	190.0	63.87	47.55	6.233	16.52	116.6	53.54	25.12	250.6	44.62
#1	-.0001	-.0036	-.0013	-.0003	-.0001	-.0016	-.0001	-.0002	.0003	-.0001
#2	-.0002	-.0129	-.0015	-.0003	-.0001	-.0034	-.0001	-.0003	-.0003	-.0002
#3	.0001	-.0062	-.0030	-.0003	-.0001	.0003	-.0002	-.0003	.0004	-.0002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0139	-.0040	-.0001	.0004	.0228	.0001	-.0004	-.0001	.0008
Stddev	.0016	.0111	.0063	.0000	.0002	.0045	.0001	.0001	.0005	.0012
%RSD	22.10	80.15	158.5	20.42	41.69	19.85	61.94	26.08	716.9	144.7
#1	.0091	.0254	-.0094	-.0001	.0004	.0179	.0003	-.0003	.0004	.0009
#2	.0074	.0129	.0030	-.0001	.0006	.0267	.0001	-.0005	-.0001	-.0004
#3	.0058	.0033	-.0056	-.0002	.0002	.0237	.0001	-.0004	-.0006	.0019
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0000	-.0001	.0005	.0019	.0001	.0000
Stddev	.0005	.001	.0000	.0002	.0010	.0001	.0001
%RSD	21.28	21780.	17.46	31.20	53.50	185.2	794.0
#1	.0024	.0007	-.0001	.0007	.0009	-.0001	-.0001
#2	.0030	-.0004	-.0001	.0005	.0030	.0001	.0001
#3	.0019	-.0003	-.0001	.0004	.0019	.0002	.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 11:47:34 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1415.1	2608.3	20613.	8425.3
Stddev	3.4	5.8	4.	11.5
%RSD	.23993	.22138	.01897	.13640
#1	1415.0	2612.2	20610.	8412.7
#2	1411.7	2601.7	20618.	8435.1
#3	1418.5	2611.1	20612.	8428.2

Zoom In Zoom Out

Sample Name: MP23312-MB1 Acquired: 7/27/2012 11:52:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0066	-.0017	-.0003	-.0002	-.0022	-.0002	-.0002	-.0001	-.0011
Stddev	.0002	.0022	.0014	.0000	.0000	.0034	.0000	.0001	.0002	.0002
%RSD	40.81	33.37	85.11	6.775	18.46	149.4	17.36	50.58	179.5	18.58
#1	-.0005	-.0080	-.0034	-.0003	-.0002	-.0058	-.0002	-.0001	-.0001	-.0011
#2	-.0002	-.0041	-.0008	-.0003	-.0002	-.0017	-.0002	-.0003	.0001	-.0009
#3	-.0005	-.0079	-.0010	-.0003	-.0001	.0008	-.0002	-.0002	-.0004	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	.0056	-.0039	-.0001	.0000	.0198	.0002	.0000	-.0009	.0008
Stddev	.0007	.0158	.0033	.0001	.0002	.0071	.0000	.001	.0007	.0023
%RSD	26.67	280.8	84.25	42.09	9115.	35.54	18.68	3634.	75.21	269.3
#1	-.0029	.0162	-.0075	-.0002	-.0003	.0160	.0003	-.0010	-.0014	-.0018
#2	-.0032	.0133	-.0009	-.0001	.0002	.0280	.0002	-.0004	-.0001	.0019
#3	-.0018	-.0126	-.0034	-.0001	.0001	.0155	.0002	.0013	-.0011	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	-.0014	-.0002	.0000	.0006	-.0001	.0001
Stddev	.0008	.0003	.0000	.000	.0008	.0003	.0001
%RSD	11.19	21.50	10.38	1032.	130.7	289.8	83.39
#1	.0077	-.0015	-.0002	.0000	-.0002	.0001	.0001
#2	.0064	-.0016	-.0002	.0000	.0006	.0000	.0003
#3	.0065	-.0010	-.0002	.0000	.0013	-.0004	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23312-MB1 Acquired: 7/27/2012 11:52:03 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1408.6	2596.4	20641.	8523.6
Stddev	2.5	10.0	81.	44.8
%RSD	.17867	.38342	.39024	.52601
#1	1406.3	2585.3	20673.	8547.1
#2	1411.3	2599.5	20550.	8471.9
#3	1408.2	2604.4	20702.	8551.9

Zoom In Zoom Out

Sample Name: MP23312-B1 Acquired: 7/27/2012 11:56:32 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499	28.46	2.017	2.141	.0535	26.65	.0525	.5298	.2115	.2640
Stddev	.0004	.07	.002	.003	.0001	.05	.0002	.0009	.0013	.0002
%RSD	.8271	.2504	.0866	.1440	.1844	.1845	.2913	.1714	.6365	.0786
#1	.0503	28.41	2.017	2.141	.0534	26.60	.0527	.5306	.2130	.2637
#2	.0495	28.54	2.015	2.144	.0535	26.70	.0524	.5299	.2108	.2640
#3	.0499	28.43	2.019	2.138	.0536	26.65	.0525	.5288	.2105	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.84	26.71	25.76	.5276	.5429	26.68	.5421	.4937	.5148	2.043
Stddev	.06	.11	.13	.0010	.0010	.08	.0015	.0024	.0035	.005
%RSD	.2327	.4169	.4854	.1937	.1863	.3141	.2735	.4769	.6719	.2279
#1	27.77	26.68	25.62	.5276	.5438	26.69	.5438	.4921	.5174	2.048
#2	27.87	26.83	25.79	.5266	.5431	26.76	.5410	.4964	.5162	2.038
#3	27.88	26.61	25.87	.5287	.5418	26.60	.5416	.4926	.5109	2.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.5473	.5430	.5379	2.051	.5335	.5288
Stddev	.0008	.0020	.0017	.0008	.003	.0007	.0015
%RSD	8.004	.3710	.3120	.1447	.1602	.1242	.2901
#1	.0111	.5495	.5422	.5382	2.051	.5330	.5289
#2	.0103	.5469	.5449	.5370	2.048	.5333	.5302
#3	.0095	.5454	.5419	.5384	2.055	.5343	.5272
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23312-B1 Acquired: 7/27/2012 11:56:32 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1225.8	2511.2	19982.	8523.5
Stddev	1.0	8.5	55.	3.2
%RSD	.08518	.33904	.27348	.03779
#1	1225.3	2501.4	19920.	8522.3
#2	1227.0	2516.4	20024.	8527.2
#3	1225.1	2515.8	20002.	8521.1

Zoom In
Zoom Out

Sample Name: F95294-1 Acquired: 7/27/2012 12:00:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0553	.0082	.0377	-.0001	110.8	-.0004	.0016	.0010	-.0005
Stddev	.0007	.0118	.0002	.0001	.0000	.4	.0001	.0001	.0002	.0002
%RSD	150.7	21.26	2.582	.2208	32.62	.3419	15.99	9.407	18.34	44.55
#1	-.0009	.0417	.0081	.0377	-.0002	111.1	-.0004	.0014	.0012	-.0007
#2	-.0009	.0617	.0085	.0376	-.0001	110.9	-.0003	.0016	.0008	-.0003
#3	.0003	.0624	.0081	.0377	-.0001	110.4	-.0003	.0017	.0011	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.076	28.64	22.51	.1197	.0628	43.91	.0151	.0000	.0010	.0055
Stddev	.006	.03	.12	.0002	.0001	.10	.0001	.0009	.0006	.0027
%RSD	.2954	.1142	.5237	.1883	.1778	.2388	.5983	8202.	64.87	49.58
#1	2.081	28.60	22.56	.1198	.0629	43.82	.0150	.0005	.0003	.0083
#2	2.069	28.67	22.60	.1194	.0626	43.89	.0152	.0005	.0010	.0054
#3	2.076	28.64	22.38	.1198	.0628	44.03	.0151	-.0010	.0016	.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.074	-.0017	.6648	.0028	.0005	.0038	.0052
Stddev	.010	.0005	.0011	.0002	.0009	.0004	.0000
%RSD	.2537	32.02	.1584	7.968	206.9	9.975	.9384
#1	4.085	-.0016	.6639	.0030	-.0002	.0043	.0052
#2	4.065	-.0023	.6646	.0026	.0001	.0037	.0051
#3	4.072	-.0012	.6660	.0027	.0015	.0036	.0052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1193.2	2405.1	19163.	8310.8
Stddev	4.4	5.5	15.	30.2
%RSD	.36744	.22972	.08017	.36304
#1	1197.1	2401.2	19180.	8276.3
#2	1194.0	2411.4	19160.	8324.1
#3	1188.4	2402.6	19150.	8332.1

Zoom In
Zoom Out

Sample Name: MP23312-D1 Acquired: 7/27/2012 12:05:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0624	.0098	.0386	-.0002	112.9	-.0004	.0018	.0011	-.0002
Stddev	.0002	.0044	.0002	.0002	.0000	.1	.0000	.0000	.0006	.0002
%RSD	125.9	6.980	2.413	.5472	30.39	.1166	9.498	2.552	52.67	129.3
#1	-.0003	.0577	.0100	.0386	-.0002	113.0	-.0004	.0018	.0004	-.0002
#2	.0001	.0663	.0095	.0384	-.0001	112.7	-.0004	.0018	.0013	.0001
#3	-.0004	.0632	.0098	.0388	-.0002	113.0	-.0004	.0018	.0015	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.116	29.22	23.00	.1232	.0646	44.69	.0152	.0003	.0005	.0066
Stddev	.011	.05	.05	.0006	.0003	.05	.0002	.0006	.0013	.0001
%RSD	.5240	.1779	.1988	.5140	.4367	.1010	1.121	255.7	264.5	1.948
#1	2.113	29.28	22.98	.1240	.0647	44.65	.0153	.0004	.0007	.0066
#2	2.106	29.18	22.96	.1230	.0643	44.73	.0152	-.0005	.0017	.0064
#3	2.128	29.19	23.05	.1228	.0648	44.68	.0150	.0008	-.0009	.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.150	-.0014	.6766	.0025	.0004	.0037	.0053
Stddev	.003	.0002	.0018	.0002	.0018	.0001	.0002
%RSD	.0643	10.50	.2637	6.220	416.5	2.164	2.896
#1	4.152	-.0015	.6769	.0024	.0024	.0038	.0052
#2	4.147	-.0013	.6747	.0024	-.0012	.0036	.0053
#3	4.150	-.0016	.6783	.0026	.0001	.0037	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1190.7	2397.3	19096.	8194.8
Stddev	1.7	7.9	84.	38.5
%RSD	.14653	.33107	.43996	.46983
#1	1188.9	2388.2	19016.	8160.6
#2	1191.0	2402.4	19089.	8236.5
#3	1192.4	2401.3	19183.	8187.2

Zoom In
Zoom Out

Sample Name: MP23312-SD1 Acquired: 7/27/2012 12:09:27 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	.0367	.0039	.0376	-.0007	112.8	-.0014	.0006	-.0003	-.0017
Stddev	.0014	.0254	.0058	.0003	.0001	.4	.0001	.0001	.0012	.0010
%RSD	145.5	69.03	148.8	.7984	13.64	.3465	6.384	22.61	389.8	62.23
#1	.0006	.0467	.0086	.0374	-.0006	112.9	-.0015	.0006	-.0015	-.0011
#2	-.0021	.0556	.0056	.0379	-.0008	112.4	-.0014	.0006	-.0001	-.0011
#3	-.0015	.0079	-.0026	.0374	-.0008	113.1	-.0013	.0008	.0008	-.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.126	29.02	23.11	.1227	.0640	43.70	.0160	.0035	-.0089	.0046
Stddev	.016	.06	.13	.0013	.0015	.10	.0014	.0053	.0064	.0097
%RSD	.7644	.2154	.5444	1.046	2.370	.2315	8.618	150.4	71.56	212.0
#1	2.107	29.03	23.09	.1221	.0649	43.58	.0163	-.0022	-.0103	.0080
#2	2.135	28.96	22.99	.1218	.0648	43.76	.0145	.0082	-.0019	-.0064
#3	2.136	29.08	23.24	.1242	.0622	43.76	.0173	.0045	-.0144	.0120

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.150	-.0040	.6764	.0053	-.0005	.0038	.0051
Stddev	.020	.0020	.0017	.0005	.0077	.0010	.0002
%RSD	.4688	50.26	.2494	8.919	1426.	26.77	4.412
#1	4.128	-.0048	.6754	.0054	.0023	.0046	.0050
#2	4.154	-.0017	.6755	.0056	-.0092	.0040	.0050
#3	4.166	-.0055	.6784	.0047	.0053	.0027	.0054

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1328.1	2537.3	20240.	8414.2
Stddev	1.8	7.5	43.	17.0
%RSD	.13382	.29458	.21131	.20226
#1	1330.1	2544.1	20231.	8410.3
#2	1326.6	2538.5	20287.	8432.9
#3	1327.7	2529.3	20203.	8399.6

Zoom In
Zoom Out

Sample Name: MP23312-PS1 Acquired: 7/27/2012 12:13:54 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0500	2.638	.1143	.2991	.0542	113.8	.0539	.0553	.0540	.1085
Stddev	.0003	.015	.0013	.0015	.0004	1.0	.0002	.0002	.0004	.0005
%RSD	.6272	.5796	1.134	.5087	.7253	.9222	.4491	.3153	.6852	.4179
#1	.0500	2.631	.1155	.3006	.0538	112.6	.0536	.0553	.0541	.1090
#2	.0497	2.655	.1129	.2992	.0546	114.7	.0540	.0552	.0543	.1081
#3	.0503	2.627	.1146	.2976	.0541	114.1	.0540	.0555	.0536	.1086

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.179	38.73	26.89	.1687	.1682	53.78	.1218	.0486	.1059	.1117
Stddev	.043	.05	.27	.0003	.0002	.13	.0003	.0001	.0006	.0024
%RSD	.8208	.1221	1.010	.1931	.1035	.2379	.2407	.1036	.5286	2.133
#1	5.133	38.78	26.60	.1691	.1682	53.93	.1222	.0486	.1054	.1128
#2	5.217	38.69	27.13	.1684	.1680	53.73	.1217	.0487	.1059	.1134
#3	5.188	38.72	26.94	.1686	.1683	53.69	.1216	.0486	.1065	.1090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.052	.0475	.7038	.1083	.1007	.0577	.3049
Stddev	.010	.0003	.0014	.0003	.0009	.0002	.0004
%RSD	.2374	.5959	.1980	.2979	.8663	.3728	.1195
#1	4.053	.0472	.7044	.1086	.1016	.0579	.3045
#2	4.043	.0477	.7048	.1080	.1007	.0576	.3051
#3	4.062	.0476	.7022	.1083	.0998	.0575	.3052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1177.0	2404.6	19249.	8393.5
Stddev	4.6	5.4	18.	75.0
%RSD	.39164	.22412	.09576	.89327
#1	1172.5	2400.3	19231.	8466.0
#2	1181.7	2410.7	19250.	8316.3
#3	1176.8	2402.9	19267.	8398.2

Zoom In
Zoom Out

Sample Name: MP23312-S1 Acquired: 7/27/2012 12:18:08 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0501	28.41	2.067	2.176	.0533	134.3	.0510	.5177	.2090	.2648
Stddev	.0002	.11	.007	.009	.0002	.5	.0002	.0025	.0008	.0009
%RSD	.3680	.3790	.3344	.4076	.3578	.3780	.3148	.4902	.3876	.3428
#1	.0500	28.29	2.063	2.168	.0531	133.8	.0510	.5203	.2088	.2645
#2	.0503	28.44	2.064	2.175	.0535	134.8	.0508	.5153	.2082	.2658
#3	.0500	28.50	2.075	2.186	.0534	134.4	.0511	.5176	.2098	.2641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.09	55.06	47.92	.6360	.5943	70.40	.5367	.4938	.5228	2.076
Stddev	.10	.14	.19	.0040	.0022	.12	.0018	.0024	.0012	.012
%RSD	.3557	.2473	.3917	.6240	.3657	.1768	.3267	.4826	.2270	.5897
#1	28.97	54.95	47.72	.6406	.5942	70.33	.5360	.4965	.5241	2.078
#2	29.12	55.02	47.96	.6341	.5922	70.33	.5354	.4925	.5226	2.063
#3	29.17	55.21	48.09	.6334	.5966	70.55	.5387	.4923	.5218	2.087

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.086	.5219	1.198	.5308	2.001	.5321	.5186
Stddev	.009	.0014	.003	.0010	.004	.0020	.0004
%RSD	.2273	.2777	.2051	.1795	.2003	.3678	.0803
#1	4.091	.5216	1.196	.5316	1.997	.5338	.5181
#2	4.076	.5207	1.198	.5309	2.005	.5327	.5190
#3	4.093	.5235	1.201	.5298	2.001	.5300	.5186

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1123.2	2404.1	19201.	8295.8
Stddev	4.3	7.7	60.	33.7
%RSD	.38164	.31822	.31137	.40677
#1	1120.2	2399.0	19145.	8331.2
#2	1128.1	2412.9	19194.	8292.3
#3	1121.2	2400.3	19264.	8264.0

Zoom In
Zoom Out

Sample Name: MP23312-S2 Acquired: 7/27/2012 12:22:25 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0508	28.93	2.101	2.236	.0546	134.0	.0519	.5278	.2132	.2686
Stddev	.0008	.08	.004	.002	.0003	1.2	.0001	.0008	.0002	.0009
%RSD	1.564	.2667	.1784	.0795	.5005	.9010	.1987	.1523	.0766	.3353
#1	.0510	28.92	2.102	2.235	.0544	132.7	.0520	.5275	.2133	.2694
#2	.0515	28.85	2.105	2.238	.0545	135.2	.0518	.5273	.2130	.2676
#3	.0500	29.01	2.097	2.235	.0550	134.0	.0519	.5287	.2131	.2688

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.55	55.13	48.20	.6482	.6090	70.39	.5455	.5007	.5328	2.124
Stddev	.06	.12	.16	.0019	.0011	.15	.0001	.0029	.0020	.006
%RSD	.1928	.2149	.3311	.2929	.1837	.2107	.0177	.5810	.3788	.2854
#1	29.49	55.17	48.06	.6485	.6094	70.40	.5455	.5032	.5317	2.125
#2	29.60	55.00	48.37	.6462	.6077	70.24	.5456	.4975	.5351	2.130
#3	29.55	55.23	48.16	.6500	.6098	70.54	.5455	.5014	.5315	2.118

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.073	.5301	1.209	.5441	2.034	.5392	.5234
Stddev	.005	.0002	.001	.0018	.011	.0014	.0006
%RSD	.1148	.0320	.0872	.3295	.5490	.2608	.1116
#1	4.068	.5302	1.208	.5439	2.039	.5405	.5240
#2	4.077	.5299	1.208	.5424	2.021	.5377	.5229
#3	4.075	.5302	1.210	.5460	2.042	.5393	.5232

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1118.7	2389.4	19095.	8179.8
Stddev	2.6	4.9	42.	35.5
%RSD	.23321	.20501	.22194	.43369
#1	1116.0	2389.7	19064.	8194.2
#2	1121.2	2384.4	19143.	8139.4
#3	1118.9	2394.2	19078.	8205.8

Zoom In
Zoom Out

Sample Name: F95252-1 Acquired: 7/27/2012 12:26:41 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.2898	.0078	.0202	-.0002	73.64	-.0005	.0000	.0017	-.0007
Stddev	.0003	.0106	.0017	.0001	.0000	.22	.0000	.0001	.0004	.0001
%RSD	165.3	3.651	21.75	.5019	29.21	.3002	7.955	216.1	23.50	15.11
#1	-.0001	.2776	.0084	.0201	-.0002	73.41	-.0005	.0001	.0018	-.0006
#2	.0005	.2961	.0091	.0203	-.0002	73.64	-.0004	-.0001	.0020	-.0007
#3	.0001	.2957	.0059	.0203	-.0001	73.85	-.0005	.0001	.0012	-.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.970	4.482	5.956	.0788	.0053	28.05	.0041	.0004	-.0003	.0039
Stddev	.015	.003	.036	.0002	.0002	.06	.0001	.0008	.0009	.0029
%RSD	.1719	.0620	.6083	.2247	3.530	.2137	2.656	208.2	274.2	73.82
#1	8.953	4.482	5.917	.0785	.0054	28.06	.0040	-.0002	-.0002	.0006
#2	8.971	4.485	5.960	.0788	.0051	27.98	.0041	.0013	.0005	.0057
#3	8.984	4.480	5.989	.0789	.0054	28.09	.0042	.0001	-.0012	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.289	-.0018	.2242	.0100	-.0022	.0023	.0075
Stddev	.006	.0004	.0004	.0006	.0009	.0001	.0001
%RSD	.1467	22.65	.1862	5.742	43.17	3.357	.7608
#1	4.288	-.0019	.2246	.0107	-.0016	.0022	.0075
#2	4.283	-.0013	.2239	.0096	-.0033	.0023	.0074
#3	4.295	-.0020	.2239	.0099	-.0016	.0023	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1246.1	2459.1	19678.	8320.9
Stddev	1.3	.3	45.	4.2
%RSD	.10741	.01349	.23067	.05107
#1	1245.0	2459.2	19687.	8323.5
#2	1245.8	2459.5	19629.	8323.1
#3	1247.6	2458.8	19718.	8316.0

Zoom In Zoom Out

Sample Name: F95252-1F Acquired: 7/27/2012 12:31:06 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0275	.0086	.0189	-.0002	74.22	-.0004	-.0001	.0007	-.0011
Stddev	.0006	.0035	.0004	.0001	.0000	.51	.0000	.0001	.0001	.0001
%RSD	126.0	12.71	4.459	.3596	9.232	.6850	4.351	131.1	15.87	10.07
#1	-.0004	.0255	.0084	.0189	-.0002	73.75	-.0004	.0000	.0008	-.0010
#2	.0001	.0254	.0090	.0188	-.0002	74.15	-.0004	-.0002	.0008	-.0012
#3	-.0012	.0315	.0083	.0189	-.0002	74.76	-.0004	-.0001	.0006	-.0011

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.855	4.555	5.991	.0770	.0048	28.85	.0041	.0001	-.0013	.0017
Stddev	.030	.015	.027	.0002	.0002	.13	.0002	.0002	.0007	.0017
%RSD	.3359	.3277	.4568	.2518	4.822	.4340	4.169	350.9	55.26	100.5
#1	8.822	4.548	5.960	.0772	.0046	28.70	.0041	.0003	-.0021	.0033
#2	8.861	4.573	6.003	.0769	.0048	28.94	.0040	.0000	-.0011	.0018
#3	8.880	4.546	6.010	.0768	.0051	28.89	.0043	-.0001	-.0007	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.957	-.0015	.2215	.0009	-.0001	.0022	.0082
Stddev	.011	.0007	.0003	.0001	.0019	.0001	.0000
%RSD	.2870	49.89	.1464	14.07	3126.	6.580	.3725
#1	3.947	-.0015	.2212	.0010	.0000	.0021	.0082
#2	3.955	-.0007	.2215	.0010	.0018	.0024	.0082
#3	3.970	-.0022	.2218	.0008	-.0020	.0021	.0081

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1246.7	2460.4	19882.	8454.4
Stddev	.9	2.5	68.	30.5
%RSD	.06832	.10218	.34382	.36122
#1	1246.2	2457.5	19871.	8474.4
#2	1246.3	2461.7	19819.	8469.5
#3	1247.7	2462.1	19954.	8419.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 12:35:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595	41.19	2.089	2.072	2.098	41.68	2.115	2.116	2.087	2.058
Stddev	.0007	.14	.003	.009	.010	.18	.002	.002	.011	.005
%RSD	.2644	.3463	.1364	.4573	.4552	.4338	.0921	.1056	.5412	.2677
#1	.2600	41.09	2.088	2.069	2.092	41.55	2.114	2.115	2.092	2.062
#2	.2587	41.35	2.092	2.082	2.109	41.88	2.117	2.118	2.074	2.052
#3	.2598	41.12	2.086	2.064	2.094	41.60	2.114	2.114	2.095	2.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.67	41.55	40.89	2.069	2.112	41.55	2.117	2.056	2.084	2.094
Stddev	.17	.15	.18	.015	.004	.16	.003	.003	.003	.008
%RSD	.4093	.3673	.4468	.7254	.1839	.3908	.1372	.1586	.1480	.3860
#1	40.55	41.42	40.79	2.079	2.110	41.41	2.118	2.057	2.087	2.100
#2	40.86	41.72	41.10	2.052	2.117	41.73	2.120	2.059	2.082	2.085
#3	40.60	41.51	40.78	2.078	2.110	41.52	2.114	2.053	2.082	2.098
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.121	2.135	2.105	2.077	2.083	2.152	2.108
Stddev	.001	.004	.009	.010	.002	.004	.004
%RSD	.0251	.1778	.4224	.4998	.0963	.1900	.2110
#1	2.121	2.134	2.102	2.082	2.081	2.156	2.110
#2	2.120	2.139	2.115	2.065	2.085	2.148	2.111
#3	2.121	2.132	2.098	2.084	2.084	2.154	2.103
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 12:35:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1153.8	2444.4	19663.	8329.5
Stddev	.8	1.9	70.	37.8
%RSD	.07086	.07911	.35738	.45378
#1	1153.5	2442.1	19633.	8361.4
#2	1153.2	2445.3	19744.	8287.7
#3	1154.7	2445.6	19613.	8339.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 12:39:36 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0055	-.0004	-.0001	.0000	-.0024	-.0001	-.0002	.0000	-.0001
Stddev	.0005	.0028	.0009	.0001	.0001	.0037	.0000	.0001	.000	.0001
%RSD	255.3	50.30	219.8	126.8	350.1	149.7	28.06	31.24	164.2	103.8
#1	.0003	-.0033	-.0009	.0000	.0000	.0008	-.0001	-.0001	-.0001	-.0001
#2	.0006	-.0046	.0007	-.0001	.0000	-.0064	-.0002	-.0001	.0000	.0000
#3	-.0003	-.0087	-.0010	-.0001	.0000	-.0018	-.0001	-.0002	-.0001	-.0003
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	.0214	-.0019	-.0001	.0008	.0268	.0002	.0007	.0005	.0013
Stddev	.0037	.0088	.0038	.0000	.0002	.0076	.0002	.0008	.0011	.0012
%RSD	37.27	40.97	193.4	26.30	24.76	28.29	100.1	110.4	216.7	90.70
#1	.0142	.0313	-.0034	-.0001	.0011	.0304	.0000	.0015	.0013	.0027
#2	.0089	.0149	-.0048	-.0001	.0007	.0181	.0004	.0004	-.0008	.0008
#3	.0070	.0179	.0023	-.0001	.0007	.0319	.0004	.0001	.0010	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0003	-.0001	.0009	.0017	.0002	.0001
Stddev	.0010	.0004	.0000	.0001	.0007	.0003	.0000
%RSD	43.96	135.6	7.975	14.43	38.97	142.1	20.33
#1	.0030	.0002	-.0001	.0010	.0021	.0003	.0001
#2	.0011	-.0001	-.0001	.0010	.0020	-.0001	.0001
#3	.0027	.0006	-.0001	.0008	.0009	.0005	.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 7/27/2012 12:39:36 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1412.7	2590.6	20719.	8479.2
Stddev	1.0	4.6	24.	21.3
%RSD	.07166	.17662	.11539	.25145
#1	1413.8	2589.8	20744.	8464.6
#2	1411.9	2586.5	20716.	8469.3
#3	1412.2	2595.6	20697.	8503.7

Zoom In
Zoom Out

Sample Name: F95253-1 Acquired: 7/27/2012 12:44:04 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	2.361	.0001	.0394	-.0001	8.508	.0012	.0003	.0047	.0022
Stddev	.0002	.007	.0013	.0003	.0000	.018	.0000	.0001	.0003	.0001
%RSD	124.5	.3105	1329.	.6521	16.19	.2093	.9783	33.16	5.508	4.300
#1	.0000	2.355	-.0013	.0395	-.0001	8.498	.0012	.0004	.0050	.0021
#2	-.0003	2.369	.0014	.0395	-.0001	8.497	.0012	.0004	.0046	.0022
#3	-.0002	2.359	.0001	.0391	-.0001	8.529	.0012	.0002	.0045	.0023

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1484	4.399	1.008	.1105	.0007	6.845	.0025	.0054	.0002	.0021
Stddev	.0013	.020	.024	.0006	.0002	.012	.0001	.0005	.0007	.0023
%RSD	.8704	.4482	2.404	.5423	31.14	.1816	3.287	9.471	447.6	106.2
#1	.1469	4.420	1.031	.1106	.0009	6.852	.0026	.0054	.0010	-.0003
#2	.1494	4.395	.9828	.1111	.0005	6.853	.0025	.0049	-.0002	.0043
#3	.1489	4.382	1.010	.1099	.0008	6.831	.0025	.0059	-.0003	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.437	-.0015	.0248	.0297	-.0001	.0030	.0620
Stddev	.004	.0006	.0001	.0002	.0005	.0003	.0003
%RSD	.1585	40.06	.2237	.7753	501.3	8.708	.4648
#1	2.441	-.0018	.0248	.0300	-.0005	.0031	.0623
#2	2.438	-.0008	.0249	.0295	-.0003	.0032	.0619
#3	2.433	-.0019	.0249	.0297	.0005	.0027	.0618

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1318.8	2493.8	20025.	8387.5
Stddev	3.1	5.5	65.	3.7
%RSD	.23365	.21962	.32441	.04436
#1	1317.3	2489.9	19968.	8391.6
#2	1316.7	2491.4	20010.	8386.5
#3	1322.3	2500.0	20096.	8384.4

Zoom In
Zoom Out

Sample Name: F95271-1 Acquired: 7/27/2012 12:48:28 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.0084	-.0004	.0601	-.0002	94.21	-.0004	.0000	-.0001	.0056
Stddev	.0003	.0063	.0006	.0005	.0000	.29	.0001	.000	.0001	.0002
%RSD	77.53	75.13	132.9	.8629	5.988	.3100	36.74	634.5	94.01	3.928
#1	-.0007	.0012	-.0005	.0599	-.0002	94.22	-.0003	.0000	-.0002	.0055
#2	-.0001	.0128	.0002	.0597	-.0002	94.50	-.0003	.0000	.0000	.0059
#3	-.0005	.0114	-.0010	.0607	-.0002	93.91	-.0005	-.0001	-.0002	.0055

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9891	.7407	25.60	.3435	.0006	64.99	.0006	.0027	-.0002	.0001
Stddev	.0016	.0122	.04	.0010	.0001	.08	.0001	.0006	.0011	.0041
%RSD	.1625	1.643	.1501	.2806	9.808	.1221	24.72	20.35	680.7	4197.
#1	.9875	.7401	25.61	.3441	.0005	65.04	.0005	.0023	-.0011	.0048
#2	.9907	.7289	25.63	.3440	.0006	64.90	.0005	.0025	-.0005	-.0014
#3	.9892	.7532	25.56	.3424	.0006	65.04	.0008	.0033	.0011	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.436	-.0005	.9521	.0006	-.0012	.0002	.0088
Stddev	.028	.0006	.0011	.0002	.0025	.0005	.0001
%RSD	.3001	131.6	.1149	26.05	213.1	183.9	1.588
#1	9.413	-.0005	.9522	.0004	.0005	.0000	.0088
#2	9.429	.0002	.9510	.0007	.0000	.0000	.0087
#3	9.468	-.0011	.9531	.0007	-.0040	.0008	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1196.5	2382.8	19167.	8244.5
Stddev	3.5	5.2	60.	16.3
%RSD	.29385	.21960	.31061	.19741
#1	1192.5	2378.5	19105.	8226.9
#2	1198.8	2388.7	19170.	8247.6
#3	1198.3	2381.3	19224.	8259.0

Zoom In
Zoom Out

Sample Name: F95238-1F Acquired: 7/27/2012 12:52:51 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0584	.0063	.1161	-.0002	F1016.	-.0024	.0041	-.0001
Stddev	.0003	.0103	.0020	.0003	.0000	10.	.0001	.0001	.0003
%RSD	28.11	17.56	31.34	.2807	15.56	.9601	2.375	3.383	323.9
#1	.0007	.0662	.0071	.1158	-.0002	1013.	-.0023	.0043	.0002
#2	.0013	.0468	.0040	.1165	-.0002	1008.	-.0024	.0040	-.0002
#3	.0011	.0623	.0077	.1161	-.0001	1027.	-.0024	.0041	-.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0016	2.649	32.83	414.5	F8.832	.0021	F1301.	.0044	-.0014
Stddev	.0004	.004	.03	2.7	.031	.0000	25.	.0003	.0010
%RSD	22.37	.1450	.0929	.6435	.3505	1.888	1.949	6.763	68.24
#1	-.0012	2.644	32.82	412.4	8.813	.0020	1328.	.0041	-.0020
#2	-.0019	2.651	32.80	413.6	8.816	.0020	1296.	.0043	-.0003
#3	-.0017	2.651	32.86	417.5	8.868	.0021	1278.	.0047	-.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0018	-.0025	13.92	-.0025	F7.798	-.0136	.0013	.0000	.0070
Stddev	.0011	.0013	.01	.0007	.032	.0001	.0010	.0005	.0002
%RSD	62.66	51.25	.0719	29.41	.4098	.8599	74.55	1215.	3.430
#1	.0029	-.0033	13.92	-.0034	7.777	-.0137	.0024	.0001	.0070
#2	.0006	-.0010	13.91	-.0022	7.835	-.0137	.0007	-.0005	.0072
#3	.0019	-.0032	13.93	-.0020	7.784	-.0135	.0008	.0005	.0067

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	852.93	1938.4	15593.	7549.5
Stddev	1.13	1.5	21.	46.6
%RSD	.13293	.07773	.13183	.61663
#1	852.52	1937.8	15581.	7589.0
#2	854.22	1940.1	15617.	7561.3
#3	852.06	1937.3	15582.	7498.2

Zoom In Zoom Out

Sample Name: F95238-2F Acquired: 7/27/2012 12:57:49 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0418	-.0012	.2245	-.0002	F607.5	-.0016	.0044	-.0001
Stddev	.0003	.0177	.0028	.0200	.0000	39.9	.0001	.0002	.0005
%RSD	41.48	42.43	235.4	8.887	7.303	6.565	5.995	4.327	796.9
#1	.0003	.0592	-.0029	.2355	-.0002	624.9	-.0016	.0042	-.0005
#2	.0007	.0425	-.0027	.2015	-.0002	561.8	-.0015	.0044	-.0001
#3	.0009	.0237	.0020	.2366	-.0002	635.6	-.0017	.0045	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0019	1.001	23.96	360.6	F5.659	.0035	F764.2	.0022	.0003
Stddev	.0001	.084	2.11	29.4	.018	.0002	56.7	.0002	.0003
%RSD	6.350	8.379	8.814	8.162	.3250	4.545	7.419	8.555	86.79
#1	-.0018	1.046	25.13	377.7	5.657	.0034	809.0	.0022	.0004
#2	-.0020	.9042	21.52	326.6	5.642	.0037	700.5	.0024	.0005
#3	-.0020	1.053	25.23	377.5	5.679	.0035	783.0	.0021	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0016	12.84	-.0019	F5.916	-.0067	.0007	.0003	.0015
Stddev	.0004	.0022	.02	.0011	.416	.0001	.0023	.0003	.0001
%RSD	104.8	141.4	.1941	57.66	7.028	1.708	337.9	96.59	4.673
#1	-.0008	-.0004	12.81	-.0030	6.166	-.0066	-.0017	.0005	.0015
#2	-.0002	-.0041	12.86	-.0021	5.436	-.0067	.0030	.0000	.0016
#3	-.0001	-.0002	12.83	-.0007	6.145	-.0069	.0008	.0004	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	909.75	2024.6	16260.	7964.0
Stddev	1.90	4.9	34.	532.2
%RSD	.20849	.24130	.20978	6.6827
#1	907.72	2028.9	16280.	7631.2
#2	911.47	2019.3	16280.	8577.8
#3	910.06	2025.7	16221.	7682.9

Zoom In Zoom Out

Sample Name: F95268-1 Acquired: 7/27/2012 13:02:38 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	1.832	.0162	.0338	-.0001	F768.6	-.0019	.0036	.1000
Stddev	.0002	.019	.0019	.0001	.0000	.6	.0002	.0001	.0008
%RSD	2174.	1.030	11.56	.3565	2.252	.0776	9.127	3.991	.7874
#1	-.0001	1.824	.0145	.0337	-.0001	768.1	-.0019	.0034	.0992
#2	.0003	1.853	.0158	.0339	-.0001	769.3	-.0020	.0036	.1008
#3	-.0002	1.818	.0182	.0337	-.0001	768.5	-.0017	.0037	.1001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	1.956	11.43	F1195.	.7125	.0746	*****	.0653	.0033
Stddev	.0003	.010	.08	3.	.0041	.0004	-----	.0004	.0007
%RSD	16.43	.5134	.7371	.2805	.5700	.5356	-----	.6552	21.89
#1	.0021	1.967	11.46	1193.	.7079	.0741	-----	.0657	.0026
#2	.0020	1.951	11.49	1199.	.7158	.0748	2013.	.0653	.0033
#3	.0015	1.949	11.33	1194.	.7138	.0749	1920.	.0649	.0041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0027	41.51	-.0015	F17.14	.0294	.0047	.0732	.0044
Stddev	.0006	.0024	.07	.0005	.05	.0009	.0020	.0008	.0001
%RSD	439.5	87.74	.1624	34.33	.3186	3.124	41.58	1.055	3.175
#1	.0004	.0048	41.44	-.0011	17.09	.0284	.0026	.0724	.0046
#2	-.0001	.0001	41.51	-.0021	17.13	.0296	.0064	.0733	.0043
#3	-.0008	.0033	41.57	-.0013	17.20	.0302	.0053	.0740	.0045

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	742.26	1759.8	14036.	7088.9
Stddev	2.35	.4	54.	10.7
%RSD	.31646	.02318	.38653	.15105
#1	744.76	1760.2	14087.	7089.8
#2	741.94	1759.9	13979.	7077.8
#3	740.09	1759.4	14042.	7099.2

Zoom In Zoom Out

Sample Name: F95268-3 Acquired: 7/27/2012 13:07:23 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	2.140	.0156	.0390	.0000	F757.7	-.0017	.0041	.1016
Stddev	.0002	.022	.0026	.0003	.000	3.6	.0001	.0002	.0005
%RSD	30.04	1.022	16.80	.6983	32.28	.4816	5.201	4.328	.5013
#1	.0006	2.132	.0180	.0393	-.0001	761.9	-.0017	.0039	.1018
#2	.0003	2.164	.0159	.0391	-.0001	756.3	-.0018	.0042	.1020
#3	.0006	2.122	.0128	.0387	.0000	755.1	-.0016	.0043	.1010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0023	2.240	10.56	F1159.	.7909	.0745	F1865.	.0684	.0034
Stddev	.0004	.014	.02	5.	.0032	.0002	91.	.0002	.0017
%RSD	16.89	.6276	.1780	.4451	.4059	.3044	4.902	.2658	49.45
#1	.0022	2.250	10.54	1164.	.7944	.0742	1954.	.0682	.0049
#2	.0020	2.246	10.56	1159.	.7901	.0745	1870.	.0686	.0016
#3	.0027	2.224	10.57	1154.	.7882	.0746	1771.	.0685	.0038

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0005	.0007	42.78	-.0034	F16.86	.0406	.0024	.0742	.0051
Stddev	.0021	.0067	.08	.0006	.06	.0003	.0010	.0004	.0001
%RSD	412.5	933.8	.1977	17.32	.3568	.8073	43.81	.4954	2.412
#1	.0007	-.0060	42.70	-.0027	16.89	.0402	.0017	.0742	.0052
#2	-.0017	.0074	42.77	-.0038	16.89	.0409	.0019	.0745	.0049
#3	.0025	.0008	42.86	-.0036	16.79	.0407	.0036	.0738	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	739.47	1749.2	14096.	7221.3
Stddev	.91	2.6	46.	44.2
%RSD	.12323	.14607	.32797	.61252
#1	738.59	1750.9	14049.	7174.1
#2	739.41	1750.5	14096.	7228.1
#3	740.41	1746.3	14142.	7261.8

Zoom In Zoom Out

Sample Name: F95268-5 Acquired: 7/27/2012 13:12:09 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.7452	.0090	.0220	-.0001	F670.0	-.0016	.0044	.0044
Stddev	.0004	.0126	.0021	.0003	.0000	6.4	.0001	.0004	.0004
%RSD	116.6	1.695	23.55	1.211	14.79	.9498	4.077	9.250	8.249
#1	.0006	.7359	.0069	.0217	-.0002	663.2	-.0016	.0048	.0046
#2	.0004	.7402	.0111	.0220	-.0001	675.8	-.0017	.0042	.0040
#3	-.0001	.7596	.0089	.0223	-.0001	671.0	-.0016	.0041	.0045

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.6565	27.61	F971.2	2.417	.0664	F1702.	.0171	.0006
Stddev	.0004	.0061	.10	6.8	.003	.0003	35.	.0004	.0007
%RSD	48.35	.9277	.3649	.7010	.1071	.3968	2.027	2.211	114.6
#1	-.0003	.6510	27.49	963.3	2.417	.0663	1739.	.0167	.0005
#2	-.0010	.6631	27.68	975.1	2.419	.0667	1696.	.0174	.0014
#3	-.0009	.6555	27.65	975.0	2.414	.0662	1671.	.0172	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	-.0009	43.61	-.0032	F13.70	.0074	-.0007	.0378	.0048
Stddev	.0019	.0025	.02	.0005	.05	.0001	.0008	.0004	.0000
%RSD	844.4	282.8	.0536	15.49	.3435	1.112	117.2	.9427	.9710
#1	-.0007	-.0021	43.61	-.0027	13.65	.0073	-.0006	.0378	.0049
#2	.0018	-.0025	43.58	-.0037	13.69	.0074	.0001	.0381	.0048
#3	-.0018	.0020	43.62	-.0032	13.74	.0075	-.0016	.0374	.0048

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	773.82	1787.5	14516.	7423.8
Stddev	3.82	2.0	45.	46.5
%RSD	.49369	.11007	.30752	.62645
#1	769.94	1786.1	14473.	7475.0
#2	773.93	1786.6	14513.	7384.1
#3	777.58	1789.7	14562.	7412.4

Zoom In Zoom Out

Sample Name: F95268-7 Acquired: 7/27/2012 13:16:59 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0855	.0047	.0214	-.0002	F567.6	-.0014	.0054	.0011
Stddev	.0011	.0024	.0008	.0001	.0000	6.0	.0001	.0002	.0002
%RSD	817.9	2.834	17.39	.5071	17.54	1.052	8.801	4.387	15.65
#1	-.0001	.0876	.0046	.0213	-.0002	560.8	-.0014	.0053	.0011
#2	-.0008	.0861	.0039	.0215	-.0002	570.2	-.0012	.0052	.0009
#3	.0013	.0828	.0055	.0215	-.0002	571.9	-.0015	.0057	.0013

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0006	.0534	10.26	F840.5	1.462	.0822	F1621.	.0165	.0063
Stddev	.0002	.0010	.04	3.0	.001	.0004	59.	.0006	.0010
%RSD	41.02	1.789	.3798	.3604	.0945	.5114	3.633	3.385	16.01
#1	-.0005	.0539	10.22	837.0	1.463	.0818	1687.	.0167	.0055
#2	-.0008	.0523	10.29	842.4	1.463	.0821	1599.	.0159	.0059
#3	-.0004	.0539	10.28	842.0	1.461	.0826	1576.	.0169	.0074

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	.0021	43.73	-.0035	F12.66	-.0058	-.0011	.0086	.0033
Stddev	.0009	.0035	.04	.0001	.03	.0003	.0023	.0003	.0002
%RSD	59.20	166.0	.1008	2.004	.2355	5.566	211.4	3.817	7.041
#1	.0009	.0062	43.76	-.0035	12.63	-.0057	.0015	.0088	.0030
#2	.0026	.0000	43.68	-.0036	12.67	-.0055	-.0028	.0082	.0033
#3	.0012	.0002	43.76	-.0035	12.69	-.0061	-.0019	.0087	.0035

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	791.99	1816.0	14821.	7468.3
Stddev	.68	2.9	36.	22.0
%RSD	.08619	.15891	.24270	.29398
#1	792.58	1813.2	14822.	7492.4
#2	792.14	1819.0	14784.	7449.4
#3	791.24	1815.8	14856.	7463.0

Zoom In Zoom Out

Sample Name: F95268-9 Acquired: 7/27/2012 13:21:49 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.1096	.0082	.0158	-.0002	F532.3	-.0013	.0022	.0007
Stddev	.0006	.0040	.0008	.0001	.0000	.6	.0000	.0002	.0003
%RSD	123.3	3.620	9.255	.8636	15.14	.1035	3.387	8.877	43.46
#1	-.0008	.1142	.0077	.0159	-.0002	532.1	-.0013	.0024	.0011
#2	-.0009	.1068	.0079	.0156	-.0001	531.8	-.0013	.0020	.0006
#3	.0002	.1080	.0091	.0158	-.0002	532.9	-.0013	.0022	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	.0749	4.154	F572.1	.8344	.0342	F1270.	.0030	.0197
Stddev	.0000	.0021	.034	1.5	.0034	.0003	21.	.0002	.0013
%RSD	5.599	2.859	.8251	.2655	.4078	.8062	1.638	6.732	6.343
#1	-.0007	.0758	4.176	572.7	.8306	.0345	1280.	.0029	.0209
#2	-.0008	.0724	4.114	573.2	.8358	.0342	1284.	.0033	.0184
#3	-.0007	.0764	4.170	570.4	.8370	.0340	1246.	.0030	.0198

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	.0014	45.22	-.0027	F10.60	-.0030	.0007	.0127	.0021
Stddev	.0006	.0033	.02	.0002	.01	.0004	.0034	.0006	.0000
%RSD	89.87	241.8	.0485	7.645	.1033	11.90	517.0	5.074	1.584
#1	.0005	-.0021	45.19	-.0024	10.59	-.0034	-.0019	.0134	.0021
#2	.0001	.0018	45.24	-.0028	10.61	-.0027	-.0006	.0122	.0021
#3	.0013	.0044	45.21	-.0027	10.59	-.0031	.0045	.0125	.0021

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	843.14	1894.6	15642.	7626.8
Stddev	1.23	3.3	13.	16.8
%RSD	.14605	.17376	.08119	.22006
#1	843.66	1898.2	15629.	7607.8
#2	841.73	1891.7	15655.	7632.8
#3	844.02	1893.9	15641.	7639.7

Zoom In Zoom Out

Sample Name: F95268-11 Acquired: 7/27/2012 13:26:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0881	.0026	.0204	-.0001	F517.7	-.0011	.0016	.0002
Stddev	.0006	.0136	.0002	.0001	.0000	3.7	.0001	.0002	.0002
%RSD	703.1	15.43	9.088	.4930	20.85	.7184	9.859	11.19	80.16
#1	.0003	.1002	.0024	.0204	-.0002	514.2	-.0010	.0014	.0002
#2	-.0008	.0906	.0029	.0203	-.0001	517.4	-.0010	.0016	.0004
#3	.0003	.0734	.0026	.0205	-.0001	521.6	-.0012	.0018	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0017	2.535	2.143	287.7	1.823	.0158	F587.9	.0020	.0017
Stddev	.0003	.013	.007	1.7	.001	.0004	6.8	.0004	.0003
%RSD	16.16	.5250	.3160	.5944	.0327	2.766	1.149	18.76	16.01
#1	-.0020	2.521	2.149	285.9	1.823	.0163	584.3	.0016	.0016
#2	-.0014	2.538	2.136	287.8	1.824	.0156	583.6	.0022	.0020
#3	-.0017	2.547	2.144	289.4	1.823	.0156	595.6	.0023	.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0005	53.42	-.0025	F10.21	-.0033	.0011	.0019	.0006
Stddev	.0007	.0008	.07	.0002	.08	.0002	.0029	.0001	.0002
%RSD	58.90	157.8	.1325	9.037	.8128	6.744	250.0	7.622	31.55
#1	-.0007	.0003	53.44	-.0027	10.12	-.0031	.0044	.0019	.0004
#2	-.0008	.0015	53.47	-.0025	10.23	-.0032	-.0009	.0018	.0008
#3	-.0020	-.0002	53.34	-.0022	10.28	-.0035	.0000	.0021	.0006

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	935.80	2039.9	16833.	7902.3
Stddev	1.48	6.2	45.	28.5
%RSD	.15793	.30370	.26637	.36017
#1	934.97	2035.6	16846.	7930.9
#2	934.93	2037.2	16783.	7902.2
#3	937.51	2047.0	16870.	7874.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 13:31:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2557	41.32	2.103	2.084	2.055	40.15	2.111	2.128	2.048	2.062
Stddev	.0022	.06	.005	.007	.005	.14	.003	.004	.003	.005
%RSD	.8628	.1451	.2448	.3177	.2410	.3438	.1260	.1704	.1571	.2214
#1	.2582	41.25	2.109	2.079	2.049	39.99	2.111	2.132	2.044	2.067
#2	.2540	41.34	2.099	2.081	2.057	40.21	2.109	2.125	2.049	2.059
#3	.2549	41.37	2.101	2.091	2.058	40.25	2.114	2.126	2.050	2.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.22	42.04	38.99	2.030	2.134	40.51	2.121	2.024	2.119	2.127
Stddev	.10	.09	.14	.005	.003	.11	.005	.007	.007	.011
%RSD	.2559	.2123	.3632	.2607	.1282	.2654	.2590	.3447	.3359	.5066
#1	39.10	42.03	38.83	2.024	2.136	40.40	2.123	2.018	2.126	2.138
#2	39.25	41.96	39.04	2.031	2.131	40.51	2.115	2.022	2.113	2.117
#3	39.29	42.14	39.11	2.034	2.136	40.61	2.125	2.031	2.117	2.126
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.167	2.127	2.114	2.058	2.068	2.126	2.067
Stddev	.014	.005	.004	.003	.005	.003	.004
%RSD	.6381	.2251	.1949	.1652	.2478	.1270	.1825
#1	2.183	2.131	2.110	2.055	2.064	2.126	2.065
#2	2.161	2.122	2.113	2.058	2.067	2.124	2.065
#3	2.157	2.129	2.118	2.062	2.074	2.129	2.071
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 13:31:29 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1146.5	2388.9	19718.	8578.2
Stddev	1.7	8.2	24.	28.8
%RSD	.14582	.34461	.12107	.33560
#1	1146.3	2379.5	19690.	8611.4
#2	1148.3	2392.4	19734.	8561.3
#3	1145.0	2394.8	19729.	8561.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 13:35:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0108	-.0012	.0000	.0001	.0056	-.0001	-.0001	.0000
Stddev	.0002	.0055	.0003	.0001	.0000	.0011	.0001	.0001	.0004
%RSD	276.7	50.47	21.62	3439.	48.05	19.75	114.3	170.0	1906.
#1	.0003	-.0046	-.0013	.0001	.0000	.0062	.0000	.0000	-.0003
#2	-.0001	-.0131	-.0009	-.0001	.0001	.0062	-.0001	-.0001	-.0001
#3	.0000	-.0148	-.0014	.0000	.0001	.0043	.0000	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0142	.0186	.0105	.0000	.0007	.1858	.0001	.0000
Stddev	.0002	.0033	.0188	.0152	.0000	.0003	.0025	.0001	.0007
%RSD	177.3	23.14	100.7	144.5	119.2	50.26	1.323	64.17	5729.
#1	-.0003	.0179	.0302	.0280	.0000	.0011	.1856	.0000	-.0007
#2	.0001	.0122	.0286	.0006	.0001	.0004	.1835	.0001	.0001
#3	-.0001	.0124	-.0030	.0030	.0000	.0005	.1884	.0001	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0014	.0022	.0003	.0001	.0011	F.0022	.0000	.0002
Stddev	.0006	.0018	.0002	.0005	.0000	.0001	.0015	.000	.0000
%RSD	293.2	131.4	8.899	202.1	40.60	12.88	71.32	5817.	23.24
#1	-.0004	.0035	.0024	.0009	.0001	.0012	.0029	-.0001	.0002
#2	-.0006	.0004	.0020	.0000	.0001	.0011	.0032	.0000	.0001
#3	.0005	.0003	.0022	-.0001	.0001	.0009	.0004	.0001	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0020		
Low Limit							-.0020		

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 13:35:35 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1394.7	2527.8	20682.	8738.3
Stddev	1.2	10.3	51.	44.7
%RSD	.08797	.40604	.24470	.51174
#1	1396.0	2533.2	20677.	8687.9
#2	1394.5	2516.0	20633.	8753.8
#3	1393.5	2534.3	20734.	8773.2

Zoom In Zoom Out

Sample Name: F95268-13 Acquired: 7/27/2012 13:40:03 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0435	.0031	.0160	-.0001	489.9	-.0012	.0003	.0003
Stddev	.0001	.0096	.0010	.0000	.0001	1.7	.0001	.0001	.0003
%RSD	27.35	22.01	34.18	.2487	44.25	.3529	4.280	33.81	95.32
#1	-.0002	.0325	.0025	.0161	-.0001	490.6	-.0012	.0002	.0005
#2	-.0004	.0481	.0024	.0161	-.0001	488.0	-.0011	.0004	.0003
#3	-.0002	.0500	.0043	.0160	-.0002	491.2	-.0012	.0004	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0020	.7282	4.363	273.6	.6848	.0171	F627.4	.0004	.0059
Stddev	.0004	.0008	.021	.9	.0047	.0003	11.9	.0004	.0001
%RSD	20.06	.1119	.4871	.3162	.6841	1.602	1.893	97.17	1.299
#1	-.0024	.7291	4.345	272.6	.6893	.0173	641.0	.0004	.0060
#2	-.0016	.7277	4.386	274.0	.6799	.0172	619.2	.0000	.0059
#3	-.0020	.7277	4.358	274.2	.6851	.0168	621.9	.0008	.0058

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0011	.0004	47.13	-.0023	F8.825	-.0040	-.0010	.0084	.0011
Stddev	.0022	.0059	.15	.0005	.059	.0002	.0007	.0003	.0001
%RSD	199.1	1568.	.3176	20.43	.6719	3.911	70.85	3.890	9.406
#1	.0018	.0072	46.96	-.0022	8.809	-.0038	-.0017	.0086	.0011
#2	.0029	-.0037	47.19	-.0019	8.891	-.0041	-.0005	.0080	.0012
#3	-.0014	-.0024	47.25	-.0029	8.776	-.0041	-.0007	.0086	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	939.74	2036.3	16801.	7849.6
Stddev	.66	4.3	62.	4.6
%RSD	.06996	.21124	.37005	.05884
#1	938.99	2040.1	16733.	7854.1
#2	940.20	2037.1	16854.	7849.9
#3	940.03	2031.6	16817.	7844.9

Zoom In Zoom Out

Sample Name: F95268-1F Acquired: 7/27/2012 13:44:52 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0485	.0112	.0817	-.0002	F674.6	-.0017	.0012	.0001
Stddev	.0005	.0040	.0007	.0003	.0000	5.3	.0001	.0003	.0005
%RSD	655.1	8.322	6.224	.4017	4.740	.7823	7.883	21.77	383.9
#1	-.0005	.0481	.0120	.0821	-.0002	676.7	-.0015	.0011	.0006
#2	.0005	.0527	.0110	.0815	-.0002	668.6	-.0017	.0016	.0002
#3	-.0002	.0447	.0107	.0815	-.0002	678.5	-.0018	.0011	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.0084	8.959	F1064.	.2978	.0766	F1994.	.0168	.0048
Stddev	.0002	.0004	.052	1.	.0008	.0003	124.	.0004	.0011
%RSD	162.6	5.115	.5821	.1188	.2807	.3818	6.228	2.204	22.62
#1	-.0001	.0087	8.901	1065.	.2975	.0764	2122.	.0169	.0043
#2	.0004	.0085	8.972	1063.	.2972	.0769	1984.	.0172	.0061
#3	.0001	.0079	9.003	1063.	.2988	.0763	1875.	.0164	.0041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0053	33.77	-.0034	F16.11	-.0104	-.0002	.0573	.0000
Stddev	.0013	.0012	.17	.0011	.06	.0001	.0013	.0005	.0002
%RSD	456.3	22.33	.5070	31.63	.3987	.8442	547.9	.9304	8586.
#1	-.0017	-.0067	33.58	-.0036	16.13	-.0103	.0011	.0567	-.0001
#2	.0008	-.0046	33.81	-.0044	16.04	-.0105	-.0015	.0574	-.0002
#3	.0000	-.0047	33.91	-.0023	16.16	-.0104	-.0002	.0577	.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	740.61	1698.6	14021.	7407.3
Stddev	2.17	6.3	27.	30.0
%RSD	.29284	.36903	.19042	.40521
#1	738.72	1705.7	14046.	7374.0
#2	742.97	1696.6	14024.	7432.4
#3	740.13	1693.7	13992.	7415.4

Zoom In Zoom Out

Sample Name: F95268-3F Acquired: 7/27/2012 13:49:40 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0455	.0132	.0322	-.0002	F719.2	-.0019	.0011	.0000
Stddev	.0005	.0046	.0010	.0003	.0000	3.9	.0000	.0001	.001
%RSD	236.3	10.10	7.369	.7893	6.890	.5486	1.896	7.183	7178.
#1	-.0001	.0404	.0121	.0319	-.0002	714.8	-.0019	.0010	.0003
#2	-.0007	.0493	.0140	.0323	-.0002	722.5	-.0019	.0011	.0002
#3	.0002	.0466	.0136	.0324	-.0002	720.4	-.0018	.0011	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	.0155	9.544	F1134.	.2917	.0805	F1819.	.0163	.0037
Stddev	.0001	.0006	.009	4.	.0016	.0004	47.	.0003	.0010
%RSD	84.19	4.182	.0941	.3212	.5484	.4489	2.581	2.046	26.80
#1	.0002	.0161	9.534	1130.	.2927	.0802	1863.	.0161	.0048
#2	.0000	.0148	9.551	1135.	.2925	.0809	1825.	.0167	.0030
#3	.0001	.0157	9.546	1137.	.2898	.0804	1769.	.0161	.0032

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0010	.0053	36.26	-.0029	F17.34	-.0119	.0007	.0634	-.0007
Stddev	.0013	.0023	.19	.0004	.05	.0001	.0005	.0012	.0002
%RSD	126.8	43.44	.5228	15.01	.3105	.8385	65.76	1.917	25.95
#1	.0025	.0035	36.33	-.0024	17.29	-.0118	.0002	.0622	-.0007
#2	.0006	.0079	36.40	-.0033	17.34	-.0120	.0008	.0646	-.0008
#3	.0000	.0046	36.04	-.0029	17.40	-.0119	.0012	.0635	-.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	729.41	1683.4	13878.	7405.7
Stddev	3.59	10.8	33.	18.1
%RSD	.49278	.63918	.23993	.24373
#1	726.02	1677.4	13868.	7426.4
#2	729.04	1676.9	13851.	7398.0
#3	733.18	1695.8	13916.	7392.8

Zoom In Zoom Out

Sample Name: F95268-5F Acquired: 7/27/2012 13:54:28 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0490	.0070	.0189	-.0002	F622.1	-.0016	.0049	-.0003
Stddev	.0005	.0073	.0011	.0002	.0001	1.6	.0002	.0003	.0003
%RSD	158.6	14.95	16.03	.7946	26.10	.2553	9.805	6.063	106.9
#1	.0007	.0567	.0058	.0190	-.0002	623.2	-.0017	.0047	-.0004
#2	.0003	.0482	.0075	.0190	-.0001	620.3	-.0015	.0048	.0001
#3	-.0002	.0421	.0079	.0187	-.0002	622.7	-.0015	.0052	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0010	-.0003	26.65	F923.4	2.585	.0714	F1642.	.0176	.0053
Stddev	.0004	.0012	.12	1.4	.021	.0002	36.	.0001	.0012
%RSD	41.92	399.7	.4484	.1544	.8059	.3117	2.205	.4641	22.33
#1	-.0012	-.0007	26.72	924.8	2.588	.0712	1673.	.0175	.0065
#2	-.0005	-.0013	26.72	922.0	2.562	.0713	1652.	.0176	.0042
#3	-.0012	.0011	26.51	923.5	2.604	.0717	1602.	.0176	.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	.0011	40.86	-.0033	F13.56	-.0090	.0031	.0348	.0002
Stddev	.0017	.0019	.11	.0003	.10	.0000	.0010	.0008	.0003
%RSD	297.8	167.4	.2774	10.34	.7512	.0992	31.34	2.407	132.6
#1	.0020	.0004	40.78	-.0035	13.66	-.0090	.0020	.0345	-.0001
#2	-.0013	.0032	40.81	-.0029	13.46	-.0090	.0034	.0342	.0004
#3	.0009	-.0003	40.99	-.0036	13.56	-.0090	.0039	.0358	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	766.77	1745.9	14402.	7529.5
Stddev	2.34	5.5	61.	41.3
%RSD	.30459	.31663	.42304	.54914
#1	764.08	1747.9	14344.	7482.2
#2	768.29	1750.1	14466.	7547.8
#3	767.93	1739.6	14397.	7558.6

Zoom In Zoom Out

Sample Name: F95268-7F Acquired: 7/27/2012 13:59:18 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0312	.0061	.0243	-.0002	F530.1	-.0013	.0055	-.0005
Stddev	.0005	.0029	.0017	.0002	.0000	.8	.0000	.0001	.0002
%RSD	245.8	9.186	28.02	.8299	25.50	.1427	3.748	2.056	37.79
#1	-.0004	.0280	.0047	.0241	-.0001	529.2	-.0014	.0054	-.0003
#2	.0004	.0321	.0080	.0245	-.0002	530.6	-.0013	.0056	-.0007
#3	-.0006	.0335	.0055	.0244	-.0002	530.4	-.0013	.0055	-.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0004	.0004	10.38	F773.9	1.419	.0944	F1555.	.0164	.0091
Stddev	.0003	.0005	.01	5.7	.003	.0004	40.	.0003	.0029
%RSD	88.33	118.8	.0981	.7342	.2393	.3965	2.595	1.837	31.87
#1	.0002	.0003	10.38	772.1	1.417	.0942	1601.	.0166	.0065
#2	.0008	.0000	10.38	769.4	1.423	.0949	1539.	.0161	.0122
#3	.0002	.0009	10.39	780.3	1.417	.0942	1525.	.0164	.0085

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0010	40.36	-.0032	F12.11	-.0068	.0000	.0090	.0039
Stddev	.0006	.0020	.11	.0009	.07	.0000	.0039	.0003	.0001
%RSD	191.9	203.7	.2793	26.59	.6085	.5344	15750.	3.091	3.456
#1	.0003	-.0001	40.37	-.0039	12.06	-.0068	.0040	.0093	.0041
#2	-.0004	-.0033	40.47	-.0023	12.07	-.0067	-.0037	.0090	.0038
#3	-.0008	.0004	40.24	-.0036	12.19	-.0068	-.0003	.0088	.0039

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	787.29	1788.1	14801.	7602.7
Stddev	2.15	6.7	30.	31.4
%RSD	.27315	.37221	.20044	.41260
#1	789.29	1786.4	14768.	7603.5
#2	785.02	1782.5	14810.	7633.6
#3	787.56	1795.5	14826.	7570.9

Zoom In Zoom Out

Sample Name: F95268-9F Acquired: 7/27/2012 14:04:07 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.0198	.0069	.0166	-.0002	F505.9	-.0012	.0020	-.0006
Stddev	.0003	.0044	.0010	.0002	.0000	4.6	.0001	.0000	.0001
%RSD	60.68	22.45	14.39	1.461	10.71	.9141	8.383	1.738	7.782
#1	-.0002	.0156	.0063	.0168	-.0002	502.7	-.0013	.0020	-.0006
#2	-.0005	.0193	.0081	.0163	-.0002	503.8	-.0012	.0020	-.0006
#3	-.0008	.0245	.0064	.0165	-.0002	511.2	-.0011	.0021	-.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0014	.0049	4.028	F543.8	.8052	.0340	F1256.	.0027	.0205
Stddev	.0003	.0010	.023	2.0	.0027	.0004	17.	.0001	.0013
%RSD	19.15	20.59	.5688	.3667	.3307	1.173	1.351	3.980	6.298
#1	-.0016	.0059	4.034	542.2	.8082	.0342	1274.	.0027	.0208
#2	-.0016	.0038	4.047	543.2	.8029	.0335	1240.	.0025	.0191
#3	-.0011	.0050	4.003	546.1	.8046	.0341	1256.	.0027	.0217

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0031	45.00	-.0035	F10.55	-.0054	-.0008	.0127	.0007
Stddev	.0007	.0014	.01	.0006	.02	.0000	.0012	.0003	.0002
%RSD	89.34	44.35	.0238	16.78	.2110	.6282	138.0	2.289	35.40
#1	-.0001	.0015	45.01	-.0035	10.55	-.0054	-.0022	.0124	.0008
#2	-.0015	.0040	45.00	-.0040	10.57	-.0054	-.0003	.0130	.0004
#3	-.0008	.0037	44.99	-.0029	10.53	-.0054	.0000	.0126	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	834.59	1855.0	15557.	7784.0
Stddev	3.08	3.7	40.	13.0
%RSD	.36923	.19875	.25692	.16722
#1	831.58	1852.9	15535.	7783.3
#2	834.45	1852.9	15533.	7797.3
#3	837.74	1859.3	15603.	7771.3

Zoom In Zoom Out

Sample Name: F95268-11F Acquired: 7/27/2012 14:08:57 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0329	-.0006	.0217	-.0002	F534.9	-.0012	.0013	-.0009
Stddev	.0002	.0106	.0022	.0002	.0000	3.1	.0000	.0001	.0005
%RSD	71.60	32.39	380.2	.8367	9.559	.5704	1.277	4.787	55.09
#1	-.0001	.0430	.0000	.0216	-.0002	531.6	-.0011	.0013	-.0008
#2	-.0005	.0218	-.0030	.0218	-.0001	535.6	-.0012	.0013	-.0015
#3	-.0003	.0339	.0013	.0219	-.0002	537.6	-.0012	.0012	-.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0019	2.201	2.290	298.3	1.912	.0178	F636.7	.0021	.0029
Stddev	.0003	.005	.023	1.1	.005	.0003	4.7	.0003	.0009
%RSD	18.25	.2513	.9979	.3834	.2839	1.853	.7387	12.59	29.55
#1	-.0022	2.195	2.296	297.4	1.916	.0179	631.6	.0020	.0020
#2	-.0019	2.202	2.309	297.8	1.913	.0175	637.8	.0019	.0030
#3	-.0015	2.206	2.265	299.6	1.905	.0181	640.8	.0024	.0037

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	.0018	56.07	-.0026	F10.70	-.0052	-.0001	.0016	.0013
Stddev	.0012	.0015	.10	.0003	.05	.0001	.0012	.0004	.0002
%RSD	181.3	86.59	.1869	12.24	.4531	1.730	1720.	25.53	17.01
#1	-.0016	.0014	55.97	-.0026	10.75	-.0051	.0000	.0020	.0011
#2	.0007	.0034	56.18	-.0029	10.69	-.0052	-.0013	.0015	.0014
#3	-.0010	.0005	56.07	-.0023	10.66	-.0053	.0011	.0012	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	921.51	1997.3	16749.	8046.8
Stddev	2.00	4.2	90.	20.8
%RSD	.21655	.21121	.53872	.25858
#1	923.71	2000.9	16655.	8050.0
#2	920.99	1992.7	16755.	8065.9
#3	919.82	1998.3	16835.	8024.6

Zoom In Zoom Out

Sample Name: MP23312-MB2A Acquired: 7/27/2012 14:13:46 Type: Unk
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	-.0072	-.0025	-.0004	-.0002	.0634	-.0003	-.0004	-.0003	-.0014
Stddev	.0005	.0048	.0009	.0002	.0000	.0038	.0000	.0000	.0002	.0001
%RSD	218.6	66.37	34.24	45.11	13.42	5.979	11.76	8.822	49.81	6.208
#1	.0003	-.0033	-.0027	-.0002	-.0002	.0663	-.0003	-.0004	-.0005	-.0013
#2	-.0004	-.0125	-.0016	-.0004	-.0002	.0647	-.0003	-.0004	-.0002	-.0015
#3	-.0006	-.0058	-.0032	-.0005	-.0002	.0591	-.0003	-.0004	-.0003	-.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0034	.0304	.0131	-.0001	.0001	.4205	-.0002	-.0001	.0002	.0020
Stddev	.0004	.0210	.0133	.0000	.0001	.0190	.0003	.0004	.0008	.0009
%RSD	11.41	68.97	101.7	32.64	144.6	4.530	171.3	277.7	498.7	44.88
#1	-.0032	.0541	.0283	-.0002	.0001	.4407	-.0005	-.0005	-.0004	.0023
#2	-.0031	.0141	.0041	-.0001	-.0001	.4178	.0001	-.0001	-.0002	.0026
#3	-.0038	.0231	.0067	-.0002	.0002	.4029	-.0001	.0002	.0011	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0118	-.0016	.0004	-.0003	.0005	-.0002	.0179
Stddev	.0005	.0001	.0001	.0000	.0017	.0001	.0001
%RSD	4.064	8.222	26.11	3.089	370.3	55.29	.7488
#1	.0123	-.0016	.0005	-.0004	.0017	-.0003	.0180
#2	.0114	-.0016	.0004	-.0003	-.0015	-.0001	.0179
#3	.0116	-.0018	.0003	-.0003	.0012	-.0001	.0178

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1365.2	2461.6	20527.	8678.5
Stddev	5.5	2.4	36.	129.6
%RSD	.40086	.09822	.17779	1.4938
#1	1359.4	2463.1	20555.	8528.9
#2	1370.3	2463.0	20539.	8750.5
#3	1365.7	2458.9	20486.	8756.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:27:00 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2618	42.37	2.143	2.164	2.080	40.28	2.133	2.155	2.070	2.108
Stddev	.0006	.11	.003	.003	.004	.09	.003	.005	.004	.008
%RSD	.2145	.2679	.1204	.1407	.1813	.2357	.1590	.2138	.1709	.3878
#1	.2619	42.48	2.141	2.164	2.083	40.37	2.131	2.150	2.066	2.099
#2	.2612	42.36	2.146	2.167	2.080	40.28	2.137	2.159	2.073	2.114
#3	.2623	42.26	2.143	2.161	2.076	40.18	2.132	2.156	2.072	2.111
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.27	43.44	38.84	2.062	2.165	43.05	2.149	2.046	2.160	2.164
Stddev	.11	.11	.11	.006	.003	.10	.006	.003	.001	.005
%RSD	.2761	.2638	.2712	.2746	.1168	.2297	.2634	.1622	.0297	.2256
#1	39.39	43.56	38.91	2.056	2.162	43.16	2.145	2.049	2.160	2.166
#2	39.23	43.43	38.89	2.067	2.167	43.03	2.156	2.045	2.160	2.167
#3	39.18	43.33	38.72	2.062	2.166	42.97	2.147	2.043	2.161	2.158
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.199	2.155	2.151	2.095	2.088	2.156	2.077
Stddev	.004	.002	.020	.005	.001	.005	.004
%RSD	.2005	.1023	.9046	.2445	.0582	.2165	.1690
#1	2.194	2.153	2.155	2.091	2.088	2.151	2.077
#2	2.201	2.157	2.130	2.101	2.089	2.159	2.080
#3	2.202	2.154	2.169	2.094	2.087	2.159	2.073
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:27:00 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1120.9	2331.7	19270.	8455.5
Stddev	2.0	3.1	40.	36.5
%RSD	.17837	.13489	.20735	.43184
#1	1118.8	2335.3	19316.	8417.4
#2	1122.8	2329.5	19247.	8459.0
#3	1121.0	2330.2	19247.	8490.2

Zoom In
Zoom Out

Sample Name: CCB Acquired: 7/27/2012 14:33:20 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0009	.0003	.0001	.0002	.0077	.0002	.0002	.0003	.0002
Stddev	.0003	.0031	.0008	.0001	.0000	.0019	.0000	.0001	.0001	.0002
%RSD	64.36	349.8	227.2	89.26	11.42	24.78	9.478	53.37	25.59	116.1
#1	-.0002	.0027	-.0003	.0002	.0002	.0067	.0002	.0001	.0003	.0003
#2	-.0004	-.0026	.0001	.0000	.0002	.0099	.0002	.0002	.0002	-.0001
#3	-.0007	-.0028	.0012	.0001	.0002	.0064	.0002	.0003	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125	-.0048	.0016	.0002	.0005	.1271	.0003	.0005	.0003	.0018
Stddev	.0014	.0108	.0109	.0000	.0000	.0055	.0001	.0008	.0009	.0009
%RSD	10.88	226.3	671.5	17.34	9.039	4.362	34.19	160.8	311.4	51.08
#1	.0131	-.0131	-.0083	.0003	.0006	.1261	.0004	-.0004	-.0007	.0010
#2	.0135	-.0087	-.0001	.0002	.0005	.1221	.0002	.0010	.0009	.0028
#3	.0110	.0075	.0133	.0003	.0005	.1330	.0003	.0009	.0007	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0005	.0002	.0009	.0015	.0002	.0004
Stddev	.0004	.0001	.0000	.0001	.0006	.0003	.0001
%RSD	17.76	21.81	10.65	14.58	40.99	169.8	22.99
#1	.0020	.0006	.0003	.0010	.0008	.0001	.0003
#2	.0028	.0004	.0002	.0009	.0020	-.0001	.0003
#3	.0023	.0006	.0003	.0007	.0016	.0005	.0005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 7/27/2012 14:33:20 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1370.4	2478.3	20227.	8603.4
Stddev	3.5	2.0	23.	19.6
%RSD	.25312	.08123	.11406	.22802
#1	1366.4	2476.1	20225.	8592.2
#2	1372.5	2479.9	20250.	8626.0
#3	1372.4	2479.1	20204.	8591.8

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 14:37:45 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.2093	.0103	.2215	.0052	1.035	.0059	.0575	.0106
Stddev	.0005	.0024	.0005	.0010	.0000	.005	.0001	.0001	.0003
%RSD	4.744	1.132	4.947	.4719	.2829	.4796	1.313	.1656	2.757
#1	.0094	.2066	.0106	.2203	.0052	1.030	.0060	.0576	.0109
#2	.0094	.2112	.0105	.2219	.0052	1.037	.0058	.0575	.0103
#3	.0102	.2100	.0097	.2223	.0052	1.039	.0058	.0574	.0106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265	.3147	10.95	4.949	.0166	.0539	10.92	.0459	.0056
Stddev	.0001	.0024	.02	.043	.0001	.0002	.03	.0003	.0007
%RSD	.3950	.7533	.1672	.8676	.6750	.4455	.2602	.6074	12.25
#1	.0264	.3123	10.93	4.900	.0165	.0540	10.89	.0458	.0048
#2	.0266	.3170	10.96	4.977	.0166	.0540	10.94	.0462	.0059
#3	.0265	.3148	10.96	4.970	.0168	.0536	10.93	.0456	.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	F.0122	.0062	.0542	.0107	.0106	F.0125	.0543	.0225
Stddev	.0011	.0020	.0003	.0002	.0000	.0000	.0008	.0005	.0000
%RSD	19.20	16.13	4.981	.4043	.4539	.3622	6.523	.8341	.1643
#1	.0056	.0100	.0063	.0543	.0107	.0106	.0123	.0544	.0225
#2	.0049	.0126	.0058	.0544	.0107	.0106	.0134	.0538	.0225
#3	.0071	.0139	.0064	.0540	.0108	.0107	.0118	.0546	.0224
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value		.0100					.0100		
Range		20.00%					20.00%		

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/27/2012 14:37:45 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1301.6	2439.6	19939.	8556.8
Stddev	2.6	7.8	82.	32.9
%RSD	.20149	.31870	.40925	.38486
#1	1298.6	2435.2	20011.	8594.8
#2	1302.4	2435.1	19956.	8536.1
#3	1303.7	2448.6	19851.	8539.6

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 14:44:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	525.6	F-.0022	F.0016	-.0002	470.3	F.0037	-.0004
Stddev	.0009	1.7	.0012	.0004	.0001	1.7	.0003	.0001
%RSD	5889.	.3298	53.60	22.80	28.81	.3510	8.821	18.24
#1	-.0010	523.7	-.0010	.0013	-.0002	469.5	.0036	-.0005
#2	.0003	526.3	-.0034	.0015	-.0002	469.1	.0041	-.0003
#3	.0007	527.0	-.0023	.0020	-.0001	472.2	.0035	-.0003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			.0020	.0010			.0010	
Low Limit			-.0020	-.0010			-.0010	

