12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

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Quality Control Summary
SDG: L729802

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

pH by Method 9045D

Laboratory Control Sample

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751078. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample Duplicate Analysis

For analytical batch WG751078 sample duplicate analysis was performed on sample L729915-04. The relative percent differences were within the method limits for target analytes reported from this batch.

For analytical batch WG751078 sample duplicate analysis was performed on sample L729764-01. The relative percent differences were within the method limits for target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG751078 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Total Solids by Method 2540 G-2011

Laboratory Control Sample

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751277. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Sample Duplicate Analysis

For analytical batch WG751277 sample duplicate analysis was performed on sample L729796-15. The relative percent differences were within the method limits for target analytes reported from this batch.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Mercury by Method 7471

Laboratory Control Sample

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG750753. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG750753 matrix spike/matrix spike duplicate analysis was performed on sample L729797-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

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Quality Control Summary
SDG: L729802
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument CVAA3 was calibrated on 10/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010B
Laboratory Control Sample
Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG752285. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG752285 matrix spike/matrix spike duplicate analysis was performed on sample L729802-01. The matrix spike recoveries were above laboratory control limits for Aluminum. The matrix spike recoveries were below laboratory control limits for Aluminum and Silver. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference exceeded laboratory limits for Aluminum and Silver. Aluminum did not meet the method limit criteria for the serial dilution. Silver did not meet the method limit criteria for the post digest spike.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument ICP12 was calibrated on 11/5/2014. The initial calibration and continuing calibration verification standards were within method limits.

Volatile TPH by Method 8015D/GRO
Laboratory Control Sample
Samples L729802-02, -06, -07, and -09 were analyzed in analytical batch WG750876. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L729802-08 was analyzed in analytical batch WG751567. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751571. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

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Quality Control Summary
SDG: L729802

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG750876 matrix spike/matrix spike duplicate analysis was performed on sample L729559-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG750876 matrix spike/matrix spike duplicate analysis was performed on sample L729802-09. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751567 matrix spike/matrix spike duplicate analysis was performed on sample L729542-17. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751571 matrix spike/matrix spike duplicate analysis was performed on sample L730246-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument VOCGC12 was calibrated on 8/21/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCGC7 was calibrated on 9/9/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCGC1 was calibrated on 10/30/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

<u>Volatile Organic Compounds by Method 8260B</u>
Laboratory Control Sample
Samples L729802-02, -06, -07, -08, and -09 were analyzed in analytical batch WG750823. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG752032. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

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Quality Control Summary
SDG: L729802
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG750823 matrix spike/matrix spike duplicate analysis was performed on sample L729802-09. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG752032 matrix spike/matrix spike duplicate analysis was performed on sample L729802-03. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument VOCMS21 was calibrated on 9/16/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

Semi-Volatiles by Method 8270C
Laboratory Control Sample
Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751196. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751305. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG751196 matrix spike/matrix spike duplicate analysis was performed on sample L729568-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG751305 matrix spike/matrix spike duplicate analysis was performed on sample L729746-09. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

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Quality Control Summary
SDG: L729802

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Calibration Summary
Instrument BNAMS4 was calibrated on 10/16/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument SVGCMS7 was calibrated on 10/22/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

C10-C40 Oil Range by Method 8015
Laboratory Control Sample
Samples L729802-01, -03, -04, and -05 were analyzed in analytical batch WG751565. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG751565 matrix spike/matrix spike duplicate analysis was performed on sample L729032-05. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument SVGC16 was calibrated on 10/23/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2015.12.30 13:44:08 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

Report Summary

Tuesday November 18, 2014

Report Number: L729802
Samples Received: 10/25/14
Client Project: 23446543.0053AA

Description: Holloman AFB

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Pamela A. Langford

Pam Langford , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Case Narrative

Tuesday November 18, 2014

Report Number: L729802
Samples Received: 10/25/14
Client Project: 23446543.0053AA

Description: Holloman AFB

Other Comments

The closing CCVLL for Aluminum in analytical batch WG752285 failed low at 68%. All other CCVLL recoveries were within the 70-130% requirement. The sample results were well above the repoting limi for Aluminum, therefore the data was accepted without further analysis.