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0006	184.6	.0013	502.2	.0002	.0003	.2134
Stddev	.0004	.0003	2.2	.0148	2.7	.0001	.0003	.0015
%RSD	83.91	43.63	1.199	1134.	.5446	34.34	87.74	.7071
#1	-.0007	.0004	184.3	-.0149	502.3	.0002	.0006	.2150
#2	-.0005	.0007	182.6	.0045	499.5	.0001	.0000	.2130
#3	.0000	.0009	187.0	.0143	504.9	.0002	.0003	.2121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	F.0016	-.0011	.0005	.0018	.0000	F.0029	F-.0024
Stddev	.0001	.0017	.0013	.0009	.0008	.0007	.0002	.0002
%RSD	30.96	106.4	120.9	187.8	41.47	3645.	8.118	10.52
#1	-.0003	.0021	-.0026	.0011	.0012	.0008	.0026	-.0021
#2	-.0006	-.0003	-.0005	.0009	.0017	-.0001	.0028	-.0024
#3	-.0004	.0029	-.0002	-.0006	.0027	-.0005	.0031	-.0026
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit		.0010					.0010	.0020
Low Limit		-.0010					-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/27/2012 14:44:37 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0020	.0006	.0013
Stddev	.0047	.0004	.0003
%RSD	241.2	63.51	18.94
#1	-.0024	.0006	.0011
#2	.0070	.0009	.0016
#3	.0014	.0002	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	909.72	2121.1	17300.	7985.6
Stddev	3.67	1.5	66.	55.8
%RSD	.40374	.06989	.38419	.69865
#1	906.33	2121.5	17228.	7979.0
#2	909.20	2119.5	17313.	8044.4
#3	913.62	2122.4	17359.	7933.4

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 14:51:26 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.104	521.7	1.063	.5679	.5116	468.1	.9709	.4901	.5104	.5888
Stddev	.004	2.6	.002	.0014	.0016	2.7	.0008	.0008	.0019	.0018
%RSD	.3965	.5076	.2115	.2428	.3188	.5783	.0838	.1655	.3806	.3123
#1	1.099	524.4	1.061	.5683	.5098	465.0	.9703	.4895	.5101	.5903
#2	1.108	519.1	1.065	.5691	.5130	469.9	.9719	.4910	.5087	.5893
#3	1.105	521.6	1.063	.5664	.5119	469.4	.9707	.4897	.5125	.5867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.7	-.0090	497.7	.4961	1.011	.1790	.9522	1.009	1.077	1.074
Stddev	.5	.0108	1.2	.0012	.001	.0021	.0005	.003	.005	.002
%RSD	.2891	120.9	.2389	.2461	.0495	1.191	.0570	.3160	.4483	.1828
#1	183.1	-.0048	496.3	.4973	1.010	.1767	.9516	1.012	1.082	1.074
#2	184.0	-.0008	498.4	.4949	1.011	.1792	.9526	1.006	1.076	1.076
#3	184.0	-.0213	498.3	.4961	1.011	.1810	.9524	1.009	1.072	1.072
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.8812	1.071	1.041	1.002	.5146	.9362
Stddev	.0030	.0024	.002	.001	.004	.0022	.0017
%RSD	109.6	.2766	.1736	.0787	.3446	.4279	.1783
#1	.0062	.8812	1.071	1.042	.9994	.5164	.9346
#2	.0007	.8788	1.073	1.041	1.002	.5121	.9360
#3	.0013	.8836	1.069	1.041	1.006	.5152	.9379
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/27/2012 14:51:26 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	905.67	2133.1	17457.	8018.2
Stddev	1.59	3.3	47.	18.4
%RSD	.17609	.15347	.26701	.22895
#1	903.91	2134.4	17403.	8036.5
#2	907.03	2129.3	17483.	7999.8
#3	906.06	2135.4	17484.	8018.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:59:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2602	42.61	2.135	2.186	2.078	40.08	2.130	2.156	2.073	2.092
Stddev	.0016	.04	.005	.001	.007	.21	.006	.006	.007	.005
%RSD	.5992	.1011	.2392	.0571	.3545	.5167	.2631	.2791	.3256	.2441
#1	.2586	42.60	2.138	2.185	2.081	40.17	2.129	2.158	2.066	2.090
#2	.2603	42.57	2.138	2.187	2.070	39.85	2.135	2.161	2.077	2.098
#3	.2617	42.65	2.129	2.187	2.084	40.23	2.124	2.150	2.077	2.088
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.48	43.05	39.05	2.084	2.172	43.05	2.138	2.031	2.153	2.162
Stddev	.13	.06	.16	.007	.006	.08	.005	.002	.009	.004
%RSD	.3279	.1297	.4146	.3527	.2885	.1913	.2258	.0943	.4031	.1770
#1	39.55	43.07	39.16	2.075	2.172	43.09	2.139	2.033	2.160	2.160
#2	39.33	42.99	38.86	2.087	2.178	43.12	2.142	2.030	2.157	2.166
#3	39.57	43.09	39.12	2.089	2.165	42.96	2.133	2.029	2.143	2.160
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.176	2.133	2.152	2.100	2.066	2.134	2.063
Stddev	.008	.004	.017	.005	.002	.003	.001
%RSD	.3729	.1773	.7700	.2286	.1051	.1585	.0386
#1	2.177	2.135	2.158	2.095	2.066	2.130	2.062
#2	2.184	2.135	2.133	2.103	2.068	2.137	2.064
#3	2.168	2.128	2.164	2.103	2.064	2.134	2.063
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/27/2012 14:59:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1123.4	2325.3	19146.	8296.1
Stddev	3.2	8.9	68.	40.5
%RSD	.28922	.38371	.35485	.48813
#1	1120.3	2319.8	19212.	8258.8
#2	1123.1	2320.6	19149.	8339.1
#3	1126.8	2335.6	19076.	8290.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/27/2012 15:10:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0021	-.0007	.0002	.0003	.0081	.0002	.0004	.0002	.0002
Stddev	.000	.0002	.0012	.0001	.0000	.0022	.0001	.0001	.0001	.0002
%RSD	6807.	9.504	164.1	33.26	10.09	27.27	23.79	32.89	84.85	73.72
#1	-.0002	.0021	-.0010	.0001	.0003	.0106	.0002	.0004	.0003	.0001
#2	.0004	.0023	-.0018	.0003	.0003	.0066	.0003	.0005	.0000	.0004
#3	-.0002	.0019	.0006	.0002	.0003	.0070	.0003	.0002	.0002	.0001
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	-.0116	.0178	.0003	.0005	.0629	.0004	.0007	.0003	.0005
Stddev	.0010	.0329	.0095	.0000	.0001	.0040	.0000	.0005	.0012	.0017
%RSD	8.038	284.1	53.39	10.17	12.09	6.326	.8305	77.46	417.0	308.6
#1	.0127	-.0194	.0255	.0003	.0005	.0598	.0005	.0004	.0017	-.0008
#2	.0108	.0246	.0208	.0002	.0006	.0614	.0004	.0013	-.0004	.0024
#3	.0122	-.0399	.0072	.0002	.0004	.0674	.0004	.0004	-.0004	.0000
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0005	.0003	.0006	.0017	.0003	.0005
Stddev	.0004	.0002	.0000	.0000	.0002	.0001	.0001
%RSD	19.65	41.20	6.283	5.618	11.53	38.62	22.98
#1	.0022	.0007	.0003	.0006	.0015	.0002	.0005
#2	.0015	.0005	.0004	.0005	.0019	.0004	.0006
#3	.0021	.0003	.0004	.0006	.0016	.0004	.0004
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Inst QC: MA9995

Zoom In
Zoom Out

Sample Name: CCB Acquired: 7/27/2012 15:10:06 Type: QC
Method: 60102007_042011(v155) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1376.7	2477.5	20490.	8736.5
Stddev	1.7	3.6	29.	12.0
%RSD	.12179	.14353	.14370	.13771
#1	1377.2	2477.9	20518.	8724.0
#2	1374.9	2480.9	20459.	8748.0
#3	1378.2	2473.8	20493.	8737.5

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.007608	0.000000	No
			Fe	0.000007	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000065	0.000000	No
			Cr	-0.000129	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 313.042 {108}	☒	2	V	0.000042	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000144	0.000000	No
			Ca	0.000002	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	2	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000004	0.000000	No
			Fe	-0.000004	0.000000	No
			Ca	0.000002	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000097	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000268	0.000000	No
			Al	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000011	0.000000	No
			Mg	0.000003	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000010	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000036	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000002	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	-0.000078	0.000000	No
			Fe	0.000020	0.000000	No
			Mo	-0.001466	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000240	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000038	0.000000	No
			Cr	0.006369	0.000000	No
			Mo	-0.002569	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	-0.000010	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	☒	12	Fe	-0.000046	0.000000	No
			Ca	0.000005	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000029	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000002	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000003	0.000000	No
Ti 334.941 {101}	☒	None				
Tl 190.856 {477}	☒	10	Co	0.003248	0.000000	No
			Fe	0.000041	0.000000	No
			Al	-0.000016	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000002	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000004	0.000000	No
			Cr	-0.001960	0.000000	No
			Mo	-0.004535	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000003	0.000000	No
			As	0.001105	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000107	0.533577	0.000000	1.000000
Al 396.152 { 85}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.005031	0.165424	0.000000	1.000000
As 189.042 {478}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001590	0.226660	0.000000	1.000000
Ba 455.403 { 74}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.004502	9.117506	0.000000	1.000000
Be 313.042 {108}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.001317	11.450023	0.000000	1.000000
Ca 317.933 {106}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003374	0.226543	0.000000	1.000000
Cd 226.502 {449}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001147	4.436575	0.000000	1.000000
Co 228.616 {447}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000928	2.426560	0.000000	1.000000
Cr 267.716 {126}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000145	0.469791	0.000000	1.000000
Cu 324.754 {104}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.005740	1.050447	0.000000	1.000000
Fe 259.940 {130}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003614	0.195998	0.000000	1.000000
In 230.606 {446}*	4/20/2011 9:03:12	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000747	0.069107	0.000000	1.000000
Mg 279.079 {121}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000224	0.024762	0.000000	1.000000
Mn 257.610 {131}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000376	2.981206	0.000000	1.000000
Mo 202.030 {467}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.001613	1.394154	0.000000	1.000000
Na 589.592 { 57}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.004213	0.290284	0.000000	1.000000
Ni 231.604 {445}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000730	1.462294	0.000000	1.000000
Pb 220.353 {453}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001170	0.857284	0.000000	1.000000
Sb 206.833 {463}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000755	0.334312	0.000000	1.000000
Se 196.090 {472}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000390	0.161762	0.000000	1.000000
Si 212.412 {459}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.009361	0.369236	0.000000	1.000000
Sn 189.989 {477}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.000804	0.438998	0.000000	1.000000
Sr 407.771 { 83}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.001545	15.885260	0.000000	1.000000
Ti 334.941 {101}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.003612	2.185732	0.000000	1.000000
Tl 190.856 {477}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.002000	0.398472	0.000000	1.000000
V 292.402 {115}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	-0.000378	0.673242	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	7/27/2012 5:26:43	7/27/2012 5:26:43	Linear	1/Conc	0.002768	1.955074	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999974	0.000037	0.000464	0.001548	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999970	0.002081	0.005318	0.017726	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999993	0.000070	0.000977	0.003256	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999888	0.011001	0.000117	0.000391	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999748	0.020704	0.000037	0.000123	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999871	0.005870	0.002068	0.006893	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999791	0.007327	0.000070	0.000232	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999773	0.004167	0.000135	0.000452	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999791	0.000773	0.000336	0.001121	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999990	0.000375	0.000222	0.000742	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999829	0.005843	0.001381	0.004604	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999971	0.000851	0.019744	0.065813	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999961	0.000354	0.013560	0.045199	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999782	0.005019	0.000048	0.000161	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999872	0.001797	0.000157	0.000524	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999968	0.003762	0.004854	0.016181	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999705	0.002863	0.000229	0.000763	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999961	0.000608	0.000674	0.002248	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999992	0.000105	0.000997	0.003324	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999988	0.000063	0.001973	0.006576	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.999918	0.000388	0.000635	0.002118	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999677	0.000899	0.000424	0.001414	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999822	0.024135	0.000045	0.000150	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999899	0.002507	0.000109	0.000364	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999974	0.000233	0.001101	0.003669	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999318	0.001991	0.000290	0.000968	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999849	0.002733	0.000116	0.000387	OK.	1.000000	0.000000	1	0

Zoom In ▶
Zoom Out

Sample Name: Blank Acquired: 7/30/2012 8:46:32 Type: Cal
Method: 60102007_041712(v258) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0017	-.0005	.0042	.0009	.0044	-.0006	-.0011	.0000
Stddev	.0001	.0005	.0001	.0008	.0002	.0003	.0002	.0002	.000
%RSD	110.4	30.39	17.18	20.31	21.08	5.932	33.28	22.33	215.9
#1	.0000	-.0021	-.0005	.0037	.0011	.0047	-.0005	-.0008	-.0001
#2	.0001	-.0018	-.0005	.0051	.0009	.0042	-.0009	-.0012	.0000
#3	.0000	-.0011	-.0006	.0036	.0007	.0043	-.0006	-.0012	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0050	.0026	.0026	-.0003	.0003	.0030	-.0001	.0009	.0061
Stddev	.0001	.0005	.0013	.0003	.0001	.0004	.0001	.0001	.0003
%RSD	1.486	18.98	49.72	100.9	30.37	12.08	180.6	8.908	4.142
#1	.0050	.0031	.0036	.0000	.0003	.0034	.0000	.0008	.0064
#2	.0049	.0025	.0032	-.0004	.0002	.0031	.0000	.0010	.0059
#3	.0051	.0022	.0011	-.0004	.0003	.0027	-.0002	.0010	.0061

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	-.0001	.0054	.0009	-.0040	.0020	-.0037	-.0003	.0024
Stddev	.0001	.0001	.0000	.0001	.0001	.0001	.0004	.0002	.0000
%RSD	26.00	175.2	.4053	6.104	3.440	6.619	11.08	60.08	1.807
#1	.0004	-.0002	.0054	.0010	-.0040	.0021	-.0041	-.0005	.0025
#2	.0002	-.0001	.0054	.0009	-.0039	.0020	-.0033	-.0002	.0024
#3	.0003	.0001	.0054	.0009	-.0041	.0018	-.0037	-.0001	.0024

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2877.3	6506.1	48815.	10855.
Stddev	3.8	4.7	259.	80.
%RSD	.13171	.07218	.53138	.73615
#1	2873.7	6500.8	48600.	10906.
#2	2877.0	6509.7	48741.	10896.
#3	2881.3	6507.7	49103.	10763.

◀ Zoom In ▶
Zoom Out

Sample Name: LowStd Acquired: 7/30/2012 8:51:16 Type: Cal
Method: 60102007_041712(v258) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0254	1.406	.0863	3.820	4.209	2.700	2.386	1.145	.2014	.3141
Stddev	.0001	.003	.0001	.008	.015	.010	.005	.001	.0003	.0005
%RSD	.5599	.1764	.1623	.2010	.3657	.3675	.2195	.0965	.1698	.1611
#1	.0256	1.408	.0865	3.827	4.224	2.711	2.389	1.146	.2016	.3135
#2	.0253	1.405	.0862	3.812	4.194	2.695	2.390	1.144	.2010	.3145
#3	.0253	1.404	.0863	3.821	4.209	2.693	2.380	1.144	.2016	.3142

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.722	.7076	.2512	1.100	.5854	2.911	.6370	.4946	.1167	.0645
Stddev	.004	.0005	.0013	.002	.0004	.004	.0004	.0011	.0002	.0005
%RSD	.2098	.0702	.5046	.1626	.0600	.1255	.0587	.2264	.1761	.7262
#1	1.726	.7078	.2525	1.101	.5853	2.915	.6371	.4958	.1170	.0643
#2	1.720	.7070	.2512	1.102	.5858	2.907	.6373	.4943	.1166	.0642
#3	1.719	.7080	.2500	1.098	.5851	2.910	.6365	.4936	.1167	.0651

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1533	.2222	6.241	.6939	.2316	.2733	1.168
Stddev	.0002	.0002	.014	.0022	.0001	.0004	.004
%RSD	.1584	.0905	.2315	.3200	.0429	.1633	.3055
#1	.1531	.2223	6.249	.6914	.2315	.2738	1.171
#2	.1536	.2223	6.224	.6955	.2316	.2730	1.169
#3	.1532	.2220	6.249	.6948	.2317	.2731	1.164

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.3	6451.7	48353.	10921.
Stddev	5.2	10.5	82.	68.
%RSD	.18965	.16298	.16895	.62046
#1	2738.8	6442.2	48259.	10852.
#2	2739.8	6449.9	48394.	10925.
#3	2748.3	6463.0	48407.	10987.

◀ Zoom In ▶
Zoom Out

Sample Name: MidStd Acquired: 7/30/2012 8:56:55 Type: Cal
Method: 60102007_041712(v258) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1004	5.431	.3455	15.11	16.44	10.28	9.228	4.405	.7775	1.218
Stddev	.0002	.012	.0008	.07	.08	.03	.002	.003	.0014	.003
%RSD	.2266	.2198	.2266	.4323	.4686	.3097	.0229	.0747	.1776	.2129
#1	.1007	5.445	.3453	15.19	16.53	10.32	9.226	4.403	.7785	1.216
#2	.1002	5.422	.3448	15.08	16.41	10.26	9.230	4.404	.7759	1.221
#3	.1004	5.427	.3464	15.07	16.39	10.27	9.228	4.409	.7779	1.216

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.435	2.780	.9664	4.260	2.320	11.39	2.437	1.983	.4585	.2547
Stddev	.014	.012	.0010	.004	.004	.04	.002	.004	.0003	.0005
%RSD	.2144	.4170	.1076	.0940	.1562	.3088	.0908	.1869	.0604	.2131
#1	6.448	2.793	.9671	4.264	2.316	11.43	2.437	1.982	.4582	.2553
#2	6.420	2.772	.9668	4.262	2.321	11.36	2.435	1.987	.4588	.2545
#3	6.436	2.774	.9652	4.256	2.322	11.38	2.440	1.980	.4585	.2544

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6168	.8736	25.02	2.799	.9374	1.097	4.502
Stddev	.0017	.0011	.10	.004	.0024	.002	.004
%RSD	.2821	.1228	.4181	.1278	.2553	.1445	.0799
#1	.6169	.8726	25.15	2.802	.9364	1.098	4.500
#2	.6150	.8735	24.96	2.795	.9401	1.096	4.506
#3	.6185	.8748	24.97	2.800	.9356	1.095	4.500

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2494.4	6240.1	46843.	10805.
Stddev	5.4	2.4	35.	37.
%RSD	.21639	.03881	.07493	.34340
#1	2493.9	6240.3	46812.	10797.
#2	2489.3	6242.4	46835.	10772.
#3	2500.0	6237.5	46881.	10845.

◀ Zoom In ▶
Zoom Out

Sample Name: HighStd Acquired: 7/30/2012 9:02:00 Type: Cal
Method: 60102007_041712(v258) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2019	10.81	.6961	29.51	32.11	20.29	18.12	8.685	1.528	2.429
Stddev	.0011	.02	.0008	.74	.26	.08	.02	.009	.004	.002
%RSD	.5435	.2048	.1130	2.499	.8129	.3810	.0986	.0999	.2960	.0770
#1	.2026	10.82	.6967	29.96	32.25	20.35	18.14	8.693	1.526	2.430
#2	.2025	10.78	.6953	28.66	31.81	20.20	18.11	8.685	1.533	2.430
#3	.2006	10.82	.6965	29.91	32.28	20.33	18.10	8.676	1.525	2.427

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12.82	5.574	1.918	8.239	4.597	22.74	4.786	4.100	.9191	.5109
Stddev	.04	.009	.009	.024	.005	.03	.006	.006	.0011	.0006
%RSD	.3018	.1533	.4486	.2872	.1198	.1258	.1169	.1513	.1161	.1162
#1	12.83	5.572	1.923	8.228	4.600	22.74	4.790	4.104	.9203	.5111
#2	12.78	5.566	1.908	8.267	4.601	22.71	4.780	4.103	.9185	.5113
#3	12.85	5.583	1.923	8.224	4.591	22.76	4.789	4.093	.9185	.5102

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.222	1.698	48.56	5.448	1.908	2.069	8.854
Stddev	.001	.001	.40	.012	.005	.004	.008
%RSD	.1127	.0789	.8141	.2265	.2756	.1724	.0904
#1	1.223	1.699	48.70	5.450	1.911	2.067	8.863
#2	1.222	1.697	48.12	5.435	1.910	2.073	8.848
#3	1.220	1.698	48.87	5.460	1.902	2.066	8.851

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2305.2	6083.0	46003.	10743.
Stddev	2.5	4.4	197.	82.
%RSD	.10827	.07190	.42794	.75994
#1	2302.4	6079.2	45935.	10671.
#2	2305.9	6087.8	45850.	10831.
#3	2307.3	6082.1	46225.	10726.

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 9:09:35 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4999	79.60	4.022	3.975	3.957	79.27	3.957	3.967	3.934	3.984
Stddev	.0035	.15	.006	.035	.007	.24	.004	.003	.009	.013
%RSD	.6927	.1825	.1581	.8771	.1829	.2972	.1075	.0701	.2305	.3143
#1	.5031	79.52	4.015	3.989	3.961	79.09	3.952	3.964	3.944	3.993
#2	.4962	79.77	4.026	4.001	3.961	79.53	3.958	3.968	3.932	3.970
#3	.5006	79.52	4.026	3.935	3.949	79.17	3.960	3.970	3.926	3.989
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.83	80.32	79.71	3.902	3.979	79.68	3.974	4.037	4.019	4.011
Stddev	.10	.15	.12	.014	.005	.13	.004	.012	.004	.007
%RSD	.1304	.1906	.1554	.3565	.1343	.1613	.1134	.2854	.1047	.1743
#1	79.95	80.46	79.61	3.918	3.973	79.62	3.969	4.031	4.022	4.006
#2	79.78	80.33	79.85	3.891	3.982	79.83	3.978	4.029	4.015	4.009
#3	79.76	80.16	79.66	3.897	3.982	79.59	3.976	4.050	4.022	4.019
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.019	3.957	3.927	3.954	4.001	3.896	3.953
Stddev	.003	.005	.083	.032	.012	.006	.004
%RSD	.0720	.1316	2.113	.7975	.3066	.1588	.1055
#1	4.017	3.951	3.852	3.990	3.998	3.903	3.949
#2	4.018	3.959	3.911	3.932	3.990	3.892	3.952
#3	4.022	3.961	4.016	3.940	4.014	3.893	3.957
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 9:09:35 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2301.5	6055.2	46040.	10747.
Stddev	4.8	7.2	131.	23.
%RSD	.21064	.11883	.28423	.21403
#1	2305.4	6059.5	45907.	10762.
#2	2303.0	6046.9	46045.	10720.
#3	2296.1	6059.1	46169.	10758.

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 9:18:00 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2475	39.88	1.946	2.091	2.028	40.31	2.001	2.016	1.999	1.978
Stddev	.0011	.12	.002	.007	.003	.13	.004	.002	.003	.005
%RSD	.4621	.2987	.1128	.3329	.1250	.3267	.1990	.0876	.1569	.2710
#1	.2463	39.75	1.945	2.085	2.026	40.18	1.998	2.014	1.999	1.983
#2	.2475	39.99	1.949	2.098	2.031	40.44	2.000	2.016	1.996	1.972
#3	.2486	39.89	1.945	2.089	2.028	40.32	2.005	2.018	2.002	1.979
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.99	40.20	40.05	2.013	1.928	40.85	2.010	1.937	1.962	2.008
Stddev	.12	.20	.14	.003	.005	.14	.003	.001	.003	.002
%RSD	.3006	.5010	.3564	.1359	.2750	.3509	.1241	.0618	.1275	.0953
#1	40.85	40.00	39.90	2.016	1.922	40.70	2.008	1.937	1.964	2.008
#2	41.08	40.41	40.18	2.011	1.928	40.98	2.009	1.939	1.959	2.010
#3	41.04	40.20	40.07	2.011	1.933	40.89	2.013	1.937	1.963	2.006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420	1.890	2.003	1.944	2.044	1.991	2.012
Stddev	.0005	.001	.003	.004	.004	.002	.004
%RSD	1.126	.0421	.1662	.1933	.2188	.0748	.1842
#1	.0424	1.889	2.000	1.941	2.045	1.993	2.009
#2	.0419	1.890	2.006	1.943	2.048	1.990	2.011
#3	.0415	1.891	2.003	1.949	2.039	1.990	2.016
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 9:18:00 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2499.1	6276.0	47108.	10808.
Stddev	2.1	8.1	101.	25.
%RSD	.08416	.12847	.21515	.23320
#1	2500.2	6283.2	47102.	10808.
#2	2496.7	6277.4	47213.	10783.
#3	2500.4	6267.3	47010.	10834.

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 9:29:47 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0086	.0015	.0000	.0000	.0011	.0000	.0000	.0000	.0002
Stddev	.0002	.0028	.0005	.0002	.000	.0009	.0000	.0001	.000	.0002
%RSD	153.5	32.63	35.24	923.8	339.9	76.32	338.6	246.8	902.3	112.8
#1	.0003	.0118	.0021	-.0002	.0000	.0004	.0000	-.0001	.0001	.0002
#2	.0000	.0075	.0012	.0001	.0000	.0010	.0000	.0001	.0000	.0003
#3	.0000	.0065	.0012	.0001	.0000	.0021	.0000	.0000	-.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0050	-.0075	.0073	.0000	-.0001	.0013	.0000	.0006	-.0002	.0007
Stddev	.0005	.0014	.0009	.000	.0002	.0026	.0001	.0004	.0004	.0005
%RSD	10.64	18.41	12.56	433.3	256.8	199.7	915.3	76.63	211.2	72.32
#1	-.0045	-.0081	.0078	.0000	.0001	.0044	.0000	.0006	-.0005	.0007
#2	-.0050	-.0060	.0063	.0000	-.0001	.0001	.0001	.0001	-.0004	.0012
#3	-.0055	-.0086	.0079	-.0001	-.0002	-.0004	-.0001	.0009	.0003	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0005	.0000	-.0001	.0007	.0002	.0000
Stddev	.0003	.0002	.000	.0001	.0006	.0001	.0000
%RSD	62.47	46.17	171.6	128.0	92.95	36.04	110.6
#1	-.0003	.0007	-.0001	.0000	.0000	.0001	.0000
#2	-.0007	.0005	.0000	-.0001	.0012	.0002	.0000
#3	-.0002	.0003	.0000	-.0001	.0008	.0003	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 9:29:47 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.2	6559.9	49265.	10988.
Stddev	3.8	6.2	66.	17.
%RSD	.13077	.09514	.13391	.15851
#1	2877.9	6559.7	49336.	10978.
#2	2883.6	6553.8	49205.	11008.
#3	2885.1	6566.3	49256.	10977.

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 9:33:36 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099	.2168	.0111	.2081	.0054	1.061	.0059	.0540	.0103	.0262
Stddev	.0002	.0002	.0006	.0006	.0000	.004	.0000	.0002	.0002	.0001
%RSD	2.091	.0809	5.295	.2830	.2099	.3899	.2086	.4433	2.383	.4562
#1	.0101	.2167	.0107	.2076	.0054	1.058	.0059	.0542	.0105	.0261
#2	.0098	.2169	.0116	.2085	.0054	1.064	.0059	.0538	.0102	.0263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3098	10.09	5.210	.0161	.0492	10.24	.0430	.0052	.0051	.0115
Stddev	.0030	.05	.048	.0000	.0002	.01	.0003	.0004	.0001	.0000
%RSD	.9605	.5280	.9232	.0350	.4400	.0663	.6488	7.794	1.357	.1840
#1	.3119	10.05	5.176	.0161	.0493	10.24	.0432	.0055	.0051	.0115
#2	.3076	10.13	5.244	.0161	.0490	10.25	.0428	.0049	.0052	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0520	.0105	.0100	.0115	.0528	.0226
Stddev	.0004	.0001	.0001	.0000	.0003	.0000	.0001
%RSD	8.142	.2840	.5269	.1071	2.936	.0413	.3588
#1	.0041	.0521	.0105	.0099	.0117	.0528	.0226
#2	.0046	.0519	.0105	.0100	.0112	.0528	.0225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 9:33:36 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2804.7	6475.0	48681.	10913.
Stddev	.5	5.0	213.	31.
%RSD	.01766	.07697	.43657	.28808
#1	2805.0	6478.5	48831.	10935.
#2	2804.3	6471.4	48530.	10891.

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 9:39:26 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0065	.0005	.0003	.0000	.0043	.0001	-.0001	.0001	-.0009
Stddev	.0001	.0034	.0008	.0001	.0000	.0006	.0000	.0000	.0001	.0002
%RSD	45.58	52.82	169.1	27.27	186.0	13.64	58.19	32.59	51.01	25.05
#1	.0004	.0044	-.0004	.0002	.0000	.0037	.0001	-.0001	.0001	-.0007
#2	.0002	.0104	.0008	.0003	.0000	.0043	.0000	-.0001	.0001	-.0012
#3	.0004	.0046	.0011	.0003	.0000	.0049	.0000	-.0002	.0002	-.0008
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0057	.0000	.0044	.0000	-.0015	.0138	-.0004	.0006	.0001	.0016
Stddev	.0017	.0119	.0025	.0000	.0001	.0026	.0001	.0003	.0010	.0015
%RSD	30.34	40890.	55.38	170.3	4.329	18.74	25.36	51.85	776.4	92.08
#1	-.0065	-.0036	.0016	.0001	-.0015	.0140	-.0004	.0002	.0000	.0032
#2	-.0037	.0133	.0056	.0000	-.0016	.0111	-.0005	.0007	-.0008	.0013
#3	-.0068	-.0096	.0061	.0000	-.0015	.0163	-.0003	.0008	.0012	.0003
Check ?	None	None	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.93	-.0014	.0000	-.0002	-.0002	.0002	-.0002
Stddev	.10	.0003	.0000	.0001	.0006	.0002	.0001
%RSD	.2360	21.84	121.2	50.45	307.7	67.92	28.42
#1	44.05	-.0017	.0000	-.0002	-.0001	.0003	-.0002
#2	43.91	-.0012	.0000	-.0001	.0003	.0003	-.0002
#3	43.85	-.0012	.0000	-.0003	-.0008	.0001	-.0001
Check ?	Chk Pass	None	None	None	None	None	None
Value							
Range							

Zoom In Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 9:39:26 Type: QC
Method: 60102007_041712(v258) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2889.5	6600.4	49376.	11070.
Stddev	3.7	20.4	109.	33.
%RSD	.12850	.30891	.21993	.30025
#1	2886.3	6578.3	49375.	11103.
#2	2893.6	6604.4	49267.	11036.
#3	2888.7	6618.4	49484.	11071.

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 9:43:30 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	487.1	.0005	F.0056	.0001	465.8	.0000	.0004
Stddev	.0002	6.0	.0011	.0002	.0000	2.5	.000	.0001
%RSD	82.00	1.232	197.9	4.043	75.83	.5471	393.8	19.93
#1	.0001	483.3	-.0005	.0054	.0001	467.1	.0001	.0005
#2	.0002	494.0	.0005	.0056	.0001	467.4	-.0002	.0003
#3	.0005	483.9	.0016	.0059	.0000	462.8	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0003	177.0	.0133	485.2	-.0002	-.0007	.0819
Stddev	.0001	.0003	1.5	.0020	.2	.0001	.0001	.0043
%RSD	28.88	93.71	.8337	15.25	.0449	31.95	16.83	5.266
#1	-.0003	-.0005	175.3	.0124	485.0	-.0002	-.0009	.0823
#2	-.0002	.0000	178.1	.0157	485.4	-.0001	-.0007	.0774
#3	-.0002	-.0005	177.6	.0119	485.3	-.0002	-.0006	.0860
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0000	.0008	.0283	F-.0020	F.0055	F-.0020
Stddev	.0001	.0018	.001	.0009	.0007	.0002	.0000	.0000
%RSD	1111.	7533.	10120.	121.6	2.646	9.709	.7682	2.363
#1	-.0001	.0006	.0010	.0003	.0289	-.0018	.0054	-.0021
#2	.0000	-.0020	-.0011	.0002	.0285	-.0022	.0055	-.0020
#3	.0002	.0014	.0001	.0018	.0274	-.0021	.0055	-.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail	Chk Fail	Chk Fail
High Limit						.0010	.0010	.0020
Low Limit						-.0010	-.0010	-.0020

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 9:43:30 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0000	-.0009	.0001
Stddev	.0017	.0002	.0000
%RSD	5084.	24.94	27.92
#1	-.0011	-.0007	.0001
#2	.0020	-.0011	.0001
#3	-.0008	-.0008	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2220.8	5813.5	42982.	10599.
Stddev	1.7	11.0	152.	23.
%RSD	.07607	.18973	.35475	.21425
#1	2220.3	5825.2	43103.	10596.
#2	2219.5	5811.9	43032.	10578.
#3	2222.7	5803.3	42810.	10623.

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 9:52:12 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.013	489.8	1.005	.5266	.5033	464.4	.9384	.4713	.5127	.5452
Stddev	.003	1.6	.003	.0022	.0015	4.1	.0007	.0004	.0006	.0007
%RSD	.2692	.3276	.2950	.4264	.3005	.8926	.0762	.0927	.1146	.1341
#1	1.014	488.2	1.007	.5240	.5024	468.3	.9388	.4715	.5133	.5448
#2	1.016	491.4	1.007	.5279	.5050	464.7	.9376	.4716	.5124	.5460
#3	1.010	489.9	1.002	.5279	.5024	460.0	.9389	.4708	.5123	.5447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	182.0	-.0022	493.5	.4922	.9671	.0813	.9112	.9635	1.005	1.004
Stddev	1.1	.0131	.6	.0018	.0004	.0049	.0007	.0027	.001	.001
%RSD	.5834	605.1	.1274	.3613	.0388	5.991	.0760	.2762	.1421	.0928
#1	181.0	.0100	492.9	.4935	.9671	.0866	.9115	.9614	1.007	1.003
#2	183.1	-.0160	494.2	.4901	.9668	.0770	.9104	.9625	1.005	1.004
#3	182.0	-.0005	493.5	.4929	.9675	.0804	.9116	.9665	1.004	1.005
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.8651	1.014	1.019	.9655	.5066	.9317
Stddev	.0011	.0010	.001	.003	.0017	.0012	.0007
%RSD	10.34	.1101	.1377	.2812	.1752	.2309	.0733
#1	.0115	.8655	1.013	1.018	.9636	.5079	.9324
#2	.0103	.8641	1.015	1.022	.9664	.5059	.9310
#3	.0093	.8658	1.013	1.016	.9666	.5059	.9317
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 9:52:12 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2179.9	5817.8	42683.	10514.
Stddev	2.4	6.6	84.	36.
%RSD	.10979	.11323	.19789	.33850
#1	2181.8	5810.2	42658.	10490.
#2	2180.6	5820.5	42614.	10497.
#3	2177.2	5822.5	42777.	10555.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:07:13 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	40.18	1.978	2.030	2.048	40.22	2.019	2.014	2.026	1.979
Stddev	.0012	.06	.001	.001	.005	.04	.002	.002	.005	.003
%RSD	.4739	.1473	.0546	.0402	.2431	.0869	.0987	.0898	.2595	.1364
#1	.2470	40.23	1.977	2.029	2.053	40.25	2.019	2.015	2.023	1.977
#2	.2491	40.19	1.979	2.030	2.047	40.18	2.021	2.014	2.032	1.982
#3	.2472	40.11	1.978	2.031	2.044	40.23	2.017	2.012	2.022	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.33	39.69	39.75	2.022	2.026	40.31	1.992	1.983	1.969	1.977
Stddev	.07	.05	.05	.004	.002	.05	.002	.002	.000	.004
%RSD	.1848	.1357	.1165	.1761	.0807	.1281	.1039	.1070	.0223	.1827
#1	39.26	39.62	39.79	2.019	2.025	40.37	1.991	1.981	1.969	1.981
#2	39.41	39.73	39.75	2.026	2.028	40.28	1.992	1.983	1.968	1.974
#3	39.33	39.71	39.70	2.022	2.027	40.28	1.995	1.985	1.969	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994	2.021	2.055	2.008	2.015	2.067	2.021
Stddev	.001	.002	.023	.006	.003	.006	.001
%RSD	.0436	.0794	1.134	.3226	.1483	.2874	.0555
#1	1.994	2.020	2.028	2.008	2.012	2.062	2.020
#2	1.993	2.023	2.068	2.015	2.017	2.074	2.022
#3	1.995	2.022	2.068	2.002	2.016	2.066	2.021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:07:13 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.8	6286.9	46832.	10837.
Stddev	3.2	4.1	185.	73.
%RSD	.12935	.06582	.39459	.67299
#1	2492.1	6284.1	46849.	10760.
#2	2485.7	6284.9	46639.	10904.
#3	2488.7	6291.7	47008.	10849.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:16:53 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0050	.0012	-.0001	.0000	.0006	.0001	.0002	.0000	.0001
Stddev	.0001	.0010	.0006	.0000	.000	.0009	.0002	.0001	.000	.0001
%RSD	43.73	19.97	54.70	29.94	53.17	146.8	148.6	43.87	492.5	151.1
#1	.0001	.0044	.0016	-.0001	-.0001	-.0003	.0000	.0002	-.0001	.0001
#2	.0001	.0061	.0004	-.0001	.0000	.0007	.0000	.0001	.0002	.0000
#3	.0002	.0044	.0015	-.0001	.0000	.0015	.0003	.0003	-.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0061	-.0002	-.0001	-.0002	-.0004	.0002	.0004	.0002	.0010
Stddev	.0014	.0201	.0106	.0000	.0002	.0047	.0003	.0009	.0003	.0003
%RSD	112.6	330.6	4527.	37.29	125.7	1149.	172.5	199.8	168.2	28.86
#1	.0014	.0122	-.0079	-.0001	.0001	-.0021	.0000	-.0006	-.0001	.0009
#2	.0027	-.0276	.0119	.0000	-.0003	.0049	.0001	.0010	.0003	.0014
#3	-.0002	-.0028	-.0047	-.0001	-.0003	-.0040	.0005	.0009	.0004	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0000	.0000	-.0002	.0004	.0004	.0001
Stddev	.0002	.000	.000	.0001	.0009	.0001	.0002
%RSD	25.30	5522.	163.6	29.03	204.4	21.16	155.3
#1	.0006	.0001	-.0001	-.0001	.0015	.0004	.0000
#2	.0007	-.0002	.0000	-.0003	-.0003	.0003	.0001
#3	.0010	.0001	.0000	-.0003	.0001	.0003	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:16:53 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.1	6554.7	49191.	10883.
Stddev	6.3	3.7	109.	5.
%RSD	.22028	.05701	.22236	.04451
#1	2871.6	6554.4	49260.	10879.
#2	2869.5	6551.2	49065.	10889.
#3	2881.3	6558.6	49248.	10881.

Zoom In Zoom Out

Sample Name: MP23319-MB1 Acquired: 7/30/2012 10:29:56 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0009	.0009	-.0001	.0000	.0085	.0000	.0000	-.0001	-.0010
Stddev	.0002	.0077	.0005	.0001	.000	.0015	.000	.0001	.0002	.0001
%RSD	904.7	851.5	51.52	138.3	75.28	18.14	203.0	5154.	140.7	12.25
#1	-.0001	.0050	.0004	.0000	.0000	.0102	-.0001	.0000	-.0003	-.0011
#2	.0002	-.0079	.0012	.0000	-.0001	.0072	.0000	-.0001	.0001	-.0011
#3	.0000	.0057	.0011	-.0001	-.0001	.0079	.0000	.0001	-.0001	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0099	.0018	.0000	-.0018	-.0025	.0001	.0006	-.0002	.0011
Stddev	.0013	.0120	.0039	.000	.0001	.0033	.0002	.0004	.0009	.0008
%RSD	13.40	121.0	219.1	48.96	3.429	129.2	173.0	62.72	398.7	69.27
#1	-.0087	-.0139	.0058	.0000	-.0018	-.0003	-.0001	.0003	.0002	.0008
#2	-.0095	-.0194	-.0019	.0000	-.0017	-.0063	.0003	.0010	.0003	.0005
#3	-.0113	.0036	.0014	.0000	-.0018	-.0011	.0001	.0005	-.0013	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0019	.0000	-.0007	.0000	.0000	-.0003
Stddev	.0004	.0001	.0000	.0001	.0005	.0000	.0000
%RSD	20.92	4.915	384.0	11.16	2209.	128.0	3.541
#1	.0019	-.0018	.0000	-.0007	-.0004	.0001	-.0003
#2	.0021	-.0020	.0000	-.0006	-.0001	.0000	-.0003
#3	.0014	-.0019	.0000	-.0007	.0006	.0001	-.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23319-MB1 Acquired: 7/30/2012 10:29:56 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2906.5	6604.2	49660.	11098.
Stddev	4.6	10.3	118.	96.
%RSD	.15764	.15587	.23749	.86461
#1	2910.8	6615.5	49596.	11031.
#2	2901.7	6595.3	49796.	11055.
#3	2906.9	6601.8	49587.	11208.

Zoom In Zoom Out

Sample Name: MP23319-B1 Acquired: 7/30/2012 10:34:12 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459	26.40	1.845	1.985	.0497	24.65	.0480	.4831	.1954	.2395
Stddev	.0005	.06	.003	.005	.0000	.13	.0000	.0009	.0009	.0001
%RSD	1.045	.2438	.1393	.2473	.0624	.5181	.0770	.1856	.4380	.0473
#1	.0464	26.42	1.844	1.984	.0497	24.72	.0480	.4833	.1964	.2395
#2	.0454	26.45	1.843	1.991	.0497	24.72	.0480	.4821	.1951	.2394
#3	.0458	26.33	1.848	1.981	.0496	24.50	.0479	.4839	.1948	.2396
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.56	24.00	23.98	.4862	.4757	24.34	.4864	.4489	.4724	1.878
Stddev	.05	.09	.14	.0017	.0010	.08	.0011	.0013	.0011	.003
%RSD	.2132	.3847	.5945	.3416	.2130	.3085	.2173	.2977	.2327	.1722
#1	25.55	24.05	24.06	.4881	.4750	24.35	.4867	.4495	.4732	1.875
#2	25.62	24.06	24.06	.4854	.4753	24.41	.4853	.4474	.4712	1.879
#3	25.51	23.90	23.81	.4851	.4769	24.26	.4874	.4499	.4729	1.881
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.4752	.4824	.4637	1.849	.4827	.4828
Stddev	.0006	.0009	.0005	.0031	.005	.0014	.0008
%RSD	20.31	.1843	.1063	.6736	.2858	.2959	.1608
#1	.0035	.4753	.4824	.4660	1.849	.4844	.4831
#2	.0023	.4742	.4829	.4602	1.843	.4817	.4819
#3	.0031	.4760	.4819	.4651	1.854	.4822	.4833
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23319-B1 Acquired: 7/30/2012 10:34:12 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2688.7	6471.8	48743.	11068.
Stddev	5.1	5.6	337.	119.
%RSD	.19078	.08632	.69214	1.0729
#1	2684.5	6468.2	48411.	10990.
#2	2694.4	6478.3	49086.	11010.
#3	2687.1	6469.1	48733.	11205.

Zoom In Zoom Out

Sample Name: F95272-1 Acquired: 7/30/2012 10:38:09 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.0451	.0015	.1152	.0000	26.80	-.0001	.0001	.0002	-.0010
Stddev	.0003	.0035	.0009	.0002	.0001	.15	.0001	.0001	.0001	.0001
%RSD	410.4	7.796	65.06	.1370	1005.	.5447	53.48	246.3	55.43	12.20
#1	.0000	.0417	.0024	.1151	.0001	26.84	.0000	-.0001	.0002	-.0010
#2	.0004	.0450	.0014	.1153	.0000	26.93	-.0001	.0001	.0001	-.0011
#3	-.0002	.0487	.0006	.1150	.0000	26.64	-.0001	.0002	.0003	-.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3807	19.75	22.72	.0854	.0140	32.28	.0007	-.0011	-.0007	.0001
Stddev	.0053	.02	.23	.0002	.0001	.06	.0000	.0003	.0004	.0010
%RSD	1.394	.1254	.9955	.1940	.8840	.1908	3.894	22.95	48.05	1510.
#1	.3868	19.74	22.77	.0855	.0142	32.27	.0008	-.0010	-.0004	-.0002
#2	.3772	19.78	22.91	.0852	.0139	32.35	.0007	-.0014	-.0011	.0012
#3	.3781	19.74	22.47	.0855	.0140	32.22	.0007	-.0010	-.0007	-.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.435	-.0021	.1400	.0023	-.0012	.0005	.0011
Stddev	.004	.0002	.0004	.0003	.0007	.0001	.0000
%RSD	.1656	10.18	.3127	14.35	54.51	26.87	1.258
#1	2.433	-.0022	.1401	.0026	-.0010	.0006	.0011
#2	2.432	-.0022	.1404	.0021	-.0007	.0004	.0011
#3	2.439	-.0018	.1396	.0021	-.0020	.0004	.0011

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2707.5	6358.6	47904.	11022.
Stddev	1.5	5.7	19.	123.
%RSD	.05529	.08970	.04018	1.1194
#1	2707.3	6359.5	47923.	11001.
#2	2706.1	6363.8	47885.	10911.
#3	2709.1	6352.5	47904.	11155.

Zoom In Zoom Out

Sample Name: MP23319-D1 Acquired: 7/30/2012 10:42:20 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0363	.0013	.1169	.0000	27.31	-.0001	.0000	.0003	-.0011
Stddev	.0001	.0049	.0003	.0003	.000	.08	.0000	.0001	.0002	.0002
%RSD	37.89	13.47	21.97	.2957	52.32	.2789	19.80	249.6	63.70	20.56
#1	.0003	.0353	.0013	.1168	.0000	27.36	-.0001	.0001	.0001	-.0014
#2	.0004	.0415	.0011	.1166	-.0001	27.22	-.0001	-.0001	.0005	-.0010
#3	.0002	.0319	.0016	.1173	.0000	27.35	-.0001	.0001	.0003	-.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3776	20.12	23.16	.0868	.0138	32.96	.0011	-.0015	-.0008	-.0008
Stddev	.0029	.06	.12	.0003	.0001	.09	.0001	.0005	.0002	.0017
%RSD	.7595	.3006	.4984	.3113	1.060	.2852	6.159	34.81	23.70	208.0
#1	.3744	20.10	23.21	.0871	.0139	33.02	.0010	-.0021	-.0008	.0005
#2	.3798	20.08	23.03	.0865	.0139	32.85	.0011	-.0011	-.0006	-.0003
#3	.3787	20.19	23.25	.0867	.0136	33.00	.0011	-.0014	-.0009	-.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.465	-.0023	.1427	.0020	-.0020	.0004	.0007
Stddev	.005	.0002	.0003	.0001	.0006	.0001	.0000
%RSD	.1951	9.499	.1795	3.752	30.73	34.14	3.985
#1	2.460	-.0025	.1430	.0021	-.0026	.0004	.0007
#2	2.465	-.0023	.1425	.0019	-.0015	.0003	.0006
#3	2.470	-.0021	.1427	.0020	-.0018	.0005	.0007

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2722.7	6429.3	48464.	11056.
Stddev	7.7	8.5	215.	44.
%RSD	.28141	.13258	.44397	.39517
#1	2723.5	6431.8	48262.	11062.
#2	2714.7	6419.8	48441.	11096.
#3	2729.9	6436.3	48690.	11009.

Zoom In
Zoom Out

Sample Name: MP23319-SD1 Acquired: 7/30/2012 10:46:31 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 5.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0023	.0516	.0018	.1313	-.0001	32.47	-.0003	.0001	.0006	-.0005
Stddev	.0008	.0180	.0017	.0009	.0001	.02	.0003	.0001	.0008	.0006
%RSD	36.99	34.85	92.80	.6487	50.47	.0620	111.8	41.90	132.9	120.1
#1	.0021	.0626	.0036	.1318	-.0002	32.49	-.0006	.0001	.0012	-.0011
#2	.0032	.0614	.0003	.1303	-.0001	32.47	.0000	.0001	.0008	.0000
#3	.0015	.0309	.0015	.1317	-.0002	32.45	-.0002	.0002	-.0003	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3551	21.90	26.08	.0974	.0058	36.83	.0003	.0010	.0005	.0030
Stddev	.0028	.07	.10	.0001	.0004	.02	.0006	.0002	.0058	.0024
%RSD	.7847	.3095	.4022	.0843	7.532	.0482	206.2	23.06	1217.	81.00
#1	.3520	21.90	26.20	.0973	.0059	36.81	-.0004	.0008	.0011	.0048
#2	.3572	21.83	26.00	.0974	.0054	36.82	.0004	.0012	.0059	.0038
#3	.3562	21.97	26.04	.0974	.0062	36.85	.0008	.0009	-.0056	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.705	-.0049	.1656	.0004	-.0039	.0014	.0090
Stddev	.013	.0011	.0005	.0005	.0013	.0002	.0005
%RSD	.4622	21.54	.2884	105.8	32.65	17.86	5.027
#1	2.692	-.0051	.1660	.0003	-.0051	.0016	.0087
#2	2.706	-.0059	.1651	.0010	-.0025	.0011	.0095
#3	2.717	-.0038	.1657	.0001	-.0042	.0013	.0088

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2822.5	6501.1	48846.	11027.
Stddev	1.3	11.9	237.	8.
%RSD	.04484	.18375	.48464	.07145
#1	2823.6	6514.9	48580.	11027.
#2	2821.1	6493.4	49034.	11036.
#3	2822.9	6495.1	48924.	11020.

Zoom In
Zoom Out

Sample Name: MP23319-PS1 Acquired: 7/30/2012 10:50:44 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0473	2.533	.1025	.3671	.0531	32.17	.0526	.0523	.0526	.1027
Stddev	.0002	.002	.0012	.0006	.0002	.05	.0002	.0002	.0003	.0004
%RSD	.3852	.0698	1.154	.1535	.3687	.1536	.3923	.3156	.4995	.3935
#1	.0473	2.533	.1015	.3666	.0529	32.12	.0524	.0522	.0524	.1029
#2	.0471	2.535	.1022	.3672	.0532	32.19	.0526	.0522	.0529	.1023
#3	.0474	2.531	.1038	.3677	.0533	32.21	.0528	.0525	.0526	.1030

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.433	29.45	27.22	.1354	.1170	42.12	.1037	.0465	.1008	.1001
Stddev	.003	.02	.02	.0004	.0006	.05	.0005	.0005	.0005	.0005
%RSD	.0843	.0597	.0882	.2916	.5538	.1090	.4574	1.085	.5079	.4704
#1	3.436	29.44	27.20	.1353	.1167	42.07	.1032	.0460	.1004	.0996
#2	3.431	29.44	27.25	.1358	.1166	42.13	.1038	.0468	.1007	.1001
#3	3.432	29.47	27.22	.1350	.1178	42.16	.1041	.0468	.1014	.1005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.399	.0451	.1907	.1020	.0965	.0527	.2958
Stddev	.010	.0004	.0003	.0007	.0003	.0001	.0010
%RSD	.4216	.9286	.1367	.6714	.3056	.0972	.3455
#1	2.391	.0446	.1904	.1021	.0961	.0527	.2948
#2	2.396	.0454	.1908	.1013	.0967	.0526	.2957
#3	2.410	.0452	.1910	.1026	.0966	.0527	.2969

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2639.5	6299.2	47469.	10991.
Stddev	5.4	15.3	185.	28.
%RSD	.20513	.24214	.38953	.25135
#1	2645.6	6315.7	47406.	10999.
#2	2635.4	6296.5	47325.	10961.
#3	2637.4	6285.5	47678.	11014.

Zoom In
Zoom Out

Sample Name: MP23319-S1 Acquired: 7/30/2012 10:54:46 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0475	26.92	1.892	2.120	.0506	51.61	.0483	.4855	.1986	.2431
Stddev	.0004	.05	.005	.004	.0001	.08	.0000	.0006	.0002	.0011
%RSD	.8907	.1759	.2537	.1975	.2184	.1504	.0896	.1265	.0891	.4411
#1	.0478	26.90	1.890	2.118	.0506	51.54	.0483	.4852	.1984	.2432
#2	.0471	26.89	1.887	2.117	.0507	51.59	.0483	.4851	.1988	.2441
#3	.0478	26.97	1.897	2.125	.0504	51.69	.0483	.4862	.1987	.2420

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.14	44.48	46.95	.5741	.5139	57.47	.4854	.4606	.4824	1.921
Stddev	.06	.12	.18	.0012	.0007	.11	.0010	.0006	.0010	.004
%RSD	.2297	.2748	.3852	.2081	.1384	.1828	.2100	.1241	.2107	.1995
#1	26.07	44.37	46.76	.5741	.5135	57.53	.4848	.4603	.4830	1.920
#2	26.14	44.45	46.99	.5752	.5135	57.35	.4849	.4613	.4812	1.918
#3	26.19	44.61	47.11	.5728	.5147	57.53	.4866	.4603	.4829	1.925

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.424	.4893	.6435	.4864	1.888	.4916	.4877
Stddev	.006	.0011	.0016	.0035	.003	.0017	.0003
%RSD	.2295	.2157	.2485	.7266	.1710	.3543	.0580
#1	2.419	.4894	.6451	.4846	1.888	.4908	.4879
#2	2.423	.4882	.6420	.4905	1.891	.4936	.4874
#3	2.430	.4903	.6434	.4841	1.884	.4904	.4877

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2554.6	6302.7	47068.	10930.
Stddev	4.5	15.3	191.	29.
%RSD	.17648	.24234	.40579	.26882
#1	2550.7	6300.7	47086.	10963.
#2	2559.5	6318.9	46869.	10907.
#3	2553.6	6288.5	47249.	10920.

Zoom In
Zoom Out

Sample Name: MP23319-S2 Acquired: 7/30/2012 10:58:42 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0455	26.08	1.827	2.051	.0488	49.58	.0466	.4690	.1903	.2353
Stddev	.0003	.01	.003	.006	.0001	.14	.0000	.0003	.0003	.0002
%RSD	.7292	.0426	.1527	.3074	.2530	.2862	.0976	.0688	.1684	.1058
#1	.0453	26.08	1.825	2.055	.0490	49.73	.0466	.4689	.1907	.2355
#2	.0459	26.06	1.827	2.044	.0488	49.45	.0466	.4687	.1904	.2354
#3	.0453	26.08	1.830	2.055	.0488	49.56	.0467	.4694	.1900	.2350

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	25.35	42.86	45.05	.5517	.4862	55.23	.4694	.4447	.4650	1.860
Stddev	.05	.08	.13	.0007	.0005	.02	.0007	.0006	.0018	.002
%RSD	.1893	.1829	.2844	.1284	.1054	.0378	.1576	.1344	.3933	.1214
#1	25.41	42.82	45.17	.5512	.4857	55.25	.4693	.4440	.4656	1.861
#2	25.32	42.80	45.05	.5525	.4863	55.21	.4686	.4451	.4629	1.858
#3	25.33	42.95	44.92	.5514	.4867	55.22	.4701	.4449	.4664	1.862

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.317	.4642	.6110	.4619	1.825	.4744	.4714
Stddev	.004	.0013	.0017	.0004	.001	.0012	.0008
%RSD	.1662	.2892	.2835	.0922	.0756	.2444	.1741
#1	2.320	.4636	.6125	.4614	1.827	.4756	.4712
#2	2.313	.4633	.6091	.4620	1.825	.4743	.4708
#3	2.319	.4658	.6114	.4622	1.824	.4732	.4724

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2578.4	6360.3	47840.	11005.
Stddev	3.9	10.5	115.	33.
%RSD	.15270	.16512	.23938	.29549
#1	2573.9	6356.8	47742.	10969.
#2	2581.3	6372.1	47811.	11032.
#3	2580.0	6352.0	47966.	11014.

Zoom In Zoom Out

Sample Name: F95256-1 Acquired: 7/30/2012 11:02:39 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.1016	.0028	.0445	.0000	35.61	-.0005	.0005	.0006	-.0012
Stddev	.0002	.0039	.0002	.0003	.0000	.17	.0000	.0000	.0003	.0002
%RSD	128.0	3.871	8.845	.7567	248.9	.4833	5.263	6.347	56.38	18.53
#1	.0005	.1061	.0029	.0449	.0000	35.49	-.0005	.0005	.0002	-.0012
#2	.0000	.0997	.0030	.0442	.0000	35.52	-.0005	.0005	.0009	-.0010
#3	.0001	.0989	.0025	.0446	.0000	35.80	-.0005	.0005	.0006	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	25.87	1.660	8.216	.0230	-.0010	16.86	.0005	-.0003	-.0012	.0003
Stddev	.06	.022	.051	.0001	.0001	.07	.0002	.0002	.0006	.0007
%RSD	.2270	1.346	.6147	.6044	7.291	.3988	35.75	50.65	47.29	243.1
#1	25.86	1.635	8.164	.0229	-.0009	16.85	.0005	-.0002	-.0007	.0012
#2	25.83	1.679	8.265	.0229	-.0010	16.79	.0003	-.0005	-.0018	-.0002
#3	25.94	1.665	8.219	.0231	-.0010	16.93	.0006	-.0002	-.0010	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.587	.0112	.1696	.0017	-.0010	.0007	.0050
Stddev	.018	.0003	.0005	.0000	.0002	.0001	.0001
%RSD	.4991	2.371	.3192	2.180	24.27	14.91	2.487
#1	3.577	.0109	.1698	.0018	-.0007	.0008	.0050
#2	3.575	.0111	.1690	.0018	-.0011	.0006	.0049
#3	3.607	.0114	.1701	.0017	-.0012	.0006	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2778.0	6520.7	49438.	11141.
Stddev	5.3	9.2	225.	65.
%RSD	.19211	.14063	.45553	.58241
#1	2784.1	6528.0	49178.	11197.
#2	2774.7	6523.6	49579.	11157.
#3	2775.1	6510.4	49557.	11070.

Zoom In Zoom Out

Sample Name: F95256-2 Acquired: 7/30/2012 11:06:49 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.1745	.0048	.0387	.0000	25.22	-.0004	.0019	.0006	-.0015
Stddev	.0002	.0026	.0010	.0003	.000	.02	.0001	.0001	.0003	.0002
%RSD	479.3	1.470	20.91	.8558	428.0	.0769	15.13	6.866	50.16	14.06
#1	.0000	.1729	.0037	.0385	-.0001	25.20	-.0004	.0018	.0009	-.0016
#2	-.0001	.1731	.0056	.0386	.0000	25.21	-.0005	.0018	.0003	-.0016
#3	.0003	.1775	.0052	.0391	.0000	25.24	-.0004	.0020	.0007	-.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.48	.7400	9.489	.1260	.0041	3.435	.0002	.0000	-.0010	.0004
Stddev	.04	.0085	.034	.0002	.0001	.004	.0000	.001	.0003	.0012
%RSD	.1565	1.148	.3596	.1974	1.604	.1019	30.54	2112.	34.65	262.4
#1	22.45	.7432	9.480	.1259	.0041	3.435	.0001	.0004	-.0006	.0001
#2	22.52	.7465	9.459	.1263	.0042	3.439	.0001	-.0001	-.0010	.0018
#3	22.47	.7304	9.526	.1258	.0041	3.432	.0002	-.0005	-.0013	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.044	-.0024	.1560	.0046	-.0022	.0021	.0017
Stddev	.004	.0002	.0002	.0003	.0012	.0001	.0000
%RSD	.2026	6.464	.1196	5.801	54.53	3.551	1.568
#1	2.043	-.0024	.1559	.0047	-.0028	.0020	.0017
#2	2.040	-.0025	.1562	.0043	-.0030	.0022	.0017
#3	2.049	-.0022	.1558	.0049	-.0008	.0021	.0018

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2830.3	6571.9	49680.	11206.
Stddev	6.9	11.8	266.	17.
%RSD	.24493	.17970	.53591	.15151
#1	2824.9	6558.4	49388.	11190.
#2	2838.1	6580.4	49909.	11224.
#3	2828.0	6576.9	49744.	11205.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:10:58 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2462	40.19	1.969	2.028	2.047	40.23	2.014	2.008	2.019	1.971
Stddev	.0009	.07	.004	.008	.002	.15	.004	.004	.002	.003
%RSD	.3844	.1866	.2200	.4065	.1011	.3746	.1831	.2120	.0984	.1317
#1	.2473	40.23	1.970	2.023	2.048	40.41	2.013	2.005	2.021	1.972
#2	.2457	40.11	1.964	2.022	2.045	40.12	2.011	2.005	2.018	1.968
#3	.2456	40.24	1.972	2.037	2.049	40.18	2.018	2.012	2.017	1.972
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.19	39.79	39.82	2.020	2.021	40.40	1.984	1.983	1.956	1.968
Stddev	.17	.13	.32	.003	.006	.06	.004	.008	.004	.004
%RSD	.4433	.3186	.8010	.1591	.2929	.1383	.2248	.4106	.2290	.1943
#1	39.37	39.82	40.19	2.024	2.016	40.38	1.982	1.983	1.957	1.970
#2	39.02	39.65	39.63	2.019	2.018	40.37	1.981	1.975	1.952	1.964
#3	39.17	39.90	39.65	2.018	2.027	40.47	1.989	1.991	1.961	1.971
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.984	2.014	2.069	1.992	2.010	2.062	2.018
Stddev	.005	.003	.003	.003	.007	.004	.005
%RSD	.2512	.1238	.1545	.1419	.3350	.2062	.2277
#1	1.983	2.013	2.066	1.995	2.010	2.066	2.015
#2	1.979	2.012	2.068	1.991	2.003	2.064	2.015
#3	1.989	2.017	2.072	1.990	2.016	2.057	2.023
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:10:58 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2495.7	6312.2	47165.	10775.
Stddev	7.7	6.3	134.	114.
%RSD	.30839	.09990	.28318	1.0552
#1	2497.3	6316.2	47022.	10644.
#2	2502.5	6315.4	47186.	10836.
#3	2487.4	6304.9	47286.	10845.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:14:53 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0128	.0009	.0004	.0002	.0131	.0002	.0002	.0000
Stddev	.0002	.0022	.0004	.0001	.0000	.0003	.0000	.0001	.000
%RSD	105.7	17.54	41.17	30.43	27.56	1.932	7.457	34.72	712.8
#1	.0001	.0124	.0011	.0006	.0002	.0131	.0002	.0001	.0001
#2	.0001	.0152	.0011	.0003	.0001	.0134	.0002	.0002	-.0001
#3	.0003	.0108	.0005	.0004	.0002	.0129	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0150	.0211	.0040	.0002	F.0015	.0105	.0001	.0007
Stddev	.0002	.0033	.0256	.0117	.0000	.0009	.0037	.0001	.0004
%RSD	279.0	21.90	121.5	292.4	28.35	60.14	34.73	91.88	59.68
#1	.0002	.0183	-.0056	.0044	.0002	.0025	.0137	.0002	.0003
#2	-.0002	.0149	.0453	-.0079	.0001	.0014	.0114	.0000	.0006
#3	.0002	.0117	.0235	.0154	.0002	.0007	.0065	.0001	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0001	.0007	.0001	.0002	.0004	.0011	.0003	.0002
Stddev	.0005	.0007	.0002	.0001	.0000	.0001	.0006	.0003	.0000
%RSD	213.7	936.1	32.68	205.6	10.31	26.34	52.68	76.81	26.31
#1	.0001	-.0009	.0006	.0001	.0002	.0006	.0017	.0004	.0002
#2	-.0002	.0003	.0005	-.0001	.0003	.0004	.0008	.0005	.0001
#3	.0007	.0004	.0009	.0001	.0002	.0004	.0007	.0001	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:14:53 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2872.8	6554.9	48903.	10882.
Stddev	8.8	11.1	204.	20.
%RSD	.30681	.16907	.41734	.18166
#1	2864.3	6547.9	48667.	10874.
#2	2881.9	6567.7	49029.	10904.
#3	2872.2	6549.2	49012.	10867.

Zoom In Zoom Out

Sample Name: F95256-3 Acquired: 7/30/2012 11:19:10 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.2020	.0048	.0401	.0000	25.80	-.0005	.0015	.0008	-.0015
Stddev	.0002	.0016	.0005	.0002	.000	.03	.0000	.0001	.0001	.0000
%RSD	74.31	.7811	11.26	.5237	298.5	.1029	9.693	3.669	11.40	2.994
#1	.0001	.2005	.0050	.0401	.0000	25.83	-.0005	.0014	.0008	-.0015
#2	.0005	.2036	.0041	.0399	.0000	25.79	-.0004	.0015	.0009	-.0014
#3	.0002	.2018	.0051	.0404	.0000	25.77	-.0004	.0015	.0007	-.0015

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.37	.7189	9.646	.1049	.0114	3.340	-.0001	-.0001	-.0011	.0000
Stddev	.02	.0214	.002	.0002	.0001	.011	.0000	.0004	.0015	.001
%RSD	.1046	2.981	.0202	.2018	.7564	.3151	73.13	363.7	138.9	1462.
#1	22.39	.7017	9.647	.1048	.0114	3.352	.0000	-.0005	-.0014	-.0006
#2	22.37	.7429	9.648	.1051	.0113	3.332	-.0001	.0000	.0005	.0003
#3	22.34	.7122	9.644	.1047	.0114	3.337	-.0001	.0002	-.0023	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.160	-.0021	.1596	.0045	-.0020	.0021	.0031
Stddev	.004	.0001	.0004	.0002	.0003	.0002	.0001
%RSD	.1697	4.888	.2579	4.430	13.03	7.424	3.590
#1	2.156	-.0022	.1600	.0043	-.0019	.0020	.0030
#2	2.162	-.0022	.1592	.0045	-.0018	.0021	.0031
#3	2.161	-.0020	.1596	.0047	-.0023	.0023	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2818.3	6544.0	49447.	11101.
Stddev	4.0	14.9	211.	46.
%RSD	.14326	.22838	.42656	.41838
#1	2822.9	6560.5	49346.	11100.
#2	2816.8	6540.1	49306.	11055.
#3	2815.2	6531.4	49690.	11148.

Zoom In Zoom Out

Sample Name: F95256-4 Acquired: 7/30/2012 11:23:22 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.2016	.0046	.0626	.0000	11.43	-.0004	.0029	.0008	-.0014
Stddev	.000	.0058	.0003	.0003	.000	.02	.0001	.0001	.0002	.0002
%RSD	601.5	2.853	7.098	.4752	244.2	.1406	12.32	3.337	24.93	11.69
#1	-.0001	.2075	.0043	.0629	.0000	11.44	-.0005	.0030	.0006	-.0015
#2	.0002	.2014	.0050	.0625	.0000	11.41	-.0004	.0030	.0008	-.0013
#3	-.0001	.1960	.0047	.0623	.0000	11.44	-.0004	.0028	.0010	-.0012

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	21.30	2.098	5.766	.0109	.0031	14.58	.0003	.0009	-.0012	.0008
Stddev	.01	.008	.020	.0001	.0001	.04	.0001	.0003	.0008	.0008
%RSD	.0294	.3995	.3387	.4667	4.743	.2520	34.12	35.13	70.15	105.0
#1	21.29	2.103	5.762	.0109	.0033	14.61	.0004	.0013	-.0003	.0013
#2	21.30	2.102	5.749	.0109	.0030	14.54	.0002	.0006	-.0019	.0011
#3	21.31	2.088	5.787	.0109	.0030	14.60	.0003	.0009	-.0015	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.368	-.0022	.1144	.0042	-.0019	.0023	.0031
Stddev	.019	.0001	.0003	.0001	.0002	.0001	.0001
%RSD	.5721	5.846	.2778	1.637	11.90	4.356	2.702
#1	3.364	-.0021	.1142	.0041	-.0022	.0024	.0031
#2	3.352	-.0023	.1142	.0042	-.0017	.0022	.0031
#3	3.390	-.0022	.1148	.0042	-.0019	.0024	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2829.9	6583.3	49435.	11218.
Stddev	9.8	26.6	193.	36.
%RSD	.34595	.40360	.39122	.32255
#1	2834.6	6590.3	49439.	11186.
#2	2836.4	6605.6	49627.	11257.
#3	2818.6	6553.9	49240.	11211.

Zoom In Zoom Out

Sample Name: F95256-5 Acquired: 7/30/2012 11:27:32 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.3681	.0007	.0419	.0003	3.453	-.0001	.0000	.0024	-.0008
Stddev	.0003	.0018	.0003	.0002	.0000	.011	.0000	.0001	.0001	.0003
%RSD	149.5	.4993	47.70	.4350	4.951	.3101	24.84	251.7	6.297	34.34
#1	-.0001	.3661	.0004	.0418	.0004	3.448	-.0001	.0001	.0023	-.0005
#2	.0005	.3697	.0011	.0417	.0003	3.445	-.0001	.0000	.0025	-.0010
#3	.0003	.3686	.0006	.0421	.0003	3.465	-.0001	.0001	.0023	-.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.481	1.521	1.583	.0097	-.0017	15.81	.0002	.0005	-.0004	.0020
Stddev	.011	.016	.015	.0000	.0001	.06	.0001	.0001	.0007	.0006
%RSD	.4444	1.049	.9639	.2162	3.362	.3610	25.54	18.92	166.9	29.27
#1	2.476	1.532	1.570	.0097	-.0017	15.82	.0002	.0005	-.0007	.0014
#2	2.474	1.528	1.578	.0097	-.0017	15.74	.0003	.0006	-.0009	.0019
#3	2.494	1.503	1.600	.0097	-.0018	15.85	.0002	.0004	.0004	.0026

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.318	-.0022	.0598	.0032	-.0008	.0057	.0032
Stddev	.012	.0001	.0003	.0001	.0000	.0001	.0001
%RSD	.2300	6.194	.4429	2.561	5.691	1.521	3.187
#1	5.318	-.0023	.0600	.0032	-.0008	.0057	.0032
#2	5.306	-.0021	.0595	.0032	-.0007	.0056	.0030
#3	5.330	-.0021	.0599	.0033	-.0008	.0058	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2869.9	6690.7	50276.	11290.
Stddev	2.7	4.7	44.	75.
%RSD	.09278	.07014	.08699	.66503
#1	2871.8	6692.2	50250.	11361.
#2	2866.9	6694.4	50326.	11296.
#3	2871.2	6685.4	50251.	11212.

Zoom In Zoom Out

Sample Name: F95256-6 Acquired: 7/30/2012 11:31:45 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.3928	.0094	.1430	.0000	26.62	-.0006	.0027	.0028	-.0012
Stddev	.0003	.0075	.0004	.0002	.000	.04	.0000	.0001	.0001	.0002
%RSD	91.10	1.903	4.563	.1569	163.0	.1661	7.767	3.958	4.683	16.36
#1	-.0001	.3845	.0097	.1430	.0000	26.59	-.0006	.0026	.0027	-.0010
#2	-.0002	.3952	.0097	.1428	.0000	26.61	-.0006	.0028	.0028	-.0012
#3	-.0006	.3988	.0089	.1432	.0000	26.67	-.0006	.0027	.0030	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	31.18	4.377	11.63	.0236	.0013	52.88	.0002	.0009	-.0012	.0031
Stddev	.07	.011	.04	.0002	.0002	.08	.0001	.0004	.0003	.0004
%RSD	.2344	.2502	.3399	.7106	14.49	.1453	25.12	41.79	26.94	12.44
#1	31.12	4.389	11.61	.0235	.0014	52.96	.0003	.0007	-.0014	.0031
#2	31.16	4.368	11.62	.0235	.0011	52.82	.0002	.0013	-.0012	.0027
#3	31.26	4.374	11.68	.0238	.0015	52.85	.0002	.0006	-.0008	.0035

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.664	-.0022	.3048	.0053	-.0030	.0100	.0054
Stddev	.014	.0003	.0003	.0002	.0008	.0001	.0001
%RSD	.2909	15.81	.0922	3.457	26.19	.8046	1.349
#1	4.668	-.0025	.3047	.0051	-.0022	.0099	.0054
#2	4.649	-.0019	.3050	.0055	-.0037	.0099	.0054
#3	4.675	-.0021	.3045	.0054	-.0029	.0101	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2721.2	6448.9	48591.	11201.
Stddev	2.8	13.8	318.	62.
%RSD	.10473	.21443	.65535	.55719
#1	2719.6	6441.8	48718.	11272.
#2	2724.5	6464.8	48826.	11173.
#3	2719.5	6440.1	48229.	11157.

Zoom In Zoom Out

Sample Name: F95256-7 Acquired: 7/30/2012 11:35:54 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0001	.2657	.0261	.0644	.0003	6.275	.0028	.0013
Stddev	.0004	.0088	.0176	.0002	.0000	.020	.0021	.0007
%RSD	275.5	3.303	67.30	.3730	4.043	.3108	73.67	54.75
#1	.0000	.2717	.0096	.0646	.0003	6.267	.0008	.0006
#2	.0002	.2556	.0241	.0641	.0003	6.261	.0027	.0012
#3	-.0006	.2699	.0445	.0645	.0003	6.297	.0050	.0020

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0022	-.0011	4.415	2.465	1.873	.0332	.0033	10.83
Stddev	.0001	.0002	.008	.010	.009	.0001	.0041	.03
%RSD	4.231	22.38	.1908	.4213	.4880	.3145	124.4	.2719
#1	.0022	-.0011	4.416	2.468	1.882	.0333	-.0006	10.86
#2	.0021	-.0008	4.407	2.453	1.864	.0331	.0030	10.80
#3	.0023	-.0013	4.424	2.473	1.873	.0333	.0076	10.83

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0040	.0127	.0218	F-.0635	10.11	.0136	.0551	.0023
Stddev	.0026	.0077	.0150	.0428	.03	.0123	.0002	.0000
%RSD	63.98	60.43	68.96	67.36	.2863	90.57	.3267	1.948
#1	.0016	.0047	.0073	-.0224	10.08	.0024	.0552	.0024
#2	.0037	.0133	.0207	-.0604	10.13	.0116	.0549	.0023
#3	.0067	.0200	.0373	-.1078	10.13	.0268	.0552	.0024

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0213	.0064	.0079
Stddev	.0131	.0001	.0027
%RSD	61.55	1.411	34.50
#1	.0076	.0063	.0054
#2	.0226	.0065	.0076
#3	.0338	.0064	.0108

Zoom In Zoom Out

Sample Name: F95256-7 Acquired: 7/30/2012 11:35:54 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2620.8	6150.8	48486.	11373.
Stddev	54.0	103.1	630.	18.
%RSD	2.0602	1.6764	1.2999	.15635
#1	2678.3	6260.0	49198.	11390.
#2	2613.2	6137.1	48263.	11374.
#3	2571.1	6055.2	47998.	11354.

Zoom In Zoom Out

Sample Name: F95256-8 Acquired: 7/30/2012 11:39:58 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.2922	.0018	.0482	.0002	4.757	-.0001	.0001	.0040	-.0010
Stddev	.0001	.0120	.0006	.0002	.0001	.010	.0000	.0001	.0001	.0001
%RSD	49.03	4.119	31.27	.4691	27.10	.2123	24.99	70.14	2.247	6.168
#1	.0001	.2804	.0018	.0481	.0002	4.754	-.0001	.0002	.0040	-.0009
#2	.0001	.2916	.0012	.0481	.0001	4.749	-.0001	.0001	.0040	-.0010
#3	.0002	.3044	.0023	.0485	.0002	4.769	-.0001	.0001	.0039	-.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.069	4.688	2.320	.0107	-.0018	12.92	.0001	.0008	-.0005	.0009
Stddev	.020	.027	.027	.0000	.0000	.03	.0000	.0004	.0007	.0007
%RSD	.6483	.5770	1.162	.3649	2.596	.2459	44.40	49.84	143.6	83.97
#1	3.046	4.659	2.289	.0107	-.0018	12.89	.0000	.0010	.0001	.0001
#2	3.079	4.692	2.330	.0106	-.0018	12.92	.0001	.0003	-.0012	.0009
#3	3.082	4.713	2.340	.0107	-.0017	12.96	.0001	.0010	-.0003	.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.25	-.0022	.0439	.0029	-.0005	.0090	.0014
Stddev	.02	.0002	.0003	.0000	.0002	.0003	.0000
%RSD	.1882	11.30	.6792	1.401	36.45	3.647	3.432
#1	12.22	-.0024	.0437	.0029	-.0004	.0091	.0013
#2	12.26	-.0019	.0437	.0030	-.0008	.0086	.0013
#3	12.26	-.0022	.0442	.0029	-.0004	.0092	.0014

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2859.8	6696.1	50696.	11421.
Stddev	4.8	9.1	129.	44.
%RSD	.16670	.13640	.25352	.38214
#1	2855.8	6691.8	50582.	11461.
#2	2865.1	6706.6	50671.	11375.
#3	2858.6	6690.0	50836.	11426.

Zoom In Zoom Out

Sample Name: F95148-4 Acquired: 7/30/2012 11:44:11 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0050	-.0002	.0423	.0000	95.58	-.0003	.0000	.0001
Stddev	.0004	.0045	.0009	.0001	.000	.07	.0000	.0001	.0001
%RSD	271.5	91.02	555.9	.1929	143.2	.0712	3.020	256.4	102.6
#1	.0000	.0102	-.0012	.0422	.0000	95.62	-.0003	.0001	.0000
#2	.0006	.0020	.0003	.0423	-.0001	95.50	-.0003	-.0001	.0001
#3	-.0001	.0027	.0004	.0424	.0000	95.61	-.0003	.0001	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0344	-.0028	1.470	50.47	.0001	-.0032	F102.9	.0000	.0005
Stddev	.0001	.0015	.002	.06	.0000	.0001	.5	.0001	.0003
%RSD	.4015	53.96	.0987	.1211	11.18	4.442	.4884	4860.	57.14
#1	.0344	-.0013	1.471	50.53	.0001	-.0031	102.4	-.0001	.0004
#2	.0343	-.0028	1.471	50.48	.0001	-.0034	103.3	-.0001	.0008
#3	.0346	-.0043	1.468	50.41	.0001	-.0032	103.2	.0002	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	.0086	10.27	-.0017	1.474	.0012	-.0033	.0135	.0112
Stddev	.0004	.0010	.09	.0002	.001	.0000	.0004	.0001	.0001
%RSD	66.49	11.80	.8352	11.05	.0744	3.730	13.57	1.072	1.271
#1	-.0008	.0085	10.35	-.0019	1.476	.0012	-.0037	.0137	.0113
#2	-.0009	.0096	10.18	-.0016	1.474	.0012	-.0032	.0136	.0110
#3	-.0002	.0076	10.27	-.0015	1.473	.0012	-.0029	.0134	.0113

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2615.0	6296.1	46866.	10897.
Stddev	17.6	52.4	210.	37.
%RSD	.67148	.83185	.44746	.34074
#1	2595.8	6240.9	46692.	10862.
#2	2630.3	6345.1	47099.	10893.
#3	2618.9	6302.4	46808.	10936.

Zoom In Zoom Out

Sample Name: MP23320-MB1 Acquired: 7/30/2012 11:48:31 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0090	.0005	.0001	-.0001	.0112	.0000	.0000	.0000	-.0012
Stddev	.0003	.0047	.0009	.0002	.0001	.0001	.000	.000	.000	.0003
%RSD	284.2	51.63	167.2	147.2	90.15	1.332	145.0	751.5	640.6	28.30
#1	-.0002	.0076	.0007	.0003	-.0001	.0110	.0000	-.0001	-.0001	-.0011
#2	.0005	.0052	-.0004	.0002	.0000	.0113	.0000	.0001	-.0003	-.0009
#3	.0000	.0142	.0013	-.0001	.0000	.0113	.0000	.0000	.0003	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0132	.0293	.0138	.0000	-.0022	.0136	.0002	.0004	-.0006	.0008
Stddev	.0013	.0282	.0059	.000	.0001	.0029	.0002	.0003	.0008	.0019
%RSD	9.748	96.29	43.18	219.5	2.462	21.47	112.4	85.67	138.3	227.2
#1	-.0130	.0430	.0178	.0000	-.0022	.0119	.0000	.0008	.0002	-.0005
#2	-.0120	.0480	.0069	.0000	-.0022	.0119	.0003	.0003	-.0014	.0001
#3	-.0146	-.0031	.0165	.0000	-.0023	.0170	.0002	.0001	-.0005	.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	-.0021	.0002	-.0009	-.0002	.0002	-.0003
Stddev	.0001	.0001	.0000	.0001	.0007	.0001	.0000
%RSD	4.016	5.683	11.50	11.52	298.6	79.96	6.331
#1	.0030	-.0020	.0002	-.0008	.0004	.0001	-.0003
#2	.0033	-.0021	.0002	-.0010	-.0009	.0001	-.0003
#3	.0032	-.0022	.0001	-.0008	-.0001	.0003	-.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23320-MB1 Acquired: 7/30/2012 11:48:31 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.4	6633.7	50204.	11158.
Stddev	12.5	9.6	122.	92.
%RSD	.42945	.14454	.24301	.82545
#1	2929.5	6642.1	50277.	11264.
#2	2905.7	6623.2	50063.	11094.
#3	2910.9	6635.7	50271.	11118.

Zoom In Zoom Out

Sample Name: MP23320-B1 Acquired: 7/30/2012 11:52:47 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487	27.22	1.956	2.090	.0521	25.34	.0504	.5080	.2058	.2546
Stddev	.0007	.06	.000	.008	.0001	.09	.0001	.0007	.0003	.0008
%RSD	1.427	.2178	.0149	.3615	.2488	.3600	.2155	.1432	.1493	.3288
#1	.0493	27.19	1.956	2.082	.0521	25.26	.0505	.5082	.2054	.2554
#2	.0489	27.29	1.957	2.097	.0522	25.44	.0504	.5085	.2059	.2547
#3	.0480	27.18	1.956	2.091	.0519	25.31	.0503	.5071	.2060	.2537
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.44	24.77	24.70	.5159	.4947	25.02	.5138	.4715	.4954	1.995
Stddev	.03	.05	.09	.0009	.0001	.07	.0015	.0009	.0003	.002
%RSD	.1301	.1939	.3574	.1664	.0264	.2775	.3008	.1925	.0694	.1138
#1	26.40	24.72	24.61	.5149	.4948	25.03	.5132	.4724	.4957	1.993
#2	26.46	24.82	24.78	.5164	.4946	25.08	.5155	.4713	.4950	1.996
#3	26.45	24.77	24.70	.5164	.4946	24.94	.5126	.4706	.4955	1.997
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.4983	.5030	.4876	1.941	.5088	.5094
Stddev	.0005	.0007	.0012	.0041	.004	.0010	.0012
%RSD	13.66	.1418	.2444	.8465	.2131	.1993	.2275
#1	.0045	.4981	.5026	.4904	1.944	.5088	.5097
#2	.0035	.4991	.5044	.4896	1.942	.5099	.5104
#3	.0037	.4978	.5021	.4829	1.936	.5078	.5081
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23320-B1 Acquired: 7/30/2012 11:52:47 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.8	6422.8	48176.	11014.
Stddev	10.4	22.5	179.	52.
%RSD	.39033	.35070	.37190	.47584
#1	2656.1	6400.6	47988.	11067.
#2	2667.3	6422.2	48195.	10963.
#3	2676.9	6445.7	48345.	11012.

Zoom In Zoom Out

Sample Name: F95305-1 Acquired: 7/30/2012 11:56:45 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0272	.0005	.2059	.0000	53.30	-.0001	.0052	.0000
Stddev	.0002	.0101	.0004	.0007	.000	.07	.0000	.0001	.0001
%RSD	24.24	37.32	75.17	.3285	341.9	.1264	27.36	2.214	224.2
#1	.0007	.0297	.0004	.2051	.0000	53.27	-.0001	.0052	.0000
#2	.0010	.0358	.0009	.2064	.0000	53.26	-.0002	.0051	.0001
#3	.0012	.0160	.0002	.2062	.0000	53.38	-.0002	.0053	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0006	.0194	.4214	3.892	2.191	-.0030	F153.8	.0016	-.0012
Stddev	.0001	.0024	.0134	.004	.001	.0002	.5	.0001	.0000
%RSD	13.72	12.64	3.171	.0992	.0550	7.665	.3248	3.794	.2743
#1	-.0007	.0211	.4158	3.893	2.191	-.0028	154.3	.0016	-.0012
#2	-.0006	.0205	.4118	3.888	2.190	-.0032	153.7	.0017	-.0012
#3	-.0005	.0166	.4367	3.896	2.192	-.0030	153.4	.0016	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0009	.5099	-.0025	.0691	.0020	-.0025	.0015	.0112
Stddev	.0003	.0017	.0016	.0003	.0001	.0001	.0009	.0003	.0000
%RSD	241.1	193.8	.3210	10.96	.1114	2.715	36.55	16.72	.4028
#1	-.0003	.0017	.5090	-.0022	.0691	.0020	-.0032	.0017	.0111
#2	-.0002	-.0010	.5090	-.0026	.0690	.0019	-.0015	.0016	.0112
#3	.0002	.0020	.5118	-.0026	.0691	.0020	-.0027	.0012	.0111

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2591.5	6262.2	46857.	10910.
Stddev	5.4	13.7	182.	33.
%RSD	.20894	.21894	.38834	.29866
#1	2585.3	6253.7	46649.	10909.
#2	2595.0	6278.0	46986.	10943.
#3	2594.2	6254.8	46938.	10878.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:01:04 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499	40.52	1.995	2.052	2.059	40.50	2.031	2.027	2.034	2.005
Stddev	.0002	.05	.003	.005	.000	.02	.001	.002	.003	.002
%RSD	.0906	.1151	.1534	.2480	.0212	.0512	.0495	.0768	.1611	.0848
#1	.2498	40.50	1.996	2.047	2.059	40.53	2.030	2.026	2.030	2.004
#2	.2502	40.58	1.998	2.057	2.058	40.50	2.032	2.028	2.036	2.007
#3	.2498	40.49	1.992	2.053	2.059	40.48	2.031	2.025	2.035	2.004
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.61	40.12	40.05	2.044	2.034	40.67	2.005	1.997	1.987	2.005
Stddev	.09	.08	.12	.004	.004	.04	.004	.003	.004	.006
%RSD	.2203	.2027	.2889	.1934	.2212	.1092	.2136	.1544	.1884	.3106
#1	39.55	40.04	40.11	2.042	2.029	40.67	2.005	1.993	1.989	2.005
#2	39.71	40.20	40.13	2.041	2.037	40.72	2.010	1.997	1.989	2.011
#3	39.57	40.11	39.92	2.048	2.037	40.63	2.001	1.999	1.982	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.010	2.035	2.088	2.031	2.027	2.085	2.033
Stddev	.001	.003	.003	.003	.003	.004	.001
%RSD	.0691	.1404	.1555	.1624	.1221	.1864	.0557
#1	2.012	2.035	2.086	2.030	2.025	2.081	2.031
#2	2.010	2.038	2.091	2.027	2.027	2.086	2.033
#3	2.009	2.033	2.086	2.034	2.030	2.088	2.033
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:01:04 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2487.9	6298.6	47019.	10833.
Stddev	3.0	2.1	170.	25.
%RSD	.12166	.03367	.36051	.22934
#1	2487.3	6297.9	47190.	10843.
#2	2491.2	6297.0	47015.	10851.
#3	2485.2	6301.0	46851.	10804.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:04:59 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0201	.0018	.0004	.0003	.0153	.0003	.0004	.0002
Stddev	.0004	.0038	.0004	.0001	.0000	.0014	.0000	.0001	.0002
%RSD	128.0	18.97	21.13	17.23	6.468	9.311	12.27	25.37	82.42
#1	-.0002	.0229	.0019	.0005	.0003	.0170	.0003	.0004	.0003
#2	.0006	.0158	.0021	.0003	.0003	.0144	.0003	.0003	.0000
#3	.0005	.0216	.0014	.0004	.0003	.0145	.0003	.0005	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0170	.0115	.0186	.0003	F.0014	.0177	.0002	F.0011
Stddev	.0002	.0049	.0219	.0083	.0000	.0009	.0029	.0001	.0002
%RSD	39.10	28.74	190.2	44.75	14.38	69.99	16.15	85.86	15.82
#1	.0005	.0207	-.0096	.0275	.0003	.0023	.0186	.0002	.0012
#2	.0003	.0189	.0099	.0176	.0003	.0013	.0144	.0000	.0009
#3	.0006	.0115	.0342	.0109	.0003	.0004	.0199	.0003	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0017	.0007	.0002	.0004	.0008	.0001	.0005	.0003
Stddev	.0013	.0011	.0002	.0005	.0000	.0002	.0008	.0001	.0001
%RSD	255.1	65.09	25.15	230.5	6.455	22.14	923.6	28.95	21.12
#1	.0014	.0027	.0005	.0007	.0005	.0008	-.0008	.0007	.0003
#2	.0012	.0005	.0009	.0000	.0004	.0010	.0001	.0004	.0002
#3	-.0010	.0019	.0006	-.0001	.0004	.0006	.0009	.0005	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:04:59 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.5	6583.5	48944.	10962.
Stddev	6.9	16.7	225.	28.
%RSD	.24101	.25347	.46043	.25414
#1	2860.6	6568.9	49200.	10933.
#2	2860.5	6580.0	48855.	10965.
#3	2872.5	6601.7	48776.	10988.

Zoom In Zoom Out

Sample Name: MP23320-D1 Acquired: 7/30/2012 12:09:15 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0008	.0185	.0004	.2038	.0000	52.91	-.0001	.0051	.0002
Stddev	.0002	.0020	.0004	.0008	.000	.10	.0000	.0000	.0001
%RSD	27.63	10.66	104.1	.4027	166.4	.1886	53.66	.7730	68.88
#1	.0010	.0165	-.0001	.2029	.0000	52.80	-.0001	.0051	.0004
#2	.0008	.0186	.0007	.2039	-.0001	52.95	.0000	.0052	.0001
#3	.0006	.0204	.0006	.2045	.0000	52.99	-.0001	.0051	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0003	.0096	.4150	3.804	2.166	-.0027	F151.9	.0017	-.0019
Stddev	.0002	.0011	.0127	.021	.012	.0001	1.2	.0002	.0007
%RSD	55.44	11.08	3.049	.5572	.5526	2.567	.8030	12.02	35.15
#1	-.0005	.0104	.4181	3.788	2.165	-.0027	150.9	.0015	-.0013
#2	-.0004	.0099	.4258	3.828	2.178	-.0026	153.3	.0016	-.0017
#3	-.0001	.0084	.4010	3.795	2.155	-.0028	151.6	.0019	-.0026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0007	.5035	-.0020	.0692	.0019	-.0014	.0013	.0110
Stddev	.0003	.0014	.0009	.0001	.0001	.0003	.0008	.0001	.0000
%RSD	214.4	202.6	.1804	3.451	.1471	13.75	54.57	8.274	.1274
#1	-.0001	.0017	.5040	-.0019	.0691	.0022	-.0011	.0013	.0110
#2	-.0005	-.0009	.5025	-.0020	.0693	.0020	-.0022	.0015	.0110
#3	.0001	.0012	.5042	-.0020	.0693	.0016	-.0008	.0013	.0110

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2571.5	6278.8	46500.	10994.
Stddev	6.1	6.6	163.	37.
%RSD	.23704	.10485	.35116	.33913
#1	2565.7	6273.3	46434.	11032.
#2	2571.1	6277.1	46380.	10958.
#3	2577.9	6286.1	46686.	10992.

Zoom In Zoom Out

Sample Name: MP23320-SD1 Acquired: 7/30/2012 12:13:38 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 5.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0030	.0263	.0016	.2103	-.0002	55.06	-.0002	.0052	-.0008	.0012
Stddev	.0008	.0065	.0008	.0009	.0000	.15	.0002	.0002	.0012	.0005
%RSD	26.09	24.49	46.96	.4439	2.611	.2677	136.3	3.376	152.8	38.41
#1	.0038	.0201	.0019	.2102	-.0002	54.89	.0001	.0054	-.0020	.0016
#2	.0023	.0259	.0023	.2113	-.0002	55.16	-.0003	.0050	.0004	.0013
#3	.0028	.0330	.0008	.2094	-.0002	55.13	-.0002	.0052	-.0008	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0427	.4687	4.002	2.229	-.0126	157.1	.0022	-.0043	-.0011	.0052
Stddev	.0028	.0119	.151	.002	.0005	.3	.0003	.0035	.0021	.0035
%RSD	6.614	2.545	3.778	.1004	4.284	.2123	12.93	82.69	199.7	67.30
#1	-.0406	.4552	3.839	2.227	-.0124	157.1	.0019	-.0082	-.0034	.0020
#2	-.0416	.4776	4.138	2.231	-.0121	156.7	.0020	-.0033	-.0005	.0089
#3	-.0459	.4735	4.030	2.230	-.0131	157.4	.0025	-.0013	.0008	.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5108	-.0053	.0711	.0028	-.0033	.0016	.0123
Stddev	.0004	.0025	.0001	.0001	.0032	.0016	.0001
%RSD	.0874	45.84	.0877	2.698	97.27	101.1	1.118
#1	.5107	-.0072	.0711	.0027	-.0065	-.0002	.0122
#2	.5104	-.0026	.0711	.0028	-.0001	.0029	.0124
#3	.5113	-.0062	.0712	.0029	-.0033	.0021	.0123

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2747.9	6469.4	47993.	10912.
Stddev	3.3	7.3	109.	53.
%RSD	.12134	.11361	.22694	.48115
#1	2747.2	6461.2	48110.	10972.
#2	2751.6	6472.0	47895.	10876.
#3	2745.0	6475.2	47974.	10887.

Zoom In Zoom Out

Sample Name: MP23320-S1 Acquired: 7/30/2012 12:17:51 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0544	29.84	2.158	2.432	.0570	81.62	.0541	.5445	.2223
Stddev	.0004	.01	.006	.010	.0001	.13	.0002	.0014	.0006
%RSD	.7847	.0252	.2846	.3935	.1200	.1577	.3405	.2572	.2567
#1	.0544	29.83	2.157	2.434	.0570	81.76	.0543	.5449	.2217
#2	.0549	29.84	2.153	2.421	.0571	81.58	.0539	.5429	.2224
#3	.0540	29.85	2.165	2.440	.0569	81.52	.0542	.5456	.2229

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2735	28.29	27.93	30.37	2.708	.5537	F184.5	.5372	.5276
Stddev	.0014	.11	.06	.13	.016	.0023	.6	.0018	.0025
%RSD	.5259	.4035	.2317	.4438	.5960	.4244	.3495	.3337	.4686
#1	.2747	28.37	28.00	30.52	2.727	.5536	184.4	.5364	.5301
#2	.2739	28.33	27.88	30.32	2.698	.5514	185.3	.5358	.5252
#3	.2719	28.16	27.92	30.26	2.699	.5561	184.0	.5392	.5276

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5378	2.238	.5230	.5461	.6374	.5456	2.143	.5514	.5668
Stddev	.0011	.003	.0017	.0018	.0016	.0008	.003	.0017	.0024
%RSD	.2082	.1423	.3175	.3256	.2481	.1410	.1391	.3100	.4262
#1	.5381	2.237	.5226	.5445	.6359	.5450	2.145	.5495	.5664
#2	.5366	2.235	.5216	.5459	.6373	.5465	2.140	.5529	.5645
#3	.5388	2.241	.5248	.5480	.6391	.5454	2.145	.5516	.5693

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2442.7	6206.6	45633.	10870.
Stddev	5.6	22.1	37.	69.
%RSD	.22727	.35532	.08035	.63316
#1	2441.8	6206.1	45592.	10850.
#2	2448.6	6229.0	45648.	10813.
#3	2437.6	6184.9	45660.	10946.

Zoom In Zoom Out

Sample Name: MP23320-S2 Acquired: 7/30/2012 12:22:05 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0514	28.75	2.074	2.331	.0545	78.29	.0520	.5231	.2136
Stddev	.0004	.07	.003	.005	.0001	.25	.0001	.0001	.0006
%RSD	.8640	.2474	.1208	.2013	.1284	.3166	.1166	.0215	.2986
#1	.0510	28.69	2.071	2.326	.0545	78.01	.0519	.5230	.2131
#2	.0519	28.72	2.076	2.333	.0546	78.39	.0520	.5232	.2143
#3	.0514	28.82	2.075	2.335	.0546	78.48	.0519	.5230	.2133

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2621	27.31	26.99	29.28	2.595	.5170	F176.4	.5178	.5048
Stddev	.0009	.09	.08	.13	.018	.0005	1.8	.0012	.0017
%RSD	.3327	.3357	.3060	.4566	.6911	.1004	1.030	.2250	.3465
#1	.2622	27.22	26.89	29.13	2.585	.5169	174.4	.5165	.5054
#2	.2612	27.29	27.03	29.38	2.616	.5175	176.7	.5187	.5061
#3	.2630	27.41	27.04	29.33	2.584	.5165	178.0	.5181	.5028

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5165	2.148	.5017	.5113	.5954	.5089	2.049	.5286	.5434
Stddev	.0006	.001	.0006	.0004	.0012	.0003	.006	.0012	.0006
%RSD	.1180	.0572	.1248	.0732	.2020	.0602	.3111	.2192	.1120
#1	.5165	2.147	.5022	.5113	.5941	.5090	2.053	.5294	.5440
#2	.5160	2.149	.5020	.5117	.5960	.5086	2.051	.5292	.5427
#3	.5172	2.149	.5010	.5109	.5962	.5092	2.041	.5273	.5434

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2450.6	6210.1	45936.	10871.
Stddev	3.5	3.2	94.	55.
%RSD	.14377	.05134	.20389	.50684
#1	2449.2	6208.3	46033.	10927.
#2	2448.1	6208.2	45846.	10870.
#3	2454.7	6213.8	45930.	10817.

Zoom In Zoom Out

Sample Name: F95236-1 Acquired: 7/30/2012 12:26:19 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0138	.0178	.0166	.0000	55.46	-.0001	.0003	.0003
Stddev	.0002	.0060	.0001	.0000	.000	.30	.0000	.0001	.0002
%RSD	35.97	43.86	.6681	.2561	76.57	.5432	33.16	27.16	85.33
#1	.0005	.0202	.0177	.0166	-.0001	55.31	.0000	.0004	.0001
#2	.0007	.0129	.0179	.0166	.0000	55.27	-.0001	.0002	.0002
#3	.0003	.0082	.0179	.0167	-.0001	55.81	-.0001	.0003	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0025	.0057	3.793	1.006	.1264	-.0023	F146.9	.0018	-.0024
Stddev	.0001	.0047	.029	.003	.0001	.0002	.4	.0001	.0004
%RSD	5.014	82.40	.7690	.2712	.1144	6.713	.2583	5.331	16.35
#1	.0027	.0101	3.808	1.003	.1266	-.0022	147.3	.0017	-.0020
#2	.0024	.0063	3.759	1.006	.1264	-.0024	146.6	.0019	-.0028
#3	.0025	.0008	3.812	1.008	.1263	-.0025	146.8	.0018	-.0026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0005	.0009	.1517	-.0021	.0711	.0019	-.0033	.0006	.0535
Stddev	.0004	.0009	.0006	.0002	.0004	.0000	.0009	.0001	.0002
%RSD	74.22	97.59	.4229	11.65	.5921	.3555	27.88	22.56	.3182
#1	.0010	.0017	.1521	-.0019	.0712	.0019	-.0023	.0008	.0537
#2	.0004	.0011	.1520	-.0020	.0707	.0019	-.0040	.0007	.0533
#3	.0002	-.0001	.1509	-.0023	.0715	.0019	-.0036	.0005	.0535

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2586.7	6247.9	46629.	10886.
Stddev	1.1	11.8	213.	43.
%RSD	.04276	.18910	.45667	.39727
#1	2587.9	6250.0	46583.	10905.
#2	2586.3	6258.5	46443.	10917.
#3	2585.8	6235.2	46861.	10836.

Zoom In Zoom Out

Sample Name: F95274-7A Acquired: 7/30/2012 12:30:39 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.0017	.0007	.0134	.0000	128.8	.0064	.0005	.0001
Stddev	.0002	.0129	.0004	.0003	.000	.1	.0000	.0000	.0002
%RSD	22.64	736.7	58.26	1.974	103.4	.0612	.7059	5.934	144.5
#1	.0007	.0120	.0004	.0131	.0000	128.7	.0064	.0004	.0003
#2	.0009	.0059	.0005	.0135	.0000	128.9	.0064	.0005	.0003
#3	.0005	-.0127	.0011	.0136	.0000	128.8	.0065	.0004	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0121	-.0080	.2115	2.389	.0603	-.0022	F151.9	.0285	-.0023
Stddev	.0002	.0006	.0196	.015	.0002	.0000	.7	.0000	.0002
%RSD	1.533	7.830	9.252	.6304	.3865	1.768	.4483	.1203	7.623
#1	.0123	-.0079	.2191	2.386	.0606	-.0022	152.7	.0285	-.0025
#2	.0121	-.0086	.2262	2.377	.0603	-.0022	151.8	.0285	-.0022
#3	.0120	-.0074	.1893	2.406	.0601	-.0021	151.3	.0285	-.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	.0002	.5675	-.0024	.5643	.0013	-.0034	.0001	1.025
Stddev	.0006	.0021	.0004	.0001	.0010	.0001	.0006	.0002	.001
%RSD	254.5	945.2	.0704	6.252	.1835	6.225	17.90	177.9	.1057
#1	.0000	.0021	.5671	-.0023	.5647	.0014	-.0029	-.0001	1.023
#2	-.0002	.0007	.5679	-.0023	.5631	.0013	-.0040	.0002	1.025
#3	.0009	-.0021	.5674	-.0026	.5650	.0013	-.0032	.0003	1.025

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2553.2	6197.7	46067.	10788.
Stddev	2.4	8.9	230.	18.
%RSD	.09263	.14424	.49898	.16965
#1	2550.5	6190.1	45805.	10784.
#2	2553.9	6195.5	46232.	10807.
#3	2555.1	6207.6	46165.	10771.

Zoom In Zoom Out

Sample Name: F94949-17A Acquired: 7/30/2012 12:34:58 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0434	.0009	.0281	.0000	8.358	.0000	.0001	.0000
Stddev	.0003	.0068	.0004	.0002	.000	.035	.0000	.0001	.000
%RSD	61.42	15.57	40.05	.6038	221.4	.4164	72.27	133.7	676.4
#1	.0004	.0441	.0011	.0280	-.0001	8.361	.0000	.0000	-.0001
#2	.0002	.0497	.0005	.0283	.0000	8.391	.0001	.0001	-.0001
#3	.0007	.0363	.0012	.0280	.0000	8.322	.0000	.0001	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	.0602	.2166	.2086	.0684	-.0024	F136.2	.0003	.0022
Stddev	.0001	.0008	.0180	.0013	.0008	.0001	1.2	.0001	.0004
%RSD	55.76	1.369	8.309	.6187	1.119	4.845	.8935	32.72	19.82
#1	-.0001	.0608	.1999	.2072	.0689	-.0025	135.7	.0004	.0020
#2	-.0003	.0593	.2143	.2088	.0688	-.0023	137.6	.0003	.0019
#3	-.0003	.0605	.2357	.2097	.0675	-.0024	135.4	.0002	.0027

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0010	.1046	-.0020	.0390	.0012	-.0019	.0004	.0198
Stddev	.0005	.0011	.0008	.0000	.0000	.0002	.0009	.0004	.0001
%RSD	146.9	107.2	.7328	2.490	.0877	14.73	48.36	107.6	.4747
#1	.0005	.0023	.1047	-.0020	.0390	.0011	-.0015	.0001	.0197
#2	-.0002	.0004	.1052	-.0019	.0390	.0014	-.0029	.0002	.0199
#3	.0008	.0004	.1037	-.0020	.0390	.0010	-.0012	.0008	.0197

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2633.1	6358.9	47207.	10947.
Stddev	4.8	3.1	226.	59.
%RSD	.18048	.04818	.47970	.53541
#1	2638.3	6362.4	47211.	10893.
#2	2631.7	6356.8	46979.	10940.
#3	2629.1	6357.5	47431.	11009.

Zoom In Zoom Out

Sample Name: F94949-18A Acquired: 7/30/2012 12:39:20 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0146	.0001	.0206	-.0001	7.125	.0002	.0000	.0001
Stddev	.000	.0024	.0008	.0003	.0001	.019	.0000	.0000	.0002
%RSD	7434.	16.14	830.4	1.430	89.53	.2686	9.867	187.4	200.8
#1	-.0001	.0148	-.0005	.0209	.0000	7.137	.0002	.0001	.0003
#2	.0001	.0168	.0010	.0203	-.0001	7.135	.0002	.0001	.0000
#3	.0000	.0121	-.0002	.0207	-.0001	7.103	.0002	.0000	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0004	.0300	.1878	.1952	.0281	-.0025	F134.0	.0003	.0016
Stddev	.0003	.0002	.0083	.0073	.0001	.0000	.6	.0002	.0005
%RSD	67.99	.7899	4.433	3.753	.4206	1.915	.4469	64.53	29.15
#1	-.0007	.0297	.1865	.1903	.0282	-.0026	133.8	.0001	.0014
#2	-.0003	.0302	.1801	.1918	.0282	-.0025	133.6	.0003	.0012
#3	-.0002	.0300	.1966	.2036	.0280	-.0025	134.7	.0004	.0021

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	.0006	.0604	-.0023	.0304	.0002	-.0017	.0000	.0124
Stddev	.0007	.0012	.0005	.0002	.0002	.0000	.0003	.000	.0001
%RSD	310.5	193.0	.8272	9.366	.5164	12.24	18.54	4331.	.5440
#1	.0005	.0002	.0610	-.0023	.0305	.0002	-.0017	.0002	.0123
#2	-.0003	.0020	.0600	-.0025	.0305	.0003	-.0014	-.0004	.0125
#3	-.0008	-.0003	.0602	-.0021	.0302	.0002	-.0021	.0001	.0124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2636.2	6375.6	46992.	10874.
Stddev	11.0	29.5	207.	45.
%RSD	.41653	.46252	.43982	.41206
#1	2626.9	6352.5	46809.	10925.
#2	2648.3	6408.8	46951.	10840.
#3	2633.4	6365.6	47216.	10857.

Zoom In Zoom Out

Sample Name: F94949-19A Acquired: 7/30/2012 12:43:44 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0126	.0011	.0216	.0000	5.322	.0000	.0000	.0000
Stddev	.0002	.0077	.0007	.0002	.000	.012	.000	.0000	.000
%RSD	58.40	61.13	66.11	.8061	37.56	.2273	41.44	54.52	918.2
#1	.0004	.0082	.0011	.0214	-.0001	5.309	.0000	.0000	.0000
#2	.0001	.0081	.0018	.0216	.0000	5.324	.0000	.0000	-.0001
#3	.0006	.0215	.0003	.0218	.0000	5.333	.0000	.0001	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	-.0116	.1542	.1557	.0286	-.0023	F142.1	.0003	.0119
Stddev	.0001	.0006	.0221	.0017	.0001	.0001	1.0	.0003	.0001
%RSD	26.25	5.536	14.35	1.102	.4631	5.553	.7362	102.9	.7436
#1	-.0004	-.0108	.1561	.1542	.0285	-.0022	142.2	.0005	.0119
#2	-.0007	-.0118	.1312	.1552	.0285	-.0024	141.1	.0000	.0118
#3	-.0005	-.0120	.1753	.1576	.0288	-.0024	143.1	.0003	.0119

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	.0016	.0708	-.0021	.0283	.0001	-.0015	.0001	.0057
Stddev	.0005	.0003	.0008	.0002	.0001	.0001	.0006	.0002	.0000
%RSD	64.52	20.18	1.161	11.50	.2884	71.34	41.09	172.5	.6887
#1	-.0002	.0018	.0706	-.0019	.0282	.0001	-.0010	.0002	.0056
#2	-.0012	.0012	.0701	-.0024	.0284	.0000	-.0013	-.0001	.0057
#3	-.0008	.0018	.0717	-.0020	.0283	.0001	-.0021	.0003	.0057

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2622.6	6342.6	47014.	10848.
Stddev	4.0	15.3	204.	30.
%RSD	.15348	.24065	.43474	.27216
#1	2623.8	6340.9	47099.	10879.
#2	2626.0	6358.6	47162.	10847.
#3	2618.2	6328.2	46781.	10820.

Zoom In Zoom Out

Sample Name: F94949-20A Acquired: 7/30/2012 12:48:08 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0439	.0011	.0524	-.0001	9.958	.0003	.0002	.0002
Stddev	.0002	.0066	.0011	.0003	.0001	.036	.0000	.0001	.0001
%RSD	60.67	15.11	98.06	.6496	79.52	.3579	11.29	36.33	34.83
#1	.0003	.0515	.0001	.0520	-.0002	9.953	.0004	.0002	.0001
#2	.0001	.0413	.0023	.0527	-.0001	9.995	.0003	.0003	.0002
#3	.0006	.0390	.0009	.0524	.0000	9.924	.0003	.0002	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0003	.0176	.2137	.3346	.0626	-.0025	F140.9	.0004	.0196
Stddev	.0003	.0007	.0214	.0115	.0007	.0000	2.2	.0001	.0003
%RSD	88.70	3.776	10.01	3.443	1.077	2.023	1.589	22.82	1.744
#1	-.0005	.0176	.1895	.3475	.0618	-.0025	138.4	.0004	.0193
#2	-.0003	.0182	.2211	.3253	.0627	-.0025	142.5	.0005	.0197
#3	.0000	.0169	.2303	.3311	.0632	-.0024	141.9	.0003	.0199

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	.0012	.1243	-.0020	.0523	.0013	-.0013	.0008	.0408
Stddev	.0005	.0008	.0006	.0002	.0003	.0001	.0006	.0002	.0002
%RSD	71.93	61.95	.5198	9.145	.6217	8.999	43.88	24.89	.4634
#1	-.0002	.0010	.1250	-.0020	.0521	.0013	-.0020	.0006	.0409
#2	-.0012	.0006	.1240	-.0019	.0527	.0012	-.0009	.0010	.0410
#3	-.0006	.0021	.1238	-.0023	.0521	.0014	-.0011	.0009	.0406

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.1	6330.4	47087.	10882.
Stddev	6.5	23.8	407.	27.
%RSD	.24806	.37585	.86456	.24689
#1	2617.7	6307.6	47519.	10895.
#2	2623.9	6328.6	47034.	10851.
#3	2630.7	6355.0	46710.	10901.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:52:29 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488	40.52	1.977	2.040	2.068	40.52	2.025	2.020	2.042	1.981
Stddev	.0016	.04	.007	.000	.005	.02	.003	.003	.004	.006
%RSD	.6507	.1043	.3800	.0078	.2564	.0461	.1534	.1658	.2011	.3289
#1	.2505	40.56	1.986	2.040	2.071	40.53	2.029	2.024	2.039	1.988
#2	.2473	40.53	1.974	2.039	2.072	40.52	2.023	2.020	2.041	1.979
#3	.2487	40.48	1.972	2.040	2.062	40.50	2.024	2.018	2.047	1.975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.23	39.86	39.86	2.031	2.037	40.73	1.986	2.005	1.966	1.979
Stddev	.04	.09	.06	.002	.002	.06	.006	.007	.003	.003
%RSD	.1078	.2273	.1602	.0949	.0761	.1524	.2920	.3308	.1662	.1716
#1	39.25	39.85	39.86	2.033	2.038	40.79	1.993	2.010	1.968	1.983
#2	39.18	39.77	39.79	2.032	2.038	40.67	1.981	1.997	1.968	1.979
#3	39.25	39.95	39.92	2.029	2.035	40.72	1.984	2.007	1.962	1.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.989	2.020	2.085	2.015	2.043	2.081	2.031
Stddev	.007	.004	.030	.006	.004	.003	.004
%RSD	.3306	.2067	1.427	.3015	.2163	.1405	.1780
#1	1.996	2.025	2.099	2.019	2.044	2.084	2.034
#2	1.989	2.017	2.104	2.008	2.039	2.080	2.027
#3	1.983	2.019	2.050	2.018	2.047	2.078	2.032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:52:29 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2479.7	6310.3	46776.	10759.
Stddev	6.1	20.2	109.	41.
%RSD	.24687	.32080	.23395	.38238
#1	2472.7	6290.2	46792.	10726.
#2	2484.0	6310.0	46877.	10745.
#3	2482.4	6330.7	46659.	10805.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:56:31 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0074	.0002	.0002	.0000	.0013	.0000	.0001	-.0002
Stddev	.0002	.0033	.0004	.0002	.0000	.0012	.000	.0000	.0003
%RSD	59.33	43.93	191.5	86.93	68.85	95.89	345.8	71.17	123.8
#1	.0004	.0061	-.0002	.0003	.0001	.0003	.0000	.0000	-.0003
#2	.0001	.0051	.0006	.0000	.0000	.0009	.0000	.0001	.0001
#3	.0004	.0111	.0003	.0003	.0000	.0026	.0000	.0000	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0085	.0148	.0099	.0001	F.0013	.0277	-.0001	.0009
Stddev	.0001	.0052	.0165	.0108	.0000	.0010	.0062	.0000	.0003
%RSD	37.88	61.03	111.2	108.6	51.15	73.13	22.42	58.23	36.66
#1	.0002	.0140	.0199	.0222	.0001	.0024	.0345	-.0001	.0012
#2	.0002	.0078	.0282	.0022	.0000	.0011	.0224	-.0001	.0005
#3	.0001	.0037	-.0036	.0053	.0001	.0005	.0262	-.0001	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0008	-.0001	-.0001	.0001	.0006	.0011	.0001	.0000
Stddev	.0004	.0015	.0002	.0004	.0001	.0001	.0005	.0001	.0001
%RSD	66.48	202.6	168.4	276.1	42.10	25.07	48.97	94.05	318.8
#1	-.0002	.0021	.0001	.0002	.0002	.0007	.0017	.0003	.0001
#2	-.0006	.0012	-.0002	.0000	.0002	.0006	.0008	.0001	-.0001
#3	-.0010	-.0009	-.0002	-.0006	.0001	.0004	.0007	.0001	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:56:31 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2851.6	6557.4	48881.	10854.
Stddev	2.8	14.8	229.	15.
%RSD	.09912	.22556	.46810	.13916
#1	2850.9	6551.4	48622.	10864.
#2	2849.2	6546.6	49054.	10836.
#3	2854.7	6574.3	48967.	10861.

Zoom In Zoom Out

Sample Name: F94949-22A Acquired: 7/30/2012 13:00:49 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0343	.0038	.0855	.0000	6.668	.0013	.0005	.0001
Stddev	.0002	.0057	.0007	.0002	.000	.007	.0000	.0000	.0001
%RSD	66.30	16.64	17.89	.2613	125.1	.1091	1.401	7.645	111.4
#1	.0004	.0311	.0046	.0857	-.0001	6.661	.0013	.0005	.0001
#2	.0001	.0309	.0032	.0856	.0000	6.676	.0013	.0005	.0000
#3	.0004	.0409	.0037	.0852	.0000	6.666	.0013	.0005	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0005	.0168	.1869	.2967	.0541	-.0017	F125.9	.0110	1.414
Stddev	.0001	.0012	.0162	.0067	.0001	.0002	.7	.0003	.006
%RSD	28.71	7.102	8.693	2.256	.1540	8.903	.5362	3.087	.4380
#1	.0004	.0180	.1720	.2895	.0541	-.0015	125.8	.0109	1.417
#2	.0007	.0156	.2043	.3026	.0541	-.0018	126.6	.0114	1.419
#3	.0004	.0168	.1844	.2982	.0542	-.0018	125.2	.0108	1.407

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0170	.0007	.3968	-.0016	.0451	.0005	-.0022	.0002	2.178
Stddev	.0012	.0010	.0007	.0000	.0001	.0001	.0003	.0002	.005
%RSD	7.045	145.2	.1869	2.516	.3291	14.32	14.53	67.32	.2340
#1	.0159	-.0003	.3963	-.0016	.0453	.0006	-.0019	.0001	2.181
#2	.0168	.0018	.3977	-.0016	.0450	.0006	-.0026	.0002	2.182
#3	.0182	.0006	.3965	-.0016	.0451	.0005	-.0022	.0004	2.173

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2644.2	6336.5	46974.	10888.
Stddev	9.6	13.0	108.	46.
%RSD	.36268	.20554	.23070	.42492
#1	2642.4	6330.2	46937.	10936.
#2	2635.7	6327.9	47096.	10844.
#3	2654.6	6351.5	46889.	10883.

Zoom In Zoom Out

Sample Name: F94949-23A Acquired: 7/30/2012 13:05:10 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0263	.0009	.0960	.0000	11.32	.0032	.0016	.0003
Stddev	.0003	.0066	.0004	.0002	.000	.01	.0000	.0001	.0001
%RSD	101.6	25.16	48.23	.2239	38.17	.0807	1.319	6.130	32.67
#1	.0002	.0308	.0007	.0958	.0000	11.31	.0033	.0017	.0002
#2	.0000	.0187	.0013	.0963	.0000	11.33	.0032	.0016	.0004
#3	.0006	.0294	.0006	.0959	.0000	11.31	.0032	.0015	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0106	.0074	.1499	.5948	.0801	-.0024	F126.7	.0253	1.569
Stddev	.0002	.0004	.0182	.0037	.0006	.0001	1.3	.0002	.006
%RSD	1.475	5.876	12.12	.6230	.7585	4.947	1.041	.6155	.3639
#1	.0104	.0078	.1295	.5922	.0798	-.0025	128.2	.0251	1.567
#2	.0105	.0069	.1644	.5932	.0797	-.0023	126.3	.0255	1.565
#3	.0107	.0073	.1559	.5990	.0808	-.0025	125.7	.0254	1.576

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	.0003	.5141	-.0022	.0329	.0006	-.0024	.0002	1.514
Stddev	.0002	.0011	.0003	.0002	.0001	.0001	.0006	.0000	.003
%RSD	8.225	338.0	.0562	9.290	.2296	15.27	23.67	27.52	.1932
#1	.0025	.0016	.5139	-.0023	.0329	.0006	-.0026	.0002	1.513
#2	.0021	-.0003	.5139	-.0023	.0329	.0005	-.0018	.0002	1.511
#3	.0023	-.0003	.5144	-.0020	.0330	.0007	-.0028	.0001	1.517

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2635.0	6323.2	46897.	10915.
Stddev	4.9	7.2	262.	43.
%RSD	.18437	.11425	.55916	.39673
#1	2639.8	6331.2	46880.	10895.
#2	2635.1	6317.2	47167.	10885.
#3	2630.1	6321.0	46643.	10965.

Zoom In Zoom Out

Sample Name: F95186-1 Acquired: 7/30/2012 13:09:28 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0233	.0010	.0096	.0000	120.3	-.0001	.0017	.0003
Stddev	.0002	.0025	.0007	.0000	.000	.6	.0000	.0001	.0001
%RSD	41.73	10.67	69.24	.3635	43.02	.5107	51.73	3.512	32.65
#1	.0002	.0256	.0002	.0096	.0000	119.7	-.0001	.0016	.0004
#2	.0005	.0235	.0014	.0096	.0000	120.1	-.0001	.0016	.0003
#3	.0005	.0207	.0013	.0097	.0000	120.9	.0000	.0017	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0007	-.0074	.6249	.4191	.0696	-.0036	F142.9	.0010	2.299
Stddev	.0001	.0005	.0068	.0061	.0000	.0002	1.5	.0001	.006
%RSD	19.87	6.146	1.088	1.454	.0474	4.906	1.042	11.73	.2489
#1	.0008	-.0069	.6284	.4163	.0696	-.0034	142.1	.0009	2.298
#2	.0006	-.0076	.6171	.4149	.0696	-.0036	141.9	.0012	2.294
#3	.0009	-.0077	.6293	.4261	.0697	-.0037	144.6	.0011	2.305

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0003	.1986	-.0024	.4326	.0013	-.0028	.0002	.3716
Stddev	.0006	.0010	.0020	.0001	.0015	.0001	.0007	.0001	.0011
%RSD	138.4	367.9	1.002	5.239	.3480	5.940	25.95	65.95	.3088
#1	.0010	-.0011	.1974	-.0024	.4309	.0014	-.0027	.0004	.3707
#2	.0004	.0008	.1974	-.0023	.4329	.0012	-.0022	.0002	.3712
#3	-.0002	-.0006	.2009	-.0025	.4339	.0012	-.0036	.0001	.3729

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2551.5	6165.4	46231.	10709.
Stddev	5.1	17.2	249.	81.
%RSD	.20140	.27945	.53890	.75635
#1	2549.3	6165.5	45977.	10781.
#2	2557.3	6182.5	46475.	10725.
#3	2547.7	6148.1	46240.	10621.

Zoom In Zoom Out

Sample Name: F95266-1 Acquired: 7/30/2012 13:13:47 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0016	.0340	.0011	.0033	.0000	.5841	.0192	.0399	.0031
Stddev	.0001	.0047	.0002	.0002	.000	.0054	.0000	.0001	.0001
%RSD	4.527	13.83	21.92	5.592	172.2	.9256	.1701	.1885	2.573
#1	.0017	.0318	.0008	.0031	.0000	.5883	.0191	.0398	.0032
#2	.0016	.0394	.0012	.0035	.0000	.5860	.0191	.0399	.0030
#3	.0016	.0308	.0013	.0033	-.0001	.5780	.0192	.0398	.0031

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0480	-.0004	.1044	.0995	.0013	.0038	F141.8	.1686	.0044
Stddev	.0003	.0009	.0150	.0127	.0000	.0001	2.9	.0005	.0003
%RSD	.6759	230.3	14.35	12.74	1.650	2.547	2.075	.2787	5.660
#1	.0482	-.0014	.0871	.0850	.0012	.0037	140.4	.1681	.0043
#2	.0477	-.0004	.1129	.1057	.0013	.0038	145.2	.1686	.0043
#3	.0483	.0005	.1132	.1079	.0013	.0039	139.8	.1690	.0047

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	.0017	.0891	-.0016	.0064	.0000	-.0012	.0006	.0987
Stddev	.0014	.0021	.0005	.0002	.0000	.000	.0004	.0001	.0003
%RSD	576.7	123.1	.5872	14.47	.3287	384.2	28.45	20.90	.3064
#1	.0003	.0037	.0892	-.0016	.0064	-.0001	-.0011	.0006	.0984
#2	-.0018	-.0005	.0895	-.0019	.0064	.0000	-.0017	.0004	.0990
#3	.0008	.0018	.0885	-.0014	.0064	.0000	-.0010	.0007	.0988

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2619.7	6410.6	47327.	10995.
Stddev	10.2	19.4	106.	102.
%RSD	.38815	.30267	.22391	.93016
#1	2631.3	6433.0	47434.	11018.
#2	2615.5	6398.0	47222.	10884.
#3	2612.2	6401.0	47325.	11084.

Zoom In Zoom Out

Sample Name: F95266-2 Acquired: 7/30/2012 13:18:05 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0070	.0504	.0004	.0085	-.0001	.6571	.0527	.0635	.0049
Stddev	.0004	.0062	.0002	.0001	.0000	.0030	.0001	.0001	.0003
%RSD	5.417	12.32	56.85	.7766	64.13	.4620	.2131	.1843	5.599
#1	.0072	.0493	.0006	.0085	-.0001	.6591	.0527	.0635	.0052
#2	.0072	.0448	.0002	.0086	.0000	.6536	.0527	.0634	.0047
#3	.0065	.0571	.0004	.0085	-.0001	.6586	.0529	.0637	.0049

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3249	.0125	.1114	.0891	.0021	.0028	F133.8	.2528	.0272
Stddev	.0006	.0024	.0170	.0070	.0000	.0001	2.6	.0004	.0008
%RSD	.1924	19.03	15.22	7.837	.9672	2.700	1.918	.1420	2.872
#1	.3245	.0152	.1203	.0824	.0021	.0027	136.7	.2524	.0268
#2	.3256	.0112	.0919	.0887	.0021	.0029	131.8	.2529	.0268
#3	.3247	.0110	.1222	.0963	.0021	.0029	133.0	.2531	.0281

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0009	.0014	.0867	-.0020	.0085	.0023	-.0009	.0005	.3083
Stddev	.0003	.0007	.0011	.0001	.0001	.0001	.0009	.0003	.0004
%RSD	29.86	52.33	1.235	5.374	.6733	3.101	99.42	62.39	.1438
#1	.0006	.0008	.0873	-.0019	.0085	.0023	-.0013	.0002	.3078
#2	.0010	.0010	.0855	-.0021	.0085	.0022	-.0016	.0006	.3084
#3	.0012	.0022	.0873	-.0020	.0086	.0024	.0001	.0007	.3086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2647.5	6600.4	48994.	11328.
Stddev	1.0	5.1	78.	101.
%RSD	.03798	.07785	.15824	.88739
#1	2647.2	6600.3	48915.	11228.
#2	2646.6	6595.3	48997.	11429.
#3	2648.6	6605.6	49070.	11327.

Zoom In Zoom Out

Sample Name: F95266-3 Acquired: 7/30/2012 13:22:24 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0387	.0010	.0081	.0000	.7485	.0645	.1217	.0038
Stddev	.0003	.0033	.0003	.0002	.000	.0007	.0001	.0001	.0003
%RSD	85.42	8.647	25.62	2.314	38.83	.0869	.2297	.0457	7.282
#1	.0004	.0408	.0008	.0081	.0000	.7480	.0646	.1217	.0041
#2	.0007	.0348	.0013	.0079	.0000	.7493	.0645	.1216	.0038
#3	.0001	.0404	.0011	.0082	-.0001	.7483	.0643	.1217	.0035

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2756	.0045	.1478	.1113	.0349	.0057	F128.8	.4688	.0144
Stddev	.0003	.0024	.0053	.0055	.0001	.0001	.7	.0008	.0003
%RSD	.0982	54.74	3.578	4.969	.3752	1.476	.5100	.1625	2.422
#1	.2756	.0021	.1536	.1150	.0349	.0056	128.8	.4686	.0146
#2	.2758	.0070	.1463	.1140	.0350	.0057	128.1	.4682	.0147
#3	.2753	.0043	.1434	.1050	.0348	.0058	129.4	.4697	.0140

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0011	.0003	.0707	-.0020	.0099	-.0006	-.0007	.0003	.4118
Stddev	.0002	.0005	.0014	.0004	.0001	.0001	.0005	.0002	.0003
%RSD	14.15	166.6	2.011	18.75	.9612	19.47	72.27	49.56	.0755
#1	.0013	.0004	.0719	-.0015	.0098	-.0006	-.0012	.0001	.4115
#2	.0010	.0007	.0712	-.0021	.0100	-.0005	-.0009	.0004	.4117
#3	.0012	-.0002	.0691	-.0022	.0100	-.0008	-.0001	.0003	.4121

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2645.1	6562.1	48821.	11276.
Stddev	6.4	10.7	202.	9.
%RSD	.24249	.16232	.41348	.07716
#1	2644.1	6552.5	49046.	11276.
#2	2652.0	6573.6	48762.	11284.
#3	2639.3	6560.3	48656.	11267.

Zoom In Zoom Out

Sample Name: F95266-4 Acquired: 7/30/2012 13:26:42 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0109	.0007	.0007	-.0001	.2735	.0003	.0003	.0002
Stddev	.0003	.0069	.0007	.0001	.0000	.0025	.0000	.0001	.0000
%RSD	180.7	63.11	98.34	15.28	49.50	.9173	10.54	21.28	21.54
#1	-.0001	.0044	.0014	.0008	.0000	.2726	.0003	.0003	.0002
#2	.0001	.0103	.0002	.0006	-.0001	.2716	.0004	.0004	.0002
#3	.0006	.0181	.0004	.0007	-.0001	.2763	.0003	.0003	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0027	-.0094	.0863	.0292	.0089	-.0021	F143.5	.0015	.0020
Stddev	.0001	.0006	.0112	.0128	.0001	.0001	.5	.0001	.0001
%RSD	3.834	6.172	12.95	43.76	1.322	6.074	.3790	5.258	3.979
#1	.0028	-.0088	.0965	.0145	.0090	-.0022	143.6	.0015	.0020
#2	.0026	-.0096	.0744	.0355	.0088	-.0020	143.9	.0016	.0020
#3	.0028	-.0099	.0880	.0376	.0090	-.0020	142.9	.0015	.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0014	.0873	-.0020	.0008	-.0007	-.0014	.0002	.0045
Stddev	.0009	.0016	.0006	.0001	.0000	.0000	.0002	.0001	.0000
%RSD	271.6	109.6	.7129	6.582	2.351	5.809	13.20	43.15	.9223
#1	-.0004	.0016	.0868	-.0019	.0008	-.0006	-.0014	.0002	.0044
#2	.0001	.0029	.0880	-.0019	.0008	-.0007	-.0016	.0001	.0045
#3	.0013	-.0002	.0870	-.0021	.0008	-.0007	-.0012	.0003	.0045

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2635.4	6308.9	47097.	10841.
Stddev	1.0	5.6	328.	49.
%RSD	.03846	.08854	.69692	.45352
#1	2635.5	6304.5	46939.	10784.
#2	2636.3	6315.2	47474.	10863.
#3	2634.3	6307.0	46878.	10875.

Zoom In Zoom Out

Sample Name: F95266-5 Acquired: 7/30/2012 13:31:07 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0204	.0005	.0213	-.0001	2.336	.0049	.0347	.0002
Stddev	.0003	.0058	.0005	.0001	.0000	.005	.0000	.0001	.0000
%RSD	57.25	28.60	88.03	.5332	20.76	.2309	.4473	.1874	15.33
#1	.0005	.0206	.0003	.0211	.0000	2.341	.0049	.0347	.0003
#2	.0008	.0261	.0010	.0213	-.0001	2.331	.0050	.0348	.0003
#3	.0002	.0144	.0002	.0213	.0000	2.337	.0049	.0347	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0001	-.0147	.1868	.3304	.0079	-.0009	F141.4	.1872	.0010
Stddev	.0001	.0008	.0140	.0109	.0000	.0001	.1	.0004	.0003
%RSD	72.73	5.322	7.486	3.289	.5349	6.482	.0654	.2041	33.64
#1	-.0001	-.0138	.1990	.3377	.0079	-.0010	141.3	.1872	.0007
#2	-.0002	-.0152	.1715	.3356	.0078	-.0009	141.5	.1876	.0009
#3	.0000	-.0150	.1899	.3179	.0079	-.0009	141.4	.1868	.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	.0018	.2517	-.0021	.0336	-.0005	-.0018	.0003	.1128
Stddev	.0005	.0013	.0009	.0001	.0001	.0001	.0003	.0003	.0002
%RSD	132.5	69.68	.3496	5.500	.2145	22.37	16.37	87.55	.1672
#1	.0009	.0025	.2520	-.0022	.0336	-.0004	-.0017	.0001	.1130
#2	-.0002	.0004	.2523	-.0020	.0335	-.0005	-.0015	.0002	.1128
#3	.0005	.0026	.2507	-.0021	.0337	-.0006	-.0021	.0006	.1126

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.4	6303.3	46787.	10872.
Stddev	5.4	10.4	233.	6.
%RSD	.20696	.16433	.49743	.05334
#1	2621.1	6303.1	46952.	10871.
#2	2621.4	6293.0	46888.	10878.
#3	2630.6	6313.7	46521.	10866.

Zoom In Zoom Out

Sample Name: F95266-6 Acquired: 7/30/2012 13:35:27 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0008	.0570	.0005	.0039	.0000	1.108	.0444	.0465	.0011
Stddev	.0001	.0063	.0009	.0001	.0000	.003	.0001	.0001	.0002
%RSD	11.20	11.00	172.0	3.431	315.7	.2983	.1474	.2743	21.69
#1	.0009	.0541	.0000	.0038	.0001	1.110	.0443	.0467	.0013
#2	.0007	.0642	.0000	.0039	.0000	1.104	.0445	.0465	.0010
#3	.0008	.0527	.0015	.0041	.0000	1.110	.0443	.0465	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0544	.0009	.1446	.1267	.0727	.0020	F131.1	.1831	.0112
Stddev	.0003	.0008	.0088	.0139	.0002	.0001	.9	.0005	.0004
%RSD	.5459	93.07	6.117	10.95	.2937	4.992	.6829	.2511	3.282
#1	.0544	.0000	.1549	.1424	.0726	.0020	132.0	.1829	.0116
#2	.0540	.0017	.1395	.1161	.0726	.0022	131.0	.1836	.0111
#3	.0546	.0009	.1396	.1216	.0730	.0020	130.2	.1828	.0109

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0016	.1557	-.0021	.0115	.0005	-.0009	.0002	.2860
Stddev	.0008	.0015	.0013	.0002	.0001	.0000	.0001	.0001	.0012
%RSD	618.8	93.96	.8346	7.688	.9477	3.680	12.19	58.17	.4158
#1	-.0010	.0032	.1566	-.0019	.0116	.0005	-.0008	.0001	.2858
#2	.0006	.0009	.1564	-.0022	.0115	.0005	-.0009	.0002	.2873
#3	.0000	.0005	.1542	-.0021	.0114	.0005	-.0010	.0002	.2850

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2652.9	6437.2	47957.	11097.
Stddev	12.6	23.8	170.	10.
%RSD	.47345	.37045	.35503	.09087
#1	2649.9	6435.0	48152.	11108.
#2	2642.1	6414.5	47878.	11089.
#3	2666.7	6462.0	47840.	11093.

Zoom In Zoom Out

Sample Name: F95357-1 Acquired: 7/30/2012 13:39:45 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0084	-.0001	.1163	.0000	66.99	-.0002	.0018	-.0002
Stddev	.0004	.0031	.0006	.0001	.000	.18	.0000	.0000	.0004
%RSD	3351.	36.51	1063.	.0578	6.390	.2623	14.40	1.938	203.6
#1	.0004	.0053	-.0006	.1164	.0000	67.11	-.0002	.0018	-.0002
#2	-.0001	.0114	.0005	.1163	.0000	66.79	-.0003	.0018	.0002
#3	-.0003	.0083	-.0001	.1163	-.0001	67.07	-.0002	.0018	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0004	.0010	.4534	2.026	.6574	-.0036	F142.1	.0009	-.0023
Stddev	.0002	.0007	.0230	.029	.0008	.0001	1.7	.0001	.0003
%RSD	62.65	73.67	5.080	1.445	.1276	2.401	1.178	6.104	12.34
#1	-.0003	.0011	.4610	2.028	.6564	-.0036	143.9	.0009	-.0026
#2	-.0006	.0017	.4716	1.995	.6576	-.0037	140.5	.0008	-.0021
#3	-.0002	.0002	.4275	2.054	.6581	-.0035	142.0	.0009	-.0023

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	-.0005	.4672	-.0024	.0964	.0014	-.0029	.0004	.0070
Stddev	.0004	.0006	.0022	.0002	.0002	.0002	.0007	.0001	.0001
%RSD	33.38	131.4	.4792	9.915	.2496	12.66	23.67	17.55	.8807
#1	-.0014	-.0011	.4648	-.0027	.0962	.0013	-.0036	.0004	.0070
#2	-.0011	-.0003	.4675	-.0025	.0966	.0016	-.0022	.0005	.0071
#3	-.0007	.0001	.4693	-.0022	.0962	.0013	-.0028	.0004	.0071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2585.6	6226.6	46609.	10828.
Stddev	3.9	3.4	196.	51.
%RSD	.15227	.05512	.42045	.46750
#1	2585.0	6226.4	46835.	10812.
#2	2581.9	6230.2	46481.	10884.
#3	2589.8	6223.3	46512.	10787.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:44:07 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2490	40.42	2.003	2.040	2.047	40.36	2.028	2.022	2.032	1.989
Stddev	.0006	.04	.005	.005	.003	.09	.002	.002	.001	.001
%RSD	.2298	.0935	.2428	.2704	.1364	.2189	.0942	.1180	.0572	.0592
#1	.2490	40.40	2.000	2.037	2.050	40.39	2.027	2.021	2.031	1.990
#2	.2496	40.40	2.009	2.046	2.045	40.26	2.030	2.025	2.034	1.990
#3	.2484	40.46	2.001	2.036	2.046	40.44	2.027	2.020	2.032	1.988
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.40	40.05	39.88	2.037	2.026	40.62	2.015	1.981	1.991	2.007
Stddev	.13	.07	.15	.003	.002	.02	.004	.002	.003	.002
%RSD	.3344	.1630	.3823	.1666	.1011	.0471	.2136	.0809	.1681	.1044
#1	39.31	39.98	39.87	2.041	2.025	40.63	2.010	1.982	1.988	2.006
#2	39.35	40.11	39.73	2.035	2.028	40.60	2.017	1.979	1.995	2.010
#3	39.55	40.07	40.03	2.036	2.025	40.63	2.017	1.981	1.992	2.006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.016	2.037	2.077	2.025	2.008	2.079	2.028
Stddev	.002	.003	.003	.003	.004	.002	.002
%RSD	.1108	.1642	.1203	.1281	.1885	.0816	.0868
#1	2.013	2.034	2.078	2.025	2.012	2.079	2.026
#2	2.018	2.040	2.079	2.027	2.004	2.081	2.029
#3	2.015	2.038	2.074	2.022	2.009	2.078	2.028
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:44:07 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2492.3	6276.5	46880.	10760.
Stddev	3.4	3.0	77.	69.
%RSD	.13729	.04753	.16361	.63976
#1	2491.0	6279.8	46876.	10765.
#2	2496.2	6273.9	46805.	10826.
#3	2489.7	6276.0	46959.	10688.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:48:03 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0079	.0010	.0002	.0001	.0030	.0001	.0001	.0001
Stddev	.0003	.0046	.0004	.0002	.0000	.0018	.0000	.0001	.0001
%RSD	186.2	58.77	41.48	99.83	19.58	57.58	40.38	95.61	116.6
#1	-.0001	.0129	.0006	.0004	.0001	.0048	.0000	.0001	.0000
#2	.0001	.0037	.0014	.0002	.0001	.0013	.0000	.0001	.0001
#3	.0005	.0070	.0009	.0000	.0001	.0030	.0001	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0126	-.0021	.0030	.0001	F.0013	.0291	.0000	.0006
Stddev	.0003	.0052	.0152	.0044	.0000	.0010	.0037	.0001	.0005
%RSD	306.9	41.57	718.4	145.5	13.55	75.30	12.76	999.9	82.93
#1	.0004	.0182	.0082	.0081	.0001	.0024	.0298	-.0001	.0003
#2	.0000	.0116	-.0196	.0004	.0001	.0012	.0250	.0000	.0004
#3	-.0001	.0079	.0051	.0006	.0001	.0004	.0323	.0001	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0011	.0004	-.0002	.0002	.0009	.0003	.0002	.0001
Stddev	.0006	.0009	.0006	.0001	.0000	.0002	.0001	.0002	.0000
%RSD	233.2	78.03	148.3	32.08	22.36	24.08	22.38	67.36	60.14
#1	-.0004	.0001	-.0001	-.0001	.0002	.0012	.0003	.0004	.0001
#2	.0004	.0018	.0002	-.0002	.0001	.0008	.0004	.0003	.0001
#3	.0007	.0014	.0012	-.0002	.0002	.0008	.0003	.0001	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:48:03 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2869.4	6563.8	48942.	10872.
Stddev	4.6	4.5	127.	66.
%RSD	.16015	.06911	.25868	.60700
#1	2866.5	6561.3	49063.	10936.
#2	2867.1	6561.1	48954.	10804.
#3	2874.7	6569.1	48810.	10876.

Zoom In Zoom Out

Sample Name: MP23320-D2 Acquired: 7/30/2012 13:52:20 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.0215	.0000	.2064	.0000	53.42	-.0001	.0051	.0001
Stddev	.0006	.0056	.0006	.0005	.000	.12	.0000	.0000	.0001
%RSD	86.33	25.76	5936.	.2455	197.2	.2266	24.96	.4474	143.6
#1	.0002	.0152	.0007	.2065	.0000	53.54	-.0001	.0051	.0001
#2	.0014	.0243	-.0002	.2058	-.0001	53.30	-.0002	.0051	-.0001
#3	.0005	.0252	-.0004	.2068	-.0001	53.41	-.0001	.0051	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	.0148	.4065	3.885	2.197	-.0027	F152.4	.0017	-.0016
Stddev	.0001	.0016	.0162	.005	.008	.0002	1.1	.0001	.0005
%RSD	22.94	10.57	3.988	.1322	.3750	5.837	.7368	4.170	29.06
#1	-.0002	.0156	.4198	3.887	2.192	-.0027	153.3	.0017	-.0013
#2	-.0003	.0157	.4112	3.889	2.192	-.0026	151.2	.0017	-.0022
#3	-.0002	.0130	.3885	3.879	2.206	-.0029	152.9	.0018	-.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0001	.0000	.5137	-.0022	.0692	.0020	-.0022	.0013	.0119
Stddev	.0007	.0007	.0015	.0004	.0002	.0001	.0008	.0001	.0000
%RSD	1197.	2996.	.2851	20.90	.2998	7.328	38.22	4.223	.0807
#1	.0001	-.0002	.5140	-.0024	.0692	.0020	-.0012	.0013	.0119
#2	-.0007	-.0006	.5150	-.0016	.0691	.0022	-.0024	.0012	.0119
#3	.0008	.0008	.5121	-.0024	.0695	.0019	-.0028	.0012	.0119

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2584.1	6247.6	46600.	10875.
Stddev	5.3	18.3	173.	52.
%RSD	.20521	.29260	.37078	.48156
#1	2583.3	6257.8	46620.	10822.
#2	2579.3	6226.5	46762.	10875.
#3	2589.8	6258.5	46418.	10927.

Zoom In Zoom Out

Sample Name: MP23320-MB2 Acquired: 7/30/2012 13:56:42 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0069	.0008	.0000	-.0001	.0118	.0000	.0000	.0001
Stddev	.0002	.0083	.0005	.000	.0001	.0015	.000	.0000	.0002
%RSD	918.2	120.2	65.60	81.75	96.13	13.16	161.7	230.5	136.6
#1	.0002	.0128	.0012	.0000	.0000	.0133	.0000	.0000	.0003
#2	.0000	-.0026	.0002	.0000	-.0001	.0118	.0000	.0000	.0001
#3	-.0001	.0104	.0011	.0000	-.0001	.0102	-.0001	.0001	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0007	-.0124	.0285	.0159	.0001	-.0018	F146.4	.0001	.0012
Stddev	.0002	.0012	.0027	.0113	.0000	.0001	.7	.0001	.0002
%RSD	26.00	9.443	9.562	71.02	11.79	3.068	.4698	98.57	21.01
#1	-.0009	-.0133	.0261	.0289	.0001	-.0018	147.1	.0003	.0014
#2	-.0005	-.0129	.0314	.0084	.0001	-.0019	146.2	.0000	.0009
#3	-.0007	-.0111	.0279	.0105	.0001	-.0019	145.7	.0001	.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	.0017	.0028	-.0021	.0003	-.0006	-.0017	.0002	.0001
Stddev	.0002	.0012	.0005	.0002	.0000	.0000	.0008	.0001	.0000
%RSD	68.11	74.43	17.68	8.757	9.431	5.180	48.92	31.59	39.46
#1	.0002	.0005	.0024	-.0020	.0003	-.0006	-.0011	.0002	.0001
#2	.0001	.0029	.0027	-.0019	.0002	-.0006	-.0012	.0002	.0000
#3	.0004	.0016	.0034	-.0023	.0003	-.0006	-.0026	.0003	.0001

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2644.2	6328.5	46833.	10917.
Stddev	8.3	19.0	118.	77.
%RSD	.31230	.30080	.25275	.70245
#1	2653.8	6350.4	46737.	10976.
#2	2639.6	6315.5	46796.	10830.
#3	2639.4	6319.6	46965.	10944.

Zoom In Zoom Out

Sample Name: MP23320-B2 Acquired: 7/30/2012 14:01:10 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0502	27.95	2.036	2.115	.0531	26.02	.0513	.5145	.2104
Stddev	.0002	.06	.003	.006	.0002	.10	.0001	.0006	.0010
%RSD	.4456	.2219	.1208	.3088	.4424	.3993	.2360	.1126	.4681
#1	.0504	27.94	2.034	2.111	.0533	26.01	.0511	.5139	.2114
#2	.0499	28.02	2.038	2.123	.0533	26.13	.0514	.5151	.2104
#3	.0502	27.90	2.037	2.112	.0529	25.92	.0513	.5145	.2094

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2589	27.06	26.06	25.26	.5197	.5209	F169.2	.5186	.4909
Stddev	.0006	.04	.12	.12	.0022	.0007	1.8	.0012	.0017
%RSD	.2321	.1330	.4431	.4736	.4291	.1365	1.052	.2234	.3390
#1	.2586	27.04	25.96	25.25	.5213	.5202	171.2	.5173	.4897
#2	.2586	27.10	26.19	25.39	.5205	.5216	168.5	.5194	.4901
#3	.2596	27.03	26.02	25.15	.5171	.5208	167.8	.5193	.4928

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5099	2.092	.0228	.5202	.5302	.5173	1.972	.5222	.5278
Stddev	.0015	.008	.0020	.0006	.0007	.0007	.007	.0010	.0009
%RSD	.2852	.3762	8.647	.1221	.1288	.1289	.3541	.1992	.1632
#1	.5090	2.087	.0251	.5195	.5304	.5167	1.968	.5233	.5269
#2	.5116	2.101	.0216	.5208	.5307	.5172	1.968	.5213	.5286
#3	.5092	2.087	.0217	.5203	.5294	.5180	1.980	.5220	.5278

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2531.1	6286.3	46702.	10764.
Stddev	3.2	14.7	67.	73.
%RSD	.12709	.23443	.14411	.68062
#1	2534.8	6290.6	46678.	10737.
#2	2528.9	6269.9	46651.	10708.
#3	2529.5	6298.4	46779.	10847.

Zoom In Zoom Out

Sample Name: MP23320-MB3 Acquired: 7/30/2012 14:05:17 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0063	.0013	.0003	-.0001	.0041	.0000	.0001	-.0001
Stddev	.0003	.0033	.0004	.0001	.0001	.0010	.000	.0001	.0002
%RSD	92.56	51.66	28.03	44.08	73.39	23.66	179.9	88.57	172.4
#1	.0000	.0071	.0017	.0004	-.0001	.0035	-.0001	.0000	.0001
#2	.0003	.0028	.0014	.0004	-.0001	.0052	.0000	.0001	-.0003
#3	.0005	.0092	.0009	.0002	.0000	.0036	.0000	.0001	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.0017	.0414	-.0017	.0000	-.0016	F153.7	.0003	.0015
Stddev	.0002	.0030	.0247	.0085	.0000	.0001	1.7	.0001	.0006
%RSD	37.94	175.8	59.57	493.2	30.39	8.389	1.093	39.30	36.52
#1	-.0004	.0039	.0133	.0018	.0000	-.0015	155.7	.0002	.0020
#2	-.0004	.0029	.0516	-.0114	.0000	-.0017	152.6	.0004	.0009
#3	-.0007	-.0017	.0594	.0045	.0001	-.0018	152.9	.0002	.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	.0033	.0022	-.0021	.0003	-.0004	-.0006	.0000	.0003
Stddev	.0006	.0008	.0003	.0002	.0000	.0000	.0008	.000	.0001
%RSD	149.2	25.51	13.92	9.951	12.29	11.07	138.5	5530.	26.59
#1	-.0001	.0041	.0023	-.0019	.0003	-.0004	-.0005	.0000	.0004
#2	.0010	.0024	.0024	-.0022	.0004	-.0005	.0001	.0001	.0004
#3	.0002	.0033	.0018	-.0023	.0003	-.0004	-.0015	-.0001	.0002

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2632.3	6313.9	46621.	10825.
Stddev	3.0	9.2	77.	53.
%RSD	.11267	.14492	.16416	.49092
#1	2635.6	6309.3	46655.	10777.
#2	2631.7	6324.4	46674.	10815.
#3	2629.8	6307.8	46533.	10882.

Zoom In Zoom Out

Sample Name: MP23320-B3 Acquired: 7/30/2012 14:09:45 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0520	28.27	2.094	2.185	.0547	26.24	.0530	.5306	.2168
Stddev	.0003	.05	.003	.005	.0002	.07	.0000	.0003	.0006
%RSD	.5266	.1726	.1590	.2481	.3118	.2658	.0892	.0535	.2927
#1	.0517	28.24	2.098	2.179	.0545	26.17	.0530	.5309	.2169
#2	.0522	28.33	2.094	2.190	.0548	26.31	.0531	.5305	.2173
#3	.0522	28.25	2.091	2.187	.0548	26.24	.0530	.5304	.2161

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2673	27.32	26.35	25.46	.5386	.5448	F176.2	.5340	.5065
Stddev	.0002	.09	.07	.07	.0007	.0010	1.7	.0009	.0003
%RSD	.0656	.3243	.2788	.2845	.1207	.1760	.9378	.1767	.0658
#1	.2674	27.31	26.30	25.37	.5380	.5440	177.8	.5350	.5063
#2	.2674	27.41	26.43	25.51	.5393	.5459	176.2	.5337	.5069
#3	.2671	27.23	26.31	25.48	.5386	.5445	174.5	.5332	.5064

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5252	2.145	.0041	.5439	.5538	.5417	2.042	.5387	.5433
Stddev	.0016	.009	.0004	.0006	.0009	.0020	.001	.0008	.0007
%RSD	.3085	.4054	9.431	.1016	.1699	.3775	.0296	.1464	.1255
#1	.5262	2.152	.0046	.5441	.5527	.5398	2.042	.5382	.5438
#2	.5233	2.148	.0038	.5443	.5541	.5439	2.041	.5396	.5437
#3	.5260	2.136	.0041	.5433	.5545	.5413	2.041	.5382	.5425

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2530.3	6314.3	46815.	10883.
Stddev	1.7	2.4	106.	12.
%RSD	.06851	.03815	.22741	.10958
#1	2528.4	6314.6	46757.	10869.
#2	2531.6	6316.5	46751.	10887.
#3	2531.1	6311.7	46938.	10892.

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 14:13:52 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0094	.2308	.0119	.2096	.0054	1.075	.0057	.0545	.0107	.0261
Stddev	.0005	.0057	.0001	.0001	.0000	.001	.0000	.0001	.0002	.0003
%RSD	5.160	2.464	.9879	.0700	.7592	.1339	.6881	.1476	2.297	1.083
#1	.0100	.2347	.0118	.2098	.0054	1.075	.0057	.0546	.0107	.0262
#2	.0092	.2335	.0119	.2096	.0054	1.076	.0057	.0544	.0109	.0264
#3	.0092	.2243	.0120	.2095	.0053	1.073	.0058	.0544	.0104	.0258

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3242	10.17	5.275	.0163	.0489	10.47	.0434	.0058	.0054	.0130
Stddev	.0029	.02	.003	.0001	.0003	.02	.0002	.0005	.0009	.0016
%RSD	.8986	.2075	.0526	.4487	.5605	.1746	.3710	8.464	17.06	12.13
#1	.3259	10.19	5.271	.0163	.0492	10.49	.0433	.0058	.0058	.0147
#2	.3258	10.15	5.276	.0163	.0488	10.46	.0433	.0063	.0060	.0115
#3	.3208	10.18	5.276	.0164	.0487	10.45	.0436	.0053	.0043	.0128

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0046	.0519	.0107	.0098	.0114	.0531	.0228
Stddev	.0002	.0002	.0000	.0002	.0003	.0002	.0001
%RSD	3.344	.3152	.2459	2.136	2.526	.3082	.5230
#1	.0047	.0520	.0107	.0098	.0117	.0533	.0229
#2	.0047	.0517	.0107	.0100	.0112	.0530	.0227
#3	.0045	.0520	.0107	.0096	.0113	.0530	.0228

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2812.5	6530.6	48402.	10821.
Stddev	5.5	20.7	134.	21.
%RSD	.19542	.31734	.27771	.19100
#1	2806.2	6519.5	48509.	10844.
#2	2815.8	6554.5	48446.	10810.
#3	2815.5	6517.7	48251.	10807.

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 14:18:02 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	490.1	.0012	.0057	.0001	469.0	-.0003	.0005	-.0001	-.0003
Stddev	.0003	2.1	.0013	.0001	.0000	2.8	.0001	.0000	.0004	.0001
%RSD	80.76	.4193	107.5	1.780	18.32	.5868	50.20	6.606	408.7	49.51
#1	.0000	488.6	.0009	.0057	.0000	465.9	-.0001	.0005	.0004	-.0003
#2	.0004	489.3	.0001	.0056	.0001	471.1	-.0002	.0005	-.0005	-.0001
#3	.0005	492.4	.0027	.0058	.0001	470.0	-.0004	.0006	-.0002	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	179.1	.0308	486.8	-.0002	-.0008	.1474	-.0001	.0020	.0000	-.0019
Stddev	1.0	.0130	1.3	.0000	.0002	.0085	.0001	.0010	.001	.0003
%RSD	.5528	42.23	.2568	12.26	25.91	5.745	85.82	48.74	7795.	15.28
#1	178.1	.0398	485.6	-.0002	-.0007	.1474	-.0002	.0017	-.0014	-.0017
#2	179.0	.0366	486.7	-.0002	-.0010	.1559	-.0001	.0030	.0009	-.0022
#3	180.1	.0159	488.1	-.0002	-.0006	.1390	.0000	.0012	.0005	-.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0530	-.0021	.0056	-.0021	-.0009	-.0011	.0001
Stddev	.0015	.0002	.0001	.0002	.0025	.0004	.0001
%RSD	2.862	7.305	1.610	10.29	284.0	33.31	163.7
#1	.0544	-.0020	.0057	-.0023	-.0019	-.0010	.0002
#2	.0531	-.0023	.0056	-.0019	.0019	-.0008	.0001
#3	.0514	-.0021	.0055	-.0019	-.0026	-.0015	-.0001

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2227.9	5842.5	42733.	10459.
Stddev	1.3	3.3	32.	36.
%RSD	.05913	.05567	.07485	.34167
#1	2226.4	5839.2	42696.	10489.
#2	2229.0	5845.7	42748.	10419.
#3	2228.4	5842.6	42755.	10468.