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-01

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB02-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 14:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.0				su		9045D	10/28/14	1
Total Solids	TSOLIDS	71.9	.0333			%		2540 G-2	10/30/14	1
Mercury	7439-97-6	U	.0039	0.014	0.028	mg/kg		7471	10/28/14	1
Aluminum	7429-90-5	670	25	35.	70.	mg/kg	O1VJ	6010B	11/05/14	5
Antimony	7440-36-0	U	5.3	7.0	14.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	4.4	7.0	14.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	7.6	1.2	1.7	3.5	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.49	0.70	1.4	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.49	1.7	3.5	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	0.99	.97	3.5	7.0	mg/kg	J	6010B	11/05/14	5
Cobalt	7440-48-4	U	1.7	3.5	7.0	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.6	7.0	14.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	U	1.3	1.7	3.5	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	12.	.83	3.5	7.0	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	U	3.3	7.0	14.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	5.1	7.0	14.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	1.9	3.5	7.0	mg/kg	O1J6	6010B	11/05/14	5
Thallium	7440-28-0	U	4.4	7.0	14.	mg/kg		6010B	11/05/14	5
Vanadium	7440-62-2	2.5	1.7	7.0	14.	mg/kg	J	6010B	11/05/14	5
Zinc	7440-66-6	U	4.2	17.	35.	mg/kg		6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.03	0.070	0.14	mg/kg		8015D/GR	10/31/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	97.5				% Rec.		8015D/GR	10/31/14	1
Volatile Organics										
Acetone	67-64-1	0.025	.014	0.035	0.070	mg/kg	J	8260B	11/01/14	1
Benzene	71-43-2	U	.00038	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Bromobenzene	108-86-1	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Bromochloromethane	74-97-5	U	.00054	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Bromodichloromethane	75-27-4	U	.00035	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Bromoform	75-25-2	U	.00058	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Bromomethane	74-83-9	U	.0018	0.0035	0.0070	mg/kg		8260B	11/01/14	1
n-Butylbenzene	104-51-8	U	.00036	0.00070	0.0014	mg/kg		8260B	11/01/14	1
sec-Butylbenzene	135-98-8	U	.00028	0.00070	0.0014	mg/kg		8260B	11/01/14	1
tert-Butylbenzene	98-06-6	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Carbon Disulfide	75-15-0	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Carbon tetrachloride	56-23-5	U	.00046	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Chlorobenzene	108-90-7	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Chlorodibromomethane	124-48-1	U	.00051	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Chloroethane	75-00-3	U	.0013	0.0035	0.0070	mg/kg		8260B	11/01/14	1
Chloroform	67-66-3	U	.00032	0.0035	0.0070	mg/kg		8260B	11/01/14	1

Results listed are dry weight basis.
U = Not Detected at the LOD
Note:
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The reported analytical results relate only to the sample submitted
Reported: 11/05/14 16:14 Revised: 11/18/14 11:06
L729802-01 (PH) - 6.0 @ 21.6c