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 14:22:34 Type: Unk
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.019	495.8	1.018	.5290	.5023	465.8	.9450	.4742	.5130
Stddev	.004	4.4	.002	.0011	.0003	3.1	.0004	.0003	.0010
%RSD	.4432	.8964	.1768	.2039	.0560	.6676	.0442	.0669	.1966
#1	1.024	491.6	1.019	.5295	.5027	466.1	.9455	.4744	.5136
#2	1.018	495.5	1.020	.5278	.5022	462.6	.9448	.4738	.5118
#3	1.015	500.4	1.017	.5298	.5022	468.8	.9447	.4742	.5136

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5510	182.4	-.0053	494.6	.4983	.9665	.1238	.9233	.9645
Stddev	.0008	.3	.0063	1.9	.0006	.0010	.0044	.0018	.0024
%RSD	.1499	.1694	118.5	.3760	.1145	.0991	3.576	.1931	.2535
#1	.5515	182.1	-.0065	494.2	.4988	.9668	.1283	.9251	.9648
#2	.5515	182.7	-.0110	493.0	.4977	.9655	.1194	.9234	.9619
#3	.5501	182.3	.0015	496.7	.4985	.9673	.1237	.9215	.9668

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.018	1.015	.0097	.8745	1.018	1.031	.9662	.5100	.9413
Stddev	.002	.003	.0017	.0012	.002	.003	.0017	.0014	.0017
%RSD	.2161	.2915	17.76	.1399	.1432	.3148	.1726	.2828	.1838
#1	1.019	1.018	.0093	.8759	1.020	1.034	.9681	.5113	.9421
#2	1.019	1.016	.0115	.8740	1.018	1.030	.9654	.5084	.9393
#3	1.015	1.012	.0082	.8736	1.017	1.028	.9650	.5101	.9425

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2188.4	5817.0	42703.	10397.
Stddev	1.6	3.1	178.	48.
%RSD	.07123	.05317	.41665	.46392
#1	2188.5	5818.3	42528.	10397.
#2	2189.9	5813.5	42884.	10445.
#3	2186.8	5819.3	42698.	10349.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:26:57 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	40.42	2.000	2.030	2.033	40.34	2.031	2.026	2.037	1.998
Stddev	.0020	.08	.004	.005	.004	.11	.003	.003	.006	.008
%RSD	.8069	.1979	.1962	.2568	.1862	.2844	.1448	.1259	.2846	.3864
#1	.2491	40.43	1.996	2.032	2.035	40.29	2.027	2.023	2.044	1.991
#2	.2521	40.49	2.004	2.034	2.036	40.47	2.031	2.027	2.034	2.006
#3	.2483	40.33	2.000	2.024	2.029	40.25	2.033	2.027	2.034	1.996
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.61	40.11	40.00	2.046	2.025	40.66	2.014	1.988	1.993	2.006
Stddev	.13	.13	.12	.004	.004	.06	.005	.003	.006	.001
%RSD	.3379	.3153	.3090	.2217	.2159	.1492	.2317	.1266	.3202	.0657
#1	39.63	40.01	39.91	2.051	2.020	40.65	2.009	1.991	1.986	2.006
#2	39.74	40.25	40.14	2.044	2.027	40.73	2.016	1.988	1.998	2.004
#3	39.47	40.08	39.95	2.043	2.028	40.61	2.018	1.986	1.995	2.006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.013	2.042	2.060	2.037	2.019	2.086	2.036
Stddev	.005	.005	.018	.014	.001	.004	.001
%RSD	.2355	.2330	.8833	.6739	.0465	.2071	.0418
#1	2.008	2.037	2.039	2.038	2.020	2.088	2.035
#2	2.016	2.044	2.073	2.050	2.018	2.088	2.036
#3	2.015	2.045	2.069	2.023	2.020	2.081	2.037
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:26:57 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2505.9	6328.7	46958.	10733.
Stddev	3.1	8.0	262.	81.
%RSD	.12437	.12646	.55846	.75820
#1	2502.6	6337.6	46716.	10793.
#2	2508.8	6326.2	46920.	10640.
#3	2506.1	6322.2	47237.	10764.

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:30:56 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0115	.0009	.0003	.0002	.0075	.0001	.0002	.0000
Stddev	.0002	.0016	.0001	.0002	.0001	.0007	.0000	.0000	.000
%RSD	320.3	14.24	13.21	54.76	25.94	9.067	35.06	27.76	1070.
#1	-.0001	.0100	.0010	.0005	.0003	.0071	.0001	.0001	-.0001
#2	.0002	.0112	.0008	.0003	.0002	.0083	.0001	.0002	.0002
#3	.0000	.0132	.0008	.0002	.0002	.0072	.0001	.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0171	.0024	.0041	.0002	F.0015	.0216	.0001	.0008
Stddev	.0001	.0063	.0165	.0062	.0000	.0010	.0029	.0001	.0007
%RSD	47.14	37.09	698.4	153.3	14.49	70.05	13.25	57.57	89.56
#1	.0001	.0236	.0159	.0042	.0001	.0026	.0248	.0002	.0002
#2	.0002	.0168	-.0161	.0102	.0001	.0012	.0208	.0001	.0017
#3	.0003	.0109	.0072	-.0023	.0002	.0006	.0192	.0000	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0006	-.0002	.0002	.0003	.0005	.0007	.0006	.0001
Stddev	.0013	.0002	.0002	.0003	.0000	.0001	.0005	.0002	.0000
%RSD	196.0	27.62	154.0	182.5	4.244	22.67	64.29	31.37	39.17
#1	.0019	.0008	.0001	.0005	.0002	.0005	.0011	.0008	.0001
#2	.0007	.0006	-.0002	.0001	.0003	.0006	.0002	.0004	.0001
#3	-.0006	.0005	-.0004	-.0001	.0002	.0004	.0007	.0005	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:30:56 Type: QC
Method: 60102007_041712(v259) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.6	6580.6	49160.	10746.
Stddev	5.4	7.5	184.	41.
%RSD	.18673	.11464	.37396	.38548
#1	2885.7	6585.5	49322.	10727.
#2	2875.4	6572.0	48960.	10794.
#3	2877.8	6584.5	49197.	10718.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.009834	0.000000	No
			Fe	0.000009	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.053780	0.000000	No
As 189.042 {478}	☒	5	Fe	-0.000045	0.000000	No
			Cr	-0.001861	0.000000	No
			Mo	0.000920	0.000000	No
			Al	0.000004	0.000000	No
			Ca	-0.000005	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 313.042 {108}	☒	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	2	Fe	0.000083	0.000000	No
			Ca	0.000003	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.002120	0.000000	No
			Fe	-0.000002	0.000000	No
Cr 267.716 {126}	☒	3	Al	0.000003	0.000000	No
			Fe	-0.000010	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000093	0.000000	No
			Ca	0.000000	0.000000	No
			Mo	0.000198	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000002	0.000000	No
			Mg	0.000001	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000014	0.000000	No
			Mg	0.000003	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000020	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000067	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000971	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	☒	9	Al	0.000229	0.000000	No
			Fe	-0.000037	0.000000	No
			Mo	-0.001280	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000158	0.000000	No
			Ca	-0.000011	0.000000	No
			Cr	-0.000260	0.000000	No
			Mg	0.000006	0.000000	No
Sb 206.833 {463}	☒	8	Fe	0.000026	0.000000	No
			Cr	0.012815	0.000000	No
			Mo	-0.000310	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.001708	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
Se 196.090 {472}	☒	10	Fe	0.000000	0.000000	No
			Ca	-0.000011	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	0.000000	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000005	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000003	0.000000	No
Tl 190.856 {477}	☒	11	Co	0.001145	0.000000	No
			Fe	0.000036	0.000000	No
			Al	-0.000024	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.001210	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	-0.000007	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.025078	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000009	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.008094	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.000965	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000008	0.000000	No
			As	0.001128	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.000050	0.436911	0.000000	1.000000
Al 396.152 { 85}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.001631	0.135397	0.000000	1.000000
As 189.042 {478}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000539	0.174107	0.000000	1.000000
Ba 455.403 { 74}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.004256	7.450134	0.000000	1.000000
Be 313.042 {108}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.001096	8.116256	0.000000	1.000000
Ca 317.933 {106}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.004563	0.255879	0.000000	1.000000
Cd 226.502 {449}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000551	4.566547	0.000000	1.000000
Co 228.616 {447}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.001036	2.188505	0.000000	1.000000
Cr 267.716 {126}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000022	0.385721	0.000000	1.000000
Cu 324.754 {104}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.005011	0.608614	0.000000	1.000000
Fe 259.940 {130}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.002692	0.161304	0.000000	1.000000
In 230.606 {446}*	7/30/2012 9:50:54	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.002631	0.069639	0.000000	1.000000
Mg 279.079 {121}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000255	0.024125	0.000000	1.000000
Mn 257.610 {131}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.000338	2.092634	0.000000	1.000000
Mo 202.030 {467}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.003048	1.153292	0.000000	1.000000
Na 589.592 { 57}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000011	0.284897	0.000000	1.000000
Ni 231.604 {445}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.000971	1.209189	0.000000	1.000000
Pb 220.353 {453}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.006114	1.005605	0.000000	1.000000
Sb 206.833 {463}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.000295	0.229719	0.000000	1.000000
Se 196.090 {472}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000071	0.127645	0.000000	1.000000
Si 212.412 {459}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.005380	0.298255	0.000000	1.000000
Sn 189.989 {477}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.000952	0.429406	0.000000	1.000000
Sr 407.771 { 83}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.003844	12.281510	0.000000	1.000000
Ti 334.941 {101}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.001982	1.374742	0.000000	1.000000
Tl 190.856 {477}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.003686	0.486747	0.000000	1.000000
V 292.402 {115}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	-0.000268	0.534912	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	7/30/2012 9:50:54	7/30/2012 9:05:38	Linear	1/Conc	0.002486	2.232478	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999995	0.000012	0.000416	0.001388	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999941	0.002369	0.007054	0.023513	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999995	0.000042	0.000752	0.002506	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999918	0.007700	0.000163	0.000545	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999885	0.009899	0.000053	0.000177	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999863	0.006826	0.002016	0.006721	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999886	0.005565	0.000045	0.000150	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999890	0.002617	0.000098	0.000326	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999886	0.000468	0.000283	0.000945	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999986	0.000259	0.000270	0.000900	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999819	0.004944	0.001677	0.005590	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999993	0.000427	0.023593	0.078645	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999919	0.000495	0.013828	0.046095	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999774	0.003581	0.000045	0.000149	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999988	0.000453	0.000122	0.000406	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999980	0.002901	0.005907	0.019691	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999853	0.001672	0.000175	0.000584	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999834	0.001480	0.000523	0.001743	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999992	0.000076	0.000927	0.003091	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999994	0.000036	0.001575	0.005251	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.999967	0.000199	0.000523	0.001745	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999880	0.000535	0.000260	0.000866	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999893	0.014439	0.000065	0.000218	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999924	0.001365	0.000124	0.000414	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999972	0.000286	0.000734	0.002446	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999594	0.001215	0.000262	0.000872	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999892	0.002638	0.000066	0.000219	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 7/30/2012 7:23:13 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0003	.0042	-.0009	.0035	.0007	.0030	-.0010	-.0009	.0000
Stddev	.0002	.0008	.0002	.0003	.0001	.0001	.0002	.0004	.000
%RSD	69.94	18.00	17.79	7.957	13.41	2.788	20.30	44.40	194.5
#1	-.0003	.0049	-.0007	.0038	.0006	.0030	-.0012	-.0012	.0000
#2	-.0001	.0034	-.0010	.0035	.0007	.0031	-.0009	-.0011	.0000
#3	-.0005	.0044	-.0010	.0032	.0008	.0030	-.0009	-.0004	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0056	.0028	-.0006	-.0001	.0003	.0010	.0057	.0003	-.0012
Stddev	.0001	.0003	.0010	.0001	.0001	.0002	.0005	.0002	.0001
%RSD	2.452	9.321	161.4	134.4	32.54	20.74	9.331	84.11	6.176
#1	.0058	.0030	-.0001	.0000	.0004	.0010	.0053	.0003	-.0013
#2	.0056	.0028	-.0017	-.0002	.0003	.0012	.0055	.0000	-.0011
#3	.0056	.0025	.0000	.0000	.0002	.0008	.0063	.0005	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	-.0003	.0066	.0000	-.0018	.0023	-.0014	-.0004	.0023
Stddev	.0001	.0001	.0002	.0001	.0005	.0001	.0001	.0001	.0002
%RSD	17.91	40.64	3.015	291.5	26.10	3.559	8.069	15.93	7.364
#1	.0003	-.0004	.0069	.0002	-.0013	.0024	-.0013	-.0003	.0025
#2	.0003	-.0002	.0066	.0000	-.0022	.0023	-.0015	-.0004	.0021
#3	.0004	-.0004	.0065	.0000	-.0018	.0023	-.0015	-.0004	.0023

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1935.7	3365.8	25087.	9449.4
Stddev	7.8	4.5	36.	70.3
%RSD	.40161	.13314	.14252	.74416
#1	1935.2	3364.1	25045.	9511.2
#2	1928.2	3362.4	25104.	9464.1
#3	1943.7	3370.9	25110.	9372.9

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 7/30/2012 7:26:50 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0295	1.566	.0987	4.658	5.143	2.358	2.197	1.162	.2451	.5042
Stddev	.0001	.006	.0005	.024	.019	.015	.002	.001	.0001	.0015
%RSD	.2987	.3865	.5285	.5124	.3651	.6326	.1086	.0634	.0209	.2907
#1	.0294	1.560	.0986	4.637	5.121	2.342	2.199	1.163	.2451	.5031
#2	.0295	1.572	.0983	4.684	5.154	2.360	2.194	1.162	.2451	.5059
#3	.0296	1.564	.0993	4.653	5.154	2.371	2.198	1.161	.2452	.5038

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.970	.6699	.2345	1.560	.6550	2.690	.7272	.3787	.1495	.0699
Stddev	.015	.0017	.0027	.001	.0022	.011	.0011	.0009	.0007	.0003
%RSD	.7811	.2542	1.159	.0552	.3342	.3890	.1520	.2492	.5009	.4366
#1	1.952	.6688	.2314	1.560	.6537	2.688	.7266	.3777	.1488	.0699
#2	1.977	.6719	.2356	1.559	.6537	2.702	.7265	.3793	.1503	.0696
#3	1.981	.6691	.2365	1.560	.6575	2.681	.7285	.3793	.1495	.0702

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1686	.1076	7.713	1.084	.1800	.3457	.9943
Stddev	.0005	.0003	.029	.001	.0013	.0005	.0019
%RSD	.2972	.2939	.3830	.0887	.7458	.1577	.1886
#1	.1682	.1074	7.689	1.083	.1800	.3464	.9961
#2	.1684	.1080	7.746	1.085	.1787	.3455	.9924
#3	.1691	.1076	7.704	1.084	.1814	.3453	.9944

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1800.3	3360.5	24955.	9514.6
Stddev	3.1	3.3	47.	94.2
%RSD	.17373	.09682	.18795	.98972
#1	1803.6	3362.0	24988.	9611.9
#2	1799.9	3362.8	24901.	9508.2
#3	1797.4	3356.8	24975.	9423.9

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 7/30/2012 7:31:56 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1168	6.038	.3998	18.18	20.06	9.092	8.519	4.467	.9495	1.975
Stddev	.0005	.010	.0011	.05	.03	.039	.025	.019	.0013	.006
%RSD	.4213	.1615	.2693	.2531	.1725	.4304	.2928	.4331	.1331	.3028
#1	.1174	6.049	.3986	18.20	20.03	9.051	8.491	4.447	.9493	1.977
#2	.1166	6.036	.4007	18.13	20.04	9.096	8.539	4.485	.9484	1.980
#3	.1165	6.030	.4001	18.21	20.10	9.129	8.527	4.469	.9509	1.968

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.300	2.592	.9094	6.019	2.590	10.44	2.771	1.536	.5937	.2791
Stddev	.013	.002	.0044	.012	.014	.02	.011	.003	.0019	.0015
%RSD	.1735	.0847	.4861	.2013	.5551	.2378	.3933	.2149	.3158	.5428
#1	7.285	2.592	.9046	6.005	2.575	10.47	2.760	1.539	.5916	.2777
#2	7.307	2.590	.9103	6.027	2.603	10.42	2.782	1.536	.5948	.2807
#3	7.307	2.595	.9133	6.024	2.593	10.44	2.772	1.532	.5948	.2789

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6775	.4261	30.79	4.330	.7195	1.389	3.871
Stddev	.0027	.0010	.07	.003	.0013	.001	.014
%RSD	.3970	.2294	.2134	.0763	.1840	.1030	.3715
#1	.6754	.4256	30.83	4.327	.7210	1.390	3.854
#2	.6805	.4272	30.72	4.333	.7188	1.388	3.879
#3	.6765	.4255	30.83	4.331	.7186	1.390	3.880

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1610.4	3214.9	24022.	9384.1
Stddev	5.9	10.6	38.	68.6
%RSD	.36750	.32978	.15844	.73104
#1	1606.3	3224.5	24048.	9461.7
#2	1607.6	3203.5	23978.	9359.2
#3	1617.2	3216.6	24040.	9331.5

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 7/30/2012 7:37:52 Type: Cal
Method: 60102007_042011(v157) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2401	12.18	.8138	36.09	39.23	17.96	16.74	8.811	1.869	3.987
Stddev	.0010	.02	.0009	.21	.33	.08	.01	.002	.004	.017
%RSD	.3986	.1363	.1155	.5944	.8286	.4200	.0557	.0254	.2400	.4223
#1	.2400	12.19	.8142	35.87	38.93	17.88	16.74	8.810	1.864	3.984
#2	.2411	12.19	.8127	36.29	39.58	18.02	16.73	8.809	1.873	4.006
#3	.2391	12.16	.8145	36.11	39.18	18.00	16.75	8.813	1.868	3.972

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.62	5.236	1.825	11.78	5.127	21.02	5.447	3.131	1.201	.5638
Stddev	.05	.012	.008	.06	.005	.05	.006	.005	.002	.0006
%RSD	.3532	.2303	.4526	.5139	.0973	.2354	.1144	.1590	.1852	.1015
#1	14.57	5.246	1.816	11.71	5.133	21.08	5.447	3.126	1.203	.5638
#2	14.67	5.241	1.828	11.82	5.123	21.00	5.441	3.130	1.199	.5644
#3	14.63	5.223	1.831	11.80	5.127	21.00	5.454	3.136	1.201	.5632

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.348	.8286	59.83	8.550	1.443	2.631	7.625
Stddev	.003	.0034	.51	.024	.002	.005	.016
%RSD	.2510	.4154	.8484	.2774	.1547	.2085	.2100
#1	1.351	.8275	59.29	8.527	1.441	2.626	7.614
#2	1.344	.8258	60.30	8.574	1.444	2.637	7.617
#3	1.347	.8324	59.90	8.549	1.445	2.630	7.643

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.7	3078.2	23279.	9239.8
Stddev	1.4	4.9	60.	57.4
%RSD	.09575	.15929	.25901	.62096
#1	1469.4	3073.3	23334.	9301.6
#2	1469.7	3083.1	23215.	9188.2
#3	1467.1	3078.1	23287.	9229.7

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 7:47:18 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5010	79.77	4.012	3.996	3.935	79.52	3.955	3.950	3.984	4.043
Stddev	.0004	.12	.009	.059	.044	.34	.013	.011	.005	.017
%RSD	.0851	.1443	.2172	1.481	1.115	.4235	.3379	.2759	.1335	.4132
#1	.5015	79.84	4.003	4.064	3.983	79.60	3.955	3.950	3.978	4.047
#2	.5009	79.83	4.012	3.970	3.898	79.81	3.941	3.939	3.988	4.025
#3	.5007	79.63	4.020	3.954	3.924	79.15	3.968	3.961	3.986	4.058
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.55	79.82	80.12	4.012	3.959	79.66	3.949	4.033	3.995	3.977
Stddev	.25	.01	.21	.006	.007	.04	.008	.007	.007	.015
%RSD	.3189	.0088	.2569	.1525	.1857	.0536	.1999	.1835	.1665	.3822
#1	79.66	79.82	80.26	4.010	3.962	79.66	3.952	4.041	4.002	3.985
#2	79.74	79.81	80.22	4.007	3.951	79.62	3.941	4.028	3.994	3.960
#3	79.26	79.83	79.88	4.019	3.964	79.71	3.956	4.029	3.989	3.987
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.984	3.973	3.971	4.025	4.007	3.936	3.977
Stddev	.006	.006	.042	.012	.005	.004	.013
%RSD	.1537	.1602	1.069	.2913	.1166	.0895	.3300
#1	3.979	3.974	4.020	4.026	4.010	3.932	3.977
#2	3.982	3.967	3.943	4.014	4.009	3.939	3.965
#3	3.991	3.979	3.950	4.037	4.002	3.937	3.991
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 7/30/2012 7:47:18 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1470.9	3091.4	23096.	9217.4
Stddev	1.2	5.1	59.	54.7
%RSD	.08442	.16358	.25650	.59294
#1	1470.9	3089.0	23084.	9177.8
#2	1469.7	3097.2	23160.	9194.6
#3	1472.2	3088.0	23044.	9279.7

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 7:54:28 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2457	39.32	1.951	2.083	2.022	40.09	2.007	2.020	2.008	1.997
Stddev	.0013	.25	.006	.007	.013	.46	.002	.004	.003	.005
%RSD	.5438	.6242	.2881	.3477	.6391	1.143	.1085	.1843	.1486	.2392
#1	.2472	39.04	1.945	2.074	2.007	39.57	2.007	2.021	2.008	1.992
#2	.2446	39.44	1.951	2.088	2.032	40.43	2.008	2.023	2.005	1.995
#3	.2453	39.49	1.956	2.085	2.027	40.27	2.004	2.015	2.011	2.002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.88	40.04	39.77	2.020	1.926	40.46	2.028	1.957	1.962	2.015
Stddev	.32	.28	.44	.003	.004	.23	.003	.001	.002	.006
%RSD	.7828	.6872	1.097	.1609	.1891	.5784	.1694	.0719	.0841	.3005
#1	40.52	39.73	39.27	2.024	1.927	40.20	2.028	1.956	1.961	2.021
#2	41.12	40.24	40.05	2.017	1.929	40.62	2.031	1.959	1.964	2.009
#3	41.01	40.17	40.00	2.020	1.922	40.57	2.024	1.957	1.963	2.016
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462	1.916	2.000	1.955	2.063	2.008	2.023
Stddev	.0004	.003	.010	.003	.002	.005	.002
%RSD	.9456	.1504	.4816	.1439	.1160	.2763	.0905
#1	.0465	1.915	1.990	1.953	2.060	2.002	2.021
#2	.0457	1.919	2.009	1.955	2.063	2.011	2.025
#3	.0465	1.914	2.003	1.958	2.065	2.011	2.022
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 7/30/2012 7:54:28 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1603.2	3203.9	23839.	9398.6
Stddev	2.1	9.0	16.	101.8
%RSD	.12836	.28036	.06635	1.0832
#1	1600.8	3197.8	23820.	9516.1
#2	1604.3	3199.7	23847.	9342.4
#3	1604.4	3214.2	23848.	9337.3

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 8:03:58 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0020	.0005	-.0001	.0000	-.0007	.0000	.0000	.0002
Stddev	.0000	.0039	.0008	.0000	.000	.0011	.000	.000	.0001
%RSD	12.53	201.7	148.1	59.35	53.25	146.4	1226.	957.3	58.86
#1	.0002	-.0064	-.0002	.0000	.0000	-.0015	.0001	.0001	.0001
#2	.0003	-.0006	.0004	.0000	.0000	-.0012	.0000	.0000	.0002
#3	.0002	.0012	.0013	-.0001	.0000	.0005	-.0001	-.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0036	.0039	-.0081	.0000	.0000	-.0046	-.0001	.0003
Stddev	.0002	.0018	.0111	.0105	.000	.0000	.0015	.0001	.0004
%RSD	457.6	49.71	282.4	129.7	619.4	65.40	32.74	78.19	137.5
#1	-.0001	-.0015	-.0020	-.0182	.0000	.0000	-.0035	.0000	.0006
#2	.0002	-.0046	.0167	-.0088	.0000	.0000	-.0040	-.0002	-.0001
#3	.0000	-.0048	-.0029	.0027	.0000	.0000	-.0063	-.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	.0010	F.0013	.0000	.0000	.0005	-.0001	-.0001
Stddev	.0009	.002	.0003	.0006	.000	.000	.0010	.0002	.0000
%RSD	1392.	6223.	28.50	43.22	131.0	445.0	193.7	212.1	51.35
#1	.0005	-.0026	.0008	.0009	-.0001	.0001	-.0005	-.0002	-.0001
#2	-.0010	.0019	.0013	.0011	.0000	.0000	.0015	.0001	.0000
#3	.0007	.0006	.0008	.0019	.0000	-.0002	.0006	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: ICB Acquired: 7/30/2012 8:03:58 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1929.5	3389.0	24830.	9463.2
Stddev	5.1	5.4	70.	11.2
%RSD	.26624	.15831	.28058	.11824
#1	1923.5	3383.2	24868.	9456.7
#2	1932.1	3393.8	24873.	9456.9
#3	1932.7	3389.9	24750.	9476.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 8:08:34 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	.2069	.0107	.2119	.0053	1.057	.0056	.0542	.0110	.0255
Stddev	.0002	.0024	.0006	.0003	.0000	.001	.0000	.0002	.0003	.0002
%RSD	1.791	1.168	5.165	.1388	.4591	.1064	.3376	.4057	2.894	.7627
#1	.0093	.2068	.0111	.2121	.0053	1.056	.0056	.0541	.0107	.0258
#2	.0091	.2093	.0109	.2121	.0053	1.058	.0056	.0544	.0113	.0255
#3	.0094	.2045	.0101	.2116	.0053	1.057	.0057	.0540	.0112	.0254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3160	10.35	5.223	.0165	.0503	10.32	.0438	.0047	.0046	.0097
Stddev	.0008	.03	.005	.0001	.0002	.03	.0002	.0003	.0000	.0012
%RSD	.2604	.3078	.1052	.7946	.3708	.2845	.3879	6.463	.9188	12.25
#1	.3160	10.31	5.229	.0165	.0501	10.29	.0439	.0045	.0046	.0109
#2	.3168	10.37	5.221	.0163	.0505	10.35	.0439	.0046	.0045	.0086
#3	.3152	10.36	5.218	.0166	.0504	10.30	.0436	.0051	.0045	.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0537	.0105	.0100	.0108	.0532	.0223
Stddev	.0003	.0009	.0000	.0000	.0002	.0004	.0001
%RSD	5.169	1.613	.3890	.4204	1.689	.6668	.5108
#1	.0069	.0531	.0105	.0101	.0106	.0528	.0222
#2	.0063	.0533	.0105	.0101	.0110	.0535	.0224
#3	.0069	.0547	.0105	.0100	.0108	.0532	.0223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 8:08:34 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.9	3356.2	24599.	9398.3
Stddev	3.2	3.4	26.	19.9
%RSD	.17607	.09983	.10644	.21223
#1	1836.3	3352.4	24569.	9400.9
#2	1842.6	3357.9	24615.	9416.8
#3	1838.0	3358.4	24613.	9377.2

Zoom In
Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 8:20:46 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0031	-.0009	-.0001	.0000	.0026	.0000	-.0009	.0004	-.0009
Stddev	.0005	.0033	.0005	.0001	.000	.0002	.000	.0002	.0001	.0002
%RSD	103.1	104.9	55.75	68.53	53.52	7.371	287.9	24.97	19.68	17.87
#1	-.0001	.0038	-.0009	-.0002	.0000	.0028	.0000	-.0006	.0003	-.0010
#2	.0008	.0060	-.0004	-.0001	.0000	.0024	-.0001	-.0011	.0004	-.0008
#3	.0007	-.0005	-.0014	-.0001	.0000	.0025	.0000	-.0009	.0004	-.0007
Check ?	None	None	None	None	None	None	None	None	None	None
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0093	-.0144	.0020	-.0001	-.0001	-.0014	-.0017	-.0015	.0004	-.0001
Stddev	.0014	.0186	.0120	.0000	.0001	.0043	.0002	.0005	.0006	.0023
%RSD	14.68	128.8	611.8	46.94	44.37	306.7	10.40	32.72	143.0	3054.
#1	-.0092	-.0357	.0011	.0000	-.0001	-.0027	-.0018	-.0018	.0005	.0006
#2	-.0080	-.0066	.0144	-.0001	-.0001	.0034	-.0015	-.0009	.0009	-.0026
#3	-.0107	-.0011	-.0096	-.0001	-.0002	-.0050	-.0016	-.0018	-.0002	.0018
Check ?	None	None	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.65	-.0006	.0000	-.0001	-.0004	-.0001	-.0006
Stddev	.05	.0002	.000	.0000	.0008	.0003	.0001
%RSD	.1183	30.83	48.69	26.39	196.9	199.8	15.73
#1	44.70	-.0004	.0000	-.0002	-.0008	.0000	-.0005
#2	44.60	-.0007	.0000	-.0001	.0005	.0000	-.0006
#3	44.65	-.0007	.0000	-.0001	-.0009	-.0004	-.0007
Check ?	Chk Pass	None	None	None	None	None	None
Value							
Range							

Zoom In
Zoom Out

Sample Name: SiSIC Acquired: 7/30/2012 8:20:46 Type: QC
Method: 60102007_042011(v157) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1922.5	3431.0	25134.	9596.5
Stddev	2.9	6.3	52.	57.8
%RSD	.15222	.18252	.20844	.60225
#1	1919.2	3423.9	25073.	9616.8
#2	1923.5	3435.9	25169.	9531.3
#3	1924.7	3433.1	25159.	9641.4

Zoom In
Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 8:26:30 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	487.2	.0000	F.0057	-.0001	474.7	.0010	.0000
Stddev	.0004	5.2	.0019	.0003	.0000	5.4	.0002	.0002
%RSD	181.3	1.060	4134.	5.091	82.22	1.130	16.34	380.7
#1	.0000	486.7	-.0014	.0060	-.0001	474.2	.0009	-.0001
#2	.0000	492.6	-.0006	.0056	.0000	480.3	.0009	.0000
#3	.0007	482.3	.0022	.0055	-.0001	469.6	.0012	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0014	181.8	-.0126	515.1	.0002	.0003	.0752
Stddev	.0002	.0003	2.3	.0126	3.5	.0001	.0003	.0069
%RSD	51.95	23.63	1.268	99.62	.6759	22.28	103.7	9.222
#1	-.0006	.0013	181.8	.0001	516.6	.0002	.0006	.0699
#2	-.0003	.0017	184.1	-.0250	517.5	.0003	.0003	.0726
#3	-.0003	.0011	179.5	-.0129	511.1	.0002	.0000	.0830
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0004	.0000	.0003	.0213	.0004	F.0056	F-.0049
Stddev	.0001	.0020	.003	.0037	.0030	.0015	.0001	.0001
%RSD	106.6	541.2	32080.	1157.	13.88	408.5	1.089	1.622
#1	.0000	-.0022	-.0027	.0045	.0248	.0005	.0056	-.0048
#2	.0002	-.0008	.0000	-.0024	.0198	.0018	.0055	-.0050
#3	.0000	.0018	.0027	-.0012	.0195	-.0012	.0057	-.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail
High Limit							.0010	.0020
Low Limit							-.0010	-.0020

Zoom In
Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 8:26:30 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0011	.0000	-.0005
Stddev	.0012	.000	.0003
%RSD	101.4	930.8	65.49
#1	.0020	-.0002	-.0006
#2	.0016	.0000	-.0008
#3	-.0002	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1383.2	2925.7	21299.	8950.1
Stddev	4.1	3.4	5.	80.4
%RSD	.29779	.11637	.02523	.89820
#1	1387.6	2929.5	21304.	8940.8
#2	1379.4	2924.9	21293.	8874.7
#3	1382.5	2922.8	21301.	9034.7

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 8:34:19 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.072	497.5	1.018	.5385	.5108	472.2	.9409	.4681	.5161	.5812
Stddev	.003	6.6	.006	.0012	.0005	2.1	.0019	.0009	.0026	.0005
%RSD	.2928	1.322	.5829	.2249	.0882	.4511	.2047	.1893	.5120	.0874
#1	1.068	493.0	1.024	.5372	.5108	469.8	.9430	.4690	.5131	.5816
#2	1.073	505.1	1.012	.5396	.5112	473.3	.9405	.4681	.5176	.5806
#3	1.074	494.5	1.017	.5387	.5103	473.7	.9392	.4672	.5177	.5814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.2	-.0203	521.8	.5085	.9602	.0857	.9238	.9568	1.016	1.013
Stddev	.9	.0171	.6	.0019	.0013	.0009	.0015	.0009	.007	.008
%RSD	.4860	84.07	.1074	.3774	.1330	1.072	.1605	.0987	.6739	.8155
#1	185.5	-.0018	522.1	.5065	.9616	.0862	.9254	.9557	1.023	1.021
#2	184.2	-.0354	522.2	.5104	.9599	.0846	.9237	.9574	1.015	1.012
#3	186.0	-.0237	521.2	.5085	.9591	.0861	.9225	.9573	1.009	1.004
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.8842	1.028	1.049	.9515	.5185	.9387
Stddev	.0010	.0009	.003	.001	.0073	.0013	.0024
%RSD	10.13	.0982	.2971	.1298	.7640	.2484	.2584
#1	.0086	.8837	1.026	1.049	.9596	.5170	.9415
#2	.0105	.8852	1.032	1.050	.9456	.5195	.9379
#3	.0098	.8837	1.026	1.047	.9493	.5190	.9368
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 8:34:19 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1353.6	2899.0	21266.	8933.3
Stddev	1.5	1.7	78.	12.6
%RSD	.11239	.05850	.36447	.14090
#1	1353.9	2897.2	21326.	8946.6
#2	1355.0	2899.0	21179.	8921.5
#3	1352.0	2900.6	21294.	8931.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 8:44:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2455	39.31	1.990	2.061	2.036	40.16	2.006	1.985	2.029	2.058
Stddev	.0011	.08	.007	.002	.006	.17	.002	.002	.005	.010
%RSD	.4485	.1912	.3306	.0800	.3133	.4154	.0926	.1161	.2496	.4762
#1	.2451	39.32	1.996	2.060	2.029	39.99	2.008	1.987	2.026	2.049
#2	.2447	39.23	1.990	2.060	2.039	40.17	2.005	1.984	2.027	2.056
#3	.2467	39.38	1.983	2.063	2.041	40.32	2.005	1.983	2.035	2.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.52	40.06	40.04	2.067	1.990	39.98	2.018	1.993	1.990	1.981
Stddev	.08	.07	.06	.009	.001	.05	.001	.007	.003	.006
%RSD	.1975	.1757	.1523	.4136	.0721	.1152	.0662	.3750	.1584	.3192
#1	39.45	39.99	39.99	2.060	1.991	39.94	2.018	1.989	1.992	1.988
#2	39.51	40.05	40.02	2.064	1.990	40.03	2.017	2.001	1.986	1.981
#3	39.60	40.13	40.11	2.076	1.988	39.99	2.019	1.988	1.991	1.975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.012	2.103	2.066	2.067	2.024	2.114	2.016
Stddev	.004	.001	.003	.007	.004	.003	.003
%RSD	.2018	.0466	.1586	.3549	.1724	.1526	.1431
#1	2.017	2.104	2.062	2.060	2.025	2.113	2.013
#2	2.009	2.102	2.066	2.066	2.027	2.111	2.016
#3	2.011	2.104	2.069	2.074	2.021	2.117	2.018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 8:44:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.6	3213.5	23547.	9396.0
Stddev	2.3	6.9	89.	36.7
%RSD	.14713	.21508	.37776	.39072
#1	1591.4	3205.8	23621.	9379.5
#2	1591.1	3215.5	23572.	9438.1
#3	1595.3	3219.2	23448.	9370.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 8:53:32 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0016	-.0002	-.0001	.0000	.0004	.0000	.0000	.0002	.0002
Stddev	.0001	.0034	.0006	.0001	.000	.0001	.000	.0001	.0003	.0001
%RSD	59.69	212.6	286.7	130.0	32.99	34.45	268.1	606.8	154.3	54.34
#1	.0000	.0050	.0001	.0000	.0000	.0006	.0000	-.0001	.0000	.0003
#2	.0002	-.0018	-.0009	-.0001	.0000	.0003	.0000	.0001	.0005	.0003
#3	.0002	.0015	.0002	-.0002	.0000	.0004	.0000	.0000	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0020	.0082	.0000	-.0001	.0027	-.0002	.0005	-.0009	-.0006
Stddev	.0018	.0150	.0128	.000	.0001	.0057	.0002	.0006	.0004	.0019
%RSD	130.3	751.7	155.5	85.33	99.95	207.3	133.1	112.7	46.18	323.1
#1	.0024	-.0134	-.0018	.0000	-.0001	.0084	-.0004	.0006	-.0011	-.0016
#2	.0026	.0150	.0226	.0000	.0000	-.0029	-.0003	-.0001	-.0012	-.0017
#3	-.0007	-.0076	.0039	.0000	-.0002	.0027	.0001	.0010	-.0004	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	-.0001	.0000	-.0002	.0005	.0000	-.0002
Stddev	.0005	.0005	.000	.0001	.0005	.0004	.0000
%RSD	11.06	523.7	33.03	41.38	102.5	1053.	4.597
#1	.0048	-.0003	.0000	-.0001	.0009	-.0004	-.0002
#2	.0038	-.0004	.0000	-.0003	-.0001	.0003	-.0002
#3	.0043	.0005	.0000	-.0002	.0007	.0001	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 8:53:32 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.8	3367.7	24704.	9521.1
Stddev	1.4	16.6	75.	49.0
%RSD	.07270	.49343	.30352	.51432
#1	1904.7	3357.0	24716.	9573.3
#2	1907.4	3359.3	24773.	9513.9
#3	1905.5	3386.8	24624.	9476.2

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/30/2012 9:00:46 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0010	-.0019	-.0001	.0000	.0182	.0000	-.0001	.0008	-.0004
Stddev	.0006	.0015	.0004	.0000	.000	.0005	.000	.0001	.0001	.0002
%RSD	872.3	150.9	23.10	49.67	108.1	3.012	69.95	75.01	14.55	61.53
#1	.0007	-.0028	-.0017	-.0001	.0000	.0186	-.0001	.0000	.0007	-.0004
#2	-.0002	.0001	-.0016	.0000	.0000	.0184	-.0001	-.0001	.0009	-.0006
#3	-.0003	-.0003	-.0024	-.0001	-.0001	.0176	.0000	-.0002	.0008	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309	-.0028	.0032	.0004	.0005	.0189	.0005	.0001	.0004	-.0009
Stddev	.0018	.0082	.0188	.0000	.0001	.0028	.0001	.0011	.0004	.0008
%RSD	5.881	298.9	588.3	6.552	15.17	14.87	21.87	871.3	85.07	92.60
#1	.0328	-.0108	.0144	.0004	.0005	.0211	.0005	.0006	.0005	-.0007
#2	.0293	-.0032	-.0185	.0004	.0004	.0198	.0004	.0009	.0008	-.0001
#3	.0305	.0057	.0137	.0004	.0006	.0157	.0007	-.0011	.0000	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.0150	.0000	-.0001	-.0014	-.0001	.0009
Stddev	.0004	.0004	.0000	.0001	.0004	.0002	.0001
%RSD	1.879	2.874	494.1	106.0	24.92	172.2	13.57
#1	.0225	.0154	.0000	-.0001	-.0011	-.0003	.0008
#2	.0217	.0148	.0000	-.0001	-.0015	-.0002	.0008
#3	.0223	.0146	.0000	.0000	-.0018	.0001	.0010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23311-MB1 Acquired: 7/30/2012 9:00:46 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1825.5	3228.5	23684.	9168.3
Stddev	11.5	14.0	152.	90.8
%RSD	.63211	.43268	.64059	.99074
#1	1813.6	3212.8	23509.	9090.1
#2	1826.4	3233.4	23756.	9267.9
#3	1836.6	3239.4	23786.	9146.8

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/30/2012 9:05:14 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	27.77	1.981	2.206	.0544	26.36	.0515	.5201	.2153	.2716
Stddev	.0003	.06	.004	.007	.0003	.14	.0001	.0014	.0011	.0012
%RSD	.5424	.2056	.1873	.3283	.4882	.5259	.2413	.2646	.5291	.4539
#1	.0481	27.78	1.979	2.214	.0542	26.31	.0516	.5197	.2147	.2703
#2	.0478	27.72	1.985	2.201	.0543	26.25	.0514	.5190	.2167	.2727
#3	.0483	27.83	1.978	2.203	.0547	26.51	.0516	.5216	.2147	.2719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.70	26.08	25.62	.5421	.4998	26.14	.5360	.4850	.5063	1.981
Stddev	.09	.10	.17	.0011	.0009	.07	.0007	.0019	.0032	.006
%RSD	.3144	.3975	.6495	.2090	.1900	.2676	.1326	.3832	.6291	.3175
#1	27.68	26.20	25.49	.5414	.4988	26.22	.5357	.4852	.5077	1.979
#2	27.63	26.01	25.55	.5434	.5002	26.10	.5355	.4831	.5086	1.975
#3	27.80	26.04	25.81	.5415	.5005	26.09	.5368	.4868	.5027	1.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213	.5244	.5143	.5101	2.007	.5431	.5234
Stddev	.0009	.0009	.0014	.0006	.002	.0017	.0004
%RSD	4.315	.1807	.2680	.1163	.0799	.3121	.0812
#1	.0224	.5236	.5153	.5100	2.007	.5432	.5231
#2	.0207	.5255	.5127	.5108	2.009	.5448	.5232
#3	.0208	.5241	.5149	.5096	2.005	.5414	.5239
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23311-B1 Acquired: 7/30/2012 9:05:14 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1617.7	3136.9	23062.	9131.9
Stddev	5.6	10.8	26.	35.2
%RSD	.34593	.34586	.11434	.38549
#1	1612.1	3125.3	23052.	9144.4
#2	1617.7	3138.5	23042.	9159.1
#3	1623.3	3146.8	23092.	9092.1

Zoom In Zoom Out

Sample Name: F95217-1 Acquired: 7/30/2012 9:09:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0020	278.2	.0802	2.194	.0211	1769.	-.0064	.1216	.3716	.2275
Stddev	.0044	.7	.0072	.013	.0005	8.	.0005	.0007	.0026	.0018
%RSD	219.8	.2670	8.951	.5917	2.189	.4304	7.504	.5897	.6870	.7978
#1	.0025	277.6	.0734	2.182	.0211	1762.	-.0069	.1223	.3700	.2296
#2	-.0023	278.0	.0795	2.193	.0206	1768.	-.0060	.1209	.3746	.2265
#3	-.0063	279.0	.0877	2.208	.0216	1777.	-.0063	.1216	.3703	.2265

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	324.6	51.65	292.4	4.306	.0100	51.11	.3445	.1839	-.0125	-.0064
Stddev	1.4	.35	1.7	.005	.0018	.29	.0047	.0052	.0046	.0115
%RSD	.4368	.6800	.5830	.1223	18.35	.5605	1.356	2.853	36.93	179.2
#1	323.1	51.27	290.6	4.301	.0088	50.89	.3470	.1896	-.0126	.0052
#2	324.7	51.72	292.6	4.306	.0121	51.00	.3473	.1792	-.0170	-.0178
#3	325.9	51.96	294.0	4.311	.0091	51.43	.3391	.1828	-.0078	-.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	24.68	.0350	3.663	2.549	.0067	.5670	.9293
Stddev	.01	.0059	.014	.014	.0058	.0019	.0025
%RSD	.0446	16.77	.3877	.5440	87.50	.3279	.2674
#1	24.68	.0284	3.652	2.544	.0090	.5674	.9312
#2	24.69	.0394	3.658	2.538	.0110	.5686	.9301
#3	24.67	.0373	3.679	2.564	.0000	.5650	.9265

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1615.5	3318.5	24305.	9734.9
Stddev	2.3	6.6	45.	28.2
%RSD	.14349	.19896	.18314	.28999
#1	1616.6	3311.7	24356.	9767.5
#2	1617.1	3318.9	24282.	9718.0
#3	1612.9	3324.9	24277.	9719.2

Zoom In Zoom Out

Sample Name: MP23311-D1 Acquired: 7/30/2012 9:13:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	271.9	.0803	3.198	.0224	2017.	-.0060	.1493	.3397	.2354
Stddev	.0027	1.0	.0046	.010	.0004	14.	.0009	.0006	.0025	.0007
%RSD	321.2	.3511	5.690	.3019	2.004	.6730	15.54	.3900	.7344	.3153
#1	.0006	271.0	.0790	3.189	.0225	2011.	-.0053	.1486	.3376	.2352
#2	.0008	272.9	.0853	3.208	.0228	2007.	-.0056	.1494	.3425	.2362
#3	-.0039	271.9	.0764	3.197	.0219	2033.	-.0071	.1498	.3390	.2347

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	321.8	51.17	300.6	5.498	.0092	54.69	.3500	.2037	-.0116	.0065
Stddev	1.5	.44	1.5	.011	.0007	.10	.0042	.0038	.0101	.0044
%RSD	.4771	.8547	.5152	.2030	7.861	.1837	1.202	1.881	87.20	67.55
#1	320.2	51.63	298.8	5.490	.0084	54.61	.3457	.2066	-.0003	.0029
#2	323.2	51.11	301.6	5.494	.0094	54.80	.3502	.1993	-.0199	.0114
#3	322.1	50.76	301.4	5.511	.0098	54.67	.3541	.2051	-.0146	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	34.29	.0328	4.869	2.591	-.0047	.5709	.9757
Stddev	.14	.0079	.018	.006	.0079	.0032	.0030
%RSD	.4212	24.18	.3602	.2147	167.2	.5586	.3116
#1	34.31	.0346	4.856	2.585	-.0085	.5676	.9753
#2	34.13	.0241	4.889	2.594	-.0100	.5740	.9729
#3	34.42	.0397	4.861	2.595	.0044	.5711	.9789

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1596.9	3327.4	24296.	9689.3
Stddev	1.2	7.8	41.	33.6
%RSD	.07320	.23298	.17063	.34719
#1	1598.2	3321.5	24324.	9719.2
#2	1596.6	3336.2	24249.	9652.9
#3	1595.9	3324.5	24316.	9695.8

Zoom In
Zoom Out

Sample Name: MP23311-PS1 Acquired: 7/30/2012 9:18:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0539	283.0	.1854	2.485	.0781	1788.	.0479	.1763	.4229	.3425
Stddev	.0033	.7	.0048	.012	.0001	15.	.0006	.0017	.0014	.0018
%RSD	6.182	.2580	2.599	.4849	.1418	.8502	1.270	.9525	.3360	.5367
#1	.0502	282.3	.1904	2.471	.0781	1771.	.0475	.1762	.4221	.3447
#2	.0567	283.7	.1851	2.494	.0781	1792.	.0476	.1747	.4245	.3415
#3	.0548	283.1	.1808	2.489	.0783	1801.	.0486	.1780	.4220	.3415

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	331.0	62.96	300.2	4.361	.1142	61.11	.4523	.2342	.0974	.1014
Stddev	.7	.38	.9	.011	.0025	.12	.0039	.0025	.0006	.0098
%RSD	.2074	.6087	.3021	.2469	2.185	.1899	.8560	1.051	.6556	9.665
#1	330.3	62.53	301.1	4.365	.1159	61.18	.4496	.2323	.0981	.0903
#2	331.7	63.28	300.2	4.369	.1114	60.98	.4506	.2370	.0970	.1048
#3	330.9	63.07	299.3	4.349	.1155	61.17	.4567	.2334	.0971	.1090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.00	.0795	3.737	2.646	.1096	.6252	1.231
Stddev	.09	.0096	.003	.004	.0022	.0024	.005
%RSD	.3536	12.05	.0696	.1682	2.009	.3811	.3916
#1	25.06	.0690	3.734	2.651	.1070	.6246	1.229
#2	24.90	.0879	3.737	2.645	.1107	.6232	1.229
#3	25.04	.0815	3.739	2.642	.1110	.6278	1.237

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1606.1	3310.6	24307.	9645.1
Stddev	6.2	9.1	69.	40.7
%RSD	.38397	.27627	.28544	.42197
#1	1601.6	3301.0	24281.	9688.1
#2	1613.1	3319.2	24254.	9607.3
#3	1603.5	3311.7	24386.	9639.7

Zoom In
Zoom Out

Sample Name: MP23311-SD1 Acquired: 7/30/2012 9:22:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0065	370.6	.1538	2.940	.0271	2431.	-.0117	.1671	.5173	.3092
Stddev	.0098	.7	.0290	.014	.0022	6.	.0023	.0015	.0146	.0105
%RSD	150.6	.1817	18.86	.4624	8.039	.2590	19.30	.8892	2.816	3.405
#1	.0003	370.7	.1859	2.950	.0277	2424.	-.0092	.1670	.5022	.3198
#2	-.0177	371.3	.1460	2.925	.0246	2434.	-.0126	.1657	.5313	.3092
#3	-.0021	369.9	.1295	2.946	.0289	2435.	-.0134	.1687	.5185	.2987

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	446.5	67.95	392.8	5.887	-.0006	66.27	.4697	.2786	-.0508	.0339
Stddev	.7	.63	1.5	.025	.0050	.31	.0074	.0214	.0268	.1481
%RSD	.1513	.9259	.3717	.4322	818.1	.4673	1.577	7.686	52.82	436.9
#1	445.7	68.61	391.5	5.886	-.0059	65.91	.4693	.2905	-.0796	.0511
#2	446.6	67.86	392.6	5.913	.0000	66.41	.4626	.2539	-.0460	-.1221
#3	447.0	67.36	394.4	5.862	.0040	66.48	.4774	.2914	-.0267	.1727

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	38.05	.0801	4.906	3.500	-.0025	.7549	1.268
Stddev	.08	.0410	.015	.009	.0237	.0127	.002
%RSD	.2219	51.22	.3093	.2610	959.9	1.680	.1538
#1	37.99	.0818	4.903	3.498	-.0100	.7503	1.269
#2	38.01	.1203	4.892	3.510	-.0215	.7451	1.266
#3	38.15	.0383	4.922	3.492	.0241	.7692	1.269

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1768.6	3358.8	24579.	9542.6
Stddev	1.8	5.8	48.	4.9
%RSD	.10343	.17392	.19392	.05136
#1	1768.8	3352.5	24584.	9548.1
#2	1766.7	3364.0	24529.	9540.9
#3	1770.3	3360.0	24623.	9538.8

Zoom In
Zoom Out

Sample Name: MP23311-S1 Acquired: 7/30/2012 9:27:05 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0512	390.6	2.105	5.521	.0821	2324.	.0444	.6647	.6586	.5576
Stddev	.0007	1.2	.008	.022	.0006	21.	.0016	.0041	.0011	.0041
%RSD	1.391	.3062	.3714	.4044	.7077	.8957	3.653	.6093	.1644	.7414
#1	.0520	389.6	2.113	5.498	.0820	2311.	.0443	.6693	.6574	.5538
#2	.0509	390.3	2.097	5.521	.0816	2313.	.0461	.6633	.6594	.5569
#3	.0507	391.9	2.104	5.543	.0827	2348.	.0429	.6616	.6589	.5620

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	426.4	98.03	400.9	6.355	.4300	89.36	.9355	.7727	.1172	2.003
Stddev	2.1	.29	2.2	.026	.0021	.04	.0023	.0062	.0098	.009
%RSD	.4938	.2926	.5515	.4039	.4956	.0431	.2489	.7981	8.318	.4370
#1	424.9	97.93	399.4	6.326	.4279	89.32	.9329	.7790	.1217	1.997
#2	425.6	98.35	399.9	6.363	.4322	89.39	.9362	.7666	.1239	1.999
#3	428.8	97.80	403.5	6.375	.4299	89.38	.9374	.7725	.1060	2.013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.25	.5137	5.981	3.909	2.026	1.257	1.693
Stddev	.02	.0079	.018	.005	.018	.004	.004
%RSD	.0587	1.530	.3091	.1306	.8784	.3580	.2183
#1	29.26	.5225	5.961	3.904	2.037	1.254	1.693
#2	29.23	.5114	5.986	3.910	2.035	1.255	1.696
#3	29.25	.5073	5.997	3.914	2.005	1.262	1.689

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1558.5	3297.3	24108.	9787.4
Stddev	1.7	4.0	80.	45.5
%RSD	.10970	.12045	.33041	.46463
#1	1560.2	3292.9	24196.	9809.2
#2	1556.7	3298.0	24088.	9817.8
#3	1558.6	3300.8	24040.	9735.1

Zoom In
Zoom Out

Sample Name: MP23311-S2 Acquired: 7/30/2012 9:31:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0451	370.9	1.787	5.171	.0735	2227.	.0360	.6160	.5981	.5167
Stddev	.0040	.6	.003	.012	.0003	13.	.0003	.0008	.0060	.0032
%RSD	8.830	.1654	.1433	.2232	.4105	.5669	.8268	.1351	1.011	.6129
#1	.0406	370.7	1.790	5.184	.0737	2224.	.0363	.6170	.5938	.5179
#2	.0481	371.6	1.785	5.167	.0732	2240.	.0359	.6153	.6051	.5192
#3	.0467	370.4	1.786	5.162	.0736	2215.	.0357	.6158	.5956	.5132

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	398.2	89.47	370.3	6.417	.3615	85.95	.8716	.6829	.0801	1.660
Stddev	.5	.38	.5	.018	.0026	.20	.0025	.0069	.0086	.014
%RSD	.1184	.4259	.1272	.2879	.7075	.2335	.2875	1.016	10.68	.8566
#1	397.9	89.55	369.9	6.437	.3591	86.17	.8739	.6889	.0712	1.675
#2	398.7	89.81	370.8	6.414	.3614	85.78	.8689	.6753	.0808	1.646
#3	397.9	89.06	370.1	6.401	.3642	85.89	.8719	.6846	.0882	1.660

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	28.44	.4448	6.235	3.437	1.696	1.123	1.588
Stddev	.02	.0070	.011	.009	.021	.003	.003
%RSD	.0681	1.565	.1783	.2674	1.220	.2489	.1813
#1	28.45	.4421	6.248	3.443	1.693	1.126	1.589
#2	28.42	.4396	6.228	3.440	1.717	1.120	1.591
#3	28.45	.4527	6.230	3.426	1.676	1.123	1.585

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1568.1	3303.3	24265.	9733.8
Stddev	1.1	3.8	49.	34.2
%RSD	.07248	.11541	.20379	.35168
#1	1569.4	3300.5	24224.	9742.6
#2	1567.2	3307.7	24253.	9696.1
#3	1567.7	3301.8	24320.	9762.9

Zoom In Zoom Out

Sample Name: F95217-2 Acquired: 7/30/2012 9:35:53 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	284.6	.0811	3.226	.0226	2124.	-.0061	.1421	.3570	.2392
Stddev	.0009	.6	.0055	.004	.0000	19.	.0004	.0011	.0032	.0014
%RSD	1020.	.2208	6.743	.1093	.1506	.8862	6.318	.7781	.8926	.6052
#1	-.0008	284.5	.0854	3.223	.0226	2103.	-.0059	.1421	.3543	.2401
#2	.0010	285.2	.0749	3.230	.0226	2139.	-.0066	.1409	.3563	.2376
#3	.0000	284.0	.0830	3.224	.0226	2130.	-.0059	.1432	.3605	.2400

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	335.2	54.29	297.8	5.396	.0104	55.36	.3628	.2197	-.0185	.0004
Stddev	2.2	.12	3.4	.007	.0007	.04	.0016	.0062	.0139	.0118
%RSD	.6415	.2155	1.152	.1372	6.763	.0659	.4299	2.803	75.34	2708.
#1	333.4	54.33	294.9	5.388	.0105	55.40	.3634	.2266	-.0165	.0067
#2	337.6	54.15	301.6	5.399	.0097	55.34	.3639	.2147	-.0056	-.0132
#3	334.8	54.37	297.0	5.402	.0111	55.34	.3610	.2178	-.0332	.0078

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.84	.0241	6.015	2.791	-.0054	.6011	.9973
Stddev	.06	.0029	.011	.002	.0080	.0021	.0024
%RSD	.1899	12.08	.1767	.0723	148.3	.3428	.2437
#1	29.78	.0214	6.020	2.791	-.0138	.6016	.9981
#2	29.89	.0272	6.022	2.792	-.0045	.5989	.9946
#3	29.86	.0237	6.002	2.788	.0021	.6029	.9992

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1584.8	3302.8	24195.	9736.6
Stddev	1.4	2.6	46.	78.2
%RSD	.08969	.07774	.19063	.80268
#1	1586.3	3305.6	24159.	9812.2
#2	1583.4	3300.7	24179.	9656.2
#3	1584.8	3302.1	24247.	9741.5

Zoom In Zoom Out

Sample Name: F95217-3 Acquired: 7/30/2012 9:40:20 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	314.5	.0911	4.613	.0250	2715.	-.0077	.1555	.4073	.2574
Stddev	.0046	.3	.0096	.013	.0003	19.	.0006	.0023	.0022	.0010
%RSD	820.7	.1013	10.58	.2900	1.285	.6904	7.273	1.498	.5512	.3765
#1	-.0027	314.1	.0969	4.605	.0248	2732.	-.0071	.1581	.4060	.2564
#2	.0047	314.7	.0965	4.628	.0253	2695.	-.0082	.1543	.4099	.2576
#3	-.0037	314.5	.0800	4.605	.0248	2718.	-.0078	.1539	.4060	.2583

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	387.6	61.71	328.7	6.863	.0115	62.71	.3892	.2558	-.0048	.0024
Stddev	.4	.28	.8	.029	.0008	.16	.0020	.0126	.0169	.0185
%RSD	.1068	.4485	.2582	.4198	7.216	.2597	.5113	4.917	349.4	757.9
#1	387.1	61.88	329.6	6.859	.0125	62.82	.3910	.2682	-.0222	.0228
#2	388.0	61.85	327.9	6.837	.0109	62.79	.3894	.2430	.0115	-.0132
#3	387.6	61.39	328.5	6.894	.0113	62.52	.3871	.2563	-.0038	-.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	35.22	.0332	11.16	3.509	-.0023	.7142	1.102
Stddev	.07	.0049	.02	.003	.0131	.0014	.003
%RSD	.2020	14.67	.1900	.0861	577.4	.1936	.2810
#1	35.29	.0280	11.15	3.505	.0100	.7128	1.102
#2	35.24	.0339	11.18	3.511	-.0008	.7145	1.105
#3	35.15	.0377	11.15	3.510	-.0160	.7155	1.099

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1554.0	3303.9	24133.	9731.2
Stddev	4.8	6.5	53.	26.6
%RSD	.30900	.19683	.21879	.27302
#1	1554.0	3296.8	24078.	9701.2
#2	1549.3	3305.5	24184.	9740.3
#3	1558.9	3309.5	24137.	9751.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 9:44:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	40.05	2.017	2.112	2.078	40.90	2.033	2.008	2.065	2.103
Stddev	.0006	.11	.006	.004	.006	.30	.002	.003	.004	.003
%RSD	.2415	.2651	.3023	.2100	.3047	.7331	.1149	.1680	.1724	.1367
#1	.2501	40.02	2.015	2.113	2.071	40.56	2.032	2.008	2.061	2.103
#2	.2512	40.17	2.024	2.116	2.084	41.02	2.036	2.012	2.066	2.106
#3	.2502	39.97	2.012	2.107	2.079	41.13	2.032	2.005	2.068	2.101
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.14	41.02	40.88	2.101	2.008	40.91	2.048	2.035	2.011	2.008
Stddev	.16	.02	.35	.006	.004	.07	.003	.004	.003	.009
%RSD	.3945	.0537	.8586	.2831	.1995	.1772	.1300	.1904	.1457	.4656
#1	39.96	41.03	40.51	2.094	2.008	40.97	2.045	2.031	2.008	2.017
#2	40.21	41.03	40.91	2.102	2.012	40.93	2.049	2.039	2.014	2.009
#3	40.25	40.99	41.21	2.106	2.005	40.83	2.050	2.034	2.010	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.041	2.159	2.114	2.105	2.071	2.158	2.052
Stddev	.005	.002	.004	.006	.004	.005	.007
%RSD	.2420	.0728	.1707	.2873	.1873	.2384	.3273
#1	2.038	2.158	2.114	2.098	2.076	2.153	2.046
#2	2.047	2.161	2.117	2.107	2.069	2.163	2.050
#3	2.039	2.158	2.110	2.110	2.069	2.157	2.059
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 9:44:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1564.2	3183.2	23240.	9254.2
Stddev	3.8	9.0	65.	66.5
%RSD	.24308	.28227	.27986	.71865
#1	1563.0	3184.3	23298.	9330.4
#2	1561.1	3173.7	23169.	9223.7
#3	1568.4	3191.6	23252.	9208.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 9:48:51 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0061	.0002	.0000	.0001	.0031	.0001	.0001	.0003	.0004
Stddev	.0001	.0081	.0005	.0001	.0000	.0004	.0000	.0001	.0002	.0001
%RSD	23.03	133.1	318.7	201.1	8.880	13.87	34.90	52.04	78.01	24.89
#1	.0005	.0150	-.0004	.0001	.0002	.0036	.0001	.0002	.0001	.0003
#2	.0004	-.0007	.0006	.0001	.0002	.0027	.0001	.0001	.0005	.0004
#3	.0003	.0039	.0003	.0000	.0001	.0030	.0000	.0001	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0007	.0000	.0001	.0003	.0263	.0000	.0001	-.0007	.0015
Stddev	.0040	.0101	.0015	.0000	.0001	.0026	.0001	.0005	.0002	.0015
%RSD	75.32	1521.	15580.	41.69	30.57	9.854	216.6	769.2	36.14	101.8
#1	.0094	.0065	-.0017	.0001	.0004	.0292	.0000	.0005	-.0007	.0019
#2	.0048	.0064	.0011	.0001	.0004	.0252	.0000	-.0005	-.0009	-.0002
#3	.0015	-.0110	.0006	.0002	.0002	.0244	.0001	.0002	-.0004	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.0001	.0001	.0002	.0000	.0001	-.0001
Stddev	.0004	.0003	.0000	.0001	.000	.0002	.0001
%RSD	9.085	226.4	25.35	25.32	24.94	239.7	100.5
#1	.0043	.0000	.0002	.0003	.0000	.0001	-.0001
#2	.0044	-.0001	.0001	.0002	.0000	-.0001	.0000
#3	.0051	.0005	.0001	.0002	-.0001	.0002	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 9:48:51 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.5	3377.9	24631.	9462.4
Stddev	3.5	3.3	93.	42.9
%RSD	.18348	.09894	.37938	.45383
#1	1904.3	3381.6	24669.	9433.6
#2	1898.5	3377.0	24700.	9511.8
#3	1904.8	3375.1	24525.	9441.9

Zoom In Zoom Out

Sample Name: F95220-1 Acquired: 7/30/2012 9:53:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0041	416.2	.0621	1.868	.0158	3.430	-.0071	.0739	.0250
Stddev	.0009	.9	.0021	.011	.0001	.007	.0000	.0015	.0003
%RSD	21.72	.2131	3.311	.5632	.4072	.2110	.5162	1.985	1.145
#1	-.0045	416.9	.0644	1.879	.0159	3.438	-.0071	.0739	.0249
#2	-.0048	415.2	.0605	1.858	.0158	3.425	-.0071	.0725	.0253
#3	-.0031	416.5	.0614	1.868	.0158	3.426	-.0071	.0754	.0247

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2228	301.7	103.1	65.71	12.16	.0033	1.835	.0156	.2074
Stddev	.0017	.5	.2	.33	.06	.0005	.007	.0003	.0018
%RSD	.7739	.1686	.2387	.4970	.4783	15.86	.4083	1.835	.8693
#1	.2209	302.1	103.4	65.38	12.16	.0039	1.842	.0154	.2076
#2	.2241	301.2	102.9	65.70	12.22	.0030	1.828	.0159	.2056
#3	.2236	301.9	103.0	66.03	12.10	.0030	1.836	.0155	.2091

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0075	-.0153	22.14	.0377	.3133	F28.50	-.0173	.3220	1.024
Stddev	.0022	.0059	.01	.0024	.0008	.11	.0026	.0020	.002
%RSD	29.14	38.22	.0532	6.249	.2466	.3870	15.15	.6109	.2229
#1	-.0062	-.0132	22.13	.0385	.3135	28.48	-.0198	.3209	1.024
#2	-.0100	-.0219	22.12	.0351	.3125	28.62	-.0174	.3243	1.026
#3	-.0063	-.0108	22.15	.0396	.3140	28.40	-.0146	.3209	1.022

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1683.0	3840.3	27510.	10895.
Stddev	3.7	6.2	119.	9.
%RSD	.22089	.16191	.43211	.08017
#1	1679.4	3833.7	27484.	10886.
#2	1686.9	3841.1	27406.	10896.
#3	1682.7	3846.0	27640.	10904.

Zoom In Zoom Out

Sample Name: MP23310-D1 Acquired: 7/30/2012 9:57:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0047	370.4	.0617	1.690	.0140	3.411	-.0068	.0709	.0300
Stddev	.0016	.7	.0029	.003	.0001	.018	.0004	.0005	.0014
%RSD	35.32	.1883	4.773	.1843	.3636	.5165	6.640	.7222	4.625
#1	-.0028	369.6	.0630	1.688	.0141	3.404	-.0068	.0714	.0284
#2	-.0059	370.7	.0637	1.688	.0140	3.431	-.0063	.0708	.0304
#3	-.0053	370.8	.0583	1.693	.0140	3.398	-.0072	.0704	.0311

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2221	288.5	99.51	62.72	11.77	.0039	1.407	.0162	.1856
Stddev	.0014	.7	.32	.36	.07	.0007	.008	.0002	.0009
%RSD	.6155	.2543	.3188	.5740	.5942	19.02	.5692	1.101	.5089
#1	.2228	287.6	99.80	62.41	11.71	.0032	1.413	.0163	.1849
#2	.2230	288.6	99.17	62.63	11.74	.0046	1.398	.0163	.1853
#3	.2206	289.1	99.57	63.11	11.85	.0038	1.412	.0160	.1867

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0100	-.0071	18.89	.0394	.2688	F29.81	-.0182	.3161	.9640
Stddev	.0070	.0113	.02	.0057	.0001	.18	.0072	.0015	.0009
%RSD	69.81	158.3	.1180	14.52	.0315	.5943	39.72	.4795	.0895
#1	-.0179	-.0097	18.87	.0406	.2688	29.69	-.0110	.3157	.9632
#2	-.0076	-.0169	18.91	.0445	.2687	29.73	-.0255	.3178	.9637
#3	-.0046	.0052	18.88	.0332	.2689	30.02	-.0181	.3149	.9649

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1707.0	3856.0	27752.	10951.
Stddev	2.0	.8	102.	21.
%RSD	.11524	.02039	.36874	.18844
#1	1705.4	3856.1	27795.	10975.
#2	1709.2	3856.8	27826.	10941.
#3	1706.5	3855.2	27635.	10937.

Zoom In Zoom Out

Sample Name: MP23310-S1 Acquired: 7/30/2012 10:02:05 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0362	424.1	1.815	3.762	.0648	27.40	.0426	.5476	.2193
Stddev	.0010	.8	.010	.012	.0002	.09	.0005	.0008	.0029
%RSD	2.820	.1808	.5655	.3263	.3651	.3193	1.198	.1479	1.330
#1	.0369	424.8	1.804	3.771	.0648	27.31	.0425	.5485	.2226
#2	.0351	424.2	1.817	3.767	.0646	27.42	.0432	.5475	.2183
#3	.0368	423.3	1.825	3.748	.0650	27.48	.0422	.5469	.2170

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5276	271.2	113.6	79.65	12.78	.3958	25.44	.5049	.7151
Stddev	.0033	.1	.1	.58	.03	.0017	.02	.0020	.0023
%RSD	.6301	.0321	.0632	.7279	.2427	.4269	.0936	.3884	.3242
#1	.5307	271.3	113.6	79.78	12.81	.3945	25.45	.5065	.7145
#2	.5279	271.1	113.7	79.02	12.76	.3951	25.47	.5056	.7177
#3	.5241	271.2	113.5	80.15	12.76	.3977	25.42	.5027	.7132

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1397	1.809	23.72	.4956	.7714	F23.74	2.133	.7702	1.366
Stddev	.0049	.014	.00	.0033	.0009	.05	.008	.0035	.001
%RSD	3.512	.7974	.0170	.6632	.1159	.2168	.3677	.4499	.0401
#1	.1348	1.823	23.71	.4919	.7720	23.79	2.131	.7721	1.365
#2	.1446	1.810	23.72	.4982	.7717	23.75	2.126	.7722	1.366
#3	.1397	1.794	23.72	.4968	.7703	23.69	2.142	.7662	1.366

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1673.5	3875.1	27949.	11136.
Stddev	3.3	6.3	109.	12.
%RSD	.19591	.16307	.38884	.11192
#1	1670.8	3870.9	27834.	11122.
#2	1677.1	3872.2	27964.	11145.
#3	1672.5	3882.4	28050.	11141.

Zoom In Zoom Out

Sample Name: MP23310-S2 Acquired: 7/30/2012 10:06:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0336	397.3	1.526	3.556	.0583	24.19	.0344	.4881	.1993
Stddev	.0013	.5	.002	.016	.0005	.03	.0003	.0008	.0015
%RSD	3.962	.1143	.1024	.4400	.9194	.1304	.9745	.1698	.7701
#1	.0323	397.3	1.525	3.553	.0586	24.23	.0340	.4876	.2007
#2	.0350	397.7	1.527	3.572	.0587	24.19	.0346	.4890	.1994
#3	.0334	396.8	1.528	3.541	.0577	24.16	.0346	.4876	.1977

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4798	305.3	120.7	83.34	13.29	.3251	22.41	.4432	.6533
Stddev	.0034	.6	.1	.30	.01	.0012	.02	.0033	.0034
%RSD	.7102	.2011	.0731	.3619	.0863	.3748	.0999	.7410	.5227
#1	.4833	305.0	120.8	83.00	13.30	.3261	22.43	.4398	.6530
#2	.4794	306.0	120.7	83.58	13.28	.3255	22.43	.4464	.6569
#3	.4765	304.9	120.6	83.45	13.29	.3238	22.39	.4432	.6501

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1088	1.532	17.22	.4246	.6956	F27.84	1.828	.7469	1.399
Stddev	.0009	.012	.01	.0067	.0018	.02	.001	.0037	.003
%RSD	.8326	.7873	.0846	1.589	.2549	.0586	.0587	.4947	.2246
#1	.1088	1.543	17.21	.4206	.6951	27.85	1.829	.7481	1.395
#2	.1079	1.534	17.23	.4324	.6976	27.82	1.827	.7428	1.400
#3	.1097	1.519	17.21	.4207	.6942	27.84	1.828	.7499	1.402

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1676.0	3825.0	27537.	10949.
Stddev	4.0	8.0	74.	22.
%RSD	.24046	.20889	.26984	.20364
#1	1671.4	3816.9	27464.	10923.
#2	1678.1	3825.2	27613.	10959.
#3	1678.6	3832.9	27533.	10964.

Zoom In Zoom Out

Sample Name: MP23310-PS1 Acquired: 7/30/2012 10:10:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0402	421.8	.1478	2.108	.0641	8.666	.0393	.1196	.0715
Stddev	.0016	.9	.0071	.006	.0003	.066	.0003	.0003	.0011
%RSD	4.023	.2153	4.834	.2873	.5329	.7577	.6670	.2893	1.521
#1	.0405	421.0	.1507	2.102	.0638	8.622	.0395	.1193	.0718
#2	.0384	421.5	.1396	2.107	.0640	8.634	.0390	.1200	.0723
#3	.0416	422.8	.1530	2.114	.0645	8.742	.0394	.1196	.0702

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3170	305.5	112.9	70.06	12.20	.0915	10.86	.1069	.2579
Stddev	.0010	1.0	.4	.56	.03	.0011	.04	.0003	.0040
%RSD	.3273	.3377	.3612	.7975	.2306	1.222	.3647	.2536	1.545
#1	.3179	304.6	112.5	69.63	12.17	.0903	10.81	.1068	.2559
#2	.3173	305.2	112.9	69.86	12.22	.0919	10.87	.1067	.2554
#3	.3159	306.6	113.3	70.69	12.20	.0924	10.88	.1072	.2625

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0756	.0839	22.42	.0792	.3639	F28.68	.0918	.3690	1.295
Stddev	.0105	.0016	.04	.0042	.0014	.02	.0022	.0014	.005
%RSD	13.85	1.892	.1805	5.250	.3808	.0682	2.355	.3873	.3765
#1	.0861	.0821	22.44	.0766	.3624	28.68	.0899	.3675	1.291
#2	.0652	.0845	22.38	.0771	.3640	28.70	.0914	.3703	1.293
#3	.0754	.0851	22.46	.0840	.3652	28.66	.0942	.3692	1.300

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1691.8	3859.3	27829.	11074.
Stddev	2.3	5.8	79.	41.
%RSD	.13558	.15079	.28317	.37382
#1	1693.8	3859.6	27810.	11115.
#2	1689.3	3865.0	27761.	11075.
#3	1692.4	3853.4	27916.	11032.

Zoom In Zoom Out

Sample Name: MP23310-SD1 Acquired: 7/30/2012 10:14:47 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0102	464.8	.0810	2.095	.0170	3.174	-.0082	.0885	.0390	.2485
Stddev	.0025	.2	.0109	.018	.0007	.061	.0018	.0042	.0025	.0027
%RSD	24.39	.0449	13.41	.8408	3.994	1.923	22.16	4.697	6.513	1.077
#1	.0117	464.7	.0817	2.102	.0170	3.105	-.0082	.0839	.0384	.2509
#2	.0117	465.1	.0915	2.109	.0177	3.198	-.0064	.0920	.0419	.2490
#3	.0074	464.7	.0698	2.075	.0163	3.220	-.0100	.0896	.0369	.2456

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	344.0	114.5	72.97	13.66	-.0023	1.253	.0114	.2077	-.0331	-.0037
Stddev	.9	.8	.37	.09	.0025	.136	.0060	.0113	.0024	.0171
%RSD	.2559	.7089	.5056	.6421	105.1	10.83	52.70	5.455	7.387	458.6
#1	343.8	114.2	72.92	13.56	-.0023	1.203	.0159	.1971	-.0352	-.0084
#2	343.2	115.4	72.63	13.69	-.0049	1.149	.0046	.2064	-.0304	.0152
#3	345.0	113.8	73.36	13.73	.0001	1.407	.0137	.2197	-.0336	-.0180

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	38.66	.0456	.3467	32.28	-.0151	.3529	1.140
Stddev	.29	.0118	.0004	.07	.0288	.0031	.002
%RSD	.7594	26.00	.1281	.2058	191.1	.8914	.1807
#1	38.53	.0524	.3462	32.21	.0120	.3512	1.140
#2	39.00	.0524	.3470	32.30	-.0453	.3566	1.142
#3	38.46	.0319	.3469	32.34	-.0119	.3511	1.138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1832.9	3524.1	25626.	9899.7
Stddev	6.3	18.8	63.	32.0
%RSD	.34143	.53304	.24694	.32350
#1	1829.4	3511.4	25698.	9875.1
#2	1829.1	3515.3	25601.	9935.9
#3	1840.1	3545.7	25580.	9888.1

Zoom In Zoom Out

Sample Name: F95220-2 Acquired: 7/30/2012 10:19:08 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0024	251.8	.0535	1.550	.0120	8.592	-.0061	.0595	.0328
Stddev	.0006	.5	.0045	.002	.0001	.030	.0003	.0005	.0011
%RSD	24.33	.2116	8.332	.1206	1.049	.3520	5.279	.8203	3.337
#1	-.0026	252.1	.0497	1.553	.0119	8.558	-.0058	.0594	.0332
#2	-.0030	251.2	.0524	1.549	.0121	8.617	-.0063	.0600	.0337
#3	-.0018	252.1	.0585	1.550	.0121	8.602	-.0063	.0591	.0316

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0974	260.6	99.83	62.92	8.313	.0018	1.562	.0172	.0647
Stddev	.0015	.2	.32	.43	.039	.0002	.020	.0008	.0030
%RSD	1.505	.0939	.3235	.6887	.4629	11.29	1.298	4.642	4.671
#1	.0962	260.3	99.82	62.43	8.289	.0016	1.582	.0180	.0640
#2	.0990	260.8	99.52	63.07	8.292	.0019	1.541	.0172	.0620
#3	.0969	260.7	100.2	63.26	8.357	.0020	1.562	.0164	.0680

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0125	-.0027	17.03	.0285	.3301	F26.32	-.0113	.2756	.8837
Stddev	.0030	.0092	.02	.0017	.0005	.08	.0035	.0006	.0010
%RSD	24.32	347.7	.0912	5.873	.1572	.2854	30.69	.2226	.1185
#1	-.0090	-.0029	17.02	.0303	.3307	26.26	-.0092	.2759	.8826
#2	-.0144	-.0118	17.05	.0270	.3297	26.31	-.0094	.2749	.8847
#3	-.0142	.0067	17.04	.0283	.3298	26.41	-.0153	.2760	.8838

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1706.7	4020.7	29378.	11536.
Stddev	2.4	5.8	61.	29.
%RSD	.14149	.14519	.20841	.25249
#1	1705.0	4016.0	29434.	11502.
#2	1709.4	4018.9	29389.	11553.
#3	1705.6	4027.3	29312.	11552.

Zoom In Zoom Out

Sample Name: F95220-3 Acquired: 7/30/2012 10:23:27 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0073	1266.	.0722	1.540	.0110	2.260	-.0103	.0564	.1659
Stddev	.0018	7.	.0031	.005	.0001	.007	.0003	.0003	.0011
%RSD	24.53	.5621	4.329	.3516	1.283	.3189	3.242	.6039	.6923
#1	-.0093	1259.	.0757	1.534	.0111	2.252	-.0101	.0563	.1647
#2	-.0063	1266.	.0707	1.544	.0110	2.263	-.0107	.0561	.1669
#3	-.0062	1274.	.0700	1.542	.0109	2.266	-.0101	.0568	.1661

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1844	532.2	48.95	48.67	5.095	.0082	1.006	.0881	.3785
Stddev	.0015	2.4	.17	.32	.020	.0003	.014	.0017	.0042
%RSD	.8227	.4505	.3413	.6535	.3975	4.161	1.399	1.955	1.104
#1	.1830	529.4	48.77	48.30	5.105	.0086	.9946	.0861	.3815
#2	.1860	533.8	49.00	48.83	5.071	.0080	1.001	.0890	.3737
#3	.1843	533.4	49.09	48.87	5.107	.0080	1.022	.0892	.3803

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0109	.0031	22.68	.0500	.0814	F16.67	-.0205	.7221	.8365
Stddev	.0080	.0121	.01	.0054	.0003	.05	.0051	.0038	.0022
%RSD	73.00	384.1	.0270	10.85	.3714	.2817	24.77	.5277	.2602
#1	-.0096	.0087	22.67	.0475	.0810	16.69	-.0148	.7221	.8355
#2	-.0037	.0114	22.68	.0562	.0815	16.61	-.0225	.7183	.8350
#3	-.0195	-.0107	22.68	.0462	.0816	16.70	-.0243	.7259	.8390

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1620.4	3883.1	27283.	11267.
Stddev	2.4	7.9	95.	20.
%RSD	.14653	.20453	.35001	.17867
#1	1617.7	3875.4	27179.	11288.
#2	1621.9	3882.6	27366.	11265.
#3	1621.8	3891.3	27303.	11248.

Zoom In Zoom Out

Sample Name: F95220-4 Acquired: 7/30/2012 10:27:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0055	703.2	.0515	2.167	.0148	3.490	-.0068	.0729	.0840
Stddev	.0005	.6	.0041	.004	.0000	.016	.0004	.0006	.0005
%RSD	8.595	.0795	8.038	.1692	.0882	.4485	5.559	.8039	.5508
#1	-.0060	702.9	.0529	2.168	.0148	3.476	-.0071	.0723	.0841
#2	-.0051	703.8	.0547	2.170	.0148	3.487	-.0063	.0735	.0835
#3	-.0055	702.8	.0468	2.163	.0148	3.507	-.0068	.0728	.0844

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0811	298.5	70.64	51.03	6.256	.0029	1.386	.0477	.1914
Stddev	.0007	.3	.06	.08	.006	.0003	.015	.0006	.0033
%RSD	.9065	.0916	.0848	.1627	.0920	9.311	1.070	1.193	1.722
#1	.0815	298.7	70.67	50.94	6.252	.0033	1.376	.0480	.1876
#2	.0816	298.7	70.68	51.10	6.262	.0028	1.403	.0470	.1937
#3	.0803	298.2	70.57	51.04	6.253	.0028	1.379	.0480	.1928

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0143	-.0047	22.49	.0432	.0942	F21.87	-.0243	.3645	.8128
Stddev	.0052	.0247	.06	.0001	.0003	.01	.0023	.0013	.0043
%RSD	36.44	526.4	.2480	.3133	.2951	.0285	9.652	.3571	.5332
#1	-.0160	.0199	22.47	.0431	.0943	21.86	-.0219	.3648	.8177
#2	-.0185	-.0046	22.56	.0431	.0939	21.87	-.0266	.3657	.8115
#3	-.0085	-.0294	22.46	.0433	.0944	21.87	-.0244	.3631	.8093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1684.4	3789.4	27120.	10852.
Stddev	1.0	5.7	48.	29.
%RSD	.06032	.15076	.17577	.26547
#1	1685.3	3788.3	27067.	10825.
#2	1684.6	3784.3	27159.	10850.
#3	1683.3	3795.5	27133.	10882.

Zoom In Zoom Out

Sample Name: F95220-5 Acquired: 7/30/2012 10:32:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0034	1304.	.0706	1.559	.0122	3.740	-.0095	.0626	.1803
Stddev	.0014	23.	.0043	.008	.0002	.026	.0009	.0004	.0008
%RSD	41.27	1.740	6.113	.5367	1.296	.7016	9.964	.6631	.4339
#1	-.0030	1279.	.0752	1.552	.0121	3.714	-.0085	.0625	.1806
#2	-.0023	1309.	.0698	1.568	.0123	3.740	-.0104	.0622	.1808
#3	-.0050	1324.	.0667	1.555	.0121	3.766	-.0097	.0630	.1794

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2540	538.8	54.87	57.41	6.019	.0109	1.058	.1079	.3354
Stddev	.0011	3.6	.23	.38	.010	.0013	.010	.0003	.0110
%RSD	.4274	.6760	.4127	.6693	.1686	12.05	.9650	.2921	3.278
#1	.2540	534.7	54.63	57.07	6.009	.0094	1.046	.1076	.3227
#2	.2551	541.4	55.08	57.35	6.029	.0120	1.066	.1079	.3415
#3	.2529	540.5	54.90	57.83	6.018	.0113	1.060	.1082	.3419

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0085	.0084	24.09	.0426	.0875	F17.02	-.0090	.7146	.9461
Stddev	.0047	.0083	.03	.0051	.0003	.00	.0062	.0010	.0019
%RSD	55.14	98.67	.1172	12.02	.3373	.0261	68.70	.1354	.1979
#1	-.0133	-.0010	24.09	.0464	.0872	17.02	-.0130	.7153	.9454
#2	-.0083	.0149	24.07	.0368	.0877	17.02	-.0019	.7135	.9448
#3	-.0039	.0113	24.12	.0446	.0877	17.02	-.0122	.7149	.9483

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1620.2	3818.5	26751.	11093.
Stddev	5.5	5.3	21.	73.
%RSD	.33958	.13755	.07926	.66011
#1	1620.4	3818.2	26727.	11175.
#2	1614.5	3813.4	26765.	11071.
#3	1625.5	3823.9	26761.	11033.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:36:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2472	39.40	2.004	2.058	2.043	40.45	2.018	1.997	2.029	2.067
Stddev	.0010	.08	.011	.009	.003	.07	.003	.004	.008	.007
%RSD	.3973	.1981	.5228	.4506	.1476	.1647	.1557	.1868	.3767	.3403
#1	.2466	39.47	2.016	2.069	2.046	40.42	2.021	2.001	2.028	2.060
#2	.2466	39.32	2.000	2.053	2.040	40.41	2.015	1.996	2.038	2.066
#3	.2483	39.42	1.995	2.053	2.044	40.53	2.018	1.993	2.023	2.074
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.34	40.56	40.02	2.049	1.995	40.50	2.032	2.015	2.000	1.996
Stddev	.05	.00	.12	.008	.004	.03	.003	.007	.002	.005
%RSD	.1319	.0081	.2892	.3953	.1791	.0690	.1545	.3616	.1096	.2692
#1	39.39	40.57	40.01	2.050	1.999	40.48	2.032	2.010	2.003	2.000
#2	39.29	40.56	39.91	2.057	1.993	40.48	2.029	2.012	1.998	1.998
#3	39.34	40.57	40.14	2.041	1.993	40.53	2.035	2.024	2.000	1.990
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031	2.126	2.082	2.064	2.051	2.130	2.032
Stddev	.006	.006	.001	.006	.008	.002	.003
%RSD	.3136	.3078	.0494	.3105	.3787	.1113	.1231
#1	2.039	2.119	2.083	2.061	2.049	2.130	2.031
#2	2.028	2.127	2.081	2.072	2.044	2.133	2.031
#3	2.027	2.132	2.082	2.060	2.059	2.128	2.035
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 10:36:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1584.5	3216.5	23748.	9491.6
Stddev	3.0	4.1	71.	17.3
%RSD	.18794	.12655	.29843	.18198
#1	1586.0	3211.9	23755.	9471.8
#2	1586.5	3218.7	23673.	9502.8
#3	1581.1	3219.1	23815.	9500.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:40:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0024	.0004	.0001	.0002	.0043	.0001	.0002	.0006	.0005
Stddev	.0001	.0030	.0008	.0000	.0000	.0020	.0000	.0001	.0001	.0001
%RSD	84.43	124.4	215.8	2.984	15.48	47.01	18.65	26.27	16.12	21.18
#1	.0003	.0056	.0012	.0001	.0002	.0049	.0001	.0003	.0005	.0004
#2	.0001	.0016	-.0003	.0001	.0002	.0059	.0002	.0002	.0006	.0005
#3	.0001	-.0001	.0001	.0001	.0002	.0020	.0001	.0002	.0007	.0006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																				
Low Limit																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0036	.0038	.0002	.0005	.0034	.0001	.0002	-.0014	-.0004
Stddev	.0043	.0068	.0073	.0000	.0001	.0078	.0002	.0007	.0011	.0018
%RSD	97.30	189.9	193.9	2.826	29.73	231.0	313.7	361.7	83.18	503.1
#1	.0091	.0113	.0086	.0002	.0005	.0100	-.0002	-.0002	-.0001	.0004
#2	.0033	-.0013	-.0046	.0002	.0006	-.0052	.0001	.0010	-.0016	.0009
#3	.0007	.0007	.0073	.0002	.0003	.0052	.0003	-.0002	-.0024	-.0025
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																				
Low Limit																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056	.0001	.0002	.0005	.0011	.0003	.0001
Stddev	.0003	.0003	.0000	.0000	.0008	.0002	.0000
%RSD	5.211	200.6	14.07	9.873	79.02	78.79	57.01
#1	.0054	-.0001	.0002	.0005	.0019	.0006	.0000
#2	.0055	.0004	.0003	.0004	.0002	.0002	.0001
#3	.0060	.0001	.0002	.0005	.0011	.0001	.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 10:40:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1913.2	3387.5	24783.	9564.6
Stddev	3.2	1.9	86.	19.2
%RSD	.16512	.05519	.34725	.20116
#1	1911.2	3387.1	24744.	9542.4
#2	1916.8	3389.6	24723.	9575.9
#3	1911.6	3385.9	24881.	9575.4

Zoom In
Zoom Out

Sample Name: F95220-6 Acquired: 7/30/2012 10:45:03 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0015	1223.	.0859	.7972	.0074	17.91	-.0105	.0310	.2818	.1159
Stddev	.0013	1.	.0082	.0079	.0002	.06	.0003	.0003	.0019	.0011
%RSD	87.46	.0411	9.594	.9904	2.390	.3427	3.225	.8130	.6586	.9911
#1	-.0003	1223.	.0854	.7983	.0072	17.84	-.0104	.0313	.2816	.1169
#2	-.0029	1222.	.0944	.8046	.0074	17.93	-.0101	.0308	.2837	.1147
#3	-.0013	1223.	.0779	.7889	.0076	17.96	-.0108	.0309	.2800	.1163

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	597.2	17.86	15.73	1.376	.0135	1.140	.1005	.3036	.0021	.0157
Stddev	1.3	.12	.14	.003	.0008	.005	.0005	.0011	.0060	.0082
%RSD	.2185	.6469	.8994	.2186	5.832	.4403	.4889	.3687	285.3	52.52
#1	596.8	17.98	15.58	1.375	.0133	1.146	.0999	.3048	.0056	.0182
#2	598.6	17.84	15.74	1.379	.0128	1.136	.1007	.3034	.0056	.0065
#3	596.1	17.75	15.86	1.373	.0143	1.139	.1008	.3025	-.0048	.0224

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	32.00	.0504	.0907	5.655	-.0092	.8989	.3853
Stddev	.03	.0027	.0005	.004	.0018	.0057	.0003
%RSD	.1061	5.352	.5636	.0744	19.86	.6311	.0725
#1	31.99	.0479	.0902	5.659	-.0111	.9008	.3852
#2	32.03	.0500	.0913	5.657	-.0091	.9034	.3851
#3	31.96	.0532	.0906	5.651	-.0074	.8925	.3856

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1644.5	3435.2	24177.	9906.6
Stddev	6.8	4.4	49.	35.0
%RSD	.41132	.12715	.20162	.35306
#1	1638.2	3432.6	24163.	9882.8
#2	1643.6	3432.8	24136.	9890.2
#3	1651.6	3440.2	24231.	9946.8

Zoom In
Zoom Out

Sample Name: F95008-15 Acquired: 7/30/2012 10:49:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	588.5	.0392	6.895	.0235	4.731	-.0074	.2768	.2672	.0615
Stddev	.0026	1.0	.0103	.017	.0003	.033	.0006	.0025	.0025	.0011
%RSD	233.9	.1724	26.27	.2446	1.110	.7061	7.963	.9091	.9178	1.806
#1	.0003	589.6	.0387	6.913	.0233	4.768	-.0072	.2797	.2646	.0603
#2	-.0041	587.7	.0497	6.879	.0237	4.703	-.0080	.2752	.2676	.0624
#3	.0005	588.1	.0292	6.895	.0236	4.722	-.0069	.2756	.2694	.0618

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	364.8	9.560	17.50	2.779	-.0008	3.108	1.833	.1268	-.0116	-.0039
Stddev	.7	.097	.08	.011	.0017	.031	.004	.0037	.0055	.0055
%RSD	.1981	1.014	.4493	.4060	214.6	1.003	.1920	2.889	47.46	141.6
#1	365.6	9.448	17.48	2.766	.0006	3.100	1.829	.1243	-.0142	.0011
#2	364.1	9.613	17.58	2.782	-.0002	3.081	1.834	.1251	-.0053	-.0099
#3	364.6	9.618	17.43	2.788	-.0028	3.142	1.836	.1310	-.0154	-.0029

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	21.45	.0441	.0306	4.812	-.0109	.7236	.7363
Stddev	.05	.0011	.0004	.011	.0036	.0036	.0026
%RSD	.2101	2.404	1.151	.2234	33.00	.4977	.3559
#1	21.49	.0451	.0303	4.801	-.0141	.7201	.7347
#2	21.40	.0443	.0306	4.814	-.0070	.7233	.7350
#3	21.47	.0430	.0310	4.822	-.0115	.7273	.7394

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1779.0	3982.5	28722.	11131.
Stddev	2.5	11.0	84.	76.
%RSD	.13784	.27520	.29247	.68407
#1	1776.8	3970.1	28806.	11043.
#2	1781.7	3991.0	28638.	11182.
#3	1778.5	3986.3	28721.	11167.

Zoom In
Zoom Out

Sample Name: F95281-2 Acquired: 7/30/2012 10:53:49 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0043	312.1	.0631	2.071	.0185	10.13	-.0067	.1084	.2877	.3662
Stddev	.0023	1.0	.0035	.012	.0000	.05	.0004	.0005	.0039	.0013
%RSD	54.34	.3292	5.471	.5901	.1659	.5031	6.343	.4869	1.354	.3508
#1	-.0069	311.4	.0657	2.066	.0185	10.18	-.0066	.1088	.2872	.3651
#2	-.0031	311.7	.0592	2.062	.0185	10.08	-.0063	.1086	.2918	.3658
#3	-.0027	313.3	.0644	2.085	.0184	10.15	-.0071	.1078	.2840	.3676

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	425.6	45.85	65.18	2.252	.0004	3.970	.2411	.4755	-.0085	-.0064
Stddev	1.3	.26	.14	.009	.0002	.025	.0015	.0014	.0017	.0056
%RSD	.3137	.5600	.2133	.4035	44.22	.6231	.6313	.2847	19.91	87.84
#1	425.2	45.83	65.06	2.263	.0003	3.964	.2422	.4755	-.0091	-.0123
#2	424.4	45.61	65.14	2.248	.0006	3.948	.2394	.4741	-.0098	-.0059
#3	427.0	46.12	65.33	2.246	.0003	3.997	.2418	.4768	-.0066	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	26.18	.0265	.3406	3.896	-.0175	.5939	1.076
Stddev	.04	.0057	.0015	.003	.0055	.0038	.001
%RSD	.1558	21.40	.4357	.0759	31.19	.6359	.0908
#1	26.23	.0296	.3399	3.896	-.0112	.5922	1.077
#2	26.15	.0300	.3396	3.894	-.0211	.5914	1.075
#3	26.17	.0200	.3423	3.899	-.0203	.5983	1.076

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1703.3	3951.8	28790.	11312.
Stddev	3.3	8.4	49.	30.
%RSD	.19487	.21182	.16858	.26288
#1	1703.0	3943.3	28734.	11290.
#2	1706.7	3951.9	28814.	11346.
#3	1700.1	3960.1	28822.	11301.

Zoom In
Zoom Out

Sample Name: F95281-3 Acquired: 7/30/2012 10:58:04 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0069	241.8	.1243	5.398	.0853	56.56	-.0053	.1819	.2024	.5201
Stddev	.0027	.7	.0056	.016	.0004	.53	.0001	.0008	.0024	.0036
%RSD	38.48	.2955	4.523	.2912	.4715	.9382	2.508	.4523	1.162	.6893
#1	-.0100	241.7	.1186	5.382	.0851	56.37	-.0054	.1828	.2049	.5165
#2	-.0057	241.2	.1298	5.399	.0850	56.16	-.0052	.1812	.2020	.5202
#3	-.0052	242.6	.1244	5.414	.0857	57.16	-.0054	.1816	.2003	.5237

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	335.0	62.70	99.85	4.252	-.0007	5.716	.4268	.2300	-.0204	-.0070
Stddev	1.8	.19	.90	.011	.0008	.019	.0014	.0053	.0009	.0077
%RSD	.5295	.2995	.9025	.2560	113.7	.3266	.3392	2.294	4.560	109.2
#1	334.5	62.52	98.98	4.264	-.0006	5.720	.4261	.2250	-.0194	-.0071
#2	333.6	62.89	99.77	4.243	-.0016	5.696	.4259	.2294	-.0212	.0007
#3	337.0	62.69	100.8	4.249	.0000	5.733	.4285	.2355	-.0207	-.0147

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.54	.0267	1.054	3.395	-.0145	.4400	1.586
Stddev	.06	.0043	.002	.003	.0105	.0046	.005
%RSD	.2204	16.13	.2217	.0894	72.53	1.054	.3399
#1	25.56	.0247	1.051	3.398	-.0097	.4352	1.588
#2	25.58	.0316	1.054	3.395	-.0266	.4444	1.589
#3	25.47	.0237	1.056	3.392	-.0073	.4404	1.580

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1763.3	4301.8	31466.	12267.
Stddev	1.5	8.1	57.	70.
%RSD	.08376	.18839	.18115	.56912
#1	1761.6	4293.1	31409.	12269.
#2	1764.3	4303.3	31465.	12336.
#3	1764.0	4309.1	31523.	12197.

Zoom In
Zoom Out

Sample Name: F95207-1 Acquired: 7/30/2012 11:02:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0032	.2888	-.0883	.0233	-.0075	456.2	-.0093	-.0111	-.0019
Stddev	.0758	1.069	.1286	.0096	.0059	2.2	.0066	.0119	.0324
%RSD	2367.	370.2	145.6	41.20	78.20	.4925	71.25	107.0	1743.
#1	.0035	-.9005	-.1944	.0252	-.0093	456.1	-.0164	-.0104	-.0380
#2	-.0728	1.170	-.1252	.0129	-.0122	454.1	-.0034	.0004	.0245
#3	.0788	.5965	.0547	.0318	-.0009	458.6	-.0079	-.0234	.0079

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0912	-.3623	433.6	1368.	-.0120	-.0352	11720.	-.0510	-.0822
Stddev	.0050	.2870	2.7	6.	.0048	.0337	12.	.0212	.1234
%RSD	5.531	79.24	.6331	.4512	40.51	95.64	.1057	41.51	150.2
#1	.0861	-.1079	435.4	1361.	-.0075	-.0008	11730.	-.0381	.0029
#2	.0912	-.3054	434.9	1370.	-.0171	-.0367	11700.	-.0395	-.2237
#3	.0962	-.6735	430.4	1373.	-.0112	-.0681	11720.	-.0755	-.0256

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.2063	.2525	1.350	-.0499	8.404	-.0584	.0800	-.0435	-.0159
Stddev	.0428	.1785	.198	.0379	.041	.0087	.1903	.0100	.0119
%RSD	20.73	70.70	14.68	75.98	.4881	14.84	238.0	23.06	74.99
#1	-.2517	.0747	1.124	-.0246	8.372	-.0484	.0961	-.0443	-.0097
#2	-.1669	.4317	1.496	-.0934	8.390	-.0637	-.1180	-.0531	-.0296
#3	-.2002	.2512	1.430	-.0316	8.450	-.0632	.2617	-.0331	-.0083

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1735.0	3277.8	23910.	9488.3
Stddev	4.6	3.3	30.	56.7
%RSD	.26334	.10083	.12754	.59713
#1	1732.4	3280.7	23876.	9545.8
#2	1732.3	3274.2	23916.	9486.6
#3	1740.3	3278.5	23936.	9432.5

Zoom In
Zoom Out

Sample Name: MP23300-D1 Acquired: 7/30/2012 11:06:49 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0495	-.3079	-.1423	-.0173	-.0077	428.2	.0012	-.0085	.0324
Stddev	.0235	.3789	.0728	.0119	.0028	1.1	.0069	.0040	.0476
%RSD	47.46	123.0	51.12	68.92	35.99	.2467	570.6	47.05	146.8
#1	.0764	-.0780	-.2021	-.0310	-.0048	428.0	-.0044	-.0045	.0150
#2	.0326	-.1006	-.0613	-.0100	-.0103	429.4	.0090	-.0125	-.0040
#3	.0396	-.7452	-.1636	-.0108	-.0078	427.3	-.0009	-.0083	.0862

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1018	-2.134	400.1	1286.	-.0019	-.0418	10940.	-.0061	-.0294
Stddev	.0407	.278	.4	5.	.0050	.0066	11.	.0151	.0649
%RSD	39.95	13.04	.1097	.3839	271.8	15.79	.1037	248.2	220.8
#1	.1488	-2.041	399.9	1280.	-.0029	-.0360	10930.	.0107	-.0382
#2	.0777	-2.446	399.7	1288.	-.0063	-.0405	10950.	-.0185	-.0894
#3	.0790	-1.914	400.6	1289.	.0036	-.0490	10950.	-.0105	.0395

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4064	.0107	1.352	.0346	7.895	-.0692	.1713	-.0082	.0619
Stddev	.1889	.1082	.069	.1217	.051	.0107	.1566	.0228	.0113
%RSD	46.49	1013.	5.101	352.1	.6392	15.39	91.42	278.4	18.35
#1	-.4928	.0195	1.376	-.0750	7.852	-.0571	.3326	-.0181	.0488
#2	-.1897	-.1017	1.407	.0132	7.883	-.0736	.0199	-.0243	.0695
#3	-.5366	.1142	1.275	.1655	7.951	-.0770	.1614	.0179	.0672

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1741.0	3276.2	23880.	9437.5
Stddev	2.4	5.2	37.	5.1
%RSD	.14008	.15970	.15332	.05444
#1	1738.4	3270.8	23862.	9431.7
#2	1741.4	3281.3	23857.	9439.2
#3	1743.2	3276.6	23923.	9441.6

Zoom In
Zoom Out

Sample Name: MP23300-S1 Acquired: 7/30/2012 11:11:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1520	26.79	2.061	2.276	.0402	456.0	.0438	.5423	.2380
Stddev	.0140	.69	.278	.007	.0079	3.8	.0075	.0141	.0367
%RSD	9.197	2.565	13.47	.3020	19.70	.8319	17.14	2.605	15.42
#1	.1681	26.82	1.795	2.283	.0389	458.2	.0373	.5567	.2719
#2	.1446	27.46	2.038	2.270	.0331	451.6	.0520	.5417	.2431
#3	.1432	26.08	2.349	2.274	.0488	458.2	.0421	.5284	.1990

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3633	25.63	430.9	1317.	.5607	.4781	11020.	.5186	.4086
Stddev	.0237	.45	1.8	11.	.0064	.0146	27.	.0449	.1001
%RSD	6.525	1.750	.4142	.8341	1.137	3.049	.2481	8.661	24.51
#1	.3816	25.12	431.3	1320.	.5536	.4852	11020.	.5185	.5242
#2	.3719	25.92	429.0	1305.	.5625	.4614	10990.	.4737	.3525
#3	.3365	25.86	432.5	1326.	.5660	.4879	11050.	.5635	.3490

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2763	2.093	1.138	.5753	8.485	.4553	2.229	.5325	.5789
Stddev	.1076	.402	.062	.0742	.016	.0101	.029	.0390	.0024
%RSD	38.94	19.20	5.438	12.90	.1822	2.216	1.317	7.329	.4225
#1	.2473	2.049	1.081	.5087	8.476	.4667	2.207	.5693	.5767
#2	.1862	1.715	1.130	.5619	8.503	.4513	2.219	.4916	.5783
#3	.3955	2.515	1.204	.6554	8.476	.4478	2.262	.5365	.5815

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1738.1	3277.0	23844.	9462.8
Stddev	1.6	3.2	59.	58.7
%RSD	.08989	.09647	.24937	.62077
#1	1736.5	3273.4	23867.	9432.2
#2	1738.3	3278.8	23777.	9530.5
#3	1739.6	3278.9	23889.	9425.6

Zoom In
Zoom Out

Sample Name: MP23300-S2 Acquired: 7/30/2012 11:15:43 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1320	28.68	2.248	2.324	.0465	473.6	.0472	.5557	.2953
Stddev	.0332	.36	.147	.030	.0055	.7	.0037	.0126	.0478
%RSD	25.14	1.265	6.542	1.311	11.90	.1576	7.902	2.275	16.18
#1	.1577	28.31	2.388	2.336	.0449	472.8	.0434	.5419	.2453
#2	.0945	28.71	2.261	2.289	.0526	474.3	.0509	.5584	.3405
#3	.1437	29.03	2.095	2.346	.0419	473.7	.0473	.5667	.3002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3786	27.61	453.1	1365.	.5809	.5083	11420.	.5417	.6342
Stddev	.0277	.53	1.7	6.	.0070	.0191	19.	.0104	.1841
%RSD	7.309	1.908	.3789	.4629	1.206	3.766	.1681	1.925	29.03
#1	.3839	27.24	452.7	1358.	.5733	.4868	11410.	.5313	.4555
#2	.4032	28.21	451.6	1365.	.5870	.5144	11430.	.5522	.6239
#3	.3486	27.38	455.0	1371.	.5825	.5236	11400.	.5416	.8233

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2244	2.431	1.248	.5179	8.776	.4918	2.088	.5686	.5897
Stddev	.0823	.154	.146	.0900	.021	.0254	.133	.0480	.0141
%RSD	36.66	6.332	11.68	17.38	.2345	5.161	6.369	8.439	2.399
#1	.2895	2.414	1.402	.5033	8.798	.4678	1.979	.6193	.6056
#2	.1320	2.592	1.232	.6143	8.757	.5184	2.050	.5625	.5784
#3	.2517	2.285	1.111	.4361	8.773	.4891	2.236	.5239	.5851

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.5	3272.8	23854.	9474.4
Stddev	3.3	5.0	119.	2.5
%RSD	.18807	.15306	.49970	.02662
#1	1727.8	3267.8	23870.	9473.4
#2	1733.1	3272.7	23728.	9477.3
#3	1733.7	3277.9	23965.	9472.7

Zoom In Zoom Out

Sample Name: MP23300-PS1 Acquired: 7/30/2012 11:20:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0882	3.957	.0959	.5436	.0995	459.2	.1056	.1097	.1320
Stddev	.0110	.224	.1702	.0104	.0028	1.8	.0043	.0103	.0418
%RSD	12.43	5.659	177.5	1.920	2.795	.3858	4.074	9.369	31.67
#1	.0959	4.209	.2889	.5548	.0993	457.2	.1105	.1001	.1745
#2	.0757	3.781	-.0323	.5419	.0967	460.5	.1038	.1206	.1305
#3	.0931	3.880	.0310	.5342	.1023	459.8	.1025	.1084	.0909

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3094	3.719	438.8	1339.	.1144	.1716	11360.	.1812	.0924
Stddev	.0119	.184	1.1	5.	.0015	.0293	14.	.0392	.0333
%RSD	3.854	4.953	.2434	.3478	1.300	17.08	.1201	21.62	36.01
#1	.2963	3.540	439.9	1336.	.1153	.1378	11370.	.2093	.1284
#2	.3121	3.710	438.7	1336.	.1153	.1890	11360.	.1978	.0626
#3	.3197	3.908	437.8	1344.	.1127	.1881	11350.	.1365	.0863

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.1004	.1397	1.310	.1346	8.277	.1062	.4251	.0672	.6585
Stddev	.2146	.2000	.026	.0893	.018	.0014	.0804	.0517	.0104
%RSD	213.8	143.2	2.010	66.33	.2192	1.359	18.92	76.86	1.575
#1	.1426	-.0682	1.280	.0334	8.298	.1062	.5144	.0603	.6468
#2	-.2642	.1565	1.317	.2023	8.264	.1048	.4022	.0193	.6621
#3	-.1795	.3307	1.331	.1681	8.269	.1077	.3585	.1220	.6666

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.6	3259.6	23808.	9464.2
Stddev	4.7	16.8	30.	36.8
%RSD	.26871	.51568	.12747	.38911
#1	1728.1	3240.6	23830.	9497.2
#2	1729.9	3265.7	23773.	9470.8
#3	1736.9	3272.5	23820.	9424.5

Zoom In Zoom Out

Sample Name: MP23300-SD1 Acquired: 7/30/2012 11:24:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1000.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.3337	-1.425	-.0074	.0190	-.0453	504.1	-.0075	-.0133	.3184
Stddev	.2980	5.593	.5540	.0932	.0116	1.8	.0486	.0865	.1702
%RSD	89.30	392.4	7483.	489.7	25.72	.3504	645.2	648.7	53.45
#1	.0190	5.029	-.3590	-.0605	-.0378	504.7	.0303	.0784	.1222
#2	.6116	-4.853	.6312	-.0040	-.0393	505.5	-.0624	-.0250	.4263
#3	.3705	-4.451	-.2944	.1216	-.0587	502.2	.0095	-.0934	.4066

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4352	-12.46	432.8	1385.	.0055	-.2434	11750.	-.3367	.1984
Stddev	.1758	.53	13.4	16.	.0237	.1364	36.	.0231	.2739
%RSD	40.39	4.273	3.089	1.133	428.8	56.05	.3039	6.850	138.1
#1	.2629	-13.07	445.4	1404.	-.0150	-.1223	11750.	-.3235	.0482
#2	.4285	-12.16	434.3	1376.	.0001	-.2168	11790.	-.3233	.0324
#3	.6142	-12.15	418.8	1376.	.0315	-.3912	11720.	-.3633	.5145

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-1.358	1.757	5.922	-.5109	8.414	-.6298	-.0603	-.0914	-.0114
Stddev	.560	1.119	.127	.1135	.082	.0314	1.047	.2167	.0719
%RSD	41.20	63.67	2.142	22.22	.9776	4.985	1735.	237.0	629.8
#1	-.9381	.9916	5.782	-.4096	8.382	-.6122	-1.269	-.3386	-.0203
#2	-1.993	3.041	6.029	-.6335	8.508	-.6112	.5606	.0663	.0645
#3	-1.143	1.239	5.954	-.4894	8.353	-.6661	.5273	-.0021	-.0785

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1846.4	3347.2	24541.	9493.2
Stddev	.9	5.3	33.	40.9
%RSD	.04678	.15959	.13353	.43036
#1	1845.9	3345.4	24517.	9492.2
#2	1845.8	3353.3	24579.	9452.8
#3	1847.4	3343.1	24529.	9534.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:29:03 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500	39.18	2.010	2.046	2.036	40.46	2.021	1.999	2.028	2.069
Stddev	.0006	.02	.004	.007	.001	.09	.002	.003	.004	.003
%RSD	.2326	.0488	.2070	.3529	.0702	.2288	.0880	.1609	.1949	.1591
#1	.2499	39.20	2.007	2.054	2.038	40.40	2.020	2.000	2.032	2.067
#2	.2507	39.16	2.010	2.039	2.035	40.57	2.023	2.002	2.026	2.073
#3	.2495	39.19	2.015	2.045	2.035	40.41	2.021	1.996	2.025	2.067
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.13	40.53	39.98	2.045	1.998	40.39	2.034	2.013	2.000	2.002
Stddev	.06	.05	.19	.003	.002	.10	.001	.005	.004	.004
%RSD	.1580	.1204	.4726	.1367	.1045	.2590	.0449	.2280	.2111	.1854
#1	39.20	40.59	39.78	2.042	2.000	40.51	2.034	2.015	2.005	1.997
#2	39.08	40.51	40.15	2.045	1.998	40.37	2.033	2.017	1.997	2.004
#3	39.11	40.50	39.99	2.047	1.995	40.31	2.035	2.008	1.999	2.004
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.034	2.136	2.073	2.059	2.049	2.131	2.037
Stddev	.003	.003	.004	.003	.008	.002	.001
%RSD	.1367	.1312	.1884	.1257	.3811	.0883	.0663
#1	2.033	2.134	2.077	2.056	2.041	2.133	2.035
#2	2.038	2.139	2.070	2.062	2.057	2.129	2.037
#3	2.033	2.135	2.071	2.059	2.047	2.132	2.038
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 11:29:03 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1579.6	3203.6	23663.	9417.4
Stddev	3.4	3.0	47.	16.8
%RSD	.21211	.09423	.19687	.17798
#1	1577.0	3201.1	23610.	9405.1
#2	1578.5	3202.8	23681.	9410.6
#3	1583.4	3206.9	23697.	9436.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:33:09 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0060	.0007	.0002	.0003	.0076	.0002	.0003	.0005	.0005
Stddev	.0002	.0026	.0009	.0001	.0000	.0017	.0001	.0001	.0001	.0001
%RSD	43.79	42.29	133.2	35.02	8.500	22.61	21.58	39.38	21.10	19.06
#1	.0005	.0082	.0008	.0002	.0002	.0059	.0003	.0002	.0006	.0005
#2	.0004	.0032	.0015	.0003	.0003	.0093	.0002	.0004	.0004	.0007
#3	.0002	.0067	-.0003	.0002	.0003	.0076	.0002	.0003	.0005	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0089	.0102	.0003	.0006	.0062	.0000	.0003	-.0005	.0001
Stddev	.0034	.0151	.0136	.0000	.0003	.0050	.0001	.0003	.0004	.0014
%RSD	53.16	169.9	133.9	7.393	44.41	80.36	482.3	103.8	85.47	1104.
#1	.0101	.0232	.0138	.0003	.0008	.0046	-.0001	.0004	.0000	.0013
#2	.0062	-.0069	.0216	.0003	.0007	.0117	.0001	.0000	-.0006	-.0014
#3	.0032	.0105	-.0049	.0003	.0003	.0022	.0001	.0007	-.0009	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0005	.0003	.0005	.0014	.0002	.0001
Stddev	.0004	.0005	.0000	.0001	.0003	.0001	.0000
%RSD	7.560	104.3	6.150	18.33	18.27	27.95	13.24
#1	.0055	.0001	.0003	.0006	.0017	.0002	.0001
#2	.0062	.0002	.0003	.0005	.0013	.0003	.0001
#3	.0054	.0011	.0003	.0004	.0012	.0002	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 11:33:09 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.3	3369.7	24716.	9492.5
Stddev	4.8	.8	11.	25.2
%RSD	.25401	.02513	.04636	.26544
#1	1899.9	3368.8	24704.	9521.2
#2	1909.1	3369.8	24719.	9482.2
#3	1907.0	3370.5	24726.	9474.1

Zoom In Zoom Out

Sample Name: F95207-2 Acquired: 7/30/2012 11:37:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0616	-.0364	-.0575	.0120	-.0108	442.5	.0004	.0143	.0234
Stddev	.0208	.6981	.1479	.0101	.0068	1.1	.0034	.0063	.0059
%RSD	33.82	1916.	257.3	83.87	63.20	.2500	860.3	43.92	25.14
#1	.0800	.3179	-.1780	.0222	-.0030	442.2	.0029	.0133	.0180
#2	.0660	.4134	.1076	.0021	-.0136	441.6	.0018	.0085	.0297
#3	.0390	-.8406	-.1020	.0117	-.0158	443.7	-.0035	.0209	.0226

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0982	-2.417	415.9	1323.	-.0060	-.0064	11320.	.0008	-.0495
Stddev	.0295	.224	7.7	2.	.0048	.0277	36.	.0551	.1147
%RSD	30.03	9.285	1.849	.1678	80.39	433.7	.3171	7328.	231.9
#1	.0641	-2.242	408.4	1322.	-.0092	-.0353	11280.	-.0074	-.0516
#2	.1139	-2.670	423.8	1322.	-.0084	-.0038	11330.	-.0499	.0663
#3	.1164	-2.338	415.5	1326.	-.0004	.0199	11340.	.0595	-.1631

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.1663	.0928	1.299	-.0190	8.128	-.0658	-.0335	-.0022	.0115
Stddev	.1572	.1640	.027	.1367	.025	.0067	.1367	.0470	.0133
%RSD	94.57	176.6	2.091	718.0	.3053	10.22	407.9	2096.	115.7
#1	-.3214	-.0768	1.320	.1118	8.100	-.0665	-.0016	.0107	-.0012
#2	-.1704	.1049	1.308	-.1609	8.145	-.0588	.0844	.0369	.0104
#3	-.0070	.2504	1.268	-.0080	8.140	-.0722	-.1834	-.0544	.0254

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.5	3260.3	23840.	9388.0
Stddev	2.5	3.1	46.	27.6
%RSD	.14668	.09597	.19431	.29414
#1	1730.1	3258.5	23884.	9413.6
#2	1729.9	3258.4	23792.	9391.6
#3	1734.4	3263.9	23844.	9358.8

Zoom In Zoom Out

Sample Name: F95207-3 Acquired: 7/30/2012 11:42:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0249	.4839	.0102	.0053	-.0118	469.4	-.0065	-.0116	.0207
Stddev	.0707	.7659	.1493	.0195	.0030	1.6	.0008	.0275	.0151
%RSD	284.1	158.3	1457.	370.6	25.53	.3339	13.05	236.5	72.91
#1	.1007	-.2458	-.1333	.0241	-.0108	468.4	-.0072	.0148	.0062
#2	.0131	1.281	-.0007	.0066	-.0151	468.6	-.0056	-.0401	.0195
#3	-.0392	.4161	.1647	-.0149	-.0093	471.2	-.0067	-.0096	.0363

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0773	-2.455	430.2	1360.	.0984	-.0310	11650.	-.0250	.0077
Stddev	.0597	.332	.6	9.	.0080	.0394	17.	.0189	.0241
%RSD	77.18	13.52	.1399	.6660	8.123	127.0	.1428	75.74	314.3
#1	.0228	-2.243	430.8	1350.	.0905	.0048	11650.	-.0075	.0113
#2	.1410	-2.284	430.3	1361.	.1064	-.0733	11670.	-.0451	.0297
#3	.0681	-2.837	429.6	1368.	.0982	-.0246	11630.	-.0224	-.0180

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.3081	.0003	1.282	-.0214	8.373	-.0865	.1456	-.0089	2.440
Stddev	.1537	.1831	.139	.0752	.020	.0089	.1266	.0577	.010
%RSD	49.89	67620.	10.83	351.3	.2331	10.27	86.95	648.1	.4204
#1	-.4827	.1987	1.436	.0372	8.352	-.0781	.2146	.0340	2.451
#2	-.1930	-.0360	1.167	.0047	8.377	-.0958	-.0005	.0138	2.434
#3	-.2488	-.1619	1.243	-.1062	8.390	-.0854	.2228	-.0745	2.433

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.8	3263.5	23830.	9488.1
Stddev	1.2	7.2	45.	3.3
%RSD	.06663	.22011	.18954	.03511
#1	1727.9	3255.5	23859.	9491.4
#2	1725.6	3265.5	23854.	9484.7
#3	1726.8	3269.4	23778.	9488.2

Zoom In Zoom Out

Sample Name: F95207-4 Acquired: 7/30/2012 11:46:33 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0053	-.7106	-.0399	.0039	-.0074	438.1	-.0110	-.0031	.0202
Stddev	.0663	.7077	.0272	.0123	.0048	1.8	.0090	.0269	.0355
%RSD	1248.	99.59	68.26	318.7	64.07	.4006	81.75	858.2	176.0
#1	.0791	.0975	-.0111	.0082	-.0060	437.5	-.0064	.0272	.0602
#2	-.0140	-1.220	-.0434	.0134	-.0127	436.6	-.0214	-.0129	-.0073
#3	-.0492	-1.009	-.0652	-.0100	-.0036	440.0	-.0052	-.0238	.0076

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1130	-2.567	410.2	1310.	-.0059	-.0420	11140.	-.0497	.0217
Stddev	.0054	.115	.3	10.	.0059	.0285	9.	.0372	.1029
%RSD	4.820	4.468	.0618	.7494	101.2	67.86	.0816	74.89	474.0
#1	.1069	-2.631	410.1	1299.	-.0127	-.0359	11140.	-.0822	-.0452
#2	.1145	-2.435	410.1	1314.	-.0026	-.0170	11130.	-.0579	-.0298
#3	.1175	-2.636	410.5	1317.	-.0022	-.0730	11150.	-.0091	.1401

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.2517	-.1154	1.239	-.0846	8.032	-.0968	.0638	-.0122	-.0079
Stddev	.1130	.2275	.167	.1238	.031	.0097	.0463	.0614	.0060
%RSD	44.89	197.2	13.46	146.3	.3904	10.02	72.61	503.9	75.57
#1	-.3279	-.1471	1.169	-.2127	8.000	-.1007	.0374	.0325	-.0082
#2	-.1219	-.3254	1.118	-.0754	8.034	-.1039	.1173	.0131	-.0018
#3	-.3054	.1263	1.429	.0343	8.063	-.0857	.0367	-.0822	-.0138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1724.3	3253.1	23713.	9369.7
Stddev	2.4	2.7	56.	46.6
%RSD	.13821	.08392	.23600	.49692
#1	1721.6	3251.6	23726.	9421.4
#2	1725.8	3251.4	23762.	9356.7
#3	1725.6	3256.2	23652.	9331.1

Zoom In Zoom Out

Sample Name: F95238-1F Acquired: 7/30/2012 11:51:01 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0019	.0821	.0066	.1168	-.0001	F1030.	-.0025	.0041	.0010
Stddev	.0001	.0192	.0025	.0012	.0000	6.	.0001	.0002	.0010
%RSD	4.889	23.39	38.58	.9945	12.59	.5649	5.407	4.594	95.00
#1	.0019	.0600	.0038	.1159	-.0001	1033.	-.0025	.0040	.0021
#2	.0020	.0933	.0088	.1181	-.0002	1033.	-.0023	.0044	.0009
#3	.0019	.0932	.0070	.1164	-.0001	1023.	-.0026	.0041	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	2.584	31.54	408.0	F9.342	.0014	F1410.	.0033	-.0020
Stddev	.0004	.009	.02	.8	.020	.0003	20.	.0004	.0015
%RSD	401.1	.3684	.0573	.1884	.2098	18.53	1.435	12.21	76.82
#1	.0004	2.574	31.56	407.9	9.362	.0015	1434.	.0034	-.0007
#2	-.0003	2.592	31.52	408.7	9.323	.0015	1399.	.0037	-.0037
#3	.0002	2.586	31.54	407.2	9.341	.0011	1399.	.0029	-.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0007	-.0017	13.24	-.0009	7.813	-.0122	-.0005	.0007	.0075
Stddev	.0018	.0016	.04	.0015	.044	.0003	.0019	.0007	.0003
%RSD	246.9	96.94	.3040	165.0	.5627	2.473	380.0	97.74	4.321
#1	-.0016	-.0003	13.19	-.0017	7.852	-.0123	-.0024	-.0001	.0079
#2	.0014	-.0013	13.27	.0008	7.765	-.0119	-.0004	.0012	.0073
#3	-.0019	-.0035	13.25	-.0018	7.821	-.0125	.0014	.0009	.0073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1273.0	2678.3	19790.	8712.5
Stddev	.6	4.8	52.	34.0
%RSD	.04772	.17998	.26410	.39063
#1	1272.4	2678.7	19741.	8683.9
#2	1273.2	2673.4	19845.	8703.4
#3	1273.6	2683.0	19786.	8750.1

Zoom In Zoom Out

Sample Name: F95238-2F Acquired: 7/30/2012 11:55:50 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	.0587	.0013	.2379	-.0001	645.1	-.0014	.0047	.0011
Stddev	.0005	.0006	.0023	.0004	.0000	1.9	.0001	.0003	.0004
%RSD	49.78	.9782	177.4	.1703	12.38	.2895	9.955	6.303	32.01
#1	.0012	.0581	.0013	.2378	-.0001	643.8	-.0015	.0044	.0014
#2	.0011	.0592	-.0010	.2383	-.0001	647.3	-.0015	.0048	.0012
#3	.0004	.0587	.0035	.2375	-.0001	644.4	-.0012	.0050	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	1.021	24.64	373.4	5.783	.0030	F881.5	.0023	-.0012
Stddev	.0001	.007	.07	1.2	.003	.0002	24.4	.0005	.0004
%RSD	71.77	.6979	.2951	.3155	.0589	6.695	2.774	21.84	34.60
#1	-.0001	1.014	24.70	372.8	5.780	.0029	899.7	.0025	-.0012
#2	-.0003	1.028	24.56	374.7	5.782	.0032	891.0	.0017	-.0016
#3	-.0002	1.020	24.66	372.6	5.787	.0029	853.7	.0026	-.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	-.0038	12.30	-.0024	6.278	-.0058	.0005	.0002	.0016
Stddev	.0007	.0053	.04	.0015	.025	.0002	.0011	.0001	.0003
%RSD	59.15	139.7	.3112	60.13	.3988	3.166	245.7	28.94	21.50
#1	-.0020	-.0003	12.25	-.0020	6.296	-.0057	.0010	.0002	.0012
#2	-.0011	-.0012	12.32	-.0012	6.250	-.0060	-.0008	.0001	.0019
#3	-.0006	-.0098	12.32	-.0041	6.290	-.0056	.0012	.0002	.0016

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1348.9	2789.5	20589.	8775.1
Stddev	6.4	6.7	24.	48.5
%RSD	.47702	.24172	.11509	.55247
#1	1341.5	2796.7	20602.	8740.0
#2	1353.2	2783.3	20561.	8754.9
#3	1352.0	2788.5	20602.	8830.5

Zoom In Zoom Out

Sample Name: F95268-1 Acquired: 7/30/2012 12:00:40 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0031	1.648	.0109	.0348	.0000	802.9	-.0016	.0051	.1038
Stddev	.0031	.023	.0050	.0004	.000	1.9	.0004	.0002	.0021
%RSD	101.1	1.393	45.60	1.208	747.4	.2318	27.29	4.423	1.993
#1	.0002	1.647	.0053	.0345	-.0001	800.7	-.0022	.0050	.1043
#2	.0027	1.626	.0148	.0347	-.0002	804.2	-.0013	.0054	.1056
#3	.0064	1.672	.0126	.0353	.0002	803.7	-.0015	.0050	.1016

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0064	1.877	10.04	1192.	.7288	.0720	F3559.	.0681	.0031
Stddev	.0007	.009	.11	5.	.0012	.0007	4.	.0010	.0015
%RSD	10.45	.5028	1.111	.4471	.1603	1.024	.1205	1.464	47.38
#1	.0057	1.867	9.932	1187.	.7298	.0717	3564.	.0674	.0031
#2	.0063	1.879	10.02	1190.	.7275	.0728	3556.	.0677	.0016
#3	.0070	1.885	10.15	1198.	.7291	.0714	3557.	.0692	.0046

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0047	.0002	37.95	-.0052	F17.76	.0308	-.0010	.0755	.0099
Stddev	.0040	.0014	.10	.0020	.20	.0005	.0085	.0008	.0003
%RSD	83.83	631.5	.2545	38.45	1.129	1.639	832.5	1.011	2.947
#1	-.0025	-.0008	38.05	-.0049	17.69	.0314	.0085	.0761	.0102
#2	-.0093	-.0003	37.93	-.0074	17.60	.0305	-.0080	.0746	.0099
#3	-.0024	.0018	37.86	-.0034	17.99	.0306	-.0035	.0758	.0096

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1281.6	2696.0	19806.	8650.1
Stddev	3.5	8.4	34.	37.5
%RSD	.27487	.31088	.17156	.43335
#1	1278.0	2687.3	19767.	8683.0
#2	1281.8	2696.9	19825.	8657.9
#3	1285.0	2704.0	19827.	8609.3

Zoom In Zoom Out

Sample Name: F95268-3 Acquired: 7/30/2012 12:05:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	1.972	.0123	.0385	.0000	805.4	-.0020	.0045	.1053
Stddev	.0016	.030	.0014	.0004	.0001	5.2	.0004	.0005	.0012
%RSD	180.2	1.544	11.55	.9455	303.9	.6432	18.65	11.17	1.110
#1	.0006	1.939	.0124	.0380	.0000	804.3	-.0025	.0042	.1066
#2	.0026	1.999	.0108	.0386	-.0001	800.8	-.0019	.0051	.1048
#3	-.0006	1.978	.0136	.0387	.0002	811.0	-.0017	.0043	.1044

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0064	2.201	9.720	1173.	.8195	.0722	F3475.	.0713	-.0003
Stddev	.0009	.007	.110	2.	.0021	.0003	44.	.0013	.0043
%RSD	13.40	.3415	1.134	.1951	.2623	.3561	1.268	1.823	1493.
#1	.0069	2.203	9.752	1172.	.8191	.0721	3520.	.0701	.0014
#2	.0070	2.207	9.597	1171.	.8219	.0720	3432.	.0711	.0029
#3	.0054	2.193	9.810	1175.	.8176	.0725	3474.	.0727	-.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0063	.0007	38.69	-.0054	F17.48	.0446	-.0023	.0773	.0056
Stddev	.0029	.0129	.05	.0013	.11	.0002	.0065	.0010	.0004
%RSD	45.81	1723.	.1172	23.34	.6216	.4486	279.8	1.288	6.374
#1	-.0088	.0139	38.70	-.0048	17.41	.0444	-.0021	.0771	.0057
#2	-.0031	-.0119	38.64	-.0045	17.44	.0447	.0041	.0783	.0059
#3	-.0071	.0003	38.73	-.0068	17.61	.0447	-.0089	.0763	.0052

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1280.6	2711.0	19914.	8693.8
Stddev	1.1	4.3	46.	15.4
%RSD	.08668	.15734	.23028	.17766
#1	1281.8	2708.5	19894.	8688.5
#2	1280.3	2716.0	19881.	8711.2
#3	1279.7	2708.7	19966.	8681.8

Zoom In Zoom Out

Sample Name: F95268-5 Acquired: 7/30/2012 12:10:20 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.7544	.0067	.0229	-.0001	715.5	-.0016	.0046	.0063
Stddev	.0007	.0071	.0032	.0001	.0001	6.3	.0001	.0005	.0004
%RSD	93.64	.9352	46.90	.4480	110.5	.8823	6.400	10.35	6.070
#1	.0005	.7623	.0031	.0229	-.0001	708.4	-.0016	.0047	.0066
#2	.0002	.7488	.0087	.0230	.0000	720.5	-.0017	.0050	.0058
#3	.0015	.7520	.0084	.0228	.0000	717.6	-.0015	.0041	.0064

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	.6585	27.79	F1027.	2.595	.0652	F2542.	.0179	-.0008
Stddev	.0001	.0032	.07	10.	.009	.0005	24.	.0002	.0002
%RSD	4.740	.4863	.2592	.9372	.3390	.7018	.9313	.9475	27.03
#1	.0020	.6554	27.75	1017.	2.586	.0657	2516.	.0177	-.0006
#2	.0019	.6618	27.75	1035.	2.603	.0651	2561.	.0179	-.0009
#3	.0018	.6583	27.88	1031.	2.597	.0647	2551.	.0180	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0045	-.0010	41.63	-.0047	F14.32	.0075	-.0007	.0402	.0047
Stddev	.0024	.0049	.06	.0026	.14	.0003	.0012	.0008	.0002
%RSD	51.94	502.6	.1513	54.85	.9976	3.657	163.5	1.912	4.576
#1	-.0072	-.0065	41.68	-.0073	14.26	.0072	-.0013	.0407	.0049
#2	-.0029	.0011	41.65	-.0021	14.49	.0075	-.0016	.0407	.0047
#3	-.0035	.0026	41.56	-.0048	14.22	.0078	.0006	.0394	.0045

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1171.8	2532.1	18417.	8285.6
Stddev	1.0	4.5	62.	48.9
%RSD	.08449	.17930	.33712	.59053
#1	1171.7	2527.8	18435.	8337.2
#2	1172.9	2531.6	18348.	8239.9
#3	1170.9	2536.8	18469.	8279.8

Zoom In Zoom Out

Sample Name: F95268-7 Acquired: 7/30/2012 12:15:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.1000	.0041	.0222	-.0001	599.0	-.0013	.0057	.0021
Stddev	.0006	.0082	.0023	.0003	.0000	2.1	.0001	.0001	.0002
%RSD	65.89	8.219	57.50	1.364	39.52	.3542	6.399	1.839	11.49
#1	.0015	.0914	.0030	.0225	-.0002	598.0	-.0014	.0058	.0019
#2	.0003	.1078	.0067	.0219	-.0001	601.5	-.0013	.0056	.0021
#3	.0012	.1007	.0025	.0222	-.0001	597.6	-.0012	.0058	.0023

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0024	.0323	10.24	874.2	1.547	.0788	F2321.	.0179	.0057
Stddev	.0002	.0014	.08	4.4	.004	.0004	40.	.0006	.0017
%RSD	7.612	4.243	.8102	.4997	.2732	.5200	1.715	3.186	29.29
#1	.0026	.0339	10.33	874.7	1.542	.0784	2367.	.0185	.0076
#2	.0024	.0320	10.22	878.2	1.549	.0787	2301.	.0176	.0045
#3	.0023	.0312	10.17	869.5	1.550	.0792	2295.	.0176	.0050

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0027	41.38	-.0044	F13.15	-.0052	-.0011	.0091	.0037
Stddev	.0001	.0049	.07	.0016	.07	.0000	.0018	.0005	.0003
%RSD	17.41	181.2	.1787	36.56	.5050	.8530	167.7	5.292	7.600
#1	-.0009	.0053	41.33	-.0057	13.23	-.0051	-.0025	.0095	.0040
#2	-.0009	.0058	41.34	-.0026	13.12	-.0052	.0010	.0086	.0036
#3	-.0006	-.0030	41.46	-.0049	13.10	-.0052	-.0017	.0091	.0034

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1201.6	2582.9	18773.	8439.9
Stddev	1.1	3.3	22.	41.7
%RSD	.09470	.12756	.11980	.49382
#1	1202.1	2579.9	18783.	8415.9
#2	1200.3	2586.4	18748.	8415.8
#3	1202.4	2582.3	18789.	8488.0

Zoom In Zoom Out

Sample Name: F95268-9 Acquired: 7/30/2012 12:20:00 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.1200	.0081	.0160	-.0001	553.9	-.0011	.0028	.0018
Stddev	.001	.0036	.0016	.0002	.0001	1.0	.0001	.0003	.0006
%RSD	3620.	2.989	19.27	1.204	94.90	.1818	9.463	11.54	31.83
#1	-.0005	.1173	.0097	.0160	-.0002	555.0	-.0010	.0024	.0021
#2	-.0004	.1186	.0066	.0162	.0000	553.0	-.0012	.0030	.0012
#3	.0008	.1240	.0080	.0159	-.0001	553.5	-.0011	.0029	.0022

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0015	.0531	4.117	583.2	.8669	.0323	F1634.	.0034	.0184
Stddev	.0002	.0015	.057	1.0	.0038	.0003	6.	.0003	.0013
%RSD	12.99	2.860	1.383	.1735	.4428	1.065	.3535	7.968	6.825
#1	.0013	.0539	4.060	584.3	.8629	.0326	1638.	.0034	.0170
#2	.0017	.0513	4.174	582.2	.8672	.0322	1637.	.0037	.0194
#3	.0014	.0540	4.118	583.2	.8706	.0320	1627.	.0032	.0188

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0029	-.0029	42.93	-.0031	F11.08	-.0033	.0003	.0136	.0019
Stddev	.0012	.0019	.07	.0005	.15	.0001	.0034	.0005	.0002
%RSD	42.35	64.97	.1673	14.67	1.332	4.508	1036.	3.699	11.41
#1	-.0016	-.0011	42.99	-.0028	11.25	-.0033	.0012	.0133	.0019
#2	-.0040	-.0027	42.85	-.0029	10.99	-.0031	.0032	.0133	.0016
#3	-.0029	-.0049	42.94	-.0036	11.01	-.0034	-.0034	.0142	.0021

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1271.5	2681.9	19824.	8680.8
Stddev	2.9	6.6	70.	46.1
%RSD	.22593	.24610	.35324	.53082
#1	1272.9	2675.9	19885.	8627.7
#2	1273.5	2689.0	19747.	8704.8
#3	1268.2	2680.8	19839.	8709.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:24:49 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2476	39.09	2.001	2.083	2.039	40.38	2.009	1.979	2.030	2.114
Stddev	.0016	.07	.003	.006	.008	.29	.003	.003	.004	.003
%RSD	.6324	.1714	.1416	.2691	.3761	.7145	.1371	.1545	.2067	.1162
#1	.2479	39.15	1.999	2.089	2.044	40.45	2.007	1.976	2.034	2.111
#2	.2458	39.02	1.999	2.078	2.042	40.63	2.008	1.979	2.027	2.116
#3	.2489	39.10	2.004	2.083	2.030	40.07	2.012	1.982	2.028	2.114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.42	41.16	39.78	2.054	1.974	41.03	2.032	2.025	2.003	1.985
Stddev	.14	.07	.36	.009	.003	.07	.004	.003	.007	.006
%RSD	.3649	.1602	.9010	.4559	.1663	.1642	.2056	.1614	.3292	.3110
#1	38.51	41.10	39.98	2.065	1.972	40.99	2.028	2.022	1.998	1.991
#2	38.49	41.23	40.00	2.050	1.974	41.10	2.033	2.026	2.000	1.979
#3	38.26	41.15	39.37	2.047	1.978	40.99	2.036	2.028	2.010	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.036	2.178	2.100	2.081	2.067	2.156	2.033
Stddev	.004	.004	.002	.003	.004	.003	.002
%RSD	.2227	.1908	.1142	.1415	.2096	.1452	.0963
#1	2.031	2.175	2.103	2.085	2.066	2.159	2.032
#2	2.037	2.183	2.100	2.079	2.063	2.153	2.035
#3	2.040	2.177	2.098	2.080	2.072	2.156	2.032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 12:24:49 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1559.3	3195.6	23367.	9330.7
Stddev	3.7	6.8	55.	71.1
%RSD	.23490	.21179	.23477	.76196
#1	1562.6	3201.7	23304.	9277.9
#2	1560.0	3196.8	23393.	9302.7
#3	1555.4	3188.3	23403.	9411.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:28:55 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0032	.0001	.0003	.0003	.0099	.0003	.0003	.0006	.0009
Stddev	.0002	.0035	.0005	.0000	.0000	.0005	.0001	.0001	.0002	.0002
%RSD	52.22	110.1	634.9	9.542	1.822	4.981	32.05	23.76	34.12	18.19
#1	.0007	.0068	-.0005	.0003	.0003	.0093	.0004	.0003	.0005	.0010
#2	.0004	-.0001	.0005	.0003	.0003	.0101	.0002	.0003	.0008	.0007
#3	.0002	.0028	.0002	.0003	.0003	.0103	.0003	.0004	.0005	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0223	.0139	.0003	.0007	.1575	.0000	.0008	-.0009	.0003
Stddev	.0047	.0254	.0044	.0001	.0003	.0031	.0003	.0004	.0010	.0008
%RSD	57.73	113.8	31.54	19.43	42.10	1.963	647.3	51.71	112.5	239.0
#1	.0132	.0226	.0118	.0004	.0009	.1560	.0003	.0004	-.0020	-.0006
#2	.0075	.0476	.0189	.0003	.0007	.1611	.0000	.0008	-.0008	.0006
#3	.0038	-.0032	.0109	.0003	.0003	.1554	-.0002	.0012	.0000	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.0005	.0004	.0007	.0008	.0003	.0002
Stddev	.0003	.0006	.0000	.0002	.0013	.0001	.0001
%RSD	4.697	110.8	11.26	31.11	152.9	31.64	23.07
#1	.0056	.0011	.0004	.0009	.0008	.0002	.0003
#2	.0052	.0005	.0003	.0008	.0021	.0004	.0002
#3	.0052	-.0001	.0004	.0005	-.0004	.0003	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 12:28:55 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.7	3357.5	24567.	9465.4
Stddev	4.4	5.0	47.	25.0
%RSD	.23474	.14889	.18981	.26454
#1	1879.2	3354.9	24570.	9444.8
#2	1884.0	3363.3	24520.	9493.3
#3	1888.1	3354.4	24613.	9458.3

Zoom In Zoom Out

Sample Name: F95268-1F Acquired: 7/30/2012 12:33:25 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	.0552	.0097	.0807	-.0001	715.5	-.0015	.0016	.0007
Stddev	.0013	.0165	.0012	.0006	.0001	.7	.0001	.0002	.0008
%RSD	223.1	29.97	12.55	.7156	94.91	.0949	6.060	14.43	109.8
#1	.0009	.0463	.0111	.0812	.0000	716.3	-.0015	.0018	.0016
#2	-.0012	.0449	.0092	.0809	.0000	714.9	-.0015	.0014	.0003
#3	-.0015	.0742	.0088	.0801	-.0001	715.3	-.0016	.0017	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0020	-.0102	8.931	F1120.	.3105	.0734	F2914.	.0182	.0031
Stddev	.0006	.0029	.024	4.	.0021	.0001	52.	.0006	.0023
%RSD	28.55	28.46	.2722	.3332	.6785	.1060	1.777	3.279	74.83
#1	.0014	-.0075	8.927	1118.	.3088	.0734	2956.	.0175	.0054
#2	.0026	-.0099	8.909	1124.	.3129	.0735	2930.	.0184	.0030
#3	.0021	-.0133	8.957	1117.	.3098	.0733	2856.	.0186	.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0030	.0018	31.05	-.0065	F16.40	-.0077	.0020	.0603	.0009
Stddev	.0002	.0029	.05	.0013	.11	.0000	.0029	.0009	.0001
%RSD	6.498	156.4	.1454	19.79	.6640	.5779	144.2	1.510	8.556
#1	-.0028	.0039	31.04	-.0050	16.52	-.0077	.0029	.0595	.0009
#2	-.0029	.0030	31.01	-.0073	16.30	-.0078	.0042	.0600	.0008
#3	-.0032	-.0014	31.10	-.0072	16.39	-.0077	-.0012	.0613	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1146.2	2483.6	18204.	8276.1
Stddev	2.0	3.2	67.	43.0
%RSD	.17665	.12988	.37024	.51915
#1	1145.7	2484.2	18265.	8244.8
#2	1148.5	2486.5	18131.	8258.3
#3	1144.5	2480.1	18215.	8325.0

Zoom In Zoom Out

Sample Name: F95268-3F Acquired: 7/30/2012 12:38:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.1098	.0094	.0317	-.0003	791.8	-.0018	.0018	.0023
Stddev	.0020	.0190	.0005	.0005	.0001	2.0	.0002	.0001	.0016
%RSD	183.3	17.27	5.461	1.514	41.93	.2527	8.900	4.953	73.27
#1	.0028	.1015	.0089	.0321	-.0002	793.6	-.0019	.0017	.0042
#2	.0017	.0964	.0094	.0319	-.0003	789.7	-.0018	.0019	.0013
#3	-.0012	.1315	.0099	.0312	-.0004	792.3	-.0016	.0019	.0013

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0044	-.0292	8.950	1205.	.3138	.0786	F3627.	.0172	.0007
Stddev	.0006	.0040	.068	2.	.0003	.0005	24.	.0005	.0034
%RSD	13.43	13.54	.7547	.2004	.1092	.6885	.6630	2.940	457.7
#1	.0040	-.0247	8.898	1206.	.3138	.0791	3634.	.0168	-.0017
#2	.0051	-.0317	9.026	1202.	.3141	.0786	3646.	.0178	-.0007
#3	.0042	-.0314	8.925	1206.	.3135	.0780	3600.	.0171	.0046

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0068	-.0047	32.73	-.0060	F17.86	-.0055	-.0007	.0646	-.0002
Stddev	.0015	.0190	.04	.0045	.16	.0004	.0048	.0005	.0005
%RSD	21.92	401.9	.1155	74.50	.9071	7.388	660.5	.6997	208.8
#1	-.0054	-.0231	32.71	-.0071	18.00	-.0053	.0048	.0641	-.0007
#2	-.0067	.0148	32.77	-.0011	17.89	-.0059	-.0036	.0647	-.0003
#3	-.0083	-.0059	32.70	-.0098	17.68	-.0051	-.0034	.0650	.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1270.7	2683.6	19592.	8626.4
Stddev	1.1	3.2	25.	25.8
%RSD	.08722	.12026	.12721	.29864
#1	1270.1	2683.6	19577.	8598.0
#2	1272.0	2680.4	19578.	8633.2
#3	1270.1	2686.9	19621.	8648.1

Zoom In Zoom Out

Sample Name: F95268-5F Acquired: 7/30/2012 12:43:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0852	.0063	.0189	-.0001	669.6	-.0015	.0055	.0010
Stddev	.0008	.0110	.0017	.0005	.0001	3.2	.0001	.0003	.0002
%RSD	68.33	12.95	27.28	2.678	116.2	.4848	3.771	4.970	15.33
#1	.0020	.0861	.0048	.0191	-.0001	666.3	-.0014	.0056	.0010
#2	.0009	.0958	.0082	.0193	-.0002	669.6	-.0014	.0057	.0012
#3	.0005	.0738	.0059	.0184	.0000	672.8	-.0015	.0052	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0013	-.0195	26.22	975.0	2.718	.0680	F2429.	.0179	.0026
Stddev	.0002	.0007	.06	2.5	.004	.0004	24.	.0008	.0033
%RSD	14.66	3.573	.2387	.2585	.1519	.5803	.9876	4.707	125.2
#1	.0015	-.0189	26.19	976.0	2.719	.0684	2449.	.0181	.0063
#2	.0011	-.0203	26.30	972.1	2.714	.0677	2402.	.0170	.0017
#3	.0012	-.0193	26.19	976.9	2.722	.0679	2435.	.0187	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0032	-.0004	38.09	-.0049	F13.84	-.0071	-.0013	.0363	.0010
Stddev	.0016	.0029	.04	.0007	.13	.0003	.0022	.0005	.0001
%RSD	51.06	667.2	.1180	14.18	.9218	3.558	164.2	1.312	7.564
#1	-.0037	-.0022	38.14	-.0041	13.69	-.0068	.0006	.0367	.0009
#2	-.0044	-.0020	38.05	-.0053	13.90	-.0072	-.0037	.0358	.0009
#3	-.0013	.0029	38.08	-.0052	13.92	-.0072	-.0009	.0364	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1183.6	2534.3	18654.	8327.6
Stddev	2.1	4.1	18.	23.7
%RSD	.17456	.16226	.09815	.28447
#1	1185.9	2529.9	18643.	8304.0
#2	1183.1	2538.0	18675.	8351.4
#3	1181.9	2534.9	18643.	8327.5

Zoom In Zoom Out

Sample Name: F95268-7F Acquired: 7/30/2012 12:50:38 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.0652	.0020	.0247	-.0001	564.8	-.0012	.0058	.0013
Stddev	.0004	.0096	.0035	.0000	.0000	1.2	.0001	.0003	.0001
%RSD	35.07	14.66	177.7	.1370	14.61	.2095	9.156	5.611	11.24
#1	.0014	.0640	.0034	.0247	-.0001	564.6	-.0012	.0056	.0012
#2	.0012	.0562	.0045	.0247	-.0001	563.8	-.0011	.0062	.0014
#3	.0006	.0753	-.0020	.0246	-.0001	566.1	-.0013	.0056	.0014

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0025	-.0192	10.08	814.0	1.499	.0905	F2271.	.0171	.0089
Stddev	.0004	.0037	.08	2.5	.004	.0004	21.	.0002	.0014
%RSD	15.20	19.38	.8316	.3091	.2530	.4311	.9358	1.372	15.43
#1	.0021	-.0149	9.985	811.3	1.496	.0908	2283.	.0174	.0105
#2	.0025	-.0220	10.12	814.7	1.498	.0907	2285.	.0171	.0081
#3	.0029	-.0206	10.14	816.2	1.503	.0901	2247.	.0169	.0080

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0020	.0035	37.75	-.0057	F12.44	-.0055	.0016	.0091	.0043
Stddev	.0034	.0056	.01	.0020	.04	.0001	.0062	.0006	.0000
%RSD	170.2	160.0	.0351	34.25	.3113	1.233	384.4	6.630	1.156
#1	-.0036	.0098	37.74	-.0045	12.40	-.0056	-.0053	.0086	.0044
#2	.0019	.0013	37.76	-.0046	12.44	-.0055	.0066	.0097	.0043
#3	-.0042	-.0006	37.76	-.0080	12.47	-.0054	.0035	.0090	.0043

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1203.7	2574.2	18877.	8376.8
Stddev	4.3	3.9	15.	9.1
%RSD	.36031	.15137	.08191	.10821
#1	1198.9	2570.0	18872.	8380.1
#2	1204.7	2574.9	18865.	8366.6
#3	1207.4	2577.7	18895.	8383.7

Zoom In Zoom Out

Sample Name: F95207-5 Acquired: 7/30/2012 12:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 200.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0725	-.6117	-.1113	-.0073	-.0072	433.0	-.0113	.0102	.0303
Stddev	.0506	.2961	.1653	.0046	.0067	2.8	.0106	.0194	.0228
%RSD	69.86	48.40	148.4	63.51	91.93	.6543	94.45	189.8	75.24
#1	.0357	-.7459	-.0171	-.0123	-.0026	435.8	-.0210	.0283	.0148
#2	.0515	-.2723	-.3022	-.0032	-.0043	433.2	-.0129	.0127	.0196
#3	.1303	-.8169	-.0147	-.0063	-.0149	430.1	.0001	-.0103	.0565

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1123	-2.794	421.5	1282.	-.0055	-.0353	11340.	-.0029	-.0621
Stddev	.0309	.115	2.8	3.	.0034	.0280	5.	.0545	.0360
%RSD	27.47	4.099	.6539	.2483	61.79	79.33	.0455	1864.	58.00
#1	.1005	-2.668	422.5	1285.	-.0017	-.0555	11340.	.0580	-.0345
#2	.1474	-2.891	418.4	1279.	-.0082	-.0033	11350.	-.0470	-.1029
#3	.0891	-2.824	423.6	1284.	-.0067	-.0469	11350.	-.0197	-.0490

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.4065	-.0760	1.542	-.0655	8.164	-.1021	.1885	-.0285	-.0092
Stddev	.1428	.4524	.091	.0221	.036	.0138	.0246	.0195	.0150
%RSD	35.14	595.6	5.882	33.77	.4451	13.53	13.03	68.53	162.6
#1	-.3693	-.4724	1.604	-.0911	8.126	-.0901	.2165	-.0076	-.0248
#2	-.5642	-.1724	1.583	-.0531	8.168	-.0990	.1780	-.0317	-.0079
#3	-.2859	.4169	1.438	-.0524	8.198	-.1172	.1709	-.0462	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1704.4	3208.9	23490.	9221.1
Stddev	3.7	4.4	30.	62.2
%RSD	.21969	.13703	.12949	.67401
#1	1701.8	3207.1	23470.	9165.3
#2	1708.7	3213.9	23475.	9209.8
#3	1702.7	3205.7	23525.	9288.1

Zoom In Zoom Out

Sample Name: MP23318-MB1 Acquired: 7/30/2012 12:59:56 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0013	-.0023	-.0001	.0000	.0180	.0000	-.0001	.0006	-.0003
Stddev	.0003	.0013	.0006	.0001	.000	.0008	.000	.0001	.0001	.0002
%RSD	228.5	99.63	28.27	105.7	218.7	4.288	152.7	47.74	11.23	63.75
#1	.0004	-.0016	-.0025	.0000	.0000	.0188	-.0001	-.0002	.0006	-.0003
#2	.0003	-.0024	-.0016	-.0001	.0000	.0178	.0000	-.0001	.0007	-.0001
#3	-.0002	.0001	-.0028	.0000	.0000	.0173	-.0001	-.0001	.0006	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185	.0077	.0037	.0006	.0003	.2262	.0004	-.0005	-.0008	-.0002
Stddev	.0016	.0088	.0167	.0000	.0001	.0063	.0001	.0002	.0006	.0012
%RSD	8.910	114.8	448.3	3.529	34.35	2.796	20.53	39.35	69.94	511.2
#1	.0166	.0017	.0179	.0006	.0004	.2306	.0003	-.0007	-.0008	.0005
#2	.0195	.0177	-.0146	.0006	.0002	.2291	.0005	-.0003	-.0002	.0004
#3	.0193	.0035	.0078	.0005	.0003	.2190	.0004	-.0005	-.0014	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.0138	.0000	-.0004	-.0006	-.0001	.0014
Stddev	.0005	.0010	.0000	.0002	.0010	.0004	.0000
%RSD	2.260	7.164	90.08	47.85	162.0	591.6	1.881
#1	.0211	.0143	.0000	-.0003	-.0016	.0004	.0014
#2	.0210	.0127	.0001	-.0006	-.0008	-.0003	.0014
#3	.0202	.0145	.0000	-.0003	.0005	-.0002	.0014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23318-MB1 Acquired: 7/30/2012 12:59:56 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1803.2	3197.4	23617.	9049.2
Stddev	5.1	10.7	37.	57.1
%RSD	.28154	.33356	.15784	.63148
#1	1797.9	3185.2	23614.	8983.3
#2	1808.0	3202.0	23581.	9080.2
#3	1803.7	3205.0	23656.	9084.2

Zoom In Zoom Out

Sample Name: MP23318-B1 Acquired: 7/30/2012 13:04:26 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0484	27.59	2.011	2.254	.0545	25.78	.0522	.5226	.2172	.2791
Stddev	.0002	.06	.005	.008	.0002	.17	.0001	.0009	.0018	.0010
%RSD	.4675	.2095	.2632	.3618	.3539	.6579	.2400	.1717	.8287	.3419
#1	.0486	27.54	2.010	2.256	.0544	25.60	.0524	.5231	.2176	.2798
#2	.0482	27.65	2.007	2.262	.0548	25.82	.0522	.5216	.2152	.2794
#3	.0483	27.58	2.017	2.246	.0545	25.93	.0521	.5232	.2188	.2780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.29	26.84	24.72	.5491	.5180	26.78	.5424	.4957	.5100	2.007
Stddev	.12	.09	.28	.0010	.0005	.08	.0004	.0025	.0010	.004
%RSD	.4649	.3471	1.121	.1803	.0955	.3118	.0775	.5037	.1947	.1907
#1	26.15	26.88	24.41	.5501	.5184	26.82	.5428	.4929	.5110	2.009
#2	26.34	26.90	24.83	.5481	.5175	26.84	.5421	.4978	.5090	2.008
#3	26.38	26.73	24.93	.5491	.5183	26.69	.5422	.4962	.5101	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264	.5568	.5441	.5391	2.050	.5553	.5278
Stddev	.0005	.0020	.0011	.0012	.002	.0010	.0013
%RSD	1.743	.3635	.2112	.2242	.0806	.1784	.2528
#1	.0268	.5547	.5439	.5400	2.052	.5558	.5264
#2	.0259	.5588	.5453	.5395	2.049	.5542	.5291
#3	.0266	.5568	.5431	.5377	2.049	.5561	.5279
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23318-B1 Acquired: 7/30/2012 13:04:26 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1576.3	3084.5	22515.	8897.9
Stddev	6.7	14.6	100.	29.3
%RSD	.42484	.47245	.44310	.32903
#1	1568.9	3068.0	22403.	8931.5
#2	1578.1	3090.0	22549.	8878.1
#3	1582.0	3095.6	22594.	8884.0

Zoom In
Zoom Out

Sample Name: F95286-1 Acquired: 7/30/2012 13:08:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	137.2	.0473	.7126	.0063	28.24	-.0003	.0853	.3148	.1955
Stddev	.0001	.4	.0008	.0027	.0001	.12	.0001	.0006	.0002	.0010
%RSD	29.38	.3054	1.685	.3752	1.064	.4243	37.31	.7103	.0645	.5064
#1	.0005	137.2	.0482	.7150	.0062	28.15	-.0002	.0848	.3146	.1965
#2	.0003	136.8	.0467	.7097	.0063	28.19	-.0002	.0853	.3148	.1946
#3	.0004	137.6	.0470	.7130	.0064	28.37	-.0004	.0860	.3150	.1952

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	194.9	10.88	19.15	3.425	.0085	.8367	.2116	.3982	.0028	.0055
Stddev	1.1	.04	.09	.008	.0001	.0026	.0001	.0009	.0010	.0002
%RSD	.5757	.3356	.4882	.2419	1.240	.3073	.0488	.2345	35.00	3.080
#1	194.1	10.86	19.12	3.433	.0084	.8380	.2115	.3983	.0035	.0054
#2	194.5	10.86	19.08	3.416	.0085	.8338	.2117	.3973	.0017	.0057
#3	196.2	10.92	19.26	3.426	.0086	.8384	.2116	.3992	.0031	.0055

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.35	.0275	.1088	2.645	-.0083	.4319	.6139
Stddev	.02	.0011	.0003	.006	.0008	.0017	.0027
%RSD	.1254	4.072	.2571	.2162	9.701	.3868	.4319
#1	18.33	.0286	.1088	2.651	-.0089	.4336	.6117
#2	18.34	.0263	.1086	2.640	-.0074	.4303	.6132
#3	18.37	.0277	.1092	2.644	-.0086	.4318	.6169

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1597.7	3795.2	27660.	10938.
Stddev	4.7	6.4	77.	43.
%RSD	.29110	.16806	.27808	.38939
#1	1592.3	3789.3	27571.	10907.
#2	1600.6	3794.4	27698.	10986.
#3	1600.0	3802.0	27711.	10920.

Zoom In
Zoom Out

Sample Name: MP23318-D1 Acquired: 7/30/2012 13:12:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	122.9	.0526	.6064	.0055	88.34	.0000	.0932	.4399	.2004
Stddev	.0003	.2	.0011	.0027	.0000	.20	.0001	.0004	.0014	.0006
%RSD	52.34	.1435	2.172	.4375	.2971	.2259	455.9	.3813	.3118	.3026
#1	.0007	123.0	.0536	.6071	.0055	88.23	.0000	.0935	.4411	.2011
#2	.0003	122.9	.0527	.6087	.0055	88.22	.0001	.0928	.4402	.2003
#3	.0010	122.7	.0514	.6035	.0055	88.57	-.0001	.0932	.4384	.1999

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	191.3	10.31	77.23	3.752	.0081	.9994	.4566	.3336	.0021	.0044
Stddev	.3	.01	.23	.014	.0000	.0028	.0013	.0020	.0001	.0022
%RSD	.1412	.0522	.3020	.3798	.2437	.2800	.2835	.5940	3.332	49.34
#1	191.3	10.31	77.02	3.753	.0081	.9995	.4553	.3359	.0022	.0053
#2	191.0	10.31	77.19	3.766	.0081	.9966	.4566	.3326	.0020	.0059
#3	191.5	10.30	77.48	3.737	.0081	1.002	.4579	.3324	.0021	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.71	.0246	.1472	2.593	-.0074	.4205	.4048
Stddev	.01	.0003	.0001	.009	.0017	.0013	.0003
%RSD	.0648	1.378	.1013	.3266	22.85	.3001	.0743
#1	20.72	.0244	.1472	2.599	-.0059	.4204	.4046
#2	20.70	.0245	.1474	2.596	-.0092	.4217	.4047
#3	20.70	.0250	.1471	2.583	-.0071	.4192	.4051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1530.2	3606.4	26636.	10566.
Stddev	3.3	8.9	141.	51.
%RSD	.21351	.24737	.53090	.48188
#1	1526.6	3596.3	26573.	10507.
#2	1531.3	3609.7	26537.	10591.
#3	1532.8	3613.2	26798.	10599.

Zoom In
Zoom Out

Sample Name: MP23318-SD1 Acquired: 7/30/2012 13:17:24 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	170.0	.0587	.8851	.0077	35.35	-.0016	.1110	.3978	.2395
Stddev	.0018	.3	.0021	.0037	.0001	.18	.0001	.0018	.0004	.0013
%RSD	278.9	.1815	3.647	.4209	1.117	.4960	3.278	1.579	.0900	.5479
#1	.0015	169.9	.0610	.8878	.0077	35.15	-.0016	.1090	.3974	.2382
#2	-.0014	169.8	.0582	.8809	.0078	35.48	-.0017	.1123	.3980	.2409
#3	.0020	170.3	.0568	.8866	.0077	35.41	-.0016	.1117	.3980	.2394

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	260.6	13.48	23.93	4.417	.0102	.9871	.2734	.4457	-.0053	.0053
Stddev	.6	.11	.15	.016	.0004	.0146	.0012	.0024	.0073	.0069
%RSD	.2400	.7824	.6279	.3518	4.167	1.484	.4255	.5399	138.4	131.5
#1	259.9	13.37	23.80	4.414	.0097	.9702	.2747	.4429	-.0137	.0089
#2	260.6	13.58	23.90	4.434	.0105	.9957	.2731	.4473	-.0010	-.0027
#3	261.2	13.49	24.10	4.404	.0103	.9954	.2724	.4468	-.0011	.0096

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	23.51	.0342	.1331	3.292	-.0080	.5399	.7895
Stddev	.03	.0002	.0010	.006	.0049	.0058	.0010
%RSD	.1109	.6581	.7762	.1716	61.14	1.082	.1246
#1	23.53	.0342	.1325	3.289	-.0093	.5434	.7895
#2	23.48	.0340	.1324	3.299	-.0121	.5432	.7905
#3	23.51	.0344	.1342	3.289	-.0026	.5332	.7885

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1767.8	3486.8	25400.	9710.9
Stddev	3.3	5.1	100.	14.2
%RSD	.18511	.14523	.39457	.14666
#1	1768.7	3481.4	25400.	9726.7
#2	1770.6	3491.5	25300.	9699.1
#3	1764.2	3487.4	25500.	9707.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:21:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499	39.47	2.013	2.078	2.021	40.06	2.018	1.996	2.032	2.078
Stddev	.0005	.08	.001	.005	.001	.02	.001	.004	.006	.004
%RSD	.1962	.1952	.0564	.2203	.0457	.0442	.0594	.1787	.2986	.1950
#1	.2494	39.44	2.012	2.081	2.022	40.04	2.018	1.996	2.038	2.076
#2	.2499	39.41	2.012	2.073	2.020	40.07	2.020	1.999	2.033	2.076
#3	.2503	39.55	2.014	2.080	2.022	40.08	2.017	1.992	2.026	2.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.81	41.58	39.12	2.049	1.993	41.37	2.036	2.019	2.009	1.996
Stddev	.06	.04	.03	.004	.002	.08	.001	.007	.003	.006
%RSD	.1606	.1045	.0665	.2100	.0810	.1875	.0676	.3386	.1381	.3200
#1	37.84	41.53	39.12	2.053	1.995	41.28	2.035	2.018	2.011	1.990
#2	37.74	41.62	39.09	2.049	1.994	41.42	2.036	2.012	2.011	2.002
#3	37.84	41.59	39.14	2.044	1.992	41.42	2.038	2.026	2.006	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	2.155	2.092	2.068	2.052	2.138	2.036
Stddev	.003	.006	.002	.002	.007	.002	.001
%RSD	.1564	.2851	.0750	.1081	.3237	.0774	.0557
#1	2.039	2.148	2.092	2.070	2.045	2.137	2.035
#2	2.041	2.158	2.091	2.069	2.058	2.138	2.036
#3	2.045	2.159	2.094	2.065	2.055	2.140	2.037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 13:21:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1576.0	3202.1	23629.	9235.5
Stddev	3.2	3.0	34.	31.8
%RSD	.20464	.09374	.14550	.34410
#1	1574.4	3199.3	23591.	9219.6
#2	1579.8	3201.8	23658.	9272.1
#3	1574.0	3205.3	23638.	9214.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:25:48 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0016	.0003	.0003	.0004	.0087	.0003	.0003	.0005	.0008
Stddev	.0001	.0057	.0010	.0001	.0000	.0017	.0001	.0001	.0001	.0000
%RSD	51.46	365.2	397.2	31.80	4.959	19.21	20.99	21.28	13.83	3.783
#1	.0004	.0040	.0012	.0004	.0004	.0075	.0004	.0004	.0006	.0008
#2	.0002	-.0050	-.0008	.0003	.0003	.0081	.0004	.0003	.0004	.0008
#3	.0002	.0056	.0003	.0002	.0003	.0106	.0003	.0003	.0006	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102	-.0038	.0227	.0004	.0007	.0706	.0003	-.0005	-.0009	.0005
Stddev	.0043	.0168	.0043	.0001	.0001	.0042	.0001	.0003	.0012	.0004
%RSD	42.32	445.2	19.04	18.03	12.31	5.978	22.18	67.11	140.7	74.15
#1	.0150	-.0115	.0177	.0003	.0008	.0734	.0002	-.0002	-.0012	.0001
#2	.0090	.0155	.0246	.0005	.0007	.0726	.0003	-.0004	.0005	.0007
#3	.0066	-.0153	.0257	.0004	.0007	.0657	.0003	-.0008	-.0020	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	.0006	.0004	.0007	.0008	.0003	.0003
Stddev	.0009	.0003	.0000	.0001	.0006	.0002	.0000
%RSD	12.94	47.43	9.502	9.812	73.40	47.96	8.989
#1	.0064	.0009	.0003	.0007	.0001	.0003	.0003
#2	.0059	.0006	.0004	.0006	.0011	.0005	.0003
#3	.0076	.0003	.0004	.0006	.0012	.0002	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 13:25:48 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.9	3363.8	24715.	9315.2
Stddev	1.5	2.4	26.	59.2
%RSD	.08179	.07144	.10515	.63571
#1	1893.3	3363.5	24716.	9335.1
#2	1894.9	3366.3	24740.	9361.9
#3	1896.4	3361.5	24688.	9248.6

Zoom In Zoom Out

Sample Name: MP23318-PS1 Acquired: 7/30/2012 13:30:17 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0416	137.9	.1321	.9296	.0516	32.42	.0427	.1265	.3543	.2845
Stddev	.0003	.7	.0027	.0045	.0002	.10	.0002	.0001	.0014	.0010
%RSD	.7479	.4741	2.049	.4795	.4719	.3170	.3662	.0538	.3982	.3378
#1	.0413	137.1	.1290	.9245	.0513	32.31	.0428	.1266	.3538	.2854
#2	.0419	138.3	.1335	.9315	.0517	32.45	.0429	.1265	.3533	.2835
#3	.0415	138.3	.1338	.9327	.0517	32.51	.0426	.1265	.3559	.2847

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	194.3	19.69	22.90	3.405	.0924	9.645	.2934	.4396	.0848	.0875
Stddev	2.0	.10	.06	.006	.0005	.055	.0004	.0020	.0017	.0036
%RSD	1.032	.5237	.2483	.1827	.5709	.5663	.1468	.4590	2.055	4.063
#1	192.4	19.58	22.83	3.401	.0917	9.585	.2932	.4400	.0850	.0915
#2	194.2	19.70	22.93	3.401	.0926	9.658	.2939	.4375	.0864	.0847
#3	196.4	19.78	22.93	3.412	.0927	9.692	.2931	.4415	.0829	.0863

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.20	.0657	.1522	2.686	.0888	.4687	.8474
Stddev	.03	.0006	.0006	.002	.0015	.0010	.0020
%RSD	.1900	.9160	.3615	.0868	1.744	.2151	.2341
#1	18.21	.0658	.1515	2.687	.0888	.4698	.8451
#2	18.23	.0663	.1525	2.683	.0872	.4678	.8487
#3	18.16	.0651	.1525	2.687	.0903	.4684	.8483

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1571.9	3746.9	27393.	10786.
Stddev	5.3	14.6	40.	19.
%RSD	.33699	.39024	.14777	.17584
#1	1567.1	3736.8	27346.	10783.
#2	1577.6	3740.2	27416.	10769.
#3	1571.1	3763.6	27416.	10806.

Zoom In Zoom Out

Sample Name: MP23318-S1 Acquired: 7/30/2012 13:34:40 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0416	161.7	1.665	2.529	.0509	53.46	.0419	.5148	.4794	.4288
Stddev	.0002	2.8	.003	.026	.0001	.18	.0002	.0007	.0008	.0017
%RSD	.4298	1.728	.1750	1.013	.1505	.3315	.5037	.1353	.1638	.4000
#1	.0417	160.7	1.663	2.520	.0508	53.37	.0418	.5143	.4787	.4293
#2	.0414	159.6	1.664	2.558	.0510	53.35	.0422	.5145	.4792	.4302
#3	.0418	164.9	1.669	2.510	.0508	53.67	.0419	.5156	.4802	.4269

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	202.8	33.13	39.92	3.934	.3957	22.57	.5673	.8414	.1516	1.626
Stddev	1.1	.10	.21	.004	.0008	.11	.0009	.0021	.0010	.000
%RSD	.5453	.3163	.5188	.0961	.1933	.4861	.1639	.2460	.6407	.0246
#1	202.8	33.13	39.87	3.938	.3964	22.58	.5663	.8401	.1516	1.626
#2	203.9	33.24	39.75	3.930	.3959	22.67	.5681	.8402	.1507	1.625
#3	201.7	33.03	40.15	3.933	.3949	22.45	.5676	.8438	.1526	1.626

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.05	.4312	.5605	3.069	1.901	.8658	.8740
Stddev	.01	.0021	.0018	.004	.011	.0025	.0026
%RSD	.0435	.4841	.3133	.1365	.6011	.2864	.2925
#1	19.04	.4316	.5601	3.072	1.896	.8670	.8714
#2	19.05	.4289	.5624	3.071	1.892	.8630	.8741
#3	19.06	.4330	.5589	3.064	1.914	.8675	.8766

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1524.5	3703.4	27184.	10816.
Stddev	4.2	8.0	51.	47.
%RSD	.27717	.21592	.18873	.42994
#1	1520.3	3694.4	27131.	10773.
#2	1528.7	3706.5	27186.	10866.
#3	1524.4	3709.4	27234.	10810.

Zoom In Zoom Out

Sample Name: MP23318-S2 Acquired: 7/30/2012 13:39:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0409	195.6	1.619	2.603	.0502	61.85	.0406	.5078	.5826
Stddev	.0011	2.1	.005	.016	.0001	.17	.0004	.0010	.0019
%RSD	2.696	1.097	.3387	.5975	.2682	.2800	.8629	.1988	.3208
#1	.0396	198.0	1.619	2.621	.0500	61.68	.0409	.5088	.5807
#2	.0416	195.0	1.614	2.590	.0502	62.03	.0402	.5068	.5827
#3	.0415	193.9	1.625	2.600	.0503	61.82	.0407	.5079	.5845

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.4856	248.1	35.18	45.59	F4.581	.3778	22.20	.6018	1.043
Stddev	.0025	2.3	.06	.20	.008	.0006	.05	.0010	.003
%RSD	.5244	.9119	.1771	.4444	.1662	.1633	.2232	.1725	.2431
#1	.4882	245.9	35.26	45.36	4.590	.3778	22.25	.6023	1.044
#2	.4853	250.4	35.14	45.72	4.576	.3784	22.16	.6024	1.040
#3	.4831	248.0	35.15	45.69	4.578	.3772	22.17	.6006	1.045

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1327	1.563	23.11	.4162	.5833	3.313	1.854	.9578	.9411
Stddev	.0019	.001	.01	.0013	.0011	.003	.003	.0016	.0005
%RSD	1.398	.0684	.0395	.3161	.1803	.0759	.1653	.1695	.0498
#1	.1306	1.562	23.12	.4147	.5845	3.316	1.856	.9568	.9407
#2	.1342	1.563	23.10	.4171	.5826	3.311	1.851	.9570	.9410
#3	.1333	1.564	23.11	.4168	.5827	3.312	1.857	.9597	.9416

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1501.5	3760.7	27612.	10970.
Stddev	4.4	8.8	69.	64.
%RSD	.29576	.23476	.25063	.58670
#1	1498.5	3750.7	27540.	10952.
#2	1499.5	3763.8	27618.	10917.
#3	1506.6	3767.5	27678.	11042.

Zoom In Zoom Out

Sample Name: F95286-2 Acquired: 7/30/2012 13:43:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	94.34	.0374	.5944	.0054	93.35	.0013	.0812	.2028	.2237
Stddev	.0003	.19	.0007	.0016	.0000	.45	.0001	.0001	.0017	.0003
%RSD	25.29	.1979	1.917	.2672	.8279	.4860	7.361	.1145	.8586	.1236
#1	.0008	94.24	.0381	.5962	.0054	93.13	.0013	.0811	.2011	.2236
#2	.0012	94.55	.0367	.5936	.0055	93.87	.0012	.0813	.2029	.2235
#3	.0014	94.22	.0374	.5934	.0055	93.04	.0014	.0811	.2045	.2241

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	139.3	28.55	24.96	3.497	.0063	3.814	.1169	.2772	.0007	.0042
Stddev	.3	.03	.14	.013	.0001	.012	.0003	.0010	.0004	.0022
%RSD	.2124	.1201	.5801	.3608	1.240	.3165	.2560	.3558	50.65	51.88
#1	139.7	28.52	24.92	3.482	.0062	3.822	.1165	.2770	.0011	.0017
#2	139.1	28.59	25.13	3.505	.0064	3.821	.1170	.2764	.0004	.0050
#3	139.2	28.53	24.85	3.503	.0063	3.801	.1171	.2783	.0006	.0058

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.52	.0220	.2426	2.353	-.0060	.2561	.6719
Stddev	.01	.0006	.0002	.004	.0021	.0007	.0015
%RSD	.0544	2.538	.0911	.1663	35.59	.2741	.2271
#1	20.53	.0216	.2426	2.348	-.0067	.2555	.6717
#2	20.51	.0227	.2428	2.356	-.0077	.2569	.6704
#3	20.50	.0219	.2424	2.354	-.0036	.2560	.6735

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1542.5	4119.6	30399.	11957.
Stddev	3.1	7.8	12.	93.
%RSD	.20398	.18856	.04096	.78048
#1	1539.2	4112.4	30407.	11885.
#2	1545.5	4118.5	30385.	11923.
#3	1542.9	4127.8	30406.	12062.

Zoom In Zoom Out

Sample Name: F95286-3 Acquired: 7/30/2012 13:48:22 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	39.89	.0136	.1855	.0010	.8798	-.0006	.0068	.0540	.0169
Stddev	.0002	.09	.0009	.0012	.0000	.0029	.0000	.0000	.0004	.0001
%RSD	72.49	.2172	6.357	.6668	1.520	.3305	1.710	.4644	.7242	.5763
#1	-.0003	39.98	.0146	.1869	.0010	.8794	-.0006	.0068	.0544	.0170
#2	-.0001	39.80	.0130	.1848	.0010	.8771	-.0006	.0068	.0537	.0170
#3	-.0005	39.90	.0132	.1847	.0009	.8828	-.0006	.0068	.0538	.0168

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.37	2.584	2.055	.1813	.0028	.3205	.0145	.0316	-.0010	.0007
Stddev	.07	.004	.011	.0003	.0000	.0077	.0001	.0003	.0003	.0005
%RSD	.1430	.1731	.5174	.1773	.8167	2.390	.5647	.9645	32.27	72.71
#1	49.36	2.586	2.048	.1811	.0028	.3291	.0145	.0313	-.0007	.0001
#2	49.31	2.579	2.067	.1817	.0027	.3144	.0145	.0318	-.0010	.0011
#3	49.45	2.586	2.050	.1812	.0028	.3181	.0144	.0318	-.0013	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.49	.0142	.0164	.7058	-.0033	.1030	.0533
Stddev	.00	.0005	.0000	.0028	.0004	.0003	.0003
%RSD	.0123	3.509	.2075	.3920	11.39	.2433	.5063
#1	19.49	.0136	.0164	.7061	-.0031	.1030	.0533
#2	19.49	.0143	.0164	.7084	-.0030	.1028	.0531
#3	19.49	.0146	.0164	.7029	-.0037	.1033	.0536

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.0	3487.6	25365.	9706.6
Stddev	3.0	7.3	97.	18.7
%RSD	.17358	.20974	.38241	.19268
#1	1727.6	3481.0	25284.	9695.9
#2	1733.2	3486.4	25340.	9728.2
#3	1732.4	3495.5	25473.	9695.7

Zoom In Zoom Out

Sample Name: F95273-1 Acquired: 7/30/2012 13:52:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	203.5	.0205	1.235	.0094	7.011	-.0009	.1421	.2637
Stddev	.0001	3.4	.0008	.001	.0001	.012	.0001	.0003	.0009
%RSD	27.29	1.695	3.966	.0803	.8343	.1645	9.500	.2191	.3424
#1	.0002	206.5	.0207	1.236	.0094	7.023	-.0010	.1418	.2628
#2	.0003	204.3	.0212	1.235	.0095	7.008	-.0009	.1423	.2638
#3	.0003	199.7	.0196	1.234	.0094	7.001	-.0008	.1423	.2646

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1373	205.2	19.97	21.29	F6.692	.0063	.6363	.0882	.1777
Stddev	.0003	.8	.06	.06	.029	.0002	.0031	.0001	.0003
%RSD	.2199	.3697	.2806	.2822	.4330	2.506	.4911	.1177	.1823
#1	.1376	206.0	20.02	21.36	6.679	.0062	.6389	.0883	.1781
#2	.1370	204.4	19.98	21.26	6.725	.0062	.6329	.0881	.1774
#3	.1372	205.2	19.91	21.25	6.671	.0065	.6371	.0881	.1777

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0016	.0019	15.93	.0170	.0741	F7.514	-.0085	.5281	.3808
Stddev	.0020	.0015	.03	.0002	.0002	.014	.0028	.0018	.0006
%RSD	129.9	78.87	.1803	1.461	.2262	.1907	33.47	.3344	.1560
#1	.0038	.0005	15.92	.0173	.0743	7.498	-.0103	.5263	.3803
#2	-.0002	.0017	15.91	.0168	.0740	7.524	-.0052	.5298	.3814
#3	.0011	.0035	15.96	.0169	.0740	7.520	-.0099	.5282	.3806

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1572.7	5055.5	36542.	14465.
Stddev	2.6	9.4	103.	106.
%RSD	.16345	.18559	.28228	.73327
#1	1572.8	5050.2	36487.	14346.
#2	1575.3	5066.3	36477.	14496.
#3	1570.1	5050.0	36660.	14551.

Zoom In Zoom Out

Sample Name: F95273-2 Acquired: 7/30/2012 13:57:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0018	51.68	.0276	1.251	.0131	23.62	-.0002	.0103
Stddev	.0001	.10	.0003	.004	.0001	.14	.0000	.0000
%RSD	6.117	.1899	1.158	.3007	.8326	.5822	6.921	.1078
#1	-.0019	51.64	.0273	1.254	.0130	23.46	-.0002	.0103
#2	-.0019	51.79	.0280	1.247	.0132	23.67	-.0002	.0103
#3	-.0017	51.61	.0276	1.252	.0131	23.72	-.0002	.0103

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0468	.0074	31.92	1.108	6.564	1.380	.0035	.3959
Stddev	.0001	.0001	.13	.012	.055	.002	.0000	.0019
%RSD	.1435	1.547	.4016	1.040	.8417	.1422	1.066	.4767
#1	.0468	.0072	31.77	1.098	6.501	1.378	.0035	.3938
#2	.0468	.0074	31.98	1.106	6.588	1.382	.0035	.3974
#3	.0467	.0074	32.01	1.121	6.604	1.379	.0035	.3965

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0175	.0989	-.0027	-.0043	10.24	.0092	.3350	.0598
Stddev	.0001	.0024	.0002	.0008	.01	.0002	.0008	.0002
%RSD	.4292	2.408	6.860	19.00	.1047	2.485	.2408	.3541
#1	.0174	.0961	-.0028	-.0047	10.24	.0092	.3347	.0597
#2	.0175	.1003	-.0028	-.0048	10.25	.0094	.3359	.0600
#3	.0175	.1002	-.0025	-.0033	10.23	.0089	.3344	.0597

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0183	.0364	.0642
Stddev	.0001	.0001	.0002
%RSD	.8010	.2175	.2538
#1	-.0184	.0363	.0641
#2	-.0182	.0365	.0641
#3	-.0182	.0364	.0644

Zoom In Zoom Out

Sample Name: F95273-2 Acquired: 7/30/2012 13:57:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1592.8	8729.2	64212.	24765.
Stddev	3.6	18.3	140.	55.
%RSD	.22859	.20955	.21801	.22089
#1	1596.7	8717.9	64092.	24815.
#2	1592.1	8719.5	64179.	24707.
#3	1589.6	8750.3	64366.	24774.

Zoom In Zoom Out

Sample Name: F95273-3 Acquired: 7/30/2012 14:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0006	76.51	.0288	1.698	.0103	3.748	.0034	.0654
Stddev	.0000	.92	.0003	.019	.0001	.031	.0000	.0001
%RSD	6.181	1.204	.9070	1.093	.7318	.8228	1.390	.1295
#1	.0005	76.27	.0292	1.679	.0103	3.722	.0034	.0654
#2	.0006	75.73	.0287	1.716	.0102	3.740	.0034	.0653
#3	.0005	77.52	.0287	1.701	.0104	3.782	.0033	.0655

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1214	.0664	87.78	8.570	7.382	F6.765	.0009	.1507
Stddev	.0005	.0000	.74	.006	.073	.015	.0000	.0005
%RSD	.3891	.0561	.8422	.0674	.9893	.2227	2.414	.3092
#1	.1212	.0664	87.27	8.566	7.323	6.780	.0009	.1502
#2	.1219	.0664	87.45	8.577	7.360	6.765	.0009	.1511
#3	.1210	.0664	88.63	8.568	7.464	6.750	.0009	.1507

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0455	.5320	-.0006	.0010	4.177	.0068	.0383	2.762
Stddev	.0001	.0014	.0002	.0009	.005	.0002	.0001	.002
%RSD	.2298	.2565	39.61	87.24	.1168	3.331	.2815	.0870
#1	.0456	.5324	-.0008	.0000	4.176	.0065	.0384	2.763
#2	.0456	.5332	-.0004	.0015	4.172	.0068	.0382	2.759
#3	.0454	.5305	-.0005	.0017	4.182	.0069	.0383	2.763

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0298	.2256	2.002
Stddev	.0008	.0001	.002
%RSD	2.676	.0398	.0915
#1	-.0307	.2256	2.003
#2	-.0291	.2257	2.003
#3	-.0297	.2255	2.000

Zoom In Zoom Out

Sample Name: F95273-3 Acquired: 7/30/2012 14:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1529.6	16745.	123820.	49155.
Stddev	3.6	35.	149.	220.
%RSD	.23370	.20958	.11994	.44726
#1	1526.5	16707.	123660.	49097.
#2	1528.7	16776.	123950.	49398.
#3	1533.5	16752.	123850.	48970.

Zoom In Zoom Out

Sample Name: F95273-4 Acquired: 7/30/2012 14:06:55 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	126.9	.0070	.6419	.0167	41.68	-.0006	.0420	.1733	.0497
Stddev	.0001	.1	.0004	.0021	.0001	.09	.0002	.0002	.0007	.0005
%RSD	9.745	.0730	5.694	.3253	.5334	.2240	32.14	.3923	.3792	.9497
#1	-.0011	126.8	.0070	.6417	.0167	41.57	-.0004	.0420	.1726	.0492
#2	-.0012	127.0	.0074	.6441	.0167	41.75	-.0007	.0418	.1739	.0501
#3	-.0010	126.9	.0066	.6399	.0166	41.71	-.0008	.0421	.1734	.0499

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	208.8	10.51	17.37	.8778	.0066	.8021	.0551	.0696	-.0004	.0005
Stddev	1.5	.04	.08	.0023	.0001	.0085	.0003	.0008	.0007	.0041
%RSD	.6951	.3683	.4717	.2671	.9581	1.061	.5694	1.100	198.9	850.1
#1	207.8	10.50	17.29	.8767	.0066	.8008	.0554	.0693	-.0010	.0048
#2	208.2	10.56	17.37	.8805	.0066	.8112	.0547	.0691	.0004	-.0035
#3	210.5	10.48	17.45	.8761	.0067	.7944	.0551	.0705	-.0005	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	29.62	.0232	.5762	1.046	-.0075	.3089	.1840
Stddev	.03	.0003	.0019	.002	.0017	.0004	.0003
%RSD	.1096	1.244	.3281	.2281	22.78	.1405	.1394
#1	29.62	.0229	.5759	1.045	-.0095	.3090	.1837
#2	29.58	.0235	.5782	1.048	-.0068	.3092	.1840
#3	29.65	.0233	.5745	1.044	-.0063	.3084	.1842

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1605.6	3848.1	28547.	11141.
Stddev	2.2	8.7	66.	20.
%RSD	.13854	.22583	.22977	.18368
#1	1603.0	3840.8	28552.	11120.
#2	1606.9	3857.7	28479.	11161.
#3	1606.8	3845.9	28610.	11143.

Zoom In Zoom Out

Sample Name: F95273-5 Acquired: 7/30/2012 14:11:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0007	394.1	.0356	1.589	.0185	5.348	.0041	.1684
Stddev	.0005	1.3	.0003	.008	.0000	.015	.0002	.0006
%RSD	65.52	.3326	.9196	.4780	.2080	.2820	3.863	.3767
#1	.0004	394.5	.0356	1.581	.0185	5.333	.0040	.1676
#2	.0005	395.2	.0359	1.597	.0186	5.349	.0042	.1687
#3	.0012	392.7	.0353	1.590	.0185	5.363	.0042	.1688

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.4824	.2804	F414.9	37.42	42.98	F8.838	.0101	.9186
Stddev	.0019	.0008	.5	.05	.08	.027	.0002	.0039
%RSD	.3953	.2885	.1138	.1464	.1852	.3042	1.518	.4194
#1	.4830	.2801	415.4	37.36	42.89	8.815	.0100	.9151
#2	.4803	.2798	414.9	37.42	43.04	8.867	.0103	.9181
#3	.4840	.2813	414.5	37.47	43.00	8.831	.0101	.9227

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1639	.2516	.0043	-.0004	18.36	.0271	.1086	F14.07
Stddev	.0004	.0011	.0013	.0025	.03	.0003	.0002	.01
%RSD	.2715	.4296	30.68	597.2	.1365	1.226	.2058	.0729
#1	.1638	.2518	.0053	.0024	18.34	.0268	.1084	14.07
#2	.1644	.2525	.0048	-.0011	18.39	.0274	.1088	14.08
#3	.1636	.2504	.0028	-.0025	18.35	.0271	.1086	14.06

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0119	1.134	.7895
Stddev	.0005	.001	.0008
%RSD	4.203	.1134	.0994
#1	-.0124	1.132	.7886
#2	-.0116	1.135	.7897
#3	-.0115	1.134	.7901

Zoom In Zoom Out

Sample Name: F95273-5 Acquired: 7/30/2012 14:11:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1527.2	4341.6	31570.	12724.
Stddev	3.4	6.7	54.	76.
%RSD	.22524	.15367	.17148	.60044
#1	1523.9	4338.4	31512.	12699.
#2	1526.9	4337.0	31579.	12664.
#3	1530.8	4349.2	31619.	12810.

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:16:06 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2528	39.86	2.038	2.111	2.025	40.03	2.032	2.016	2.049	2.099
Stddev	.0009	.03	.001	.005	.006	.22	.002	.001	.005	.005
%RSD	.3582	.0709	.0481	.2271	.2913	.5618	.0830	.0689	.2370	.2321
#1	.2526	39.83	2.037	2.106	2.023	40.04	2.033	2.017	2.044	2.093
#2	.2519	39.88	2.039	2.113	2.021	39.80	2.034	2.016	2.049	2.101
#3	.2537	39.87	2.037	2.115	2.032	40.25	2.031	2.014	2.053	2.102
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.88	42.00	39.04	2.065	2.013	41.91	2.052	2.028	2.030	2.020
Stddev	.16	.09	.30	.005	.002	.02	.003	.007	.002	.008
%RSD	.4291	.2120	.7708	.2657	.1148	.0592	.1309	.3557	.0910	.3809
#1	37.81	41.97	39.08	2.059	2.013	41.89	2.053	2.030	2.030	2.026
#2	37.77	41.94	38.73	2.068	2.015	41.94	2.054	2.019	2.032	2.022
#3	38.07	42.10	39.32	2.068	2.011	41.91	2.049	2.033	2.029	2.011
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.161	2.119	2.089	2.076	2.155	2.042
Stddev	.002	.003	.003	.004	.006	.003	.003
%RSD	.1070	.1250	.1311	.2078	.2945	.1290	.1494
#1	2.089	2.161	2.116	2.084	2.082	2.152	2.045
#2	2.090	2.163	2.118	2.091	2.070	2.157	2.042
#3	2.085	2.158	2.122	2.091	2.077	2.156	2.039
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 14:16:06 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1578.7	3202.1	23741.	9314.1
Stddev	4.1	4.0	59.	62.1
%RSD	.25758	.12486	.24724	.66620
#1	1581.2	3202.5	23809.	9306.5
#2	1580.8	3198.0	23714.	9379.7
#3	1574.0	3206.0	23701.	9256.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0016	-.0005	.0000	.0000	.0003	.0000	.0000	.0003	.0004
Stddev	.0003	.0025	.0005	.0001	.0000	.0007	.000	.0001	.0003	.0001
%RSD	60.40	156.5	97.16	194.7	151.6	246.4	8076.	318.3	115.5	29.97
#1	.0006	-.0015	-.0009	.0000	.0000	-.0005	-.0001	.0001	.0006	.0004
#2	.0001	-.0042	-.0005	.0000	.0000	.0009	.0000	.0002	.0002	.0003
#3	.0006	.0008	.0000	.0001	.0000	.0005	.0000	-.0001	.0000	.0005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0057	.0049	.0001	.0003	.0163	-.0002	-.0001	-.0011	-.0004
Stddev	.0038	.0279	.0087	.0000	.0001	.0081	.0002	.0003	.0004	.0011
%RSD	110.1	488.7	178.6	21.14	52.90	49.83	125.4	486.4	35.69	309.9
#1	.0071	.0078	-.0033	.0001	.0004	.0255	.0001	-.0001	-.0009	.0004
#2	.0037	.0325	.0039	.0001	.0002	.0099	-.0004	-.0004	-.0008	-.0016
#3	-.0005	-.0232	.0140	.0001	.0002	.0136	-.0002	.0003	-.0015	.0002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0006	.0000	.0006	.0002	-.0002	.0000
Stddev	.0003	.0005	.0000	.0001	.0011	.0001	.000
%RSD	3.422	80.83	357.2	14.54	712.4	32.35	557.6
#1	.0094	.0006	.0000	.0006	.0006	-.0002	-.0001
#2	.0098	.0001	.0000	.0006	.0010	-.0002	-.0002
#3	.0101	.0010	.0000	.0005	-.0011	-.0001	.0002
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 14:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1906.8	3366.1	24859.	9358.5
Stddev	3.1	1.1	18.	7.5
%RSD	.16354	.03412	.07273	.08025
#1	1908.6	3364.9	24879.	9366.9
#2	1908.7	3367.1	24854.	9352.3
#3	1903.2	3366.3	24843.	9356.3

Zoom In Zoom Out

Sample Name: F95273-6 Acquired: 7/30/2012 14:24:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	70.24	.0043	.3097	.0024	2.129	-.0012	.0418	.1066	.0300
Stddev	.0004	.17	.0008	.0009	.0001	.019	.0002	.0002	.0002	.0001
%RSD	82.70	.2442	19.58	.2911	2.198	.8861	15.66	.4963	.1493	.2822
#1	.0006	70.04	.0048	.3087	.0024	2.116	-.0012	.0415	.1066	.0300
#2	.0000	70.34	.0048	.3105	.0023	2.121	-.0010	.0419	.1064	.0300
#3	.0008	70.34	.0033	.3098	.0024	2.151	-.0014	.0419	.1067	.0301

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	105.0	7.824	8.153	2.099	.0035	.4827	.0320	.0239	-.0010	.0012
Stddev	.5	.016	.041	.005	.0002	.0011	.0003	.0016	.0007	.0016
%RSD	.4319	.2080	.4995	.2336	4.462	.2305	1.088	6.866	76.09	135.3
#1	104.6	7.841	8.117	2.105	.0036	.4827	.0318	.0249	-.0018	.0011
#2	104.9	7.824	8.144	2.098	.0036	.4816	.0318	.0247	-.0004	.0027
#3	105.5	7.808	8.197	2.095	.0033	.4839	.0324	.0220	-.0007	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.30	.0156	.0203	3.737	-.0047	.1833	.1372
Stddev	.03	.0003	.0002	.008	.0007	.0010	.0006
%RSD	.1719	2.204	.9093	.2248	15.77	.5572	.4095
#1	19.34	.0160	.0201	3.747	-.0051	.1829	.1368
#2	19.29	.0154	.0204	3.732	-.0038	.1844	.1370
#3	19.28	.0155	.0204	3.733	-.0052	.1825	.1378

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1673.1	3715.5	27318.	10602.
Stddev	5.9	16.8	99.	57.
%RSD	.35465	.45211	.36119	.53446
#1	1666.5	3696.3	27222.	10634.
#2	1675.1	3722.8	27313.	10637.
#3	1677.8	3727.4	27419.	10537.

Zoom In Zoom Out

Sample Name: F95273-7 Acquired: 7/30/2012 14:28:57 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0003	97.59	.0685	1.755	.0069	11.14	.0033	.0884
Stddev	.0002	.19	.0011	.016	.0000	.02	.0002	.0004
%RSD	60.67	.1997	1.666	.9015	.3064	.1587	7.242	.4716
#1	.0002	97.81	.0679	1.767	.0069	11.15	.0032	.0886
#2	.0005	97.55	.0677	1.762	.0069	11.15	.0031	.0888
#3	.0001	97.42	.0698	1.737	.0069	11.12	.0036	.0880

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2308	.2665	237.7	12.79	11.25	F5.577	.0114	.4632
Stddev	.0010	.0007	1.2	.05	.06	.033	.0000	.0029
%RSD	.4392	.2535	.5234	.3869	.5390	.5833	.1524	.6198
#1	.2299	.2671	238.8	12.85	11.30	5.541	.0114	.4637
#2	.2319	.2665	237.9	12.76	11.28	5.586	.0114	.4601
#3	.2308	.2658	236.3	12.77	11.18	5.604	.0114	.4658

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1260	.4809	.0019	.0012	13.67	1.319	.0830	F4.482
Stddev	.0002	.0001	.0011	.0017	.01	.003	.0002	.017
%RSD	.1414	.0131	57.74	144.1	.0515	.1963	.1981	.3824
#1	.1258	.4808	.0021	.0026	13.66	1.317	.0832	4.469
#2	.1260	.4810	.0007	.0015	13.68	1.322	.0831	4.474
#3	.1261	.4809	.0029	-.0007	13.67	1.317	.0829	4.501

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0113	.2707	F6.875
Stddev	.0009	.0005	.012
%RSD	7.961	.1997	.1693
#1	-.0119	.2709	6.884
#2	-.0118	.2711	6.879
#3	-.0103	.2701	6.862

Zoom In Zoom Out

Sample Name: F95273-7 Acquired: 7/30/2012 14:28:57 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1618.2	5254.7	39441.	15415.
Stddev	1.9	4.4	13.	74.
%RSD	.11863	.08402	.03212	.48048
#1	1618.5	5249.9	39427.	15348.
#2	1619.9	5255.7	39450.	15404.
#3	1616.1	5258.6	39447.	15495.

Zoom In Zoom Out

Sample Name: F95273-8 Acquired: 7/30/2012 14:33:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0053	76.72	.1354	3.398	.0039	68.43	.2084	.1435
Stddev	.0001	.25	.0009	.017	.0000	.24	.0009	.0004
%RSD	1.036	.3255	.6755	.5031	1.239	.3444	.4372	.3116
#1	.0054	76.48	.1345	3.384	.0039	68.42	.2090	.1438
#2	.0053	76.72	.1363	3.417	.0039	68.21	.2087	.1430
#3	.0052	76.98	.1354	3.393	.0040	68.68	.2073	.1436

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.7690	1.330	F1106.	16.20	16.96	F18.92	.3159	2.066
Stddev	.0031	.001	4.	.09	.07	.04	.0004	.011
%RSD	.4006	.0652	.3367	.5607	.4394	.2283	.1138	.5141
#1	.7660	1.329	1107.	16.13	16.89	18.90	.3162	2.060
#2	.7687	1.331	1102.	16.30	16.94	18.97	.3155	2.078
#3	.7722	1.329	1109.	16.16	17.04	18.90	.3160	2.059

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.7288	2.786	.0373	F-.0345	19.44	F5.871	.3804	3.048
Stddev	.0013	.009	.0017	.0026	.03	.004	.0005	.009
%RSD	.1834	.3181	4.672	7.607	.1786	.0726	.1370	.2929
#1	.7282	2.780	.0354	-.0369	19.47	5.874	.3799	3.037
#2	.7279	2.796	.0375	-.0317	19.40	5.866	.3810	3.052
#3	.7304	2.781	.0389	-.0350	19.43	5.873	.3804	3.054

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0429	.1801	F7.586
Stddev	.0009	.0003	.013
%RSD	2.017	.1922	.1747
#1	-.0434	.1797	7.589
#2	-.0434	.1803	7.571
#3	-.0419	.1802	7.597

Zoom In Zoom Out

Sample Name: F95273-8 Acquired: 7/30/2012 14:33:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1609.9	3636.9	29652.	12086.
Stddev	3.8	11.1	10.	52.
%RSD	.23425	.30575	.03423	.42872
#1	1608.6	3624.0	29663.	12037.
#2	1606.9	3642.6	29642.	12140.
#3	1614.1	3644.0	29650.	12082.

Zoom In Zoom Out

Sample Name: F95273-9 Acquired: 7/30/2012 14:38:21 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	63.07	.0065	.2913	.0035	1.975	-.0010	.0244	.0948	.0369
Stddev	.0001	.06	.0004	.0009	.0000	.011	.0000	.0001	.0005	.0004
%RSD	126.8	.0935	5.996	.3000	.9442	.5613	1.590	.4446	.5472	.9600
#1	.0003	63.13	.0068	.2918	.0035	1.962	-.0010	.0244	.0953	.0367
#2	.0001	63.08	.0060	.2917	.0034	1.981	-.0010	.0243	.0947	.0373
#3	.0000	63.01	.0066	.2902	.0035	1.982	-.0009	.0245	.0943	.0367

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.54	7.015	7.464	.6754	.0046	.5372	.0313	.0258	-.0006	.0003
Stddev	.19	.015	.063	.0010	.0000	.0070	.0001	.0004	.0015	.0004
%RSD	.2135	.2145	.8488	.1439	.7163	1.302	.2756	1.359	252.3	163.1
#1	88.41	7.031	7.426	.6762	.0045	.5402	.0313	.0257	-.0016	.0001
#2	88.76	7.014	7.537	.6757	.0046	.5292	.0314	.0261	-.0012	-.0001
#3	88.45	7.001	7.429	.6743	.0046	.5421	.0313	.0254	.0011	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.03	.0149	.0168	3.490	-.0046	.1988	.1210
Stddev	.02	.0017	.0000	.006	.0013	.0008	.0002
%RSD	.0999	11.49	.0726	.1798	28.42	.4186	.1251
#1	16.04	.0168	.0168	3.495	-.0037	.1985	.1212
#2	16.02	.0134	.0168	3.492	-.0061	.1982	.1209
#3	16.05	.0147	.0168	3.483	-.0040	.1998	.1209

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1678.2	3809.3	28133.	10791.
Stddev	6.4	14.2	100.	39.
%RSD	.37889	.37369	.35481	.36050
#1	1671.9	3792.8	28028.	10782.
#2	1678.2	3816.9	28144.	10758.
#3	1684.6	3818.0	28227.	10834.

Zoom In Zoom Out

Sample Name: F95273-10 Acquired: 7/30/2012 14:42:39 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	66.66	.0049	.2931	.0025	1.906	-.0009	.0335	.0901	.0257
Stddev	.0001	.05	.0007	.0010	.0000	.008	.0001	.0001	.0005	.0003
%RSD	30.38	.0704	13.48	.3245	.0589	.4335	8.346	.1722	.6079	1.321
#1	.0003	66.62	.0043	.2938	.0025	1.899	-.0009	.0334	.0902	.0261
#2	.0005	66.71	.0056	.2935	.0025	1.906	-.0009	.0335	.0906	.0257
#3	.0004	66.66	.0048	.2921	.0025	1.915	-.0010	.0335	.0895	.0254

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	93.45	6.065	6.343	1.723	.0049	.5741	.0287	.0230	-.0007	.0001
Stddev	.11	.049	.004	.004	.0002	.0083	.0003	.0010	.0002	.0005
%RSD	.1217	.8037	.0649	.2013	3.963	1.439	1.028	4.536	29.35	406.6
#1	93.34	6.098	6.347	1.727	.0052	.5742	.0284	.0241	-.0006	.0003
#2	93.44	6.088	6.343	1.723	.0048	.5822	.0289	.0221	-.0006	-.0005
#3	93.57	6.009	6.339	1.720	.0048	.5657	.0289	.0226	-.0009	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.16	.0158	.0175	3.342	-.0035	.1687	.1144
Stddev	.02	.0002	.0001	.007	.0007	.0006	.0003
%RSD	.1090	1.389	.7788	.2184	19.02	.3801	.2517
#1	15.17	.0160	.0177	3.350	-.0043	.1690	.1143
#2	15.15	.0156	.0175	3.339	-.0031	.1680	.1147
#3	15.14	.0157	.0174	3.337	-.0031	.1691	.1142

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1694.5	3697.6	27282.	10516.
Stddev	5.4	12.4	86.	38.
%RSD	.31942	.33489	.31398	.36130
#1	1689.1	3684.8	27186.	10473.
#2	1699.9	3698.3	27306.	10539.
#3	1694.7	3709.6	27352.	10537.

Zoom In Zoom Out

Sample Name: F95273-11 Acquired: 7/30/2012 14:46:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	77.32	.0124	.4375	.0049	2.614	-.0009	.0372	.1178
Stddev	.0001	.15	.0002	.0031	.0000	.017	.0001	.0002	.0012
%RSD	47.10	.1991	1.918	.7113	.0724	.6659	11.65	.4542	1.028
#1	-.0002	77.28	.0123	.4396	.0049	2.595	-.0009	.0372	.1181
#2	-.0002	77.49	.0127	.4389	.0049	2.616	-.0008	.0374	.1189
#3	-.0001	77.19	.0124	.4339	.0049	2.630	-.0010	.0371	.1165

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0468	127.8	8.823	9.138	1.573	.0037	.5353	.0363	.0351
Stddev	.0005	.4	.026	.050	.004	.0001	.0023	.0004	.0003
%RSD	1.147	.2977	.2972	.5475	.2707	1.504	.4262	.9779	.9394
#1	.0467	127.4	8.836	9.085	1.577	.0037	.5379	.0365	.0352
#2	.0463	128.0	8.840	9.142	1.574	.0037	.5342	.0359	.0347
#3	.0473	128.1	8.793	9.185	1.569	.0036	.5338	.0365	.0353

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	-.0001	16.53	.0139	.0364	F4.220	-.0063	.2455	.1599
Stddev	.0006	.0004	.03	.0006	.0001	.001	.0007	.0012	.0006
%RSD	96.16	420.4	.1991	4.470	.3231	.0311	11.13	.4917	.3970
#1	-.0013	.0000	16.52	.0146	.0365	4.220	-.0057	.2451	.1606
#2	-.0002	.0003	16.57	.0137	.0364	4.221	-.0061	.2468	.1596
#3	-.0004	-.0006	16.51	.0134	.0363	4.219	-.0071	.2445	.1594

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1661.7	4188.4	31152.	12049.
Stddev	4.5	9.6	69.	10.
%RSD	.27198	.22985	.22225	.08354
#1	1656.8	4180.6	31096.	12052.
#2	1662.6	4185.3	31131.	12038.
#3	1665.7	4199.2	31229.	12058.

Zoom In Zoom Out

Sample Name: F95273-12 Acquired: 7/30/2012 14:51:12 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	68.37	.0074	.3884	.0028	2.131	-.0009	.0407	.1236
Stddev	.0001	.15	.0007	.0002	.0000	.015	.0002	.0001	.0007
%RSD	38.08	.2225	9.556	.0470	.6755	.6784	18.12	.2077	.5807
#1	.0003	68.20	.0074	.3882	.0028	2.115	-.0008	.0407	.1236
#2	.0002	68.49	.0081	.3884	.0027	2.137	-.0009	.0407	.1244
#3	.0005	68.41	.0067	.3886	.0028	2.141	-.0011	.0406	.1230

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0289	121.0	7.908	7.981	2.329	.0029	.5101	.0299	.0267
Stddev	.0001	.8	.043	.092	.004	.0001	.0050	.0003	.0005
%RSD	.3325	.6999	.5411	1.151	.1872	2.725	.9831	.8631	1.850
#1	.0290	120.0	7.957	7.878	2.334	.0029	.5064	.0301	.0263
#2	.0289	121.4	7.886	8.055	2.329	.0028	.5081	.0300	.0266
#3	.0289	121.6	7.880	8.009	2.325	.0029	.5158	.0296	.0272

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	.0016	17.03	.0164	.0203	F4.039	-.0049	.2010	.1365
Stddev	.0008	.0022	.04	.0004	.0000	.008	.0011	.0007	.0007
%RSD	133.0	137.7	.2076	2.213	.0990	.2001	23.36	.3578	.4816
#1	-.0007	-.0009	17.05	.0162	.0203	4.045	-.0046	.2013	.1361
#2	.0002	.0030	17.05	.0168	.0203	4.041	-.0062	.2014	.1361
#3	-.0013	.0028	16.99	.0162	.0203	4.030	-.0040	.2001	.1372

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1680.2	3775.8	28114.	10909.
Stddev	2.8	15.7	93.	55.
%RSD	.16634	.41459	.33161	.50752
#1	1678.5	3765.5	28023.	10973.
#2	1678.6	3768.0	28109.	10882.
#3	1683.4	3793.8	28209.	10872.

Zoom In Zoom Out

Sample Name: F95273-13 Acquired: 7/30/2012 14:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0015	315.1	.0268	2.632	.0158	7.304	.0043	.2104
Stddev	.0001	1.5	.0014	.035	.0000	.025	.0002	.0000
%RSD	8.748	.4636	5.176	1.309	.2930	.3381	5.164	.0018
#1	.0014	315.5	.0259	2.662	.0159	7.296	.0041	.2104
#2	.0016	313.5	.0261	2.639	.0158	7.285	.0046	.2104
#3	.0016	316.4	.0284	2.594	.0158	7.332	.0043	.2104

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.3812	.2304	291.4	29.16	26.70	F11.16	.0036	.8099
Stddev	.0005	.0003	1.3	.10	.06	.06	.0000	.0053
%RSD	.1231	.1506	.4624	.3518	.2231	.4951	1.114	.6577
#1	.3812	.2305	292.6	29.21	26.70	11.19	.0036	.8157
#2	.3807	.2300	290.0	29.04	26.64	11.20	.0036	.8051
#3	.3816	.2306	291.6	29.23	26.76	11.10	.0037	.8090

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1331	.3605	.0016	.0035	14.73	.0212	.1007	F9.229
Stddev	.0004	.0030	.0014	.0022	.01	.0003	.0001	.014
%RSD	.3005	.8333	85.46	61.46	.0948	1.369	.1249	.1559
#1	.1334	.3597	.0021	.0056	14.74	.0209	.1008	9.214
#2	.1327	.3580	.0001	.0013	14.72	.0211	.1005	9.229
#3	.1333	.3639	.0027	.0037	14.73	.0215	.1007	9.242

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0129	.8220	.5716
Stddev	.0007	.0009	.0019
%RSD	5.103	.1036	.3353
#1	-.0134	.8227	.5706
#2	-.0121	.8222	.5704
#3	-.0131	.8211	.5738

Zoom In Zoom Out

Sample Name: F95273-13 Acquired: 7/30/2012 14:55:28 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1510.3	6030.5	44701.	18032.
Stddev	1.9	11.8	66.	85.
%RSD	.12552	.19636	.14735	.46924
#1	1512.3	6016.9	44626.	17946.
#2	1510.1	6036.1	44749.	18116.
#3	1508.5	6038.6	44728.	18034.

Zoom In Zoom Out

Sample Name: F95273-14 Acquired: 7/30/2012 15:00:22 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	79.16	.0127	.3557	.0046	2.090	-.0008	.0325	.1040	.0428
Stddev	.0003	.01	.0004	.0019	.0000	.010	.0001	.0000	.0003	.0002
%RSD	96.62	.0143	3.158	.5238	1.052	.4856	12.50	.0682	.2648	.5785
#1	.0000	79.15	.0125	.3565	.0046	2.102	-.0009	.0326	.1037	.0426
#2	.0007	79.17	.0125	.3571	.0046	2.085	-.0007	.0325	.1041	.0431
#3	.0003	79.16	.0132	.3536	.0045	2.084	-.0009	.0325	.1042	.0428

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	117.2	6.825	7.086	1.665	.0062	.6746	.0316	.0272	-.0012	.0000
Stddev	.2	.043	.043	.002	.0000	.0045	.0001	.0000	.0001	.001
%RSD	.1916	.6349	.6065	.1344	.6861	.6661	.1995	.1424	9.017	5565.
#1	117.4	6.803	7.133	1.664	.0062	.6695	.0316	.0271	-.0013	.0015
#2	117.0	6.875	7.074	1.667	.0063	.6764	.0317	.0272	-.0011	-.0007
#3	117.2	6.798	7.050	1.663	.0062	.6779	.0316	.0272	-.0012	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.56	.0155	.0179	3.527	-.0035	.2029	.1280
Stddev	.02	.0006	.0000	.007	.0003	.0008	.0006
%RSD	.0869	4.100	.2036	.2107	7.586	.3793	.4521
#1	17.58	.0161	.0179	3.526	-.0032	.2025	.1275
#2	17.57	.0154	.0180	3.536	-.0035	.2038	.1279
#3	17.55	.0149	.0179	3.521	-.0037	.2025	.1286

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1663.8	3975.3	29412.	11394.
Stddev	2.9	12.9	113.	75.
%RSD	.17639	.32347	.38258	.65970
#1	1660.6	3962.2	29319.	11307.
#2	1666.5	3975.9	29379.	11433.
#3	1664.2	3987.9	29537.	11441.

Zoom In Zoom Out

Sample Name: MP23325-MB1 Acquired: 7/30/2012 15:04:39 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0047	-.0020	-.0002	-.0001	.0027	-.0001	.0000	.0003	-.0003
Stddev	.0004	.0014	.0008	.0001	.0000	.0011	.0001	.0001	.0001	.0001
%RSD	176.9	30.57	42.72	42.53	46.05	41.64	64.61	6712.	18.68	43.74
#1	-.0002	-.0062	-.0028	-.0001	-.0001	.0014	-.0001	.0000	.0004	-.0002
#2	.0002	-.0035	-.0020	-.0002	-.0001	.0033	.0000	.0000	.0003	-.0002
#3	.0007	-.0042	-.0011	-.0001	.0000	.0033	-.0001	-.0001	.0002	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0014	-.0069	.0001	-.0002	.0022	.0000	.0000	-.0010	-.0004
Stddev	.0031	.0154	.0093	.0000	.0001	.0025	.0001	.0005	.0004	.0007
%RSD	497.6	1079.	134.6	29.80	74.54	110.5	602.3	1263.	39.79	175.3
#1	.0042	.0105	.0038	.0000	-.0002	-.0003	.0001	.0002	-.0006	.0003
#2	-.0006	.0039	-.0130	.0001	-.0003	.0024	-.0001	-.0006	-.0014	-.0010
#3	-.0017	-.0188	-.0114	.0001	-.0001	.0046	.0001	.0005	-.0011	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161	-.0019	-.0001	.0006	-.0006	.0000	.0003
Stddev	.0007	.0002	.0000	.0001	.0008	.0001	.0000
%RSD	4.353	9.083	49.32	22.41	126.9	161.6	5.712
#1	.0169	-.0019	-.0001	.0008	-.0006	.0000	.0003
#2	.0158	-.0020	-.0001	.0005	-.0015	.0000	.0004
#3	.0156	-.0017	.0000	.0005	.0002	.0001	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23325-MB1 Acquired: 7/30/2012 15:04:39 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.4	3332.1	24983.	9565.1
Stddev	3.1	.2	75.	45.8
%RSD	.16531	.00526	.30120	.47845
#1	1891.6	3331.9	25057.	9523.6
#2	1893.9	3332.1	24907.	9614.2
#3	1897.8	3332.3	24985.	9557.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 15:09:08 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2503	39.81	2.041	2.129	2.014	39.67	2.025	2.011	2.027	2.110
Stddev	.0019	.04	.004	.005	.004	.10	.003	.001	.009	.003
%RSD	.7650	.0982	.1817	.2229	.1716	.2467	.1229	.0406	.4485	.1289
#1	.2484	39.77	2.044	2.125	2.010	39.57	2.022	2.011	2.022	2.108
#2	.2502	39.85	2.037	2.134	2.016	39.68	2.027	2.012	2.020	2.113
#3	.2522	39.82	2.043	2.127	2.016	39.77	2.026	2.010	2.037	2.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.50	42.18	38.64	2.050	2.011	42.19	2.048	2.014	2.037	2.026
Stddev	.07	.10	.11	.007	.002	.07	.004	.001	.002	.002
%RSD	.1980	.2341	.2759	.3540	.0849	.1712	.1717	.0486	.1157	.0941
#1	37.43	42.09	38.53	2.044	2.009	42.16	2.044	2.014	2.039	2.024
#2	37.51	42.28	38.67	2.048	2.013	42.27	2.050	2.015	2.038	2.028
#3	37.57	42.17	38.74	2.058	2.012	42.14	2.049	2.013	2.034	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.090	2.159	2.126	2.083	2.063	2.140	2.021
Stddev	.005	.004	.004	.004	.006	.003	.006
%RSD	.2194	.1709	.1880	.1720	.2811	.1610	.2976
#1	2.095	2.161	2.122	2.079	2.057	2.138	2.014
#2	2.086	2.155	2.130	2.083	2.069	2.139	2.025
#3	2.089	2.161	2.126	2.086	2.062	2.144	2.024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 15:09:08 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1574.8	3180.3	23666.	9265.1
Stddev	4.7	5.7	21.	8.3
%RSD	.30117	.17848	.08989	.08938
#1	1569.9	3174.3	23673.	9274.6
#2	1579.4	3185.6	23682.	9259.9
#3	1575.3	3181.0	23641.	9260.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 15:13:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0027	-.0005	.0000	.0001	.0032	.0001	.0002	.0005	.0005
Stddev	.0003	.0024	.0002	.0001	.0001	.0010	.0000	.0000	.0002	.0002
%RSD	62.72	87.31	51.45	519.1	46.22	30.59	51.33	19.96	48.16	42.84
#1	.0008	-.0002	-.0002	.0000	.0001	.0024	.0000	.0001	.0003	.0007
#2	.0002	-.0049	-.0006	-.0001	.0001	.0043	.0001	.0001	.0007	.0007
#3	.0005	-.0030	-.0006	.0001	.0001	.0029	.0001	.0002	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	-.0031	-.0126	.0002	.0006	.0067	.0000	.0004	-.0007	.0001
Stddev	.0029	.0022	.0047	.0000	.0003	.0029	.000	.0008	.0007	.0014
%RSD	58.16	71.73	37.61	6.476	48.90	43.52	1872.	225.0	97.78	946.0
#1	.0084	-.0026	-.0102	.0002	.0009	.0069	.0001	.0011	-.0014	.0003
#2	.0036	-.0056	-.0095	.0002	.0007	.0096	.0000	.0004	-.0004	-.0013
#3	.0030	-.0012	-.0180	.0002	.0003	.0037	-.0002	-.0005	-.0002	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0005	.0001	.0003	.0012	.0002	.0000
Stddev	.0013	.0008	.0000	.0002	.0016	.0001	.000
%RSD	15.18	156.8	24.56	53.06	130.5	59.51	195.6
#1	.0097	-.0003	.0002	.0005	.0031	.0002	-.0001
#2	.0082	.0005	.0001	.0003	.0005	.0002	-.0001
#3	.0072	.0014	.0001	.0002	.0001	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 15:13:15 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1898.6	3349.7	24814.	9428.8
Stddev	4.9	3.4	46.	48.4
%RSD	.25565	.10078	.18430	.51343
#1	1893.0	3347.7	24771.	9406.7
#2	1901.5	3347.8	24809.	9484.3
#3	1901.4	3353.6	24862.	9395.3

Zoom In Zoom Out

Sample Name: MP23325-B1 Acquired: 7/30/2012 15:17:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482	27.37	2.010	2.214	.0520	25.18	.0515	.5140	.2087	.2720
Stddev	.0000	.06	.006	.009	.0002	.14	.0002	.0004	.0008	.0010
%RSD	.0988	.2062	.3238	.4105	.3902	.5740	.4454	.0737	.3805	.3514
#1	.0482	27.35	2.017	2.214	.0519	25.03	.0517	.5139	.2089	.2727
#2	.0481	27.34	2.008	2.205	.0519	25.31	.0514	.5136	.2078	.2709
#3	.0482	27.44	2.004	2.223	.0522	25.22	.0513	.5144	.2093	.2725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.53	26.86	24.03	.5268	.5306	26.97	.5336	.4905	.5117	2.028
Stddev	.10	.04	.22	.0018	.0005	.04	.0017	.0028	.0015	.003
%RSD	.3951	.1469	.9229	.3483	.0971	.1313	.3162	.5622	.2955	.1611
#1	25.42	26.83	23.78	.5285	.5308	26.99	.5342	.4884	.5131	2.025
#2	25.56	26.85	24.20	.5249	.5300	26.93	.5316	.4894	.5119	2.030
#3	25.61	26.91	24.10	.5270	.5310	26.98	.5348	.4936	.5101	2.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	.5639	.5573	.5446	2.059	.5348	.5152
Stddev	.0006	.0027	.0010	.0006	.003	.0008	.0004
%RSD	4.073	.4874	.1853	.1101	.1622	.1505	.0821
#1	.0136	.5638	.5578	.5451	2.060	.5352	.5152
#2	.0146	.5668	.5561	.5439	2.062	.5339	.5149
#3	.0135	.5613	.5580	.5447	2.056	.5354	.5157
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP23325-B1 Acquired: 7/30/2012 15:17:45 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1645.1	3192.5	23713.	9267.6
Stddev	1.7	6.4	50.	51.9
%RSD	.10516	.20146	.20940	.55953
#1	1644.9	3185.1	23656.	9326.3
#2	1646.9	3195.7	23736.	9228.1
#3	1643.4	3196.8	23746.	9248.2

Zoom In
Zoom Out

Sample Name: F95334-1 Acquired: 7/30/2012 15:21:54 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	6.182	.0002	.0321	.0001	6.230	.0000	.0005	.0044	.0028
Stddev	.0004	.027	.0011	.0003	.0000	.031	.000	.0001	.0001	.0001
%RSD	231.4	.4392	497.3	.8607	16.26	.4980	33.55	13.53	3.020	4.460
#1	-.0003	6.151	.0004	.0318	.0001	6.220	-.0001	.0006	.0043	.0028
#2	.0004	6.200	.0012	.0323	.0001	6.205	.0000	.0005	.0044	.0030
#3	.0004	6.195	-.0009	.0323	.0000	6.265	.0000	.0006	.0045	.0028

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8392	4.592	2.402	.1533	.0019	34.29	.0021	.0005	-.0003	.0005
Stddev	.0011	.020	.016	.0002	.0001	.10	.0001	.0002	.0003	.0003
%RSD	.1260	.4376	.6784	.1342	6.671	.3045	4.040	34.94	92.16	58.51
#1	.8404	4.599	2.406	.1531	.0020	34.20	.0021	.0003	.0000	.0003
#2	.8389	4.570	2.383	.1535	.0017	34.40	.0020	.0007	-.0003	.0004
#3	.8383	4.609	2.415	.1532	.0018	34.26	.0021	.0005	-.0006	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.430	-.0012	.0524	.0060	.0000	.0069	.0147
Stddev	.004	.0003	.0002	.0001	.000	.0001	.0002
%RSD	.1820	22.78	.4750	1.946	780.6	1.485	1.070
#1	2.435	-.0013	.0524	.0060	-.0003	.0069	.0149
#2	2.427	-.0014	.0527	.0060	-.0002	.0070	.0148
#3	2.429	-.0009	.0522	.0058	.0004	.0068	.0146

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.9	3248.3	24116.	9387.2
Stddev	2.8	7.1	37.	29.3
%RSD	.16147	.21938	.15262	.31160
#1	1724.2	3240.8	24074.	9356.9
#2	1726.8	3249.3	24130.	9415.2
#3	1729.7	3254.9	24143.	9389.5

Zoom In
Zoom Out

Sample Name: MP23325-D1 Acquired: 7/30/2012 15:26:19 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	6.119	.0001	.0315	.0000	6.172	.0000	.0006	.0043	.0027
Stddev	.0003	.020	.0005	.0001	.0000	.016	.0001	.0001	.0002	.0001
%RSD	141.9	.3222	403.7	.3058	29.78	.2532	699.3	21.07	3.961	4.799
#1	.0001	6.110	-.0004	.0316	.0000	6.186	.0001	.0008	.0045	.0027
#2	.0005	6.142	.0006	.0314	.0001	6.155	.0000	.0006	.0042	.0026
#3	.0000	6.105	.0002	.0315	.0000	6.176	-.0001	.0006	.0043	.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8004	4.568	2.368	.1513	.0014	34.11	.0021	.0009	-.0004	.0011
Stddev	.0036	.028	.021	.0001	.0002	.05	.0001	.0004	.0005	.0023
%RSD	.4510	.6015	.8842	.0666	14.13	.1330	5.584	42.23	101.8	206.8
#1	.8021	4.537	2.358	.1512	.0015	34.17	.0021	.0006	.0001	.0037
#2	.8028	4.586	2.354	.1512	.0012	34.08	.0021	.0014	-.0007	-.0007
#3	.7962	4.582	2.392	.1514	.0016	34.10	.0023	.0008	-.0007	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.433	-.0013	.0519	.0058	.0007	.0070	.0146
Stddev	.005	.0002	.0001	.0005	.0008	.0004	.0001
%RSD	.2216	18.28	.1214	8.223	116.8	5.174	.6988
#1	2.428	-.0012	.0519	.0054	.0011	.0072	.0145
#2	2.433	-.0011	.0520	.0057	-.0002	.0066	.0147
#3	2.438	-.0016	.0519	.0063	.0011	.0073	.0147

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1738.8	3279.2	24354.	9537.4
Stddev	5.7	4.0	21.	48.4
%RSD	.32553	.12245	.08635	.50703
#1	1744.5	3283.4	24349.	9484.5
#2	1738.7	3275.4	24376.	9579.4
#3	1733.2	3278.9	24335.	9548.2

Zoom In
Zoom Out

Sample Name: MP23325-SD1 Acquired: 7/30/2012 15:30:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	6.068	.0011	.0316	-.0001	6.374	-.0003	.0004	.0043	.0046
Stddev	.0016	.036	.0043	.0003	.0001	.064	.0003	.0005	.0004	.0008
%RSD	298.2	.5867	379.0	.7974	92.83	.9975	101.7	135.5	9.507	18.23
#1	.0023	6.062	.0061	.0316	-.0001	6.321	-.0001	.0006	.0047	.0038
#2	-.0003	6.107	-.0016	.0313	.0000	6.444	-.0006	.0008	.0044	.0055
#3	-.0004	6.036	-.0010	.0318	-.0002	6.357	-.0001	-.0002	.0039	.0044

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7811	4.654	2.407	.1538	.0011	33.87	.0018	.0005	-.0072	.0038
Stddev	.0059	.042	.073	.0011	.0005	.04	.0002	.0039	.0010	.0018
%RSD	.7593	.9014	3.028	.7181	41.85	.1308	13.73	793.1	13.68	48.48
#1	.7819	4.702	2.339	.1529	.0016	33.83	.0020	.0049	-.0061	.0042
#2	.7866	4.637	2.484	.1536	.0010	33.86	.0019	-.0023	-.0076	.0054
#3	.7748	4.624	2.398	.1550	.0007	33.92	.0015	-.0012	-.0080	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.471	-.0005	.0513	.0030	.0055	.0068	.0148
Stddev	.013	.0020	.0002	.0007	.0007	.0009	.0002
%RSD	.5302	411.6	.4199	22.29	12.67	13.06	1.501
#1	2.459	.0006	.0515	.0030	.0048	.0076	.0147
#2	2.468	-.0028	.0514	.0037	.0061	.0059	.0146
#3	2.485	.0007	.0511	.0024	.0057	.0068	.0150

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1838.8	3319.3	24639.	9410.9
Stddev	2.8	9.7	54.	51.3
%RSD	.15485	.29136	.21867	.54510
#1	1838.5	3318.3	24605.	9439.2
#2	1836.1	3310.2	24701.	9351.7
#3	1841.8	3329.4	24611.	9441.9

Zoom In
Zoom Out

Sample Name: MP23325-PS1 Acquired: 7/30/2012 15:35:08 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0486	8.571	.1034	.3048	.0529	11.87	.0532	.0538	.0571	.1132
Stddev	.0008	.046	.0009	.0010	.0002	.02	.0001	.0002	.0002	.0004
%RSD	1.628	.5342	.8657	.3319	.3591	.1450	.1973	.4208	.4273	.3318
#1	.0488	8.522	.1029	.3036	.0527	11.85	.0533	.0540	.0570	.1132
#2	.0477	8.613	.1028	.3055	.0531	11.87	.0531	.0536	.0574	.1136
#3	.0493	8.577	.1044	.3051	.0528	11.89	.0532	.0537	.0569	.1129

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.790	15.27	7.101	.2035	.1046	44.57	.1097	.0495	.1031	.1018
Stddev	.017	.06	.037	.0009	.0003	.12	.0003	.0003	.0011	.0017
%RSD	.4579	.3885	.5209	.4534	.2513	.2673	.2791	.5539	1.088	1.715
#1	3.771	15.20	7.095	.2046	.1048	44.45	.1094	.0492	.1038	.1001
#2	3.792	15.31	7.067	.2030	.1044	44.69	.1099	.0497	.1036	.1017
#3	3.806	15.30	7.141	.2031	.1048	44.57	.1099	.0495	.1018	.1036

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.428	.0501	.1074	.1133	.1031	.0616	.3112
Stddev	.003	.0003	.0004	.0003	.0009	.0002	.0012
%RSD	.1296	.6882	.3734	.2664	.8495	.3512	.3873
#1	2.430	.0505	.1070	.1131	.1030	.0616	.3099
#2	2.424	.0500	.1078	.1132	.1022	.0613	.3123
#3	2.430	.0498	.1075	.1137	.1040	.0617	.3112

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1688.5	3220.1	23878.	9369.4
Stddev	4.0	11.3	94.	16.8
%RSD	.23841	.35144	.39268	.17923
#1	1684.4	3207.0	23772.	9380.3
#2	1692.4	3226.6	23916.	9377.9
#3	1688.7	3226.6	23947.	9350.1

Zoom In
Zoom Out

Sample Name: MP23325-S1 Acquired: 7/30/2012 15:39:25 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0501	34.04	2.084	2.293	.0535	31.75	.0522	.5219	.2185	.2831
Stddev	.0001	.03	.001	.007	.0001	.15	.0001	.0008	.0008	.0002
%RSD	.1957	.0958	.0333	.3026	.2110	.4788	.1785	.1576	.3536	.0762
#1	.0500	34.03	2.084	2.294	.0535	31.60	.0522	.5211	.2194	.2828
#2	.0500	34.07	2.084	2.300	.0534	31.77	.0521	.5219	.2179	.2832
#3	.0502	34.01	2.083	2.286	.0536	31.90	.0522	.5227	.2182	.2831

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.70	31.86	26.76	.6884	.5253	61.06	.5415	.5044	.5264	2.086
Stddev	.06	.01	.22	.0012	.0016	.07	.0004	.0035	.0022	.010
%RSD	.2326	.0336	.8091	.1729	.3021	.1106	.0649	.6970	.4118	.4759
#1	26.63	31.87	26.55	.6882	.5235	61.07	.5419	.5010	.5272	2.081
#2	26.75	31.86	26.74	.6873	.5265	61.12	.5413	.5041	.5240	2.081
#3	26.72	31.85	26.98	.6896	.5259	60.99	.5412	.5080	.5282	2.098

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.430	.5481	.6041	.5492	2.098	.5565	.5348
Stddev	.003	.0017	.0021	.0006	.006	.0003	.0005
%RSD	.1261	.3133	.3396	.1161	.2834	.0544	.0986
#1	2.428	.5490	.6039	.5487	2.096	.5564	.5354
#2	2.430	.5461	.6063	.5490	2.093	.5569	.5347
#3	2.434	.5492	.6022	.5499	2.105	.5563	.5344

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1596.4	3173.9	23426.	9322.6
Stddev	1.2	1.2	21.	24.7
%RSD	.07647	.03651	.08862	.26495
#1	1595.9	3172.9	23410.	9347.9
#2	1597.7	3175.2	23449.	9321.5
#3	1595.4	3173.7	23420.	9298.5

Zoom In
Zoom Out

Sample Name: MP23325-S2 Acquired: 7/30/2012 15:43:32 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0488	33.26	2.024	2.226	.0522	31.11	.0511	.5105	.2124	.2755
Stddev	.0001	.09	.006	.009	.0003	.02	.0001	.0008	.0006	.0013
%RSD	.2101	.2724	.3022	.4051	.5577	.0743	.1346	.1662	.2639	.4829
#1	.0487	33.16	2.020	2.220	.0521	31.10	.0510	.5096	.2117	.2751
#2	.0489	33.32	2.031	2.237	.0525	31.13	.0511	.5113	.2128	.2745
#3	.0488	33.30	2.021	2.223	.0520	31.09	.0512	.5105	.2126	.2770

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.11	31.11	26.23	.6657	.5149	59.57	.5288	.4899	.5105	2.035
Stddev	.05	.05	.03	.0016	.0005	.09	.0004	.0026	.0027	.011
%RSD	.1938	.1741	.1236	.2471	.0933	.1426	.0845	.5402	.5264	.5379
#1	26.08	31.07	26.25	.6645	.5144	59.49	.5287	.4869	.5126	2.045
#2	26.17	31.17	26.24	.6651	.5153	59.66	.5292	.4919	.5115	2.037
#3	26.10	31.09	26.19	.6676	.5151	59.57	.5283	.4910	.5075	2.023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.379	.5351	.5897	.5333	2.049	.5414	.5237
Stddev	.003	.0048	.0017	.0008	.005	.0009	.0002
%RSD	.1145	.8898	.2920	.1515	.2700	.1668	.0355
#1	2.377	.5394	.5887	.5331	2.043	.5423	.5239
#2	2.382	.5300	.5917	.5327	2.054	.5414	.5235
#3	2.378	.5359	.5888	.5342	2.050	.5405	.5238

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1598.5	3177.3	23563.	9297.0
Stddev	4.8	9.5	70.	36.3
%RSD	.30329	.29876	.29558	.39055
#1	1593.0	3168.0	23593.	9273.6
#2	1602.2	3176.9	23612.	9278.7
#3	1600.2	3187.0	23483.	9338.9

Zoom In
Zoom Out

Sample Name: F95342-1 Acquired: 7/30/2012 15:47:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.2049	.0001	.0806	.0000	113.2	-.0002	.0005	.0009	.0004
Stddev	.0003	.0082	.0006	.0004	.000	.3	.0001	.0000	.0001	.0001
%RSD	85.34	3.985	1009.	.4808	52.08	.2467	34.02	6.919	7.958	28.63
#1	.0004	.1961	-.0007	.0801	.0000	113.0	-.0002	.0005	.0008	.0004
#2	.0000	.2062	.0003	.0808	.0000	113.1	-.0001	.0005	.0009	.0002
#3	.0005	.2123	.0006	.0807	.0000	113.5	-.0002	.0005	.0009	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0315	8.259	12.90	.0228	.0321	5.051	.0010	-.0008	-.0012	.0036
Stddev	.0019	.045	.10	.0001	.0003	.015	.0002	.0005	.0007	.0024
%RSD	5.994	.5402	.7937	.2867	.9519	.3000	15.35	58.22	60.20	64.89
#1	.0322	8.259	12.88	.0227	.0323	5.068	.0012	-.0010	-.0008	.0011
#2	.0330	8.303	12.81	.0228	.0318	5.045	.0009	-.0003	-.0020	.0040
#3	.0294	8.214	13.01	.0229	.0323	5.040	.0010	-.0012	-.0007	.0058

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.530	-.0008	.2817	.0079	.0004	.0016	.0023
Stddev	.004	.0007	.0004	.0002	.0008	.0001	.0001
%RSD	.2659	98.72	.1589	2.891	182.3	3.448	5.977
#1	1.526	.0000	.2816	.0082	-.0004	.0016	.0023
#2	1.533	-.0008	.2822	.0078	.0012	.0015	.0022
#3	1.533	-.0015	.2813	.0077	.0005	.0015	.0025

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1643.3	3046.2	23417.	9372.2
Stddev	2.5	11.3	47.	23.1
%RSD	.14928	.37099	.19865	.24677
#1	1640.5	3058.5	23470.	9389.7
#2	1645.0	3044.0	23398.	9380.9
#3	1644.5	3036.2	23383.	9345.9

Zoom In Zoom Out

Sample Name: F95342-2 Acquired: 7/30/2012 15:52:06 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.2063	.0001	.0606	.0000	47.44	-.0001	.0005	.0007	.0007
Stddev	.0004	.0036	.0006	.0001	.000	.05	.0000	.0002	.0002	.0001
%RSD	272.5	1.745	1057.	.2023	90.11	.1119	88.28	34.00	29.92	14.91
#1	.0006	.2024	-.0006	.0605	.0000	47.44	-.0001	.0006	.0007	.0006
#2	.0000	.2095	.0005	.0607	-.0001	47.49	.0000	.0005	.0010	.0008
#3	-.0002	.2070	.0003	.0606	-.0001	47.38	.0000	.0003	.0005	.0008

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0161	4.271	6.015	.0272	.0150	8.102	.0009	-.0005	-.0008	.0013
Stddev	.0004	.012	.008	.0001	.0001	.029	.0002	.0007	.0006	.0012
%RSD	2.487	.2692	.1399	.4800	.3790	.3641	26.00	127.6	71.97	90.76
#1	.0165	4.276	6.017	.0272	.0150	8.104	.0010	.0001	-.0013	.0003
#2	.0157	4.258	6.021	.0274	.0150	8.071	.0011	-.0004	-.0002	.0026
#3	.0161	4.280	6.005	.0271	.0151	8.130	.0007	-.0012	-.0008	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.833	-.0018	.1367	.0073	-.0008	.0006	.0032
Stddev	.002	.0011	.0003	.0005	.0008	.0001	.0001
%RSD	.0881	59.90	.2189	7.040	100.0	22.20	1.858
#1	1.834	-.0027	.1367	.0068	.0000	.0007	.0032
#2	1.834	-.0006	.1364	.0073	-.0015	.0007	.0033
#3	1.831	-.0022	.1370	.0078	-.0009	.0005	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1717.6	3107.8	23952.	9566.6
Stddev	3.5	3.4	13.	15.6
%RSD	.20608	.10905	.05635	.16340
#1	1717.0	3104.0	23968.	9568.2
#2	1721.4	3108.6	23942.	9550.2
#3	1714.3	3110.7	23947.	9581.4

Zoom In Zoom Out

Sample Name: F95268-13F Acquired: 7/30/2012 15:56:33 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0382	.0019	.0189	-.0001	490.9	-.0011	.0006	-.0001
Stddev	.0002	.0046	.0012	.0001	.0000	1.4	.0000	.0001	.0001
%RSD	126.7	11.94	62.56	.5853	21.81	.2865	3.683	16.81	97.10
#1	-.0001	.0424	.0012	.0190	-.0001	491.3	-.0011	.0005	-.0001
#2	.0004	.0334	.0033	.0187	.0000	489.3	-.0011	.0006	.0000
#3	.0003	.0388	.0012	.0188	-.0001	492.1	-.0012	.0007	-.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0009	.2518	5.039	277.0	.7587	.0198	F700.3	.0009	.0033
Stddev	.0001	.0024	.038	1.1	.0006	.0002	14.4	.0003	.0003
%RSD	14.98	.9395	.7524	.3856	.0811	.7873	2.055	38.45	10.17
#1	-.0011	.2498	4.999	278.1	.7583	.0197	716.8	.0009	.0036
#2	-.0009	.2544	5.044	275.9	.7584	.0199	693.8	.0012	.0030
#3	-.0008	.2511	5.075	277.0	.7594	.0199	690.3	.0005	.0033

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0006	49.90	-.0028	F9.623	-.0056	.0001	.0076	.0007
Stddev	.0006	.0025	.05	.0002	.009	.0001	.0008	.0001	.0001
%RSD	78.66	424.7	.0975	7.244	.0912	1.734	600.9	1.215	8.938
#1	-.0008	-.0004	49.86	-.0026	9.613	-.0055	.0010	.0076	.0007
#2	-.0013	.0034	49.96	-.0030	9.630	-.0057	-.0001	.0077	.0006
#3	-.0001	-.0013	49.89	-.0029	9.626	-.0057	-.0006	.0075	.0007

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1234.4	2547.4	20044.	8939.9
Stddev	2.3	1.0	79.	56.1
%RSD	.18277	.04007	.39378	.62769
#1	1235.7	2547.3	20004.	8875.7
#2	1235.8	2546.3	19993.	8964.2
#3	1231.8	2548.4	20135.	8979.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:01:21 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494	40.03	2.097	2.179	1.993	37.86	2.026	2.031	1.974	2.171
Stddev	.0015	.12	.007	.008	.007	.27	.004	.004	.002	.005
%RSD	.5839	.3037	.3429	.3838	.3486	.7229	.2040	.2047	.1189	.2479
#1	.2500	39.93	2.091	2.174	1.985	37.59	2.022	2.027	1.972	2.167
#2	.2477	40.16	2.105	2.189	1.998	37.86	2.025	2.032	1.977	2.177
#3	.2504	39.99	2.095	2.175	1.996	38.14	2.030	2.035	1.974	2.171
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.56	42.85	36.66	2.017	2.052	43.20	2.068	1.974	2.121	2.097
Stddev	.19	.10	.29	.002	.002	.11	.005	.002	.004	.005
%RSD	.5218	.2399	.7875	.0846	.0800	.2632	.2386	.1050	.2129	.2454
#1	36.34	42.76	36.36	2.015	2.050	43.15	2.064	1.975	2.118	2.091
#2	36.67	42.96	36.67	2.019	2.052	43.33	2.066	1.976	2.126	2.101
#3	36.66	42.82	36.93	2.017	2.054	43.12	2.073	1.972	2.119	2.099
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.161	2.164	2.135	2.090	2.046	2.124	1.961
Stddev	.002	.005	.031	.004	.012	.004	.007
%RSD	.0724	.2269	1.464	.1944	.5835	.2122	.3353
#1	2.159	2.159	2.104	2.088	2.057	2.121	1.954
#2	2.161	2.167	2.136	2.095	2.048	2.121	1.961
#3	2.162	2.168	2.166	2.087	2.033	2.129	1.968
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:01:21 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1537.9	3040.9	23591.	9711.1
Stddev	3.5	1.6	37.	53.3
%RSD	.22533	.05151	.15530	.54834
#1	1535.7	3042.5	23559.	9770.6
#2	1536.1	3039.3	23584.	9694.9
#3	1541.9	3041.0	23631.	9667.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:05:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0029	-.0001	.0001	.0002	.0063	.0002	.0001	.0003	.0007
Stddev	.0001	.0033	.0006	.0000	.0000	.0007	.0000	.0001	.0000	.0001
%RSD	65.72	114.3	593.5	63.06	8.883	11.34	9.470	40.22	11.37	11.86
#1	.0004	.0009	-.0008	.0001	.0002	.0061	.0002	.0001	.0004	.0006
#2	.0002	-.0054	.0001	.0000	.0002	.0071	.0002	.0002	.0003	.0006
#3	.0001	-.0042	.0004	.0001	.0002	.0057	.0001	.0002	.0003	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	.0352	.0055	.0002	.0007	.0676	.0002	-.0001	-.0010	.0003
Stddev	.0041	.0167	.0061	.0001	.0003	.0010	.0002	.0004	.0002	.0009
%RSD	54.93	47.48	109.9	24.62	43.32	1.524	114.8	424.6	21.08	282.8
#1	.0122	.0522	-.0014	.0003	.0009	.0670	.0004	-.0003	-.0012	.0001
#2	.0056	.0343	.0100	.0002	.0007	.0688	.0000	.0003	-.0009	-.0005
#3	.0046	.0189	.0079	.0002	.0003	.0670	.0001	-.0003	-.0008	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0007	.0002	.0006	.0009	.0001	.0000
Stddev	.0003	.0007	.0000	.0001	.0007	.0002	.000
%RSD	3.901	104.7	11.95	18.36	77.42	273.6	259.7
#1	.0065	.0013	.0003	.0007	.0016	.0001	.0001
#2	.0067	.0008	.0002	.0005	.0007	-.0001	-.0002
#3	.0070	-.0001	.0002	.0005	.0003	.0002	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:05:34 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1878.4	3252.6	24924.	9885.0
Stddev	2.8	7.9	10.	61.4
%RSD	.14901	.24398	.04212	.62134
#1	1875.8	3243.7	24912.	9821.5
#2	1877.9	3255.1	24925.	9944.1
#3	1881.3	3258.9	24933.	9889.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:31:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2483	39.94	1.970	2.029	2.041	40.27	2.013	2.004	2.027	1.998
Stddev	.0023	.10	.003	.006	.003	.17	.002	.002	.007	.001
%RSD	.9415	.2517	.1590	.2994	.1370	.4202	.0885	.0778	.3472	.0394
#1	.2475	40.04	1.967	2.028	2.044	40.43	2.011	2.002	2.025	1.997
#2	.2465	39.94	1.973	2.035	2.039	40.09	2.013	2.003	2.035	1.999
#3	.2510	39.84	1.971	2.023	2.040	40.29	2.015	2.006	2.021	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.00	39.94	39.91	2.044	2.008	39.96	2.011	1.979	1.973	1.979
Stddev	.17	.03	.15	.006	.001	.06	.004	.004	.002	.008
%RSD	.4232	.0859	.3705	.2888	.0649	.1452	.2172	.2002	.1222	.4149
#1	40.19	39.91	40.08	2.043	2.008	39.98	2.010	1.984	1.973	1.969
#2	39.93	39.98	39.82	2.051	2.006	40.01	2.008	1.976	1.975	1.983
#3	39.88	39.93	39.83	2.039	2.009	39.90	2.016	1.979	1.970	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.996	2.031	2.042	2.032	1.996	2.082	2.014
Stddev	.002	.002	.010	.004	.005	.002	.003
%RSD	.0902	.1122	.4870	.1711	.2308	.1024	.1365
#1	1.995	2.030	2.052	2.032	2.002	2.082	2.013
#2	1.995	2.033	2.040	2.035	1.995	2.085	2.013
#3	1.998	2.029	2.033	2.028	1.993	2.080	2.018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 16:31:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1553.4	3096.8	23400.	9463.8
Stddev	3.6	2.5	26.	64.5
%RSD	.23001	.08094	.11186	.68103
#1	1550.6	3095.5	23399.	9389.4
#2	1557.4	3099.7	23374.	9501.7
#3	1552.2	3095.2	23426.	9500.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:42:16 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0002	.0003	.0001	.0000	.0024	-.0001	.0000	.0001	-.0002
Stddev	.0002	.0010	.0002	.0000	.0000	.0011	.0001	.000	.0001	.0001
%RSD	52.97	394.5	58.59	30.72	126.3	46.89	70.24	254.3	66.02	76.02
#1	-.0006	.0013	.0004	.0001	.0000	.0021	-.0001	.0000	.0001	-.0002
#2	-.0004	-.0002	.0001	.0001	.0000	.0037	.0000	-.0001	.0000	-.0003
#3	-.0002	-.0004	.0003	.0001	.0000	.0015	-.0002	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112	.0131	.0074	.0001	.0003	-.0003	.0000	.0004	.0011	-.0016
Stddev	.0029	.0074	.0112	.0000	.0002	.0062	.0002	.0002	.0011	.0009
%RSD	26.13	56.44	152.2	12.70	53.65	2442.	1223.	60.72	93.85	54.74
#1	.0145	.0098	-.0051	.0001	.0004	.0013	-.0001	.0003	.0009	-.0020
#2	.0106	.0216	.0105	.0000	.0004	.0050	-.0001	.0006	.0002	-.0006
#3	.0087	.0080	.0166	.0000	.0001	-.0070	.0003	.0002	.0023	-.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0001	.0000	.0006	.0009	.0001	.0000
Stddev	.0008	.0003	.0000	.0001	.0006	.0001	.0001
%RSD	86.46	313.2	89.90	11.59	66.59	125.4	337.7
#1	.0017	.0004	.0000	.0006	.0005	.0001	.0000
#2	.0009	-.0002	.0000	.0005	.0017	.0001	.0001
#3	.0001	.0000	.0001	.0006	.0007	.0000	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 16:42:16 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.8	3250.3	24512.	9548.4
Stddev	6.3	8.2	69.	15.4
%RSD	.33661	.25183	.28166	.16120
#1	1874.4	3247.0	24570.	9552.3
#2	1878.2	3259.6	24529.	9531.5
#3	1865.9	3244.3	24436.	9561.5

Zoom In Zoom Out

Sample Name: F95288-1 Acquired: 7/30/2012 16:45:53 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	.0347	-.0005	.1169	-.0001	247.5	-.0006	.0024	-.0002
Stddev	.0007	.0079	.0011	.0004	.0000	.3	.0001	.0001	.0004
%RSD	128.4	22.62	204.7	.3776	7.561	.1221	9.102	5.122	219.5
#1	-.0005	.0432	-.0015	.1164	-.0001	247.8	-.0007	.0023	.0002
#2	-.0013	.0333	-.0007	.1171	-.0001	247.2	-.0006	.0025	-.0002
#3	.0001	.0277	.0006	.1172	-.0001	247.5	-.0006	.0023	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.0118	3.082	125.6	.5204	.0023	F734.6	.0013	-.0012
Stddev	.0001	.0002	.064	.2	.0012	.0001	9.4	.0001	.0005
%RSD	20.51	1.773	2.089	.1834	.2330	2.625	1.285	10.37	38.52
#1	-.0004	.0119	3.011	125.8	.5212	.0023	738.3	.0015	-.0014
#2	-.0006	.0120	3.098	125.7	.5209	.0024	741.6	.0012	-.0007
#3	-.0005	.0116	3.137	125.3	.5190	.0024	723.8	.0012	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	-.0018	11.22	-.0022	1.362	-.0011	-.0011	.0042	.0010
Stddev	.0004	.0024	.04	.0009	.004	.0001	.0015	.0004	.0000
%RSD	26.39	129.8	.3528	42.70	.2826	10.72	134.6	8.829	4.090
#1	.0015	-.0015	11.21	-.0025	1.357	-.0010	.0006	.0043	.0010
#2	.0020	-.0043	11.19	-.0030	1.365	-.0012	-.0023	.0046	.0010
#3	.0012	.0004	11.27	-.0012	1.363	-.0010	-.0017	.0039	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1288.2	2595.4	19955.	8841.6
Stddev	2.9	9.6	43.	21.1
%RSD	.22528	.36958	.21428	.23830
#1	1286.9	2595.2	19976.	8818.4
#2	1291.5	2605.0	19984.	8846.6
#3	1286.2	2585.8	19906.	8859.7

Zoom In Zoom Out

Sample Name: F95288-2 Acquired: 7/30/2012 16:50:34 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0007	.0188	.0013	.0670	-.0001	171.7	-.0005	.0010	.0002
Stddev	.0002	.0041	.0004	.0001	.0000	1.0	.0000	.0001	.0001
%RSD	28.88	21.97	34.32	.1847	24.35	.5984	5.695	7.266	74.73
#1	-.0009	.0140	.0018	.0672	-.0001	170.7	-.0005	.0011	.0001
#2	-.0005	.0214	.0012	.0669	-.0001	171.6	-.0005	.0009	.0001
#3	-.0007	.0210	.0009	.0670	-.0001	172.8	-.0006	.0010	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0010	.7428	2.852	79.51	.2661	.0006	F681.9	.0003	-.0006
Stddev	.0001	.0028	.025	.70	.0013	.0002	5.7	.0001	.0005
%RSD	5.201	.3832	.8627	.8747	.4773	27.48	.8324	38.15	87.14
#1	-.0010	.7395	2.824	78.72	.2646	.0004	677.8	.0004	-.0001
#2	-.0011	.7446	2.864	79.78	.2668	.0007	679.5	.0003	-.0005
#3	-.0010	.7443	2.868	80.03	.2668	.0008	688.4	.0002	-.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0017	8.405	-.0032	.9352	-.0004	-.0006	.0007	.0005
Stddev	.0007	.0009	.027	.0009	.0009	.0001	.0012	.0003	.0001
%RSD	232.8	51.52	.3253	27.04	.1014	20.97	197.7	45.42	9.885
#1	.0004	-.0019	8.390	-.0026	.9363	-.0005	.0004	.0003	.0005
#2	-.0004	-.0025	8.388	-.0042	.9347	-.0003	-.0003	.0009	.0006
#3	-.0009	-.0008	8.436	-.0029	.9347	-.0004	-.0020	.0009	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1317.1	2631.1	20135.	8909.7
Stddev	9.4	11.4	24.	45.1
%RSD	.71348	.43476	.11726	.50600
#1	1320.6	2635.6	20157.	8960.3
#2	1324.3	2639.7	20139.	8894.7
#3	1306.5	2618.1	20110.	8874.0

Zoom In
Zoom Out

Sample Name: F95288-1F Acquired: 7/30/2012 16:55:16 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	.0271	-.0016	.1266	-.0001	226.0	-.0006	.0016	.0000
Stddev	.0004	.0078	.0006	.0006	.0000	1.3	.0001	.0001	.000
%RSD	89.28	28.70	36.01	.4791	12.43	.5769	12.43	6.138	975.4
#1	-.0001	.0201	-.0021	.1263	-.0001	226.2	-.0007	.0017	.0001
#2	-.0003	.0256	-.0018	.1262	-.0001	224.6	-.0005	.0017	-.0001
#3	-.0008	.0355	-.0010	.1273	-.0001	227.2	-.0007	.0015	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	.0078	2.770	116.2	.4919	.0029	F680.0	.0013	-.0005
Stddev	.0001	.0008	.021	.6	.0006	.0001	4.0	.0001	.0002
%RSD	99.99	10.56	.7506	.5147	.1295	4.117	.5839	6.465	28.55
#1	.0001	.0082	2.749	116.2	.4924	.0029	678.7	.0012	-.0004
#2	.0001	.0083	2.769	115.6	.4912	.0027	684.4	.0012	-.0006
#3	.0000	.0068	2.791	116.8	.4921	.0030	676.8	.0014	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0005	-.0021	11.29	-.0022	1.302	-.0011	.0001	.0047	.0155
Stddev	.0011	.0014	.01	.0007	.003	.0001	.0007	.0003	.0002
%RSD	199.4	65.96	.1082	32.93	.2365	10.86	503.7	6.416	.9700
#1	-.0016	-.0006	11.30	-.0024	1.299	-.0009	.0001	.0049	.0154
#2	-.0005	-.0026	11.29	-.0014	1.301	-.0011	-.0006	.0048	.0155
#3	.0005	-.0033	11.28	-.0027	1.305	-.0011	.0008	.0044	.0157

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1292.1	2572.3	19844.	8768.2
Stddev	1.9	5.3	36.	46.0
%RSD	.14504	.20605	.18324	.52506
#1	1290.0	2566.9	19804.	8744.5
#2	1292.8	2572.6	19853.	8821.3
#3	1293.5	2577.5	19875.	8738.8

Zoom In
Zoom Out

Sample Name: F95288-2F Acquired: 7/30/2012 16:59:58 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.0190	.0010	.0685	-.0001	173.7	-.0005	.0010	-.0001
Stddev	.0006	.0043	.0003	.0003	.0001	1.3	.0001	.0001	.0001
%RSD	108.8	22.47	35.55	.3656	56.28	.7759	14.90	7.259	56.54
#1	-.0010	.0199	.0011	.0683	-.0002	172.7	-.0006	.0011	-.0002
#2	-.0006	.0227	.0006	.0686	-.0001	173.0	-.0005	.0011	-.0001
#3	.0001	.0143	.0012	.0687	-.0001	175.2	-.0005	.0009	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.5956	2.803	80.44	.2682	.0007	F694.3	.0007	-.0009
Stddev	.0001	.0042	.014	.27	.0007	.0001	3.1	.0001	.0007
%RSD	27.71	.7001	.4817	.3307	.2505	12.08	.4419	20.11	82.02
#1	-.0004	.5924	2.789	80.25	.2688	.0006	692.2	.0008	-.0013
#2	-.0004	.5941	2.802	80.33	.2681	.0008	693.0	.0006	-.0001
#3	-.0007	.6003	2.816	80.75	.2675	.0007	697.9	.0006	-.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0000	8.592	-.0023	.9490	-.0006	-.0011	.0004	.0067
Stddev	.0010	.001	.028	.0009	.0020	.0001	.0015	.0003	.0001
%RSD	345.1	6945.	.3273	39.92	.2107	10.67	139.5	70.71	1.602
#1	-.0009	-.0015	8.623	-.0012	.9469	-.0006	-.0025	.0007	.0065
#2	.0007	.0004	8.569	-.0027	.9509	-.0005	-.0010	.0005	.0067
#3	.0011	.0011	8.583	-.0029	.9492	-.0007	.0004	.0001	.0067

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1312.4	2611.3	20045.	8814.7
Stddev	2.6	6.6	43.	19.4
%RSD	.19613	.25258	.21244	.22018
#1	1309.4	2603.7	20017.	8823.0
#2	1313.9	2614.7	20024.	8828.7
#3	1313.8	2615.6	20094.	8792.6

Zoom In
Zoom Out

Sample Name: F95289-1 Acquired: 7/30/2012 17:04:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0008	.0909	.0013	.4661	-.0001	F858.3	-.0020	.0084	.0007
Stddev	.0003	.0052	.0008	.0016	.0000	6.9	.0001	.0002	.0004
%RSD	36.00	5.728	61.97	.3349	31.42	.8043	3.737	2.062	63.10
#1	.0005	.0886	.0007	.4679	-.0001	850.6	-.0020	.0082	.0007
#2	.0010	.0872	.0022	.4654	-.0001	864.1	-.0020	.0083	.0011
#3	.0010	.0968	.0010	.4650	-.0002	860.1	-.0019	.0085	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0015	1.377	37.91	F673.1	F7.646	.0032	F1197.	.0028	-.0006
Stddev	.0005	.006	.09	3.3	.060	.0003	2.	.0005	.0017
%RSD	34.00	.4666	.2412	.4884	.7844	8.402	.1399	17.87	264.6
#1	-.0010	1.370	38.01	670.7	7.580	.0031	1196.	.0023	.0010
#2	-.0021	1.383	37.85	676.9	7.698	.0035	1199.	.0027	-.0024
#3	-.0015	1.378	37.86	671.8	7.660	.0031	1197.	.0033	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0035	13.99	-.0031	F10.50	-.0118	.0014	-.0003	.0004
Stddev	.0015	.0044	.05	.0009	.12	.0002	.0012	.0002	.0001
%RSD	391.7	125.4	.3617	28.36	1.165	1.314	83.51	58.00	32.24
#1	.0014	.0006	13.93	-.0035	10.60	-.0119	.0005	-.0002	.0002
#2	.0011	-.0081	14.02	-.0021	10.37	-.0119	.0010	-.0003	.0005
#3	-.0014	-.0030	14.02	-.0038	10.54	-.0116	.0027	-.0006	.0004

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1080.9	2233.9	17602.	8106.8
Stddev	5.8	7.8	10.	26.3
%RSD	.53230	.34932	.05495	.32423
#1	1086.3	2242.7	17609.	8114.1
#2	1081.6	2231.2	17607.	8077.7
#3	1074.8	2227.8	17591.	8128.7

Zoom In
Zoom Out

Sample Name: F95289-2 Acquired: 7/30/2012 17:09:39 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0510	.0009	.2001	-.0002	F529.0	-.0014	.0047	.0003
Stddev	.0007	.0096	.0009	.0017	.0000	2.6	.0001	.0000	.0003
%RSD	139.8	18.83	102.0	.8262	3.917	.4976	4.264	.8651	104.5
#1	.0000	.0615	.0017	.1988	-.0001	526.1	-.0013	.0047	.0000
#2	.0002	.0486	.0010	.2020	-.0002	529.8	-.0013	.0047	.0006
#3	.0013	.0428	-.0001	.1995	-.0001	531.1	-.0014	.0048	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0016	.5062	25.40	461.5	F4.755	.0026	F1346.	.0026	-.0013
Stddev	.0003	.0035	.12	3.1	.018	.0000	2.	.0002	.0009
%RSD	17.76	.6828	.4782	.6702	.3786	.8469	.1753	6.222	70.02
#1	-.0013	.5081	25.26	459.5	4.768	.0027	1349.	.0028	-.0018
#2	-.0017	.5083	25.50	465.0	4.761	.0026	1345.	.0027	-.0017
#3	-.0019	.5022	25.43	459.9	4.734	.0027	1345.	.0024	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0004	-.0048	13.19	-.0021	F6.431	-.0064	.0007	.0001	.0004
Stddev	.0001	.0006	.01	.0009	.042	.0000	.0016	.0000	.0001
%RSD	27.83	11.94	.0537	41.85	.6489	.2270	222.8	32.12	30.39
#1	-.0004	-.0044	13.19	-.0011	6.418	-.0064	-.0005	.0002	.0005
#2	-.0003	-.0054	13.18	-.0023	6.398	-.0064	.0025	.0001	.0003
#3	-.0005	-.0044	13.19	-.0029	6.478	-.0064	.0001	.0001	.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1101.7	2283.0	17731.	8214.5
Stddev	.1	5.9	50.	30.9
%RSD	.01100	.25737	.28129	.37588
#1	1101.6	2276.3	17708.	8235.3
#2	1101.8	2287.1	17696.	8179.0
#3	1101.6	2285.7	17788.	8229.1

Zoom In Zoom Out

Sample Name: F95289-3 Acquired: 7/30/2012 17:14:30 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0628	-.0028	.0826	-.0001	F963.6	-.0015	.0068	-.0002
Stddev	.0004	.0044	.0005	.0003	.0000	6.0	.0000	.0001	.0007
%RSD	44.57	7.002	19.28	.3215	30.00	.6233	1.179	1.342	319.4
#1	.0005	.0579	-.0031	.0825	-.0001	956.7	-.0015	.0067	.0005
#2	.0011	.0640	-.0022	.0824	-.0002	967.8	-.0015	.0069	-.0003
#3	.0013	.0664	-.0032	.0829	-.0001	966.3	-.0015	.0068	-.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0018	-.0062	46.03	F999.1	F8.288	.0021	F1863.	.0019	.0009
Stddev	.0002	.0016	.08	6.8	.006	.0002	25.	.0002	.0009
%RSD	9.453	25.48	.1835	.6816	.0738	10.53	1.351	11.64	102.0
#1	-.0016	-.0075	46.12	991.3	8.281	.0024	1892.	.0021	-.0001
#2	-.0018	-.0044	45.97	1002.	8.293	.0021	1850.	.0017	.0011
#3	-.0019	-.0066	45.99	1004.	8.290	.0019	1847.	.0020	.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	-.0064	14.26	-.0035	F14.57	-.0181	.0016	.0012	.0011
Stddev	.0005	.0005	.02	.0004	.12	.0002	.0009	.0005	.0002
%RSD	313.8	8.136	.1330	12.19	.8125	.8750	55.74	41.52	19.57
#1	.0002	-.0059	14.25	-.0038	14.56	-.0181	.0015	.0018	.0009
#2	-.0004	-.0069	14.24	-.0038	14.69	-.0183	.0007	.0009	.0013
#3	.0006	-.0064	14.27	-.0030	14.46	-.0179	.0025	.0009	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	952.14	2059.0	15929.	7687.2
Stddev	.81	2.8	27.	27.5
%RSD	.08536	.13576	.16793	.35747
#1	952.84	2057.0	15899.	7718.9
#2	951.25	2062.2	15943.	7670.9
#3	952.34	2057.8	15947.	7671.8

Zoom In Zoom Out

Sample Name: F95289-4 Acquired: 7/30/2012 17:19:29 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0751	.0042	.2306	-.0002	F1253.	-.0028	.0095	.0008
Stddev	.0007	.0115	.0014	.0007	.0000	10.	.0000	.0001	.0002
%RSD	64.47	15.33	33.92	.2943	22.35	.7854	1.259	1.561	23.67
#1	.0004	.0686	.0039	.2314	-.0001	1244.	-.0027	.0095	.0009
#2	.0017	.0684	.0029	.2302	-.0002	1264.	-.0028	.0097	.0006
#3	.0011	.0884	.0058	.2303	-.0002	1250.	-.0027	.0094	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0029	1.040	53.53	F1065.	F10.89	.0019	F1783.	.0049	-.0012
Stddev	.0002	.004	.09	7.	.12	.0004	14.	.0001	.0015
%RSD	6.862	.3534	.1632	.6970	1.064	19.20	.7676	2.949	120.0
#1	-.0028	1.040	53.55	1062.	10.77	.0015	1789.	.0048	-.0026
#2	-.0032	1.043	53.60	1073.	10.91	.0022	1793.	.0051	.0004
#3	-.0029	1.036	53.43	1059.	11.00	.0021	1767.	.0049	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0020	-.0063	14.09	-.0029	F16.49	-.0248	.0044	-.0006	-.0014
Stddev	.0015	.0007	.03	.0009	.09	.0001	.0020	.0001	.0002
%RSD	74.39	11.10	.1947	29.68	.5487	.3930	45.62	23.04	13.05
#1	.0005	-.0071	14.07	-.0037	16.45	-.0247	.0021	-.0006	-.0012
#2	.0021	-.0058	14.07	-.0020	16.43	-.0249	.0059	-.0005	-.0015
#3	.0035	-.0061	14.12	-.0029	16.60	-.0248	.0050	-.0008	-.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	950.63	2039.4	16098.	7649.7
Stddev	2.88	5.4	30.	40.4
%RSD	.30338	.26420	.18386	.52809
#1	951.58	2040.8	16105.	7639.0
#2	952.92	2044.0	16123.	7615.7
#3	947.39	2033.5	16065.	7694.3

Zoom In Zoom Out

Sample Name: F95289-5 Acquired: 7/30/2012 17:24:27 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0519	-.0039	.0789	-.0002	F663.1	-.0001	.0035	-.0001
Stddev	.0003	.0063	.0016	.0002	.0000	3.9	.0000	.0000	.0004
%RSD	95.67	12.15	42.12	.2875	.9193	.5949	20.77	.8651	616.8
#1	.0000	.0455	-.0025	.0789	-.0002	661.5	-.0001	.0035	-.0003
#2	.0006	.0522	-.0034	.0786	-.0002	667.6	-.0001	.0035	.0004
#3	.0004	.0581	-.0057	.0790	-.0002	660.2	-.0001	.0035	-.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0014	-.0032	31.66	F671.2	F4.106	.0018	F1568.	.0008	-.0004
Stddev	.0002	.0009	.08	5.4	.006	.0001	21.	.0001	.0003
%RSD	11.68	27.46	.2394	.8067	.1514	7.997	1.319	17.73	74.39
#1	-.0013	-.0026	31.69	667.8	4.101	.0017	1590.	.0008	-.0007
#2	-.0012	-.0042	31.57	677.5	4.113	.0017	1565.	.0007	-.0002
#3	-.0015	-.0028	31.71	668.5	4.105	.0020	1549.	.0010	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	-.0034	12.54	-.0042	F9.624	-.0097	.0019	.0004	.0033
Stddev	.0004	.0040	.03	.0010	.093	.0001	.0012	.0002	.0002
%RSD	28.48	118.5	.2384	23.21	.9663	.9886	64.43	54.68	4.620
#1	.0010	-.0002	12.50	-.0051	9.549	-.0097	.0026	.0003	.0033
#2	.0017	-.0020	12.56	-.0045	9.728	-.0098	.0005	.0006	.0032
#3	.0017	-.0080	12.55	-.0032	9.594	-.0096	.0025	.0003	.0035

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1040.0	2182.6	16995.	7855.8
Stddev	.8	5.3	39.	50.8
%RSD	.07285	.24224	.22669	.64654
#1	1040.5	2187.2	17004.	7853.5
#2	1039.1	2176.9	16953.	7806.2
#3	1040.4	2183.9	17028.	7907.7

Zoom In Zoom Out

Sample Name: F95289-6 Acquired: 7/30/2012 17:29:18 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0478	-.0003	.0489	-.0001	F638.3	-.0016	.0027	-.0004
Stddev	.0003	.0077	.0008	.0003	.0000	1.3	.0001	.0001	.0006
%RSD	117.2	16.22	280.4	.5188	12.79	.2095	3.824	2.741	170.4
#1	-.0002	.0398	-.0003	.0489	-.0001	637.5	-.0017	.0026	-.0005
#2	-.0006	.0553	.0005	.0486	-.0002	639.9	-.0016	.0027	-.0009
#3	.0000	.0482	-.0011	.0491	-.0001	637.5	-.0016	.0027	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0018	.3083	13.40	251.5	2.639	.0006	F1407.	.0010	-.0014
Stddev	.0001	.0024	.02	.6	.009	.0000	22.	.0001	.0012
%RSD	6.724	.7865	.1749	.2346	.3203	6.376	1.531	6.041	87.95
#1	-.0017	.3072	13.42	250.8	2.630	.0006	1425.	.0010	-.0027
#2	-.0019	.3067	13.38	251.8	2.647	.0006	1412.	.0009	-.0009
#3	-.0017	.3111	13.39	251.8	2.640	.0006	1383.	.0010	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	-.0013	12.46	-.0026	F4.507	-.0085	.0002	-.0004	-.0007
Stddev	.0007	.0020	.06	.0006	.028	.0001	.0007	.0000	.0002
%RSD	314.5	150.6	.4610	21.15	.6183	.7218	404.1	6.994	31.38
#1	.0005	-.0028	12.40	-.0024	4.505	-.0084	.0009	-.0004	-.0009
#2	-.0003	.0009	12.50	-.0032	4.480	-.0085	-.0005	-.0003	-.0007
#3	-.0009	-.0021	12.49	-.0022	4.535	-.0086	.0000	-.0004	-.0005

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1091.8	2261.2	17907.	8131.9
Stddev	2.0	14.9	14.	26.3
%RSD	.18006	.65743	.07660	.32310
#1	1093.6	2278.2	17904.	8116.1
#2	1092.0	2250.6	17894.	8117.5
#3	1089.7	2254.8	17921.	8162.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 17:34:07 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	41.42	2.031	2.107	2.014	38.65	2.034	2.056	2.006	1.993
Stddev	.0035	.11	.004	.006	.007	.24	.002	.005	.006	.011
%RSD	1.426	.2588	.1912	.2801	.3589	.6335	.1090	.2281	.3031	.5310
#1	.2525	41.35	2.028	2.104	2.006	38.40	2.031	2.051	2.011	2.005
#2	.2475	41.55	2.030	2.113	2.018	38.65	2.035	2.057	2.000	1.988
#3	.2457	41.37	2.035	2.102	2.019	38.89	2.036	2.061	2.009	1.985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.38	41.34	37.77	2.035	2.072	41.14	2.030	1.929	2.044	2.045
Stddev	.20	.12	.25	.010	.008	.08	.002	.006	.006	.003
%RSD	.5132	.2807	.6558	.5025	.3704	.1953	.1202	.3101	.2746	.1546
#1	38.16	41.44	37.54	2.046	2.065	41.21	2.027	1.935	2.039	2.041
#2	38.49	41.37	37.74	2.026	2.070	41.17	2.030	1.928	2.044	2.044
#3	38.50	41.21	38.03	2.033	2.080	41.05	2.032	1.923	2.050	2.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.052	1.990	2.073	2.030	1.954	2.037	1.978
Stddev	.005	.005	.009	.009	.003	.009	.002
%RSD	.2314	.2440	.4147	.4363	.1489	.4562	.0783
#1	2.046	1.987	2.083	2.040	1.957	2.046	1.976
#2	2.054	1.996	2.068	2.023	1.954	2.028	1.979
#3	2.055	1.989	2.069	2.028	1.951	2.036	1.978
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 17:34:07 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1542.0	2971.4	23419.	9177.9
Stddev	1.3	7.6	99.	19.9
%RSD	.08650	.25508	.42364	.21664
#1	1542.4	2980.1	23304.	9200.8
#2	1540.5	2967.9	23474.	9167.8
#3	1543.0	2966.1	23478.	9165.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 17:38:20 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0040	.0001	.0003	.0002	.0065	.0001	.0002	.0000	-.0001
Stddev	.0002	.0033	.0007	.0001	.0000	.0013	.0000	.0001	.0001	.0002
%RSD	46.67	82.23	592.7	36.00	20.68	20.61	64.53	49.35	1272.	171.5
#1	-.0006	.0053	.0003	.0004	.0002	.0065	.0001	.0003	.0001	.0001
#2	-.0003	.0003	.0007	.0002	.0001	.0052	.0000	.0001	-.0001	-.0004
#3	-.0003	.0064	-.0007	.0003	.0001	.0079	.0001	.0002	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202	-.0017	.0085	.0002	.0009	.1824	.0001	-.0004	.0013	-.0013
Stddev	.0035	.0138	.0056	.0000	.0002	.0061	.0001	.0005	.0003	.0006
%RSD	17.22	815.6	65.35	11.27	26.73	3.362	130.8	129.0	22.68	46.22
#1	.0235	.0111	.0147	.0002	.0012	.1891	.0001	-.0007	.0016	-.0012
#2	.0206	-.0163	.0068	.0002	.0007	.1810	.0002	-.0007	.0013	-.0007
#3	.0165	.0001	.0040	.0001	.0008	.1771	.0000	.0002	.0010	-.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	.0002	.0013	.0014	.0001	.0001
Stddev	.0004	.0006	.0000	.0002	.0001	.0000	.0001
%RSD	72.51	491.2	20.71	14.67	6.106	16.25	71.55
#1	.0003	.0003	.0003	.0014	.0015	.0001	.0000
#2	.0010	.0007	.0002	.0015	.0013	.0001	.0001
#3	.0003	-.0006	.0002	.0011	.0013	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 17:38:20 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1873.9	3168.7	24608.	9315.2
Stddev	3.0	10.0	46.	19.3
%RSD	.16252	.31567	.18597	.20704
#1	1870.6	3158.2	24625.	9294.7
#2	1874.3	3169.9	24556.	9317.9
#3	1876.7	3178.1	24642.	9332.9

Zoom In Zoom Out

Sample Name: F95289-7 Acquired: 7/30/2012 17:42:48 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.0013	-.0022	.0578	-.0001	1.686	-.0002	.0000	-.0003	-.0015
Stddev	.0004	.0026	.0007	.0003	.0000	.012	.0000	.0001	.0002	.0002
%RSD	65.87	198.6	34.10	.5951	16.20	.7130	17.18	817.6	84.23	13.15
#1	-.0003	.0030	-.0029	.0580	-.0001	1.681	-.0002	-.0001	-.0005	-.0013
#2	-.0005	-.0017	-.0014	.0581	-.0001	1.677	-.0001	.0001	-.0001	-.0017
#3	-.0010	.0026	-.0022	.0574	-.0001	1.699	-.0002	.0001	-.0003	-.0015

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0007	.2821	.1706	.0142	.0002	.7228	.0012	-.0010	.0010	-.0012
Stddev	.0019	.0134	.0134	.0001	.0001	.0056	.0001	.0004	.0006	.0019
%RSD	278.7	4.743	7.875	.6657	72.26	.7700	7.432	38.69	59.44	159.1
#1	-.0025	.2975	.1772	.0141	.0001	.7278	.0011	-.0014	.0011	-.0020
#2	-.0009	.2756	.1794	.0142	.0001	.7239	.0012	-.0007	.0015	-.0024
#3	.0013	.2733	.1551	.0143	.0003	.7168	.0013	-.0008	.0003	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.40	-.0019	.0454	.0002	.0008	-.0003	.0011
Stddev	.03	.0003	.0001	.0000	.0006	.0001	.0001
%RSD	.2423	15.23	.2510	13.52	76.00	54.16	6.800
#1	10.39	-.0016	.0455	.0002	.0012	-.0003	.0012
#2	10.39	-.0021	.0453	.0002	.0011	-.0004	.0011
#3	10.43	-.0020	.0454	.0002	.0001	-.0001	.0011

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1854.2	3130.2	24670.	9370.5
Stddev	2.0	9.2	20.	43.6
%RSD	.10867	.29256	.08080	.46479
#1	1853.9	3131.5	24684.	9351.3
#2	1852.4	3138.6	24647.	9420.4
#3	1856.4	3120.4	24680.	9339.9

Zoom In Zoom Out

Sample Name: F95316-1 Acquired: 7/30/2012 17:47:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0764	-.0013	.0344	.0000	.4614	-.0001	.0006	-.0004	-.0014
Stddev	.0001	.0035	.0005	.0001	.000	.0036	.0000	.0001	.0001	.0002
%RSD	24.38	4.590	35.83	.3132	8.477	.7847	25.19	11.32	17.29	11.73
#1	-.0004	.0725	-.0013	.0344	.0000	.4573	-.0002	.0006	-.0005	-.0012
#2	-.0005	.0791	-.0008	.0342	.0000	.4639	-.0001	.0006	-.0004	-.0015
#3	-.0007	.0778	-.0017	.0344	.0000	.4631	-.0001	.0005	-.0003	-.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0030	.2904	1.270	.0308	.0000	9.529	.0004	.0003	.0005	-.0019
Stddev	.0008	.0138	.008	.0002	.0001	.029	.0001	.0003	.0005	.0013
%RSD	27.91	4.760	.6151	.7521	3297.	.3028	35.33	120.3	103.7	70.01
#1	-.0024	.2905	1.270	.0305	-.0001	9.496	.0004	.0001	.0001	-.0007
#2	-.0026	.2766	1.262	.0309	.0000	9.550	.0003	.0001	.0010	-.0017
#3	-.0039	.3042	1.277	.0310	.0001	9.540	.0006	.0006	.0003	-.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.242	-.0013	.0098	-.0001	-.0005	-.0002	.0011
Stddev	.006	.0010	.0001	.0000	.0005	.0002	.0000
%RSD	.1480	79.47	.6912	26.51	94.38	102.1	4.289
#1	4.248	-.0019	.0098	-.0001	-.0010	-.0002	.0011
#2	4.242	-.0018	.0099	-.0001	-.0002	-.0004	.0010
#3	4.235	-.0001	.0099	-.0001	-.0002	.0000	.0010

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1806.5	3120.2	24541.	9342.9
Stddev	3.8	6.4	79.	24.8
%RSD	.21082	.20593	.32100	.26560
#1	1803.0	3113.3	24493.	9352.1
#2	1810.6	3121.3	24498.	9361.7
#3	1806.1	3125.9	24632.	9314.8

Zoom In Zoom Out

Sample Name: F95316-2 Acquired: 7/30/2012 17:51:41 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0044	-.0021	.0135	.0000	.3131	-.0002	-.0001	-.0001	.0002
Stddev	.0003	.0034	.0007	.0001	.000	.0009	.0001	.0001	.0002	.0001
%RSD	129.2	78.13	32.61	.7326	71.92	.2986	41.30	157.6	172.1	34.45
#1	.0001	.0022	-.0014	.0136	.0000	.3142	-.0002	-.0002	-.0002	.0002
#2	-.0003	.0083	-.0020	.0135	.0000	.3124	-.0002	.0000	-.0002	.0002
#3	-.0005	.0026	-.0028	.0134	-.0001	.3128	-.0001	-.0001	.0001	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0006	.2412	.3068	.0031	.0000	4.490	.0002	-.0003	.0007	-.0010
Stddev	.0005	.0090	.0177	.0000	.000	.016	.0002	.0007	.0009	.0010
%RSD	98.96	3.721	5.757	.2526	937.7	.3606	77.79	208.8	140.8	102.8
#1	-.0005	.2383	.3224	.0031	.0000	4.482	.0004	-.0012	.0005	-.0016
#2	-.0011	.2340	.3103	.0031	-.0002	4.509	.0003	.0001	-.0002	.0002
#3	.0000	.2512	.2877	.0031	.0001	4.481	.0000	.0000	.0016	-.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.001	-.0016	.0044	-.0001	.0004	-.0002	.0020
Stddev	.008	.0001	.0000	.0000	.0002	.0002	.0000
%RSD	.1942	5.647	.1024	23.14	54.39	63.85	1.980
#1	4.005	-.0015	.0044	-.0001	.0002	-.0001	.0021
#2	3.992	-.0016	.0044	-.0002	.0006	-.0003	.0020
#3	4.006	-.0017	.0044	-.0001	.0003	-.0003	.0020

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1836.1	3113.8	24548.	9334.9
Stddev	3.8	6.7	87.	80.2
%RSD	.20669	.21635	.35482	.85936
#1	1832.6	3110.4	24463.	9244.5
#2	1840.1	3121.5	24545.	9397.6
#3	1835.4	3109.3	24637.	9362.6

Zoom In Zoom Out

Sample Name: F95372-3 Acquired: 7/30/2012 17:56:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	1.649	.0009	.1280	.0000	121.4	-.0004	.0006	.0016	.0259
Stddev	.0001	.009	.0002	.0006	.000	.5	.0001	.0001	.0002	.0001
%RSD	11.52	.5292	16.98	.4894	124.6	.3799	15.35	13.96	10.38	.4669
#1	-.0008	1.645	.0010	.1275	-.0001	121.4	-.0004	.0005	.0015	.0258
#2	-.0009	1.644	.0009	.1287	.0000	121.0	-.0003	.0007	.0016	.0258
#3	-.0007	1.660	.0008	.1280	.0000	121.9	-.0004	.0005	.0018	.0260

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.308	1.235	17.86	.6664	.0013	19.93	.0061	.0183	.0009	-.0023
Stddev	.003	.021	.05	.0026	.0001	.05	.0002	.0002	.0009	.0009
%RSD	.0915	1.688	.2615	.3937	11.03	.2383	3.764	1.360	99.21	37.19
#1	3.305	1.242	17.89	.6657	.0013	19.88	.0060	.0181	.0017	-.0014
#2	3.311	1.212	17.89	.6693	.0014	19.94	.0060	.0182	.0000	-.0023
#3	3.307	1.252	17.81	.6641	.0011	19.97	.0064	.0186	.0008	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.25	-.0012	.3913	.0300	.0007	.0016	.3990
Stddev	.02	.0003	.0010	.0032	.0014	.0002	.0011
%RSD	.1903	22.86	.2615	10.68	200.2	13.31	.2743
#1	12.25	-.0009	.3903	.0336	.0023	.0018	.3979
#2	12.22	-.0012	.3923	.0288	-.0004	.0015	.3990
#3	12.27	-.0014	.3913	.0276	.0003	.0014	.4001

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1599.0	2926.1	23231.	9081.3
Stddev	4.1	7.1	72.	22.7
%RSD	.25934	.24301	.30842	.24952
#1	1594.4	2919.6	23169.	9055.2
#2	1602.5	2933.7	23214.	9093.4
#3	1600.2	2924.9	23310.	9095.5

Zoom In Zoom Out

Sample Name: MP23325-MB2A Acquired: 7/30/2012 18:00:37 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	-.0026	-.0015	.0000	-.0001	.0223	-.0002	-.0002	-.0004	-.0015
Stddev	.0001	.0022	.0005	.000	.0000	.0005	.0000	.0001	.0001	.0002
%RSD	18.09	86.14	31.33	150.3	9.921	2.098	22.64	60.16	29.74	10.65
#1	-.0004	-.0006	-.0010	.0000	-.0001	.0221	-.0002	-.0002	-.0003	-.0013
#2	-.0005	-.0050	-.0018	.0000	-.0001	.0229	-.0002	-.0003	-.0005	-.0015
#3	-.0005	-.0022	-.0018	-.0001	-.0001	.0220	-.0002	-.0001	-.0004	-.0017

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0016	-.0046	.0031	.0003	.0001	.1208	-.0001	-.0004	.0004	-.0025
Stddev	.0002	.0161	.0117	.0000	.0001	.0041	.0002	.0003	.0006	.0009
%RSD	14.45	350.5	371.4	12.86	196.9	3.420	197.4	67.25	137.3	36.22
#1	-.0016	.0136	.0067	.0003	.0000	.1234	.0001	-.0004	-.0002	-.0032
#2	-.0019	-.0170	.0127	.0003	.0002	.1230	-.0002	-.0001	.0005	-.0015
#3	-.0014	-.0103	-.0099	.0004	.0000	.1160	-.0003	-.0007	.0009	-.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0049	-.0015	-.0001	-.0003	-.0003	.0000	.0176
Stddev	.0002	.0016	.0000	.0000	.0008	.000	.0001
%RSD	3.885	104.4	27.33	8.058	277.9	516.8	.7011
#1	.0050	.0003	-.0001	-.0003	-.0006	.0001	.0175
#2	.0049	-.0026	-.0001	-.0003	.0006	-.0003	.0175
#3	.0047	-.0023	-.0001	-.0003	-.0009	.0001	.0177

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1854.1	3104.1	24674.	9161.8
Stddev	3.2	8.1	75.	24.9
%RSD	.17461	.26243	.30265	.27148
#1	1850.9	3095.8	24594.	9188.9
#2	1854.1	3112.1	24686.	9156.7
#3	1857.4	3104.4	24742.	9139.9

Zoom In Zoom Out

Sample Name: F95356-1 Acquired: 7/30/2012 18:05:07 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0047	468.1	.1144	.6596	.0249	294.4	.0007	.0391	.4354
Stddev	.0023	1.4	.0022	.0008	.0002	1.6	.0003	.0002	.0015
%RSD	48.04	.2923	1.919	.1161	.9754	.5504	41.67	.5140	.3378
#1	-.0060	468.5	.1119	.6604	.0247	292.5	.0008	.0389	.4352
#2	-.0060	469.2	.1160	.6595	.0251	295.2	.0009	.0393	.4369
#3	-.0021	466.5	.1153	.6589	.0248	295.4	.0004	.0391	.4340

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1901	132.7	9.884	35.49	2.424	.0436	F525.0	.1455	.4493
Stddev	.0014	.4	.100	.07	.003	.0004	1.7	.0004	.0048
%RSD	.7477	.3010	1.009	.2020	.1021	.8968	.3207	.2967	1.069
#1	.1885	132.3	9.996	35.58	2.422	.0439	524.8	.1457	.4533
#2	.1904	132.9	9.849	35.45	2.427	.0437	523.4	.1457	.4507
#3	.1913	132.9	9.806	35.46	2.424	.0431	526.7	.1450	.4440

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0046	-.0010	203.3	.0010	3.567	.1290	-.0104	.2244	.6597
Stddev	.0016	.0089	.4	.0005	.004	.0004	.0055	.0007	.0012
%RSD	34.04	892.9	.1835	53.96	.1082	.2974	52.99	.2966	.1881
#1	.0062	-.0102	202.9	.0016	3.569	.1286	-.0046	.2245	.6589
#2	.0045	-.0005	203.5	.0009	3.568	.1293	-.0112	.2237	.6611
#3	.0031	.0077	203.6	.0005	3.562	.1292	-.0155	.2250	.6590

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1536.9	3436.1	26964.	10504.
Stddev	3.5	4.0	24.	32.
%RSD	.22515	.11778	.09041	.30935
#1	1534.0	3440.8	26992.	10540.
#2	1536.1	3433.3	26953.	10477.
#3	1540.7	3434.3	26947.	10495.

Zoom In Zoom Out

Sample Name: MP23326-MB1 Acquired: 7/30/2012 18:09:35 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0187	-.0017	.0000	-.0002	.0262	-.0002	-.0001	.0003	-.0008
Stddev	.0004	.0023	.0006	.000	.0000	.0012	.0000	.0001	.0003	.0002
%RSD	74.07	12.47	35.29	907.7	10.57	4.464	19.65	43.35	75.22	25.97
#1	-.0006	.0214	-.0014	.0000	-.0002	.0260	-.0002	-.0001	.0000	-.0010
#2	-.0001	.0173	-.0024	.0000	-.0001	.0252	-.0002	-.0002	.0005	-.0007
#3	-.0010	.0174	-.0013	.0000	-.0002	.0275	-.0002	-.0002	.0005	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460	-.0019	.0069	.0005	.0004	.1558	.0005	-.0005	.0019	-.0019
Stddev	.0037	.0051	.0058	.0000	.0000	.0054	.0001	.0005	.0012	.0012
%RSD	7.993	262.5	83.63	2.321	9.558	3.435	23.29	102.2	66.13	63.42
#1	.0502	.0016	.0037	.0005	.0005	.1618	.0005	-.0011	.0013	-.0024
#2	.0439	-.0078	.0135	.0005	.0004	.1539	.0004	-.0003	.0033	-.0005
#3	.0438	.0004	.0035	.0005	.0004	.1516	.0006	-.0001	.0010	-.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0357	.0060	.0000	.0009	-.0009	-.0001	.0020
Stddev	.0031	.0004	.0000	.0001	.0010	.0000	.0001
%RSD	8.599	6.099	170.3	9.356	104.4	38.70	2.842
#1	.0393	.0064	.0000	.0008	.0002	-.0001	.0021
#2	.0338	.0059	.0000	.0009	-.0015	-.0002	.0019
#3	.0341	.0058	.0000	.0008	-.0015	-.0001	.0020
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP23326-MB1 Acquired: 7/30/2012 18:09:35 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.2	3090.7	23268.	8946.8
Stddev	21.7	33.6	1077.	10.3
%RSD	1.1890	1.0872	4.6289	.11528
#1	1830.2	3095.1	24510.	8943.3
#2	1847.4	3121.9	22694.	8958.4
#3	1804.2	3055.1	22599.	8938.7

Zoom In Zoom Out

Sample Name: MP23326-B1 Acquired: 7/30/2012 18:14:04 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476	29.81	2.043	2.269	.0550	25.46	.0536	.5552	.2202	.2611
Stddev	.0004	.03	.009	.002	.0002	.22	.0002	.0012	.0011	.0009
%RSD	.8453	.0916	.4282	.0654	.3448	.8779	.3318	.2114	.4866	.3324
#1	.0473	29.78	2.053	2.270	.0549	25.33	.0537	.5566	.2212	.2607
#2	.0476	29.83	2.039	2.267	.0549	25.33	.0536	.5546	.2191	.2605
#3	.0481	29.83	2.037	2.270	.0552	25.72	.0534	.5545	.2202	.2621
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.17	26.70	24.16	.5521	.5586	26.84	.5490	.4730	.5262	2.083
Stddev	.16	.04	.22	.0017	.0010	.04	.0017	.0022	.0011	.009
%RSD	.6031	.1593	.8978	.3048	.1788	.1368	.3078	.4569	.2106	.4428
#1	27.08	26.67	23.97	.5525	.5597	26.80	.5509	.4708	.5273	2.093
#2	27.08	26.69	24.10	.5502	.5577	26.88	.5476	.4751	.5261	2.081
#3	27.36	26.75	24.40	.5535	.5585	26.83	.5486	.4731	.5251	2.074
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313	.4990	.5380	.5276	1.931	.5318	.5277
Stddev	.0013	.0013	.0006	.0006	.004	.0015	.0004
%RSD	4.150	.2512	.1067	.1168	.2085	.2818	.0831
#1	.0317	.4976	.5381	.5281	1.927	.5323	.5276
#2	.0323	.5001	.5385	.5269	1.931	.5301	.5273
#3	.0298	.4992	.5374	.5278	1.935	.5329	.5281
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP23326-B1 Acquired: 7/30/2012 18:14:04 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.0	2920.4	22907.	8694.2
Stddev	6.2	19.5	88.	23.9
%RSD	.38674	.66698	.38415	.27489
#1	1584.8	2898.0	22806.	8701.9
#2	1595.6	2930.8	22969.	8713.4
#3	1595.4	2932.6	22946.	8667.4

Zoom In Zoom Out

Sample Name: F95354-1 Acquired: 7/30/2012 18:18:14 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	4.316	.0094	.0714	.0001	259.1	.0007	.0047	.0230	.0612
Stddev	.0004	.010	.0004	.0001	.0000	.2	.0000	.0001	.0001	.0001
%RSD	118.4	.2257	3.791	.1479	13.20	.0794	5.866	1.349	.4071	.1740
#1	-.0003	4.312	.0096	.0713	.0001	259.3	.0007	.0048	.0230	.0613
#2	.0000	4.327	.0090	.0715	.0002	258.9	.0007	.0047	.0231	.0612
#3	-.0007	4.309	.0097	.0715	.0001	259.0	.0007	.0047	.0229	.0611

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.96	1.539	2.171	.2034	.0035	1.864	.1317	.0669	.0014	-.0031
Stddev	.01	.013	.027	.0002	.0001	.009	.0008	.0013	.0004	.0015
%RSD	.1128	.8563	1.249	.0921	2.330	.5057	.6348	1.874	29.17	47.37
#1	12.98	1.544	2.148	.2033	.0035	1.871	.1320	.0655	.0018	-.0039
#2	12.95	1.548	2.166	.2036	.0035	1.867	.1307	.0671	.0010	-.0014
#3	12.96	1.524	2.201	.2033	.0034	1.853	.1323	.0680	.0013	-.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.341	.0058	.9591	.5262	-.0006	.3046	.1703
Stddev	.023	.0005	.0013	.0012	.0004	.0006	.0000
%RSD	.3685	7.967	.1393	.2232	64.63	.1830	.0083
#1	6.364	.0061	.9598	.5256	-.0007	.3051	.1703
#2	6.317	.0059	.9599	.5275	-.0002	.3046	.1703
#3	6.341	.0052	.9575	.5254	-.0009	.3040	.1703

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1531.2	2871.5	22605.	8644.6
Stddev	6.6	17.9	70.	40.3
%RSD	.42899	.62165	.30909	.46664
#1	1525.2	2851.3	22568.	8598.2
#2	1538.2	2885.0	22562.	8664.4
#3	1530.1	2878.3	22686.	8671.1

Zoom In Zoom Out

Sample Name: MP23326-D1 Acquired: 7/30/2012 18:22:43 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	2.718	.0045	.0397	.0000	74.56	.0005	.0035	.0151	.0365
Stddev	.0003	.005	.0004	.0003	.000	.27	.0001	.0002	.0002	.0003
%RSD	82.07	.2006	9.637	.6677	711.1	.3593	10.38	4.917	1.063	.9572
#1	-.0006	2.715	.0040	.0399	.0000	74.25	.0005	.0034	.0149	.0365
#2	.0000	2.724	.0045	.0394	.0000	74.69	.0006	.0034	.0152	.0368
#3	-.0007	2.715	.0049	.0399	.0000	74.74	.0005	.0037	.0152	.0361

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.361	1.065	1.338	.1375	.0024	.7473	.1057	.0461	.0021	-.0020
Stddev	.010	.008	.023	.0005	.0001	.0013	.0004	.0007	.0006	.0012
%RSD	.1210	.7737	1.735	.3312	2.944	.1774	.4050	1.557	27.87	58.51
#1	8.349	1.074	1.312	.1370	.0025	.7482	.1053	.0460	.0026	-.0032
#2	8.364	1.057	1.356	.1378	.0024	.7479	.1057	.0455	.0014	-.0019
#3	8.368	1.064	1.346	.1378	.0024	.7458	.1062	.0469	.0022	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.828	.0062	.3409	.4372	-.0011	.2131	.1097
Stddev	.006	.0009	.0011	.0012	.0013	.0010	.0004
%RSD	.1486	14.57	.3350	.2804	119.7	.4541	.3426
#1	3.828	.0066	.3420	.4360	-.0026	.2127	.1094
#2	3.822	.0051	.3410	.4384	-.0005	.2142	.1097
#3	3.834	.0067	.3398	.4373	-.0002	.2123	.1101

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1665.8	2985.6	23634.	8817.8
Stddev	5.4	11.7	79.	4.1
%RSD	.32531	.39138	.33304	.04683
#1	1660.0	2972.1	23619.	8813.2
#2	1666.6	2993.1	23564.	8819.0
#3	1670.8	2991.5	23719.	8821.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 18:27:02 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	42.25	2.027	2.075	2.015	39.04	2.067	2.105	2.032	1.909
Stddev	.0003	.04	.008	.005	.003	.06	.004	.007	.006	.005
%RSD	.1272	.0850	.3752	.2206	.1581	.1447	.1926	.3121	.2820	.2413
#1	.2481	42.25	2.020	2.074	2.015	39.09	2.069	2.104	2.034	1.906
#2	.2475	42.29	2.025	2.080	2.018	38.98	2.063	2.099	2.025	1.907
#3	.2477	42.22	2.035	2.071	2.012	39.05	2.070	2.112	2.036	1.914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.86	40.67	37.95	2.043	2.120	40.74	2.039	1.930	2.037	2.065
Stddev	.02	.11	.04	.005	.008	.08	.008	.003	.006	.016
%RSD	.0421	.2681	.1168	.2395	.3566	.1983	.3774	.1563	.3079	.7833
#1	38.86	40.78	37.93	2.045	2.116	40.75	2.040	1.933	2.034	2.061
#2	38.88	40.68	38.00	2.037	2.116	40.82	2.031	1.927	2.034	2.051
#3	38.84	40.56	37.93	2.046	2.129	40.66	2.047	1.930	2.045	2.082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050	1.913	2.027	2.000	1.938	2.007	2.008
Stddev	.009	.001	.004	.004	.001	.006	.007
%RSD	.4191	.0614	.2148	.1917	.0236	.2768	.3340
#1	2.044	1.914	2.024	1.998	1.938	2.012	2.015
#2	2.045	1.913	2.032	1.997	1.938	2.001	2.002
#3	2.060	1.911	2.024	2.004	1.939	2.007	2.006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 18:27:02 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1582.3	3014.8	23991.	8983.9
Stddev	2.9	13.8	61.	20.0
%RSD	.18054	.45891	.25236	.22290
#1	1583.1	3021.0	24005.	8962.7
#2	1584.6	3024.5	24044.	8986.4
#3	1579.1	2999.0	23925.	9002.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 18:31:18 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0061	-.0005	.0003	.0002	.0064	.0001	.0002	.0000
Stddev	.0003	.0036	.0006	.0000	.0000	.0004	.0000	.0001	.000
%RSD	39.35	58.74	110.3	5.477	5.834	6.718	13.41	59.89	568.8
#1	-.0009	.0048	-.0009	.0003	.0002	.0066	.0001	.0003	-.0001
#2	-.0009	.0033	-.0008	.0003	.0002	.0066	.0001	.0001	.0000
#3	-.0004	.0101	.0001	.0003	.0002	.0059	.0001	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0229	-.0210	.0127	.0002	F.0010	.0496	.0000	.0001
Stddev	.0000	.0050	.0245	.0144	.0000	.0003	.0035	.000	.0003
%RSD	9.261	21.90	116.5	113.0	13.59	27.76	7.008	188.6	219.0
#1	-.0004	.0280	.0072	.0060	.0002	.0013	.0464	.0000	-.0001
#2	-.0004	.0225	-.0344	.0292	.0002	.0010	.0490	.0000	.0005
#3	-.0005	.0180	-.0359	.0030	.0003	.0008	.0533	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0016	.0018	.0008	.0003	.0015	.0010	.0001	.0002
Stddev	.0007	.0012	.0005	.0008	.0000	.0002	.0008	.0001	.0000
%RSD	50.95	71.98	29.51	103.9	10.83	11.07	85.98	96.05	13.84
#1	.0011	-.0021	.0023	.0003	.0003	.0017	.0015	.0000	.0002
#2	.0021	-.0025	.0013	.0017	.0002	.0014	.0013	.0001	.0003
#3	.0008	-.0003	.0018	.0004	.0003	.0013	.0000	.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 18:31:18 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1901.8	3159.9	25132.	9114.7
Stddev	2.1	5.7	53.	32.0
%RSD	.11150	.18175	.20961	.35088
#1	1904.1	3155.3	25156.	9082.6
#2	1901.4	3166.3	25168.	9115.0
#3	1900.0	3158.1	25072.	9146.6

Zoom In Zoom Out

Sample Name: MP23326-SD1 Acquired: 7/30/2012 18:35:47 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0031	4.430	.0098	.0729	-.0003	273.4	.0000	.0042	.0241	.0605
Stddev	.0007	.018	.0043	.0001	.0001	.5	.0001	.0002	.0008	.0002
%RSD	21.20	.4073	44.46	.1890	40.60	.1847	3197.	4.474	3.435	.3933
#1	-.0027	4.415	.0048	.0730	-.0004	272.8	.0001	.0043	.0235	.0603
#2	-.0039	4.427	.0131	.0728	-.0004	273.8	-.0001	.0040	.0238	.0607
#3	-.0028	4.450	.0114	.0728	-.0002	273.5	.0000	.0042	.0251	.0605

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	13.35	1.702	2.512	.2099	.0035	2.605	.1410	.0716	.0044	-.0127
Stddev	.03	.035	.092	.0015	.0004	.018	.0013	.0016	.0030	.0077
%RSD	.2170	2.029	3.668	.7325	10.55	.6821	.9539	2.248	68.10	60.76
#1	13.38	1.667	2.409	.2082	.0034	2.621	.1405	.0711	.0053	-.0051
#2	13.34	1.702	2.587	.2103	.0039	2.608	.1426	.0704	.0069	-.0205
#3	13.33	1.736	2.540	.2111	.0032	2.586	.1400	.0734	.0011	-.0126

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.622	.0057	.9828	.5347	.0046	.3087	.1872
Stddev	.007	.0019	.0027	.0013	.0069	.0010	.0008
%RSD	.1081	32.64	.2759	.2472	150.2	.3231	.4086
#1	6.620	.0076	.9859	.5337	.0063	.3075	.1876
#2	6.630	.0056	.9807	.5343	.0104	.3091	.1863
#3	6.616	.0039	.9818	.5362	-.0030	.3094	.1876

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1748.0	3052.4	24419.	9083.2
Stddev	2.7	4.8	41.	28.7
%RSD	.15249	.15789	.16731	.31604
#1	1745.1	3049.3	24445.	9055.6
#2	1748.6	3050.0	24441.	9080.9
#3	1750.3	3058.0	24372.	9112.9

Zoom In Zoom Out

Sample Name: MP23326-PS1 Acquired: 7/30/2012 18:40:10 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0502	7.011	.1146	.3355	.0547	255.9	.0548	.0596	.0765	.1606
Stddev	.0007	.020	.0005	.0001	.0002	3.2	.0002	.0002	.0006	.0005
%RSD	1.358	.2893	.4392	.0154	.3842	1.252	.3944	.3816	.8209	.2891
#1	.0498	7.000	.1152	.3355	.0545	252.8	.0546	.0595	.0765	.1601
#2	.0510	7.000	.1144	.3354	.0547	255.6	.0549	.0595	.0758	.1609
#3	.0499	7.035	.1143	.3355	.0549	259.2	.0550	.0599	.0770	.1609

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.63	12.40	6.744	.2471	.1145	12.62	.2326	.1141	.1069	.1047
Stddev	.08	.05	.065	.0006	.0000	.01	.0007	.0004	.0007	.0013
%RSD	.5371	.3682	.9681	.2411	.0306	.0851	.3151	.3553	.6154	1.264
#1	15.56	12.44	6.671	.2477	.1146	12.63	.2320	.1137	.1063	.1041
#2	15.59	12.40	6.796	.2465	.1145	12.61	.2325	.1142	.1076	.1038
#3	15.72	12.35	6.765	.2471	.1145	12.62	.2334	.1145	.1068	.1062

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.187	.0500	.9761	.6064	.0962	.3444	.4564
Stddev	.009	.0009	.0013	.0007	.0015	.0007	.0025
%RSD	.1420	1.879	.1378	.1121	1.565	.2109	.5519
#1	6.179	.0492	.9777	.6070	.0967	.3439	.4562
#2	6.186	.0496	.9753	.6057	.0973	.3452	.4539
#3	6.197	.0510	.9754	.6065	.0944	.3441	.4589

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1522.3	2875.9	22958.	8674.1
Stddev	2.3	7.3	48.	39.0
%RSD	.15284	.25331	.20962	.44956
#1	1519.6	2873.5	22912.	8712.1
#2	1523.8	2870.2	22953.	8676.1
#3	1523.5	2884.1	23008.	8634.2

Zoom In Zoom Out

Sample Name: MP23326-S1 Acquired: 7/30/2012 18:44:36 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0466	32.96	1.963	2.193	.0524	102.3	.0518	.5318	.2271	.2993
Stddev	.0002	.04	.003	.002	.0001	.0	.0002	.0010	.0010	.0009
%RSD	.4100	.1283	.1400	.0886	.1075	.0320	.4149	.1890	.4619	.2903
#1	.0464	33.01	1.962	2.192	.0524	102.4	.0516	.5314	.2276	.2996
#2	.0466	32.93	1.966	2.195	.0523	102.4	.0518	.5310	.2259	.2983
#3	.0468	32.94	1.961	2.191	.0524	102.3	.0520	.5329	.2277	.2999

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.20	26.91	24.47	.7325	.5226	25.70	.6425	.5200	.4890	2.023
Stddev	.03	.06	.07	.0020	.0007	.03	.0031	.0008	.0032	.007
%RSD	.0701	.2184	.2885	.2684	.1244	.0989	.4807	.1634	.6490	.3589
#1	37.20	26.86	24.55	.7312	.5218	25.71	.6390	.5190	.4877	2.017
#2	37.23	26.98	24.46	.7317	.5230	25.72	.6448	.5205	.4867	2.021
#3	37.18	26.89	24.41	.7348	.5229	25.67	.6436	.5206	.4926	2.031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.719	.4492	.8240	.9414	1.852	.7471	.6414
Stddev	.007	.0031	.0019	.0015	.003	.0006	.0012
%RSD	.1114	.6940	.2366	.1646	.1629	.0760	.1847
#1	6.712	.4457	.8249	.9422	1.849	.7477	.6403
#2	6.727	.4504	.8253	.9396	1.851	.7466	.6412
#3	6.719	.4516	.8218	.9423	1.855	.7471	.6426

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1552.2	2915.9	23119.	8700.9
Stddev	1.9	6.2	52.	38.6
%RSD	.12333	.21114	.22636	.44356
#1	1550.0	2910.2	23059.	8656.4
#2	1553.4	2915.0	23147.	8721.2
#3	1553.1	2922.4	23151.	8725.1

Zoom In Zoom Out

Sample Name: MP23326-S2 Acquired: 7/30/2012 18:48:44 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0511	34.88	2.106	2.342	.0563	70.92	.0573	.5753	.2636	.3672
Stddev	.0002	.07	.005	.017	.0003	.72	.0002	.0011	.0017	.0006
%RSD	.3158	.2015	.2266	.7396	.5888	1.021	.3203	.1840	.6390	.1601
#1	.0509	34.92	2.109	2.357	.0560	70.12	.0573	.5748	.2619	.3670
#2	.0512	34.80	2.100	2.323	.0561	71.13	.0571	.5745	.2653	.3679
#3	.0511	34.93	2.109	2.347	.0567	71.52	.0574	.5765	.2636	.3667

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.96	28.08	25.49	.8021	.5745	28.10	.8818	.8504	.5244	2.159
Stddev	.35	.12	.32	.0050	.0001	.14	.0019	.0017	.0025	.009
%RSD	.6531	.4435	1.267	.6173	.0132	.5117	.2153	.2053	.4680	.4236
#1	52.59	28.17	25.13	.7967	.5745	28.21	.8811	.8484	.5254	2.161
#2	53.02	27.94	25.61	.8064	.5744	27.94	.8804	.8508	.5263	2.149
#3	53.28	28.14	25.74	.8031	.5746	28.16	.8840	.8518	.5216	2.168

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.320	.5068	.7325	.7621	1.973	1.524	.7993
Stddev	.011	.0029	.0032	.0034	.002	.005	.0033
%RSD	.2034	.5643	.4391	.4407	.1122	.3579	.4086
#1	5.324	.5093	.7351	.7584	1.973	1.519	.7963
#2	5.308	.5037	.7289	.7649	1.971	1.529	.7987
#3	5.329	.5074	.7334	.7630	1.975	1.523	.8028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1565.0	2924.4	23284.	8787.0
Stddev	4.9	11.3	79.	49.9
%RSD	.31603	.38590	.34130	.56810
#1	1560.0	2912.2	23294.	8844.7
#2	1565.0	2926.4	23200.	8759.2
#3	1569.9	2934.6	23357.	8757.2

Zoom In Zoom Out

Sample Name: F95354-2 Acquired: 7/30/2012 18:52:54 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	2.882	.0104	1.106	.0001	245.3	.0024	.0027	.0322	.0348
Stddev	.0002	.018	.0008	.001	.0000	1.4	.0000	.0001	.0003	.0001
%RSD	101.1	.6160	7.586	.1259	46.99	.5851	.6942	4.288	1.065	.3610
#1	.0000	2.867	.0111	1.105	.0000	243.6	.0025	.0027	.0319	.0349
#2	-.0002	2.901	.0105	1.107	.0001	246.0	.0024	.0027	.0323	.0348
#3	-.0005	2.877	.0096	1.105	.0000	246.2	.0024	.0025	.0326	.0347

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.83	.4593	2.134	.1692	.0052	.5628	.0407	.1362	.0019	-.0018
Stddev	.05	.0225	.029	.0006	.0001	.0031	.0004	.0002	.0007	.0015
%RSD	.4553	4.897	1.383	.3772	1.227	.5514	1.020	.1794	35.81	87.24
#1	11.76	.4669	2.107	.1689	.0052	.5664	.0402	.1362	.0011	-.0004
#2	11.85	.4771	2.129	.1699	.0052	.5611	.0410	.1360	.0024	-.0014
#3	11.87	.4340	2.165	.1688	.0051	.5610	.0408	.1365	.0022	-.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.399	.0080	.5080	.3869	.0005	.1344	1.180
Stddev	.003	.0009	.0006	.0006	.0006	.0001	.001
%RSD	.0969	10.98	.1098	.1474	119.9	.0512	.0408
#1	3.402	.0077	.5080	.3867	.0010	.1343	1.180
#2	3.395	.0090	.5085	.3865	.0007	.1343	1.180
#3	3.399	.0074	.5074	.3876	-.0002	.1345	1.179

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1546.6	2859.0	22932.	8591.2
Stddev	6.9	9.2	70.	22.0
%RSD	.44676	.32239	.30656	.25575
#1	1538.9	2849.1	22862.	8607.2
#2	1548.9	2860.6	22931.	8566.2
#3	1552.2	2867.3	23002.	8600.3

Zoom In Zoom Out

Sample Name: F95354-3 Acquired: 7/30/2012 18:57:23 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	28.23	.0609	2.134	.0016	399.9	.0114	.0104	.2247
Stddev	.0003	.10	.0013	.012	.0001	1.7	.0001	.0000	.0006
%RSD	78.26	.3468	2.119	.5694	4.492	.4330	.9110	.4582	.2854
#1	-.0001	28.13	.0624	2.124	.0015	397.9	.0115	.0103	.2241
#2	-.0003	28.24	.0602	2.130	.0016	401.0	.0113	.0104	.2247
#3	-.0008	28.32	.0602	2.147	.0016	400.8	.0114	.0104	.2253

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2000	55.28	1.554	4.566	1.096	.0056	2.162	.0295	1.548
Stddev	.0009	.21	.017	.022	.004	.0003	.009	.0002	.006
%RSD	.4315	.3772	1.083	.4754	.3658	4.610	.3985	.7645	.4230
#1	.2004	55.04	1.539	4.543	1.093	.0058	2.164	.0298	1.551
#2	.2007	55.44	1.550	4.570	1.101	.0057	2.153	.0294	1.541
#3	.1991	55.35	1.572	4.585	1.095	.0053	2.170	.0295	1.553

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0039	-.0022	21.14	.0130	1.934	.5310	-.0014	.0768	F7.539
Stddev	.0002	.0013	.04	.0002	.017	.0005	.0009	.0003	.011
%RSD	4.973	61.87	.2077	1.401	.8870	.0988	61.64	.4515	.1414
#1	.0040	-.0006	21.11	.0131	1.952	.5309	-.0020	.0772	7.550
#2	.0040	-.0030	21.19	.0131	1.934	.5315	-.0004	.0766	7.529
#3	.0037	-.0029	21.11	.0128	1.917	.5305	-.0019	.0767	7.537

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1474.3	3070.7	24397.	9303.4
Stddev	1.4	8.5	38.	23.9
%RSD	.09174	.27647	.15626	.25684
#1	1472.7	3068.2	24432.	9302.2
#2	1475.0	3063.7	24357.	9280.2
#3	1475.1	3080.1	24403.	9327.9

Zoom In Zoom Out

Sample Name: F95354-4 Acquired: 7/30/2012 19:01:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0141	42.64	.1013	.4148	.0026	F738.3	.0003	.0341	.1687
Stddev	.0004	.09	.0013	.0006	.0000	5.1	.0001	.0001	.0001
%RSD	2.976	.2171	1.322	.1394	1.105	.6924	19.39	.2610	.0423
#1	.0137	42.74	.1007	.4153	.0026	733.5	.0002	.0342	.1686
#2	.0145	42.63	.1004	.4149	.0026	737.9	.0002	.0341	.1687
#3	.0142	42.56	.1029	.4142	.0027	743.7	.0003	.0340	.1687

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2295	24.86	1.437	10.21	1.232	.0061	3.345	1.799	.3063
Stddev	.0005	.05	.022	.08	.001	.0000	.016	.002	.0032
%RSD	.2247	.2002	1.532	.7650	.0812	.2930	.4890	.0960	1.037
#1	.2298	24.87	1.460	10.19	1.232	.0061	3.359	1.797	.3048
#2	.2297	24.81	1.416	10.15	1.231	.0061	3.349	1.798	.3100
#3	.2289	24.91	1.437	10.30	1.233	.0061	3.327	1.800	.3042

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0028	-.0018	21.33	.0047	2.953	.5449	-.0001	F7.737	.6445
Stddev	.0005	.0014	.07	.0003	.017	.0004	.0015	.001	.0008
%RSD	17.24	79.33	.3218	7.046	.5746	.0811	1290.	.0128	.1267
#1	.0022	-.0002	21.29	.0047	2.964	.5451	-.0016	7.737	.6437
#2	.0031	-.0030	21.30	.0043	2.934	.5453	.0000	7.738	.6453
#3	.0031	-.0021	21.41	.0050	2.961	.5445	.0013	7.736	.6444

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1353.6	3218.5	25583.	9946.8
Stddev	.7	10.2	56.	30.5
%RSD	.05484	.31808	.21994	.30619
#1	1352.9	3218.2	25568.	9911.8
#2	1353.5	3228.9	25536.	9967.4
#3	1354.4	3208.5	25645.	9961.1

Zoom In Zoom Out

Sample Name: F95354-5 Acquired: 7/30/2012 19:06:32 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	24.42	.0112	.1538	.0020	F814.3	-.0012	.0090	.0455
Stddev	.0003	.05	.0004	.0003	.0000	11.1	.0000	.0000	.0005
%RSD	36.84	.1899	3.238	.2019	.7784	1.359	2.349	.3805	1.140
#1	-.0013	24.38	.0115	.1537	.0020	802.0	-.0012	.0090	.0456
#2	-.0008	24.42	.0108	.1541	.0020	823.3	-.0012	.0090	.0459
#3	-.0007	24.47	.0112	.1535	.0020	817.6	-.0012	.0091	.0449

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0336	25.58	1.062	5.037	.1910	.0037	8.951	.0619	.1314
Stddev	.0002	.23	.012	.086	.0009	.0003	.040	.0006	.0015
%RSD	.4597	.8994	1.090	1.712	.4668	8.424	.4440	.8937	1.123
#1	.0337	25.31	1.066	4.938	.1920	.0034	8.993	.0613	.1304
#2	.0337	25.72	1.071	5.089	.1908	.0040	8.914	.0624	.1308
#3	.0334	25.70	1.049	5.085	.1903	.0038	8.948	.0618	.1331

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0013	21.52	.0049	3.573	.3231	.0007	.1771	1.716
Stddev	.0010	.0035	.06	.0003	.023	.0011	.0005	.0007	.001
%RSD	249.4	267.8	.2817	6.887	.6378	.3516	65.81	.3670	.0758
#1	-.0004	-.0051	21.53	.0051	3.585	.3239	.0011	.1769	1.716
#2	.0015	-.0007	21.58	.0052	3.587	.3218	.0002	.1779	1.715
#3	.0001	.0018	21.46	.0045	3.546	.3236	.0007	.1766	1.717

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1348.8	3002.6	23868.	9284.2
Stddev	3.5	15.5	114.	88.7
%RSD	.25693	.51566	.47753	.95564
#1	1346.0	2995.3	23737.	9366.2
#2	1347.8	2992.1	23923.	9190.0
#3	1352.7	3020.3	23944.	9296.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 7/30/2012 19:11:09 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0089	.2173	.0099	.2109	.0052	1.040	.0058	.0574	.0107	.0232
Stddev	.0004	.0035	.0003	.0009	.0000	.011	.0000	.0002	.0002	.0002
%RSD	4.887	1.621	2.706	.4168	.5661	1.045	.4370	.3186	1.481	.7043
#1	.0085	.2161	.0099	.2103	.0052	1.034	.0058	.0573	.0106	.0231
#2	.0087	.2213	.0102	.2119	.0052	1.052	.0058	.0576	.0106	.0232
#3	.0094	.2146	.0097	.2105	.0051	1.033	.0058	.0574	.0108	.0234

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3198	10.41	4.858	.0163	.0538	10.43	.0443	.0049	.0063	.0089
Stddev	.0035	.05	.026	.0001	.0003	.03	.0002	.0004	.0003	.0007
%RSD	1.088	.5126	.5321	.6246	.5838	.3061	.4744	7.831	4.808	7.661
#1	.3220	10.42	4.845	.0162	.0535	10.47	.0441	.0052	.0063	.0095
#2	.3216	10.46	4.888	.0163	.0540	10.43	.0445	.0044	.0067	.0082
#3	.3157	10.36	4.842	.0164	.0540	10.40	.0444	.0050	.0061	.0090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0108	.0495	.0103	.0099	.0114	.0507	.0225
Stddev	.0008	.0003	.0000	.0001	.0002	.0004	.0001
%RSD	7.013	.7065	.3096	.8618	2.009	.7068	.2508
#1	.0112	.0491	.0103	.0098	.0117	.0507	.0225
#2	.0113	.0495	.0103	.0100	.0115	.0503	.0226
#3	.0099	.0498	.0103	.0100	.0112	.0510	.0226

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1824.4	3139.3	25165.	9099.1
Stddev	2.4	2.5	57.	46.3
%RSD	.13313	.08119	.22496	.50838
#1	1823.3	3141.7	25203.	9112.7
#2	1822.7	3136.7	25192.	9047.6
#3	1827.2	3139.5	25100.	9137.1

Zoom In Zoom Out

Sample Name: ICSA Acquired: 7/30/2012 19:15:35 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	F526.2	.0009	.0058	-.0002	454.8	.0026	-.0002	-.0006
Stddev	.0003	7.5	.0012	.0001	.0000	3.3	.0001	.0002	.0003
%RSD	185.7	1.431	142.2	1.245	11.70	.7257	2.169	73.71	55.85
#1	-.0002	520.6	-.0004	.0058	-.0002	451.0	.0026	.0000	-.0004
#2	.0002	523.3	.0020	.0058	-.0001	456.3	.0026	-.0002	-.0005
#3	-.0005	534.8	.0009	.0059	-.0002	457.0	.0027	-.0004	-.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0017	177.0	-.0172	479.0	.0000	.0005	.1500	-.0004	.0083
Stddev	.0002	.5	.0159	2.6	.0001	.0004	.0021	.0001	.0024
%RSD	14.07	.2815	92.29	.5478	211.1	79.15	1.402	29.73	28.46
#1	.0018	176.4	-.0297	476.6	.0000	.0001	.1480	-.0003	.0106
#2	.0018	177.3	.0007	478.6	.0000	.0009	.1522	-.0004	.0083
#3	.0014	177.3	-.0228	481.8	.0001	.0005	.1499	-.0005	.0059

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0037	-.0008	.0064	-.0007	.0056	-.0040	.0017	.0005	.0001
Stddev	.0026	.0008	.0004	.0018	.0001	.0001	.0008	.0002	.0003
%RSD	70.27	107.3	5.747	236.4	1.592	1.385	47.94	48.90	291.5
#1	.0007	.0001	.0064	-.0026	.0057	-.0040	.0026	.0002	.0004
#2	.0052	-.0009	.0068	.0009	.0055	-.0041	.0014	.0007	.0002
#3	.0052	-.0015	.0061	-.0006	.0056	-.0039	.0010	.0005	-.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1349.8	2698.5	21420.	8455.7
Stddev	1.7	5.1	59.	35.5
%RSD	.12293	.18983	.27753	.41972
#1	1348.6	2694.4	21365.	8496.7
#2	1349.1	2696.8	21483.	8435.4
#3	1351.7	2704.2	21413.	8435.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507	42.52	2.032	2.048	1.997	38.52	2.083	2.125	2.027	1.880
Stddev	.0020	.15	.004	.006	.007	.09	.004	.004	.012	.006
%RSD	.8154	.3530	.1930	.2754	.3526	.2259	.1687	.2008	.5921	.3226
#1	.2510	42.34	2.036	2.041	1.989	38.43	2.087	2.129	2.020	1.874
#2	.2526	42.61	2.031	2.050	2.001	38.53	2.081	2.124	2.041	1.879
#3	.2485	42.60	2.028	2.052	2.001	38.60	2.080	2.121	2.021	1.886
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.53	40.52	37.26	2.024	2.140	40.79	2.046	1.927	2.038	2.074
Stddev	.14	.14	.23	.013	.004	.13	.002	.004	.004	.005
%RSD	.3729	.3407	.6091	.6253	.1620	.3276	.1158	.1900	.1900	.2342
#1	38.37	40.38	37.05	2.016	2.144	40.69	2.047	1.924	2.042	2.079
#2	38.65	40.65	37.23	2.039	2.139	40.94	2.046	1.926	2.036	2.070
#3	38.59	40.53	37.50	2.018	2.137	40.75	2.043	1.931	2.035	2.073
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.055	1.891	2.016	1.982	1.931	1.990	2.019
Stddev	.004	.009	.018	.007	.009	.008	.004
%RSD	.1950	.4731	.8833	.3594	.4904	.4244	.1908
#1	2.060	1.901	2.017	1.974	1.923	1.983	2.023
#2	2.053	1.886	1.997	1.988	1.929	1.999	2.016
#3	2.053	1.886	2.033	1.983	1.941	1.986	2.018
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:20:12 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1580.4	2992.7	23957.	8930.0
Stddev	2.3	7.0	50.	22.9
%RSD	.14299	.23337	.21046	.25669
#1	1582.0	2985.3	24003.	8956.3
#2	1581.4	2993.7	23903.	8914.5
#3	1577.8	2999.1	23965.	8919.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:24:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0022	-.0001	.0001	.0000	.0097	-.0002	-.0001	.0001
Stddev	.0002	.0059	.0003	.0001	.000	.0023	.0001	.0001	.0004
%RSD	29.04	273.0	568.2	132.1	62.55	24.20	32.15	90.74	293.8
#1	-.0009	.0030	.0002	.0002	.0000	.0101	-.0002	.0000	.0005
#2	-.0006	.0076	-.0004	.0001	-.0001	.0118	-.0001	.0000	.0000
#3	-.0005	-.0041	.0000	.0000	-.0001	.0072	-.0001	-.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0186	-.0116	-.0027	F.0010	.0008	.0146	-.0003	.0005
Stddev	.0002	.0037	.0065	.0225	.0001	.0002	.0044	.0000	.0009
%RSD	19.56	20.05	55.49	847.3	8.373	28.88	30.20	9.771	193.5
#1	-.0008	.0228	-.0064	-.0142	.0011	.0010	.0162	-.0004	.0014
#2	-.0007	.0176	-.0188	.0233	.0010	.0009	.0179	-.0004	-.0004
#3	-.0011	.0155	-.0096	-.0171	.0009	.0006	.0096	-.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010				
Low Limit					-.0010				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0015	.0015	F.0024	.0000	.0006	.0005	-.0001	.0016
Stddev	.0007	.0008	.0006	.0003	.000	.0001	.0008	.0003	.0001
%RSD	46.98	51.92	40.71	10.86	685.2	21.02	153.9	440.2	4.756
#1	.0013	-.0007	.0017	.0026	.0000	.0007	.0000	.0000	.0016
#2	.0021	-.0023	.0019	.0021	.0000	.0008	.0001	.0002	.0017
#3	.0008	-.0014	.0008	.0025	.0000	.0005	.0014	-.0003	.0015
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:24:28 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.2	3146.4	25201.	9033.9
Stddev	5.6	2.5	73.	14.2
%RSD	.29484	.08038	.28839	.15736
#1	1902.3	3146.4	25279.	9030.1
#2	1913.4	3149.0	25135.	9021.9
#3	1909.0	3143.9	25190.	9049.6

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 7/30/2012 19:28:59 Type: Unk
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.084	F532.6	1.037	.5423	.4985	449.6	.9628	.4938	.5139
Stddev	.004	5.7	.003	.0010	.0009	2.4	.0005	.0009	.0023
%RSD	.4168	1.070	.2411	.1914	.1802	.5245	.0506	.1809	.4556
#1	1.086	532.6	1.036	.5434	.4980	447.5	.9626	.4937	.5138
#2	1.079	526.9	1.040	.5424	.4981	449.1	.9633	.4930	.5116
#3	1.087	538.3	1.035	.5413	.4996	452.1	.9623	.4947	.5163

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5360	180.9	-.0092	483.0	.5008	1.024	.1154	.9244	.9173
Stddev	.0011	.4	.0137	1.5	.0028	.003	.0062	.0010	.0032
%RSD	.2055	.2154	148.7	.3141	.5602	.2516	5.388	.1107	.3519
#1	.5373	180.6	-.0217	481.7	.5000	1.025	.1091	.9256	.9199
#2	.5352	180.7	.0055	482.8	.4985	1.026	.1156	.9238	.9137
#3	.5356	181.3	-.0116	484.7	.5040	1.021	.1216	.9238	.9183

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.043	1.050	.0023	.7884	1.015	1.011	.8997	.4851	.9241
Stddev	.004	.004	.0013	.0018	.002	.004	.0030	.0019	.0016
%RSD	.3720	.3380	55.69	.2245	.1824	.4005	.3384	.3952	.1691
#1	1.039	1.054	.0037	.7903	1.015	1.011	.8980	.4857	.9255
#2	1.047	1.047	.0021	.7882	1.016	1.007	.8978	.4829	.9244
#3	1.042	1.050	.0011	.7868	1.013	1.015	.9032	.4866	.9224

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1332.9	2683.8	21298.	8375.1
Stddev	2.9	2.7	42.	20.7
%RSD	.21485	.10217	.19581	.24704
#1	1330.3	2681.0	21277.	8372.2
#2	1336.0	2683.8	21346.	8397.1
#3	1332.6	2686.5	21270.	8356.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:33:24 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2522	43.10	2.048	2.058	2.013	38.84	2.103	2.153	2.043	1.878
Stddev	.0008	.04	.005	.004	.007	.19	.001	.003	.004	.007
%RSD	.3160	.1008	.2454	.1778	.3556	.5003	.0473	.1180	.2194	.3913
#1	.2529	43.08	2.047	2.055	2.007	38.65	2.105	2.150	2.039	1.870
#2	.2513	43.07	2.053	2.062	2.012	38.83	2.103	2.154	2.042	1.877
#3	.2524	43.15	2.044	2.058	2.021	39.04	2.103	2.155	2.048	1.885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.01	40.73	37.53	2.036	2.170	41.04	2.061	1.936	2.050	2.097
Stddev	.20	.06	.35	.010	.004	.10	.002	.004	.006	.002
%RSD	.5215	.1388	.9446	.4982	.1704	.2442	.0912	.2024	.3054	.0707
#1	38.84	40.73	37.18	2.032	2.166	41.06	2.059	1.936	2.043	2.095
#2	38.94	40.78	37.51	2.029	2.172	41.12	2.061	1.932	2.056	2.098
#3	39.23	40.67	37.89	2.048	2.172	40.93	2.063	1.940	2.049	2.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.066	1.887	2.023	1.989	1.940	1.995	2.034
Stddev	.003	.002	.023	.006	.002	.005	.001
%RSD	.1631	.0963	1.136	.3031	.1015	.2556	.0247
#1	2.062	1.886	2.040	1.988	1.938	1.992	2.034
#2	2.068	1.889	1.997	1.983	1.939	1.993	2.033
#3	2.068	1.886	2.032	1.995	1.942	2.001	2.034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 7/30/2012 19:33:24 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1570.8	2959.2	23825.	8797.4
Stddev	2.0	2.0	76.	44.3
%RSD	.12628	.06591	.31740	.50320
#1	1572.0	2960.3	23891.	8839.6
#2	1571.9	2957.0	23840.	8801.2
#3	1568.5	2960.4	23742.	8751.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:37:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0096	.0010	.0002	.0000	.0123	-.0001	-.0001	-.0002
Stddev	.0001	.0028	.0011	.0000	.0000	.0004	.0000	.0001	.0000
%RSD	17.06	28.75	105.4	20.62	178.8	3.473	25.35	206.9	22.85
#1	-.0005	.0119	.0008	.0002	.0000	.0124	-.0001	.0001	-.0002
#2	-.0006	.0104	.0001	.0001	.0001	.0118	-.0001	.0000	-.0002
#3	-.0007	.0065	.0023	.0002	.0000	.0126	-.0001	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0221	-.0019	.0162	F.0011	F.0011	.0031	-.0002	.0001
Stddev	.0002	.0040	.0092	.0151	.0001	.0002	.0023	.0001	.0001
%RSD	25.75	18.21	484.3	93.41	6.296	21.65	75.54	31.58	235.9
#1	-.0008	.0254	-.0071	-.0009	.0011	.0012	.0057	-.0002	-.0001
#2	-.0011	.0232	-.0074	.0280	.0011	.0012	.0025	-.0002	.0002
#3	-.0007	.0176	.0088	.0215	.0012	.0008	.0011	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010	.0010			
Low Limit					-.0010	-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0009	.0013	F.0021	.0001	.0009	.0016	.0002	.0016
Stddev	.0008	.0006	.0003	.0013	.0000	.0000	.0012	.0003	.0000
%RSD	64.90	74.95	23.58	63.20	17.58	5.194	73.85	129.5	2.495
#1	.0021	-.0003	.0016	.0015	.0001	.0009	.0023	.0004	.0016
#2	.0006	-.0016	.0010	.0035	.0001	.0009	.0002	.0003	.0016
#3	.0010	-.0007	.0012	.0012	.0001	.0009	.0022	-.0001	.0016
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 7/30/2012 19:37:42 Type: QC
Method: 60102007_042011(v158) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1913.4	3146.2	25054.	8951.5
Stddev	5.7	5.4	107.	36.7
%RSD	.29846	.17040	.42709	.40945
#1	1907.4	3140.1	25145.	8973.7
#2	1918.8	3150.0	24936.	8971.7
#3	1913.9	3148.6	25081.	8909.2

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.007608	0.000000	No
			Fe	0.000007	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000085	0.000000	No
			Cr	-0.000129	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 313.042 {108}	☒	2	V	0.000042	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000144	0.000000	No
			Ca	0.000002	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	2	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000004	0.000000	No
			Fe	-0.000004	0.000000	No
			Ca	0.000002	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000097	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000268	0.000000	No
			Al	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000011	0.000000	No
			Mg	0.000003	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000010	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000036	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000002	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	-0.000078	0.000000	No
			Fe	0.000020	0.000000	No
			Mo	-0.001466	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000240	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000020	0.000000	No
			Cr	0.006369	0.000000	No
			Mo	-0.002569	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	-0.000010	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	☒	12	Fe	-0.000046	0.000000	No
			Ca	0.000005	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000029	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000002	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000003	0.000000	No
Ti 334.941 {101}	☒	None				
Tl 190.856 {477}	☒	10	Co	0.003248	0.000000	No
			Fe	0.000041	0.000000	No
			Al	-0.000016	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000002	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000004	0.000000	No
			Cr	-0.001960	0.000000	No
			Mo	-0.004535	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000003	0.000000	No
			As	0.001105	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000265	0.506761	0.000000	1.000000
Al 396.152 { 85}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.004249	0.151790	0.000000	1.000000
As 189.042 {478}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000945	0.202618	0.000000	1.000000
Ba 455.403 { 74}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.003597	9.064078	0.000000	1.000000
Be 313.042 {108}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.000870	9.914741	0.000000	1.000000
Ca 317.933 {106}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.003133	0.226183	0.000000	1.000000
Cd 226.502 {449}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000916	4.212406	0.000000	1.000000
Co 228.616 {447}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000848	2.219680	0.000000	1.000000
Cr 267.716 {126}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000022	0.471335	0.000000	1.000000
Cu 324.754 {104}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.005640	0.994700	0.000000	1.000000
Fe 259.940 {130}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	0.002882	0.183734	0.000000	1.000000
In 230.606 {446}*	4/20/2011 9:03:12	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000589	0.065388	0.000000	1.000000
Mg 279.079 {121}	7/30/2012 7:41:22	7/30/2012 7:41:22	Linear	1/Conc	-0.000060	0.022839	0.000000	1.000000
Mn 257.610 {131}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000363	2.977943	0.000000	1.000000
Mo 202.030 {467}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.001000	1.287890	0.000000	1.000000
Na 589.592 { 57}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.005775	0.262634	0.000000	1.000000
Ni 231.604 {445}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000317	1.375922	0.000000	1.000000
Pb 220.353 {453}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001235	0.778464	0.000000	1.000000
Sb 206.833 {463}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000341	0.300716	0.000000	1.000000
Se 196.090 {472}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.000312	0.140782	0.000000	1.000000
Si 212.412 {459}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.006635	0.328143	0.000000	1.000000
Sn 189.989 {477}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.000044	0.209569	0.000000	1.000000
Sr 407.771 { 83}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001567	15.128708	0.000000	1.000000
Ti 334.941 {101}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.002327	2.147318	0.000000	1.000000
Tl 190.856 {477}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.001409	0.359812	0.000000	1.000000
V 292.402 {115}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	-0.000341	0.676203	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	7/30/2012 7:41:23	7/30/2012 7:41:23	Linear	1/Conc	0.002316	1.920636	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999930	0.000057	0.000454	0.001512	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999962	0.002126	0.005130	0.017099	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999964	0.000138	0.000920	0.003066	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999964	0.006189	0.000106	0.000352	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999890	0.011845	0.000037	0.000123	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999915	0.004737	0.001806	0.006021	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999901	0.004795	0.000063	0.000209	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999890	0.002659	0.000127	0.000423	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999906	0.000521	0.000311	0.001038	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999987	0.000408	0.000218	0.000727	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999791	0.006048	0.001265	0.004215	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999963	0.000903	0.019359	0.064529	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999968	0.000294	0.012701	0.042338	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999857	0.004055	0.000045	0.000150	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999979	0.000669	0.000145	0.000484	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999975	0.002988	0.004928	0.016427	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999837	0.002002	0.000207	0.000690	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999945	0.000657	0.000612	0.002041	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999986	0.000128	0.000947	0.003158	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999991	0.000048	0.001924	0.006412	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.999959	0.000245	0.000608	0.002026	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999889	0.000252	0.000753	0.002508	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999897	0.017490	0.000042	0.000139	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999981	0.001065	0.000103	0.000345	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999999	0.000050	0.000988	0.003293	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999653	0.001426	0.000267	0.000891	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999931	0.001812	0.000102	0.000338	OK.	1.000000	0.000000	1	0

Accutest Laboratories SE Metals Digestion Log Soil D.O.D.

MP #: 23311

Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 07/26/12 17:15

HotBlock I.D. 6

Thermometer I.D. 315

Correction Factor (°C) 0

Temperature Observed/Corrected (°C) 95 / 95

Balance I.D. ADVPRO 3

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC731	0.50	20
ACC736	0.25	20
Met 4334	0.25	20

Filter Lot#: 12022 8002

Dig. Tube Lot# 120425

Added B:

	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	115132	412065	L06071	F523-2D011

Sample #			Wt., g	Final Volume(ml)	Comments
Method Blank(MB)			1.00	50	
Spike Blank(SB)			1.00		
Matrix Spike(MS)			1.09		
Matrix Spike Dup(MSD)			1.23		
Duplicate(DUP)			1.12		
1 QC C	F95217-1	D 8	1.11		
2	2	8	1.16		
3	3	8	1.38		
4	4	8	1.22		
5	5	8	1.39		
6	6	8	1.05		
7	F95274-1	8	1.19		
8	2	8	1.39		
9	3	8	1.02		
10	4	8	1.25		
11	5	8	1.02		
12	6	8	1.43		
13					
14					
15					
16					
17					
18					
19					
20					
21 E					
22 E					
23 E					
24 E					

N.O. 07/26/12

Analyst: Nicholas Orth Date: 07/26/12

QC Review: [signature] Date: 7/27/12

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

tcpsoildigestionlog012010.xls Rev 01/20/10 DM

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TCLP

Accutest Laboratories SE Metals Digestion Log Water

Method of digestion(circle one): SW846-3010A / SW846-3005A / EPA 200.7 / SM3030C

MP #: 23320

Prep Date/Time (mm/dd/yy 24:00): 7/30/12 8:00

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) 0

Temperature Observed/Corrected (°C) 94, 94

Volume

Spk. Sol. A	Used(ml)	Pipette #
ACC731	0.5	20
ACC736	0.25	20
Met4334	0.25	20

Dig. Tube Lot#: 1204125

Added B:

	HNO_3	HCL
Lot#	L12065	L06071

Sample #	Initial Volume(ml)	Final Volume(ml)	Comments
Method Blank(MB)	50ml	50ml	
Spike Blank(SB)	↓		
Matrix Spike(MS)	5ml		
Matrix Spike Dup(MSD)			
Duplicate(DUP)			
1 QC C F95305-1	N/A		
2 F95236-1			
3 F95274-7A			
4 F94949-17A			
5 18A			
6 19A			
7 20A			
8 22A			
9 23A			
10 F95186-1			
11 F95266-1			
12 2			
13 3			
14 4			
15 5			
16 6			
17 F95357-1			
18 D2 F95305-1			
19 MB2 7/28/12			
20 SB2 ↓			
21 E MB3 7/29/12			
22 E SB3 ↓			
23 E			
24 E			

NS 7/30/12

Analyst: Natasha Salazar Date: 7/30/12

QC Review: [illegible] Date: 7-30-12

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 103, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional matrix QC

icpwaterdigestionlog012010.xls Rev 01/20/10 DM

Accutest Laboratories SE Mercury Digestion Log

Method of Digestion: SW846-7470A (7471B) EPA 245.1 (circle one) MP # 23332

Matrix: Water / (Soil) / TCLPW / TCLPS / SPLP / Other (circle one)

Analyst: JamesL

Thermometer I.D.: 213

Date/Time started (mm/dd/yy 24:00) 07.31.12 / 1100

Correction Factor(°C): -1

Date/Time ended (mm/dd/yy 24:00) 07.31.12 / 1130

Temp Observed/Corrected(°C): 95 / 94

HotBlock I.D.: 7 Balance ID ADVPRO3 Pipette # Used: 8 Pipette # Used: 19

Filter Lot #: 120228002 Digestion Tube Lot #: 1204125 PTFE Chips Lot #: FS23-210011

Reagents:[A]

	HNO_3	HCL	H_2SO_4	$KMnO_4$	$K_2S_2O_8$	$SnCL_2$	$NaCl/NH_2OH$-HCL
Lot/Met#:	L12065	L06071	N/A	Met4338	N/A	MKBT-8100V	Met4329

Sample #		D	Wt., g	Init.Vol(ml)	Fin.Vol.(ml)	Comments
STD1 Cal. Blank			.60		50	
STD2 0.1ml [B]						
STD3 0.5ml [B]						
STD4 1.5ml [B]						
STD5 2.5ml [B]						
STD6 3.0ml [B]						
ICV 1.5ml [F]						
ICB						
CRI 0.1ml [B]						
CCV 1.5ml [B]						
CCB						
Method Blank			.60		50	
Blank Spk. 1.5ml [B]			.60			
Matrix Spk 1.5ml [B]			.62			
Mat. Spk.Dup 1.5ml [B]			.61			
Duplicate			.63			
1QC [C]	F95217-1	88	.65			DOD.
2	-2	88	.64			
3	-3	88	.62			
4	-4	88	.64			
5	-5	88	.62			
6	-6	88	.61			
7	F95274-1	88	.63			
8	-2	88	.62			
9	-3	88	.63			
10	-4	88	.62			
11	-5	88	.63			
12	-6	88	.61			
13	F95322-1	88	.66			
14	-2	88	.65			
15	-3	88	.63			
16	-4	88	.62			
17	-5	88	.64			
18	-6	88	.61			
19	-7	88	.66			
20	-8	88	.66			
21[E]						
22[E]						
23[E]						
24[E]						

JC 07.31.12

Analyst/Date James Jameano 07.31.12 QC Rev./Date 7.31.12

10ppm int. met# 4220 100ppb(curve,bs,ms,msd,cri,ccv)met# 4342

10ppm int. 2nd met# 4395 100ppb 2nd(ICV)met# 4306

A For reagent volumes used consult SOP MET 105 or MET 106, current revision
B Amount of 100 ppb standard added (100ppb standard prepared from 10ppm Intermediate).
C Parent sample used to prepare MS, MSD, DUP
D Bottle number
E Additional Matrix QC
F Amount of 100 ppb 2nd (ICV) standard added (100ppb 2nd (ICV) standard prepared from 10ppm Intermediate 2nd).

hgdigestionlog110110.xls Rev 11/01/10 SI

Accutest Laboratories SE Mercury Digestion Log

MP # 23340

Method of Digestion: SW846-7470A / 7471B / EPA 245.1 (circle one)

Matrix: Water / Soil / TCLPW / TCLPS / SPLP / Other (circle one)

Analyst: James L

Thermometer I.D.: 213

Correction Factor(°C): -1

Date/Time started (mm/dd/yy 24:00) 08.01.12 / 0930

Temp Observed/Corrected(°C): 95/94

Date/Time ended (mm/dd/yy/ 24:00) 08.01.12 / 1130

HotBlock I.D.: 7 Balance ID N/A Pipette # Used: 8 Pipette # Used: 19

Filter Lot #: 120228002 Digestion Tube Lot #: 1204125 PTFE Chips Lot #: ES23-20011

Reagents:[A]	HNO_3	HCL	H_2SO_4	$KMnO_4$	$K_2S_2O_8$	$SnCL_2$	$NaCl/NH_2OH$-HCL
Lot/Met#:	L12065	N/A	L09049	Met4338	Met4341	MKBT8100V	Met 4329

Sample #		Wt., g	Init.Vol(ml)	Fin.Vol.(ml)	Comments
STD1 Cal. Blank		See P6(86) for calibration. JC 07.08.01.12			
STD2 0.1ml [B]					
STD3 0.5ml [B]					
STD4 1.5ml [B]					
STD5 2.5ml [B]					
STD6 3.0ml [B]					
ICV 1.5ml [F]					
ICB					
CRI 0.1ml [B]					
CCV 1.5ml [B]					
CCB					
Method Blank			50	50	
Blank Spk. 1.5ml [B]			50		
Matrix Spk 1.5ml [B]			5		
Mat. Spk.Dup 1.5ml [B]					
Duplicate					
1QC [C] F95335-1	[D] N/A				
2 F95330-2A					
3 F95310-1					
4 F95274-7A					DOD
5 F95407-1					
6 MB2 (07.28.12).					
7 B2 (07.28.12).					
8 MB3 (07.31.12).					
9 B3 (07.31.12).					
10 D2 (F95310-1).					
11 MB4 (08.01.12).					
12 B4 (08.01.12).					
13		JC 08.01.12			
14					
15					
16					
17					
18					
19					
20					
21[E]					
22[E]					
23[E]					
24[E]					

Analyst/Date James Lawrence 08.01.12 QC Rev./Date [signature] 8.1.12

10ppm int. 1st met# 4220 100ppb(curve,bs,ms,msd,cri,ccv)met# 4342

10ppm int. 2nd met# 4395 100ppb 2nd(ICV)met# 4306

A For reagent volumes used consult SOP MET 105 or MET 106, current revision
B Amount of 100 ppb standard added (100ppb standard prepared from 10ppm intermediate).
C Parent sample used to prepare MS, MSD, DUP
D Bottle number
E Additional Matrix QC
F Amount of 100 ppb 2nd (ICV) standard added (100ppb 2nd (ICV) standard prepared from 10ppm intermediate 2nd).

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide Reactivity	GP19698/GN51012	1.5	0.0	mg/kg	50	0.0	0.0	0-100%
Sulfide Reactivity	GP19697/GN50977	50	0.0	mg/kg	537	215	40.0	0-100%

Associated Samples:
Batch GP19697: F95274-7
Batch GP19698: F95274-7
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F95274
Account: SEITXH - SHAW E & I
Project: Holloman AFB; NM

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Corrosivity as pH	GN50984	F95274-7	su	7.2	7.2		0-%
Cyanide Reactivity	GP19698/GN51012	F95274-7	mg/kg	1.8 U	0.0	0.0	0-30%
Ignitability (Flashpoint)	GN51163	F95274-7	Deg. F	>200	>200(a)	0.0	0-38%
Solids, Percent	GN50972	F95270-1	%	89.2	88.6	0.7	0-5%
Solids, Percent	GN50980	F95261-1	%	88.7	90	1.5	0-5%
Sulfide Reactivity	GP19697/GN50977	F95274-7	mg/kg	92 U	0.00	45.0(b)	0-30%

Associated Samples:
Batch GN50972: F95274-7
Batch GN50980: F95274-1, F95274-2, F95274-3, F95274-4, F95274-5, F95274-6
Batch GN50984: F95274-7
Batch GN51163: F95274-7
Batch GP19697: F95274-7
Batch GP19698: F95274-7
(*) Outside of QC limits
(a) Not ignitable
(b) RPD acceptable due to low duplicate and sample concentrations.

Percent Solids Raw Data Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: F95274-1 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC507-CS-0003-072512

Wet Weight (Total)	6.82	g
Tare Weight	.97	g
Dry Weight (Total)	5.82	g
Solids, Percent	82.9	%

Sample: F95274-2 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC507-CS-0004-072512

Wet Weight (Total)	6.56	g
Tare Weight	1.01	g
Dry Weight (Total)	5.69	g
Solids, Percent	84.3	%

Sample: F95274-3 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC507-CS-0005-072512

Wet Weight (Total)	7.67	g
Tare Weight	1.03	g
Dry Weight (Total)	6.59	g
Solids, Percent	83.7	%

Sample: F95274-4 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC507-CS-0006-072512

Wet Weight (Total)	7.05	g
Tare Weight	.97	g
Dry Weight (Total)	5.89	g
Solids, Percent	80.9	%

Sample: F95274-5 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC501-CS-0005-072512

Wet Weight (Total)	7.4	g
Tare Weight	.98	g
Dry Weight (Total)	6.87	g
Solids, Percent	91.7	%

Sample: F95274-6 **Analyzed:** 27-JUL-12 by LE **Method:** SM19 2540G
ClientID: USTC501-CS-0006-072512

Wet Weight (Total)	8.03	g
Tare Weight	.99	g
Dry Weight (Total)	6.85	g
Solids, Percent	83.2	%

Percent Solids Raw Data Summary

Job Number: F95274
Account: SEITXH SHAW E & I
Project: Holloman AFB; NM

Sample: F95274-7 **Analyzed:** 26-JUL-12 by LE **Method:** SM19 2540G
ClientID: OTC533-WC-0001-072512

Wet Weight (Total)	7.9	g
Tare Weight	1.09	g
Dry Weight (Total)	4.78	g
Solids, Percent	54.2	%

Southeast ACCUTEST LABORATORIES

General Chemistry

Raw Data

Reactive Sulfide (SO)

GP # 19697
GN # 50977

Method: SW846 CHAPTER 7.3
Rev 110310 SI

Analyst: LE
Date: 7/27/2012
Units: mg/kg

Iodine Lot# GN04480 Iodine Prep Date: 7/14/2012
NaS_2O_3 Lot# GC294IV Sulfide Spk.Lot# GN04550

QC sample ID: F95274-7.1
Original: 33.95
Dup: 21.57
RPD: 44.6 *

~~MS Prep Date:~~
~~Amt.Spk:~~
~~MS Result: #DIV/0!~~
~~% Rec: #DIV/0!~~
*07/27/12

SC Prep Date: 7/26/2012
Amt. Spk: 537
Result: 540.000
% Rec: 100.6

SB Prep Date: 7/26/2012
Amt. Spk: 537
Result: 215.000
% Rec: 40.0

MB Prep Date: 7/26/2012
Result: 4.0
<MDL: y

* High RPD due to low results (under RL(92.3))
*07/27/12

Iodine Solution Normality:(I) 0.022 .01N H_2SO_4 GN04589
NaS_2O_3 Normality:(C) 0.025 2.5 N NaOH GN04552

Sulfide (mg/L)=((A*B)-(C*D))*16000/mLs of sample

	Sample I.D.	Titrated Sample Volume (mL)	Iodine Solution (mL) B	Titrant Used (mL) D	Sulfide mg/L	Initial Sample Weight (g)	Final Volume (mL)	%Solids	SREAC mg/kg	RL mg/kg
MB	Method Blank	200	3	2.6	0.08	10	500	100	4.00	50.0
SB	Spike Blank	200	10	6.65	4.30	10	500	100	215.00	50.0
QC	F95274-7.1	200	3	2.5	0.28	7.61	500	54.19	33.95	92.3
~~MS~~	~~Matrix Spike~~ *07/27/12				#DIV/0!				#DIV/0!	#DIV/0!
DUP	Duplicate	200	3	2.55	0.18	7.7	500	54.19	21.57	92.3
SC	Sulfide Check	200	10	3.4	10.80	10	500	100	540.00	50.0
2					#DIV/0!				#DIV/0!	#DIV/0!
3					#DIV/0!				#DIV/0!	#DIV/0!
4					#DIV/0!				#DIV/0!	#DIV/0!
5					#DIV/0!				#DIV/0!	#DIV/0!
6					#DIV/0!				#DIV/0!	#DIV/0!
7					#DIV/0!				#DIV/0!	#DIV/0!
8					#DIV/0!				#DIV/0!	#DIV/0!
9					#DIV/0!				#DIV/0!	#DIV/0!
10					#DIV/0!				#DIV/0!	#DIV/0!
11					#DIV/0!				#DIV/0!	#DIV/0!
12					#DIV/0!				#DIV/0!	#DIV/0!
13					#DIV/0!				#DIV/0!	#DIV/0!
14					#DIV/0!				#DIV/0!	#DIV/0!
15					#DIV/0!				#DIV/0!	#DIV/0!
16					#DIV/0!				#DIV/0!	#DIV/0!
17					#DIV/0!				#DIV/0!	#DIV/0!
18					#DIV/0!				#DIV/0!	#DIV/0!
19					#DIV/0!				#DIV/0!	#DIV/0!
20					#DIV/0!				#DIV/0!	#DIV/0!

SREAC (mg/L) = (Sulfide Conc x Final Vol) / (Initial Vol)

Analysts Signature and Date: 07/27/12

Reviewer Signature and Date: 7-31-12

17.1 17

Sulfide Reactivity Excel Benchsheet

Method: SW846 Chap.7.3.4
Rev. 0 4/29/03 DJM

GP 14697
GN 50977

Analyst:	JE
Date:	07/27/12
Units:	mg/kg
Matrix:	Soil

	Sample I.D.	Sample Volume (mL)	Iodine Solution (mL) B	Titrant Used (mL) D	
MB	Method Blank	200	3	2.60	% Soil
SB	Spike Blank	200	10	6.65	
QC	F15274-7.1	200	3	2.50	54.19
~~MS~~	~~Matrix Spike~~				
JE 07/27/12 DUP	Duplicate	200	3	2.55	54.19
SC	Sulfide Check	200	10	3.40	
1					
2					
3					
4					
5					
6					
7					
8					
9				JE 07/27/12	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

	Lot or GN #	Prep Date	
Iodine	GN 04440	07/14/12	
NaS_2O_3	GC 294 ~~IV~~	open 06/26/12	rec 10/04/11
Sulfide Spk.	GN 04550	07/23/12	
.01 N H_2SO_4	GN04589	07/26/12	
2.5 N NaOH	GN 04552	07/23/12	

Analysts Signature and Date: 07/27/12

17.1
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Reactivity Distillation Soil

Method: SW846 7.3

Date: 07/26/12 Start Time: 13:35 End Time: 15:35

GP 19697 (S)
GP 19698 (CN)

distill 30 min per sample

Sample ID.Bottle#	Initial Sample Vol(ml) / Wt(g)	Final Distil. Vol (ml)	CN Reac aliquot Vol(ml)	S Reac aliquot Vol (ml)	Comments
GP 19697 19698 -MB1(MB)	10	500	50	200	
GP -B1(BSP)	10	✓	✓	✓	
GP -D1(DUP)	7.70 g	✓	✓	✓	rocky, moist
GP -S1(MS)	JE 07/26/12				
GP -S2(MSD)					
QC F95 274-7.1	7.61 g	500	50	200	rocky, moist
2					
3					
4					
5		JE 07/26/12			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Analyst Signature: Date: 07/26/12

Rev 042604 ewp

Accutest SE

17.1

17

Corr. ~~pH~~ Analysis Log

Method: (circle) SW 846 9045 / SW 846 9040 / SM 4500 H+ B

GN# GN 50984

Matrix: (circle) Soil / Water

Thermometer Corr. Factor, C: N/A

Analysis Date (mm-dd-yy): 07-27-12 Time (24:00): 10:20

pH Meter ID#: 6169

Sample ID	Bottle #	Sample Wt / Vol.	Vol of DI H2O	pH	Sample Temp, corrected, C	Buffers	Comments
F95274-7 Dup	1	20.01	20	7.15	25° C	7.01 / 10.01	%RPD 0.697
F95274-7	1	20.02	20	7.20	25° C	7.01 / 10.01	
Dup*							%RPD

AC 07-27-12

* Second Duplicate for SM4500 only

Analyst's Signature: AC

Date (mm-dd-yy): 07-27-12

QC Reviewer Signature: KAW

Date (mm-dd-yy): 7-31-12

Rev 021610 SI

Accutest SE

3

Test Title: **CN Soils - Reactive**

Analyst: LaurieE
Prep Date: 7/26/2012
GP Batch: GP19698

SW846- 7.3.3
Analysis Date: 7/27/2012
GN Batch: GN51012

	Sample	Cyanide (mg/L)	Final Vol. (ml)	Sam. Wt (g)	Dilution	CREAC	Units	%Sol	DL	MDL
QC Section										
MB		0.00	500	10.0	1	**0.000**	mg/kg	100.0	1.50	0.75
BS		0.00	500	10.0	1	**0.000**	mg/kg	100.0	1.50	0.75
DUP1		0.00	500	7.70	1	**0.000**	mg/kg	54.2	3.59	1.80
QC1	F95274-7	0.00	500	7.61	1	**0.000**	mg/kg	54.2	3.64	1.82
Samp										
2			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
3			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
4			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
5			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
6			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
7			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
8			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
9			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
10			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
DUP2			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
QC2			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
12			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
13			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
14			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
15			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
16			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
17			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
18			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
19			500	10.0	1	**#DIV/0!**	mg/kg		#####	####
20			500	10.0	1	**#DIV/0!**	mg/kg		#####	####

QC Summary Report

1.0	MB Result	0		
	Blank Spike Result	0.000	REC =	0.0%
	Spike Amount	50		
	Dup 1 Result	0	RPD =	#DIV/0!
	QC 1 Result	0		
	Dup 2 Result	#DIV/0!	RPD =	#DIV/0!
	QC 2 Result	#DIV/0!		

Comments: _____

Analyst's Signature: _____ Date: _____

Reviewer's Signature: Robin Date: 8-13-12

Rev. 07/26/12 LM

Accutest SE

17.3 17

Test Title: CN - REACTIVE

Analyst: LaurieE
Prep Date: 07/26/12
GP Batch: GP19696

SW846 7.3.3
Analysis Date: 07/27/12
GN Batch: GN51012

Sample ID.	Bottle#	Cyanide (mg/l)	Final Vol. (ml)	Sam. Vol (ml)	Dilution	CREAC	Units	DL	MDL
QC Section									
MB		0.00	500	10.0	1	**0.00**	mg/l	1.50	0.75
BS		0.00	500	10.0	1	**0.00**	mg/l	1.50	0.75
DUP		0.00	500	10.0	1	**0.00**	mg/l	1.50	0.75
QC1	F95272-1	0.00	500	10.0	1	**0.00**	mg/l	1.50	0.75
Samples									
2			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
3			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
4			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
5			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
6			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
7			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
8			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
9			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
10			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
DUP2			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
QC2			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
12			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
13			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
14			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
15			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
16			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
17			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
18			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
19			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75
20			500	10.0	1	**#VALUE!**	mg/l	1.50	0.75

QC Summary Report

MB Result	0.000		
Blank Spike Result	0.000	REC =	0.0
Spike Amount	5.000		
Dup 1 Result	0.000	RPD =	#DIV/0!
QC 1 Result	0.000		
Dup 2 Result	#######	RPD =	#VALUE!
QC 2 Result	#######		

Comments:

Analyst's Signature: Date:

Reviewer's Signature: Date: 8-13-12

Rev. 07/26/12 LM

Accutest SE

17.3 17

Reactivity Distillation Soil

Method: SW846 7.3

Date: 07/26/12 Start Time: 13:35 End Time: 15:35

GP 19697 (S)
GP 19695 (CN)

Distill 30 min per sample

Sample ID.Bottle#	Initial Sample Vol(ml) / Wt(g)	Final Distil. Vol (ml)	CN Reac aliquot Vol(ml)	S Reac aliquot Vol (ml)	Comments
GP 19697 19698 -MB1(MB)	10	500	50	200	
GP -B1(BSP)	10	✓	✓	✓	
GP -D1(DUP)	7.70 g	✓	✓	✓	rocky, moist
GP -S1(MS)	JZ 7/26/12				
GP -S2(MSD)					
QC F95274-7.1	7.61 g	500	50	200	rocky, moist
2					
3					
4					
5		JZ 7/26/12			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Analyst Signature: [signature] Date: 07/26/12

Rev 042604 ewp

Accutest SE

17.3 17

Reactivity Distillation

Method: SW846 7.3

Date: 07/26/12 Start Time: 13:35 End Time: 14:35

GP 14695 (S)
GP 14696 CN

distill 30 min per sample

Sample ID.Bottle#	Initial Sample Vol(ml)/ Wt(g)	Final Distil. Vol (ml)	CN Reac aliquot Vol(ml)	S Reac aliquot Vol (ml)	Comments
GP 14695 14696 -MB1(MB)	10.0	500	50	200	
GP -B1(BSP)	10.0	✓	✓	✓	
GP -D1(DUP)	10.0	✓	✓	✓	
GP -S1(MS)	SE 07/26/12				
GP -S2(MSD)					
QC F95272-1.1	10.0	500	50	200	
2					
3					
4					
5					
6			SE 07/26/12		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Analyst Signature: [signature] Date: 07/26/12

Rev 042604 ewp

Accutest SE

17.3 17

CYANIDE ANALYSIS LOG

DATE:	07/27/12
ANALYST:	A. Rivera
INSTRUMENT	LACHAT 1
INST. FILE NAME:	0072712CN3.CSV
WAVELENGTH:	570 nm

METHODS:	EPA 335.4 SW846 9012B
METHOD FILE:	~~07/27/12~~ Cyanide
CALIB. DATE:	07/27/12
GN BATCH:	GN51012

STANDARDS	
ICAL:	LIST INDIVIDUALLY IN COMMENTS
ICV:	L003325
CCV:	L003324
QC:	—

Autosampler position	SAMPLE ID	DIL.	MATRIX	GP BATCH	COMMENTS
1	ICU	1X	S		
2	ICB				
3	CCU				
4	CCB GP19696				
5	MB1 / ~~GP19715~~			GP19696	
6	B1 / ~~GP~~ GP19696				
7	D1 / F95272-1				
8	QC / F95272-1				
9	MB2 / GP19698			GP19698	
10	B2 / GP19698				
11	D1 / F95274-7				
12	QC / F95274-7				
13	CCU				
14	CCB				

Notes: _____

Analyst Signature [signature] 07/27/12

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Rev 110310 SI

Accutest SE

ANGELR

PROPERTY OF ACCUTEST LABORATORIES SE

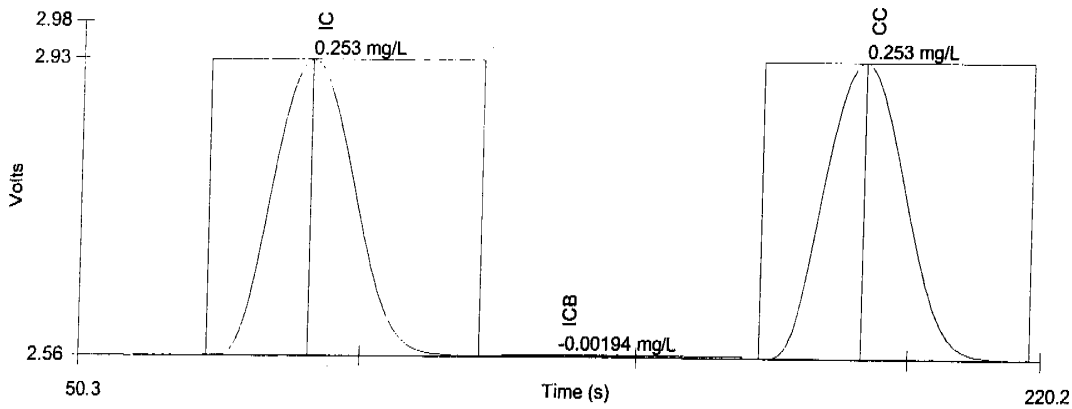
Date : 7/27/2012

Original Run Filename: OM_7-27-2012_04-48-54PM.OMN created 7/27/2012 4:48:54 PM
Original Run Author's Signature: [Chemistry]
Current Run Filename: OM_7-27-2012_04-48-54PM.OMN last modified 7/27/2012 5:02:03 PM
Current Run Author's Signature: [Chemistry]

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Channel 1 Cyanide Area (Vs)	MDF	Description
ICV	1	1	0.253	6.02		
ICB	1	2	-0.00194	0.0300		
		Calibration:	Table/Fig. 1			
CCV	1	3	0.253	6.01		
CCB	1	4	-0.00216	0.0248		
MB1 GP19696	1	5	-0.00202	0.0281		
B1 GP19696	1	6	-0.00152	0.0399		
D1/F95272-1	1	7	-0.00272	0.0117		
QC/F95272-1	1	8	-0.00310	0.00283		
MB2 GP19698	1	9	-0.00250	0.0168		
B2 GP19698	1	10	-0.00183	0.0325		
D1/F95274-7	1	11	-0.00158	0.0385		
QC/F95274-7	1	12	-0.00218	0.0245		
CCV	1	3	0.253	6.02		
CCB	1	4	-0.00242	0.0188		

Gpice 07/27/12

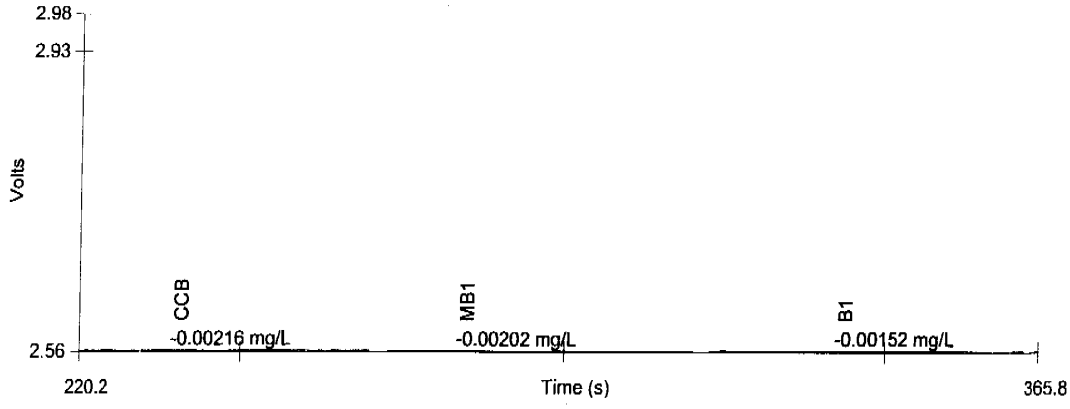
Channel 1 (Cyanide) : Set 1 of 5



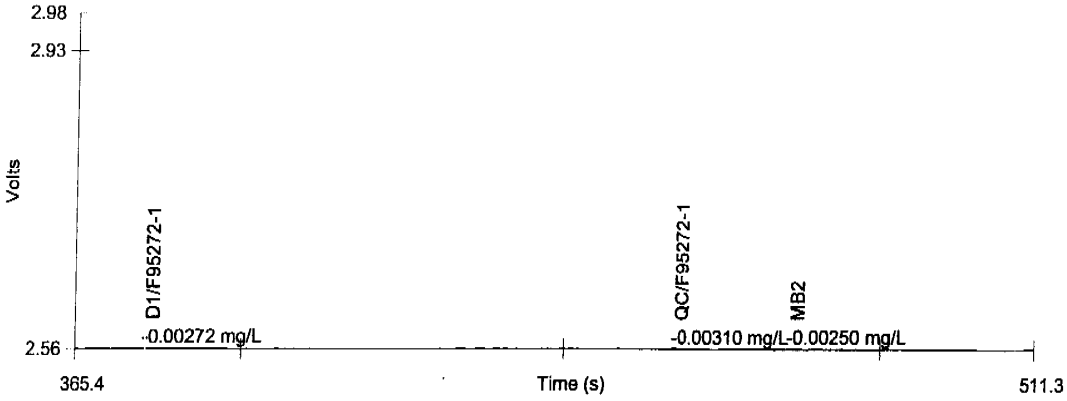
CYANIDE

ANGELR PROPERTY OF ACCUTEST LABORATORIES SE Date : 7/27/2012

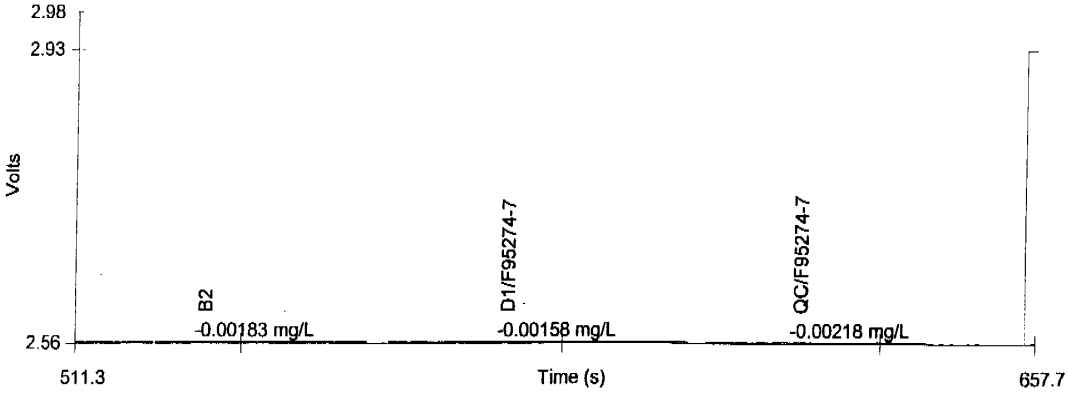
Channel 1 (Cyanide) : Set 2 of 5



Channel 1 (Cyanide) : Set 3 of 5



Channel 1 (Cyanide) : Set 4 of 5



ANGELR PROPERTY OF ACCUTEST LABORATORIES SE Date : 7/27/2012

Channel 1 (Cyanide) : Set 5 of 5

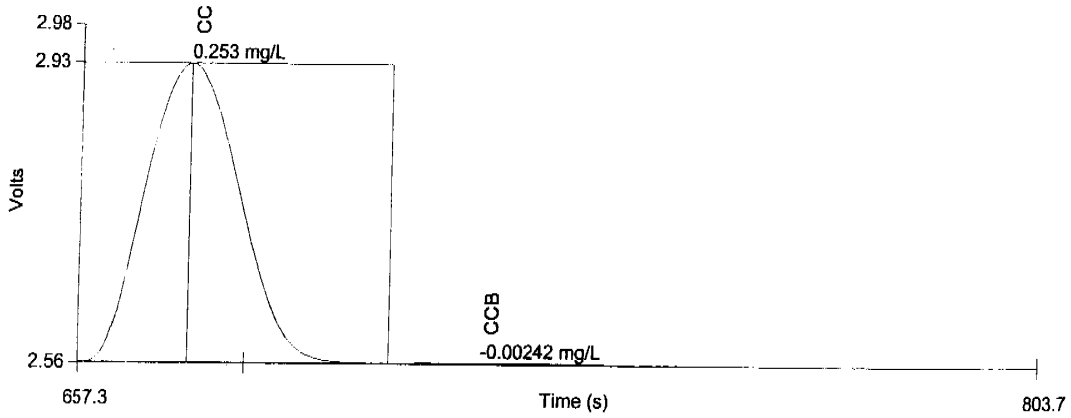
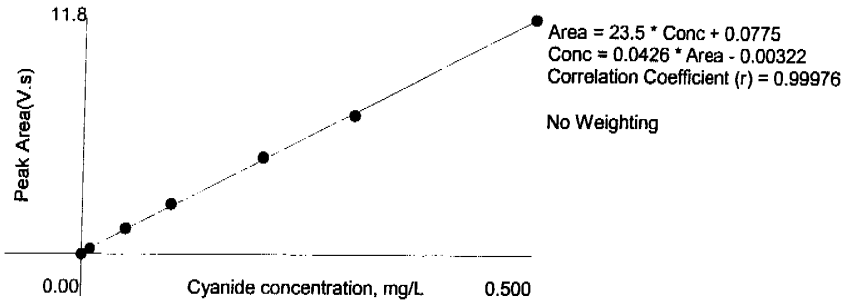


Table 1: Cyanide

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.500	1	11.8	0.693	-0.1	7/27/2012	2:28:26 PM
2	0.300	1	6.99	0.433	1.9	7/27/2012	2:27:35 PM
3	0.200	1	4.89	0.308	-2.3	7/27/2012	2:26:44 PM
4	0.100	1	2.53	0.162	-4.5	7/27/2012	2:25:53 PM
5	0.0500	1	1.28	0.0831	-2.7	7/27/2012	2:25:02 PM
6	0.0100	1	0.269	0.0171	13.9	7/27/2012	2:24:11 PM
7	0.00	1	-0.00938	-7.24e-4		7/27/2012	2:23:20 PM

Figure 1: Cyanide



IGNITABILITY (FLASHPOINT) LOG

METHOD: SW846 1010 Date (mm-dd-yy): 08-08-2012 Time (24:00): ~~10:17~~ 8:17 gme 08/08/12 GN# 51163

ANALYST 1: V.L. Thermometer ID: T.P. Therm. Corr. Factor, °F -0.8 °F

ANALYST 2: A. Rivera (1)p-xylene lot #: GC 3411 Expected results: 81± 4.3, or 76.7 - 85.3oF

Instrument ID: Koehler S/N 2070026898 (2)p-xylene lot #: GC 3421 Barometer ID 21245049

SAMPLE ID	Bottle #	MATRIX	READING, °F	TIME, (24:00)	Temp Corrected, °F	PRESSURE mmHg/mbar (circle one)	FINAL RESULTS*, °F	COMMENTS
Fisher p-Xylene #1	—	AQ	79.5	8:17	78.7	1012	78.75	CF = +0.05
BLK	—	SO	>200	8:31	>200		>200	
~~F.T. BLKED~~ p-Xylene #2	—	AQ	82.9	8:45	82.1		82.15	
BLK	—	SO	>200	8:58	>200		>200	
F95274-7 Dup	2	SO	>200	10:17	>200		>200	%RPD 0 not ign
BLK	—	SO	>200	10:32	>200		>200	
F95274-7	2	SO	>200	10:44	>200		>200	
BLK	—	SO	>200	11:01	>200		>200	
F95451-1	2	SO	>200	11:16	>200		>200	
F95451-2	3	SO	>200	11:32	>200		>200	
F95492-1	8	SO	>200	11:50	>200		>200	
F95492-2	6	SO	>200	12:14	>200		>200	
F95437-1	1	SO	94.4	13:10	93.6 ~~94.60~~		① ~~94.65~~ 93.65	gme 08/08/12
BLK	—	SO	>200	13:25	>200		>200	
F95437-1	1	SO	93.1	13:45	92.3 ~~93.15~~		① ~~93.15~~ 92.35	gme 08/08/12
BLK	—	SO	>200	13:59	>200		>200	

① gme 08/08/12

* For negative results use NOT IGN for soils and >200 F for waters
Corrected Results = observed temp + (0.06*(760-(P*760mmHg/1013mbarHg))), where P = barometric pressure in mb.
When pressure is in mmHg, equation becomes: observed temp + (0.06*(760-P)).

QC Review: [signature] Date (mm-dd-yy): 8-8-12

Comments: Second GC 11.3 = BLK V.L. 08-08-2012

Rev 021610 SI Accutest SE 4

IGNITABILITY (FLASHPOINT) LOG

METHOD: SW846 1010 Date (mm-dd-yy): 08/08/12 Time (24:00): 8:17 GN# _____

ANALYST 1: V.u Thermometer ID: IP Therm. Corr. Factor, °F GMC 8/08/12 + -0.8°F

ANALYST 2: A Rivera (1)p-xylene lot #: GC341 II Expected results: 81± 4.3, or 76.7 - 85.3oF

Instrument ID: Koehler SIN: R0700268 9B (2)p-xylene lot #: GC312 II Barometer ID 21245049

SAMPLE ID	Bottle #	MATRIX	READING, °F	TIME, (24:00)	Temp Corrected, °F	PRESSURE mmHg/mbar (circle one)	FINAL RESULTS*, °F	COMMENTS
p-Xylene #1								
p-Xylene #2								
Dup								%RPD
F95492-3	7	SO	>200	14:20	>200	1012	>200	not ign
F95492-4	7	SO	>200	14:39	>200	↓	>200	↓
F95492-5	7	SO	>200	14:51	>200		>200	

GMC 08/08/12 NA

V.u 08-08-2012

* For negative results use NOT IGN for soils and >200 F for waters

Corrected Results = observed temp + (0.06*(760-(P*760mmHg/1013mbarHg))), where P = barometric pressure in mb.

When pressure is in mmHg, equation becomes: observed temp + (0.06*(760-P)).

For Std Reference See previous page GMC 08/08/12

QC Review: EAW Date (mm-dd-yy): 8-8-12

Comments: Std GC 113-BLU V.u 08-08-2012

DRAFT RCRA FACILITY INVESTIGATION REPORT

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Revision 0 • September 2013 • WERC-09-13-065

Appendix I
Geochemical Evaluation of Arsenic in Soil

Appendix I
Geochemical Evaluation of Arsenic in Soil at Building 1113, Holloman Air Force Base

This appendix provides the methodology and results of a geochemical evaluation of arsenic concentrations in soil samples from the Building 1113 site at Holloman Air Force Base. The six soil samples considered in this evaluation ("site" samples) were obtained at a several depth intervals ranging from 13.0 to 14.0 feet (ft) to 24.0 to 25.0 ft below ground surface (bgs). All of the samples were analyzed for the full suite of 23 Target Analyte List (TAL) metals. Arsenic is evaluated here because the New Mexico Environment Department (NMED) regional screening level (RSL) of 3.9 milligrams per kilogram (mg/kg) for arsenic was equaled or exceeded in the following samples:

- Sample No. USTC501-CS-0001-072412: arsenic concentration 6.4 mg/kg, sample location TU/US-C501-Station 1, sample depth interval 24.0 to 25.0 ft bgs

- Sample No. USTC501-CS-0002-072412-FD: arsenic concentration 5 mg/kg, duplicate sample at sample location TU/US-C501-Station 1, sample depth interval 24.0 to 25.0 ft bgs

- Sample No. USTC501-CS-0003-072412: arsenic concentration 3.9 mg/kg, sample location TU/US-C501-Station 2, sample depth interval 24.0 to 25.0 ft bgs.

The maximum arsenic concentration was 6.4 mg/kg.

Analyses of 42 background subsurface samples were used for comparison in the evaluation. These background samples were obtained from depths of 7.0 ft to 30 ft bgs at intervals that were above the water table. Descriptions of the background samples can be found in the *Basewide Background Study for Holloman AFB* (Nation View-Bhate, 2009).

Evaluation Methodology

Trace element distributions in soil are often right-skewed and can span a wide range of concentrations. Trace elements in soil can naturally exceed risk-based screening levels because these screening levels do not consider natural site-specific distributions of trace element concentrations.

Comparisons of concentrations in site samples to background screening values can also be problematic. The background screening values used here are based on the 95th upper tolerance limits of background distributions. By definition, one would expect that five percent, or one in 20 samples will on average exceed the background screening value even if no contamination is present.

Comparisons to risk-based screening levels and background screening values only consider the absolute concentrations of individual elements, and disregard the interdependence of element concentrations and the geochemical mechanisms controlling element behavior. However, it is well established that trace elements naturally associate with specific minerals in soil and sediment, and the preferential enrichment of a sample with these minerals will result in naturally elevated trace element concentrations. It is thus important to be able to identify these naturally high concentrations and distinguish them from potential contamination.

Recent publications indicate that geochemical evaluations are assuming a larger role in environmental investigations (e.g., EPA, 1995; Barclift, *et al*., 2000; U.S. Navy, 2002, 2003; Myers and Thorbjornsen, 2004; Thorbjornsen and Myers, 2007a, 2007b, 2008). A properly executed geochemical evaluation can distinguish between naturally high element concentrations versus contamination, and can identify the specific samples that may contain some component of site-related contamination.

Geochemical Evaluation Methodology for Soil. Trace elements naturally associate with specific soil-forming minerals, and geochemical evaluations are predicated on these known associations. For example, in most uncontaminated oxic soils, arsenic exhibits an association with iron oxide minerals. Arsenic exists in oxic soil pore fluid as oxyanions such as $HAsO_4^{-2}$ and $H_2AsO_4^{-}$ (Brookins, 1988), and these negatively charged species have a strong affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge (Electric Power Research Institute, 1984). (In this report, the term "iron oxide" encompasses oxides, hydroxides, oxyhydroxides, and hydrous oxides of iron.) This association is expressed as a positive correlation between arsenic concentrations and iron concentrations for uncontaminated samples.

As a result of these associations, soil samples with a low percentage of iron oxides will contain proportionally lower arsenic concentrations, and soil samples that are enriched in iron oxides will contain proportionally higher arsenic concentrations (Bowell, 1994).

Although there is variability in the absolute concentrations of arsenic and iron in soil at a site, the As/Fe ratios of the samples will be relatively constant if no contamination is present (Myers and Thorbjornsen, 2004). Samples that contain excess arsenic from a contaminant source (herbicides, treated wood, etc.) will exhibit anomalously high As/Fe ratios compared to the uncontaminated samples.

The reference elements against which trace elements are evaluated reflect the affinities that the trace elements have for specific minerals, which is a function of the specific geochemical environment. The concentrations of iron and aluminum serve as qualitative indicators of the amounts of iron oxide and clay minerals that are present in the soil samples (all clay minerals contain aluminum as a major component). Along with arsenic, selenium and vanadium are present in oxic soil pore fluid as anions and have an affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge. Concentrations of arsenic, selenium, or vanadium in a set of samples can be evaluated through comparison to the corresponding iron concentrations. Barium, cobalt, cadmium, lead, and zinc are typically present in soil as divalent cations and have an affinity to adsorb on clay minerals, which tend to maintain a net negative surface charge. Concentrations of these elements can be evaluated through comparison to the corresponding aluminum concentrations.

To perform the geochemical evaluation, correlation plots are constructed to explore the elemental associations and identify potentially contaminated samples. The detected concentrations of the trace element of interest (dependent variable) are plotted against the detected concentrations of the reference element (independent variable), which represents the mineral to which the trace element may be adsorbed. In the case of arsenic, the arsenic concentrations for a given set of samples would be plotted on the y-axis and the corresponding iron concentrations would be plotted on the x-axis.

If no contamination is present, then the samples will exhibit a common trend with a positive slope, and the samples with the highest trace element concentrations will fall on this trend. This indicates that the elevated trace element concentrations are due to the preferential enrichment of the minerals represented by the reference element concentrations in those samples, and that the trace element has a natural source. If, however, the samples with high trace element concentrations have low or moderate reference element concentrations, then those samples will lie above the trend established by the other samples. This indicates that the anomalous samples contain excess trace

elements beyond that which can be explained by the natural reference element content, and such samples may contain a component of contamination.

Site samples with a trace element present as a contaminant will exhibit anomalously high trace-versus-major element ratios compared to background trace-versus-major element ratios. These elevated ratios may not always be apparent in log-log correlation plots, especially at the upper end of the concentration range. Therefore, ratio plots—which depict trace element concentrations on the y-axis and trace/reference element ratios on the x-axis—are employed in conjunction with correlation plots in those cases where it is not immediately apparent which site samples have anomalously high elemental ratios on the correlation plots. Ratio plots have high resolution over the entire concentration range and permit easy visual identification of samples with anomalously high elemental ratios relative to background.

It is important to note that there is natural variability, as well as analytical uncertainty, in the element ratios of uncontaminated soil samples. Trace/reference element ratios are calculated from two uncertain analytical results, so the resulting uncertainties in the ratios can produce some scatter in the points on a ratio plot. This is especially true when estimated ("J"-qualified) analytical results are used. This can be seen on some of the plots that show more scatter of the points at the lower end of the concentration range, where analytical uncertainties are higher and analytical results are reported with fewer significant figures.

Evaluation Results

Aluminum and iron are evaluated first to verify that the iron concentrations are natural and that they are therefore suitable for use as reference elements for the evaluation of arsenic.

Aluminum and Iron – Aluminum has a mean concentration of 12,000 mg/kg in the six site samples. Aluminum is a primary component of common soil-forming minerals such as clays, feldspars, and micas. Aluminum is always trivalent (as Al^{3+}) and can substitute for ferric iron (Fe^{3+}) in iron oxide minerals. It can also adsorb on iron oxide surfaces (Cornell and Schwertmann, 2003).

Iron has a mean concentration of 14,000 mg/kg in the site samples, and is dominantly present as iron oxides. Iron oxides are common soil-forming minerals and occur as

discrete mineral grains or as coatings on silicate minerals (Cornell and Schwertmann, 2003).

Clays and iron oxides tend to exist as very fine particles, so both aluminum (a proxy for clay content) and iron (a proxy for iron oxide content) are enriched in samples with finer grain sizes. A plot of iron versus aluminum concentrations can be used to qualitatively assess the relative abundance of these minerals in site soil, as shown in Figure 1. The six site samples are represented by circles, and the 42 subsurface background soil samples are represented by triangles in the Figure. The site and background samples fall on the same trend in the plot, indicating that all of the samples have similar Fe/Al ratios. It is also clear that the site samples are preferentially enriched in finer grained material relative to the average background grain size distribution because the site samples fall at the upper end of the trend.

These Fe/Al ratios can be seen more clearly on Figure 2, which shows iron concentrations versus Fe/Al ratios for each sample. The fact that the site and Background samples have ratios that fall well within one order of magnitude indicates that the site samples do not contain excess aluminum or iron from a contaminant source and that their aluminum and iron concentrations are natural.

Iron is used as the reference element arsenic so these results also indicate that the observed iron concentrations are suitable for use in evaluating the arsenic source in the site samples. As discussed previously, clays and iron oxides have an affinity to adsorb specific trace elements, so samples that are enriched in these minerals are expected to contain naturally high concentrations of trace elements, including arsenic. These are the samples that lie on the upper end of the trend in Figure 1.

Arsenic – Arsenic is known to associate with iron oxide minerals as discussed above. A soil sample that is naturally enriched in iron oxides is expected to be naturally enriched in arsenic. Figure 3 provides a plot of arsenic versus iron in the site and background samples. The site and background samples fall on the same trend, although this trend is less correlated than the iron versus aluminum trend shown in Figure 1. One of the six site samples has nondetectable (<0.84 mg/kg) arsenic, and four of the site samples have estimated (J-flagged) results. Estimated results usually show less correlation on the plots because the true locations of the points are uncertain. The site sample with the highest

arsenic concentration also has the highest iron concentration, so elevated arsenic is expected in this sample.

Figure 4 provides a ratio plot of the same arsenic and iron results. This perspective reveals that the site samples have As/Fe ratios that fall within the range of the background ratios. There is more spread in the ratios at lower arsenic concentrations, which is likely due to the estimated analytical results. However, the consistent As/Fe ratios in the site samples, and the agreement with the background ratios indicates that the observed arsenic concentrations are most likely natural.

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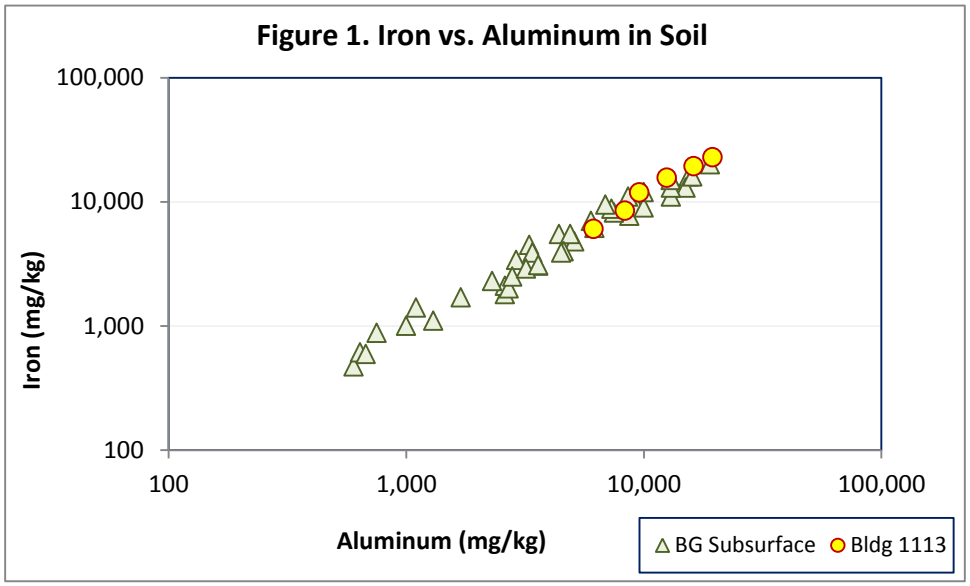
Figure 1. Iron vs. Aluminum in Soil
100,000
10,000
1,000
100
Iron (mg/kg)
100
1,000
10,000
100,000
Aluminum (mg/kg)
BG Subsurface
Bldg 1113

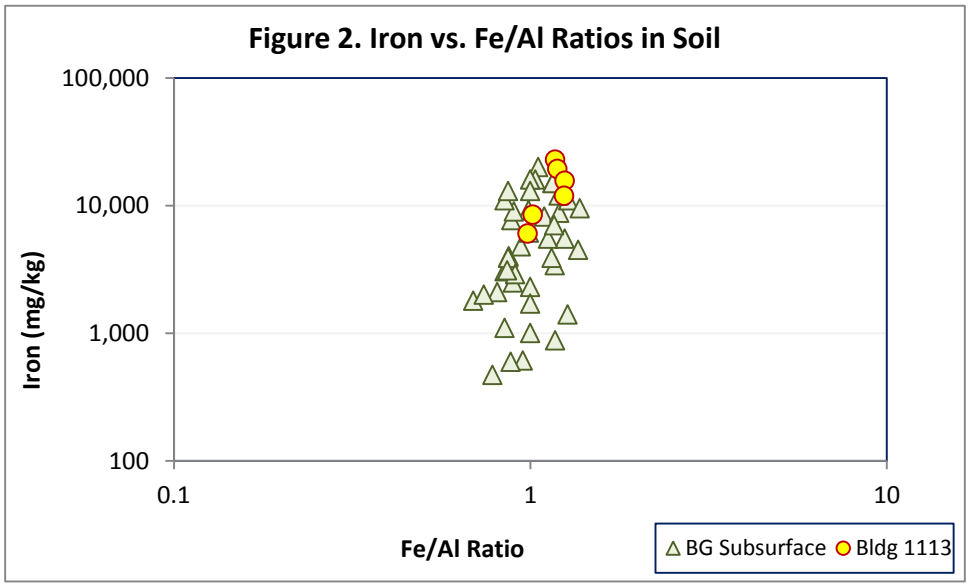
Figure 2. Iron vs. Fe/Al Ratios in Soil
100,000
10,000
1,000
100
Iron (mg/kg)
0.1
1
10
Fe/Al Ratio
BG Subsurface
Bldg 1113

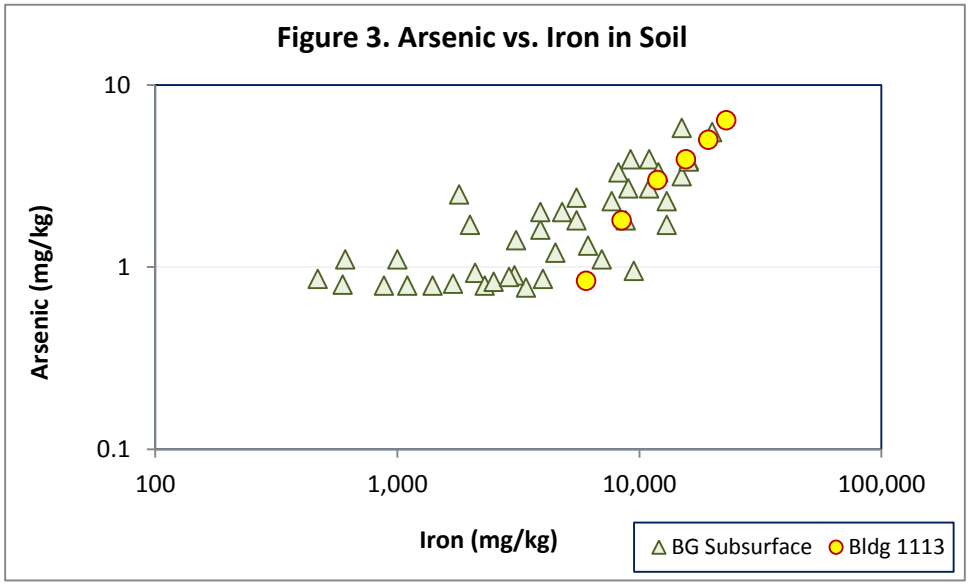
Figure 3. Arsenic vs. Iron in Soil
10
1
0.1
Arsenic (mg/kg)
100
1,000
10,000
100,000
Iron (mg/kg)
BG Subsurface
Bldg 1113

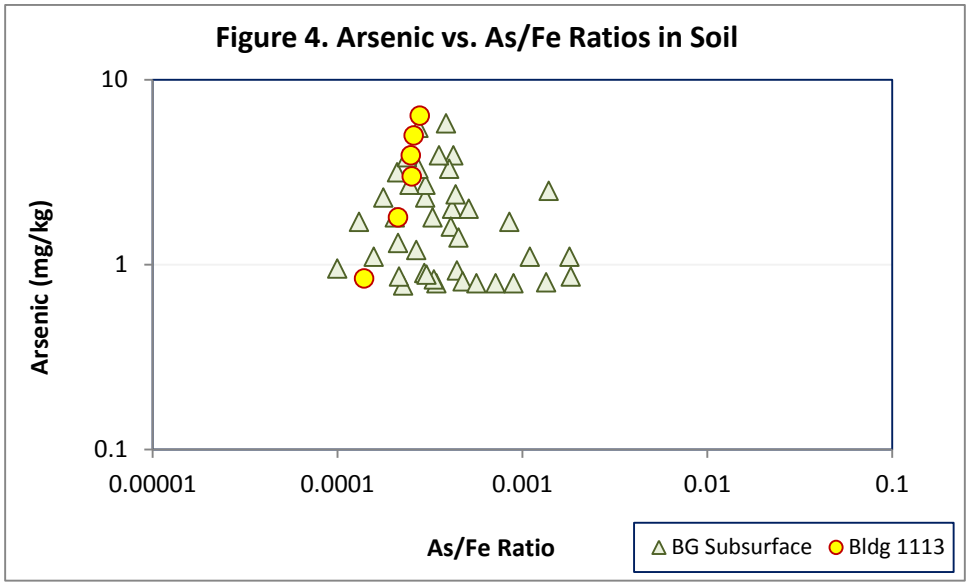
Figure 4. Arsenic vs. As/Fe Ratios in Soil
10
1
0.1
Arsenic (mg/kg)
0.00001
0.0001
0.001
0.01
0.1
As/Fe Ratio
BG Subsurface
Bldg 1113