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-01

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB02-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 14:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00053	0.00070	0.0035	mg/kg		8260B	11/01/14	1
2-Chlorotoluene	95-49-8	U	.00042	0.00070	0.0014	mg/kg		8260B	11/01/14	1
4-Chlorotoluene	106-43-4	U	.00033	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0014	0.0035	0.0070	mg/kg		8260B	11/01/14	1
1,2-Dibromoethane	106-93-4	U	.00047	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Dibromomethane	74-95-3	U	.00053	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichlorobenzene	95-50-1	U	.00042	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichlorobenzene	541-73-1	U	.00033	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,4-Dichlorobenzene	106-46-7	U	.00032	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Dichlorodifluoromethane	75-71-8	U	.00099	0.0035	0.0070	mg/kg		8260B	11/01/14	1
1,1-Dichloroethane	75-34-3	U	.00028	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloroethane	107-06-2	U	.00036	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloroethene	75-35-4	U	.00042	0.00070	0.0014	mg/kg		8260B	11/01/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00033	0.00070	0.0014	mg/kg		8260B	11/01/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00036	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloropropane	78-87-5	U	.0005	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloropropene	563-58-6	U	.00044	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichloropropane	142-28-9	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00036	0.00070	0.0014	mg/kg		8260B	11/01/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00038	0.00070	0.0014	mg/kg		8260B	11/01/14	1
2,2-Dichloropropane	594-20-7	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Ethylbenzene	100-41-4	U	.00042	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00047	0.00070	0.0014	mg/kg		8260B	11/01/14	1
2-Hexanone	591-78-6	U	.0053	0.0070	0.014	mg/kg		8260B	11/01/14	1
Isopropylbenzene	98-82-8	U	.00033	0.00070	0.0014	mg/kg		8260B	11/01/14	1
p-Isopropyltoluene	99-87-6	U	.00028	0.00070	0.0014	mg/kg		8260B	11/01/14	1
2-Butanone (MEK)	78-93-3	U	.0065	0.0070	0.014	mg/kg		8260B	11/01/14	1
Methylene Chloride	75-09-2	U	.0014	0.0035	0.0070	mg/kg		8260B	11/01/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0026	0.0070	0.014	mg/kg		8260B	11/01/14	1
Methyl tert-butyl ether	1634-04-4	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Naphthalene	91-20-3	U	.0014	0.0035	0.0070	mg/kg		8260B	11/01/14	1
n-Propylbenzene	103-65-1	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Styrene	100-42-5	U	.00032	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00036	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.0005	0.0010	0.0014	mg/kg		8260B	11/01/14	1
Tetrachloroethene	127-18-4	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Toluene	108-88-3	U	.0006	0.0035	0.0070	mg/kg		8260B	11/01/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00043	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00054	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1,1-Trichloroethane	71-55-6	U	.0004	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,1,2-Trichloroethane	79-00-5	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Trichloroethene	79-01-6	U	.00039	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Trichlorofluoromethane	75-69-4	U	.00053	0.0035	0.0070	mg/kg		8260B	11/01/14	1
1,2,3-Trichloropropane	96-18-4	U	.001	0.0014	0.0035	mg/kg		8260B	11/01/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00029	0.00070	0.0014	mg/kg		8260B	11/01/14	1

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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-01

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB02-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 14:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00047	0.00070	0.0014	mg/kg		8260B	11/01/14	1
m&p-Xylene	1330-20-7	U	.001	0.0014	0.0028	mg/kg		8260B	11/01/14	1
Vinyl chloride	75-01-4	U	.0004	0.00070	0.0014	mg/kg		8260B	11/01/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00038	0.00070	0.0014	mg/kg		8260B	11/01/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	96.2				% Rec.		8260B	11/01/14	1
Dibromofluoromethane	1868-53-7	101.				% Rec.		8260B	11/01/14	1
4-Bromofluorobenzene	460-00-4	93.4				% Rec.		8260B	11/01/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.2	2.8	5.6	mg/kg		8015	10/30/14	1
C28-C40 Oil Range		U	.38	2.8	5.6	mg/kg		8015	10/30/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	93.2				% Rec.		8015	10/30/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Acenaphthene	83-32-9	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Acenaphthylene	208-96-8	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Benzo(a)anthracene	56-55-3	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Benzo(a)pyrene	50-32-8	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Benzo(b)fluoranthene	205-99-2	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Benzo(k)fluoranthene	207-08-9	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Chrysene	218-01-9	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Fluoranthene	206-44-0	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Fluorene	86-73-7	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Naphthalene	91-20-3	U	.00083	0.0083	0.028	mg/kg		8270C-SI	10/30/14	1
Phenanthrene	85-01-8	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
Pyrene	129-00-0	U	.00083	0.0028	0.0083	mg/kg		8270C-SI	10/30/14	1
2-Methylnaphthalene	91-57-6	U	.00089	0.0083	0.028	mg/kg		8270C-SI	10/30/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	52.3				% Rec.		8270C-SI	10/30/14	1
Nitrobenzene-d5	4165-60-0	84.9				% Rec.		8270C-SI	10/30/14	1
2-Fluorobiphenyl	321-60-8	73.2				% Rec.		8270C-SI	10/30/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.011	0.23	0.46	mg/kg		8270C	10/31/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.012	0.23	0.46	mg/kg		8270C	10/31/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.01	0.23	0.46	mg/kg		8270C	10/31/14	1
Benzyl Alcohol	100-51-6	U	.01	0.23	0.46	mg/kg		8270C	10/31/14	1
Benzoic acid	65-85-0	U	.17	2.3	4.6	mg/kg		8270C	10/31/14	1
Carbazole	86-74-8	U	.0072	0.23	0.46	mg/kg		8270C	10/31/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-01

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB02-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 14:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0072	0.23	0.46	mg/kg		8270C	10/31/14	1
4-Bromophenyl-phenylether	101-55-3	U	.015	0.23	0.46	mg/kg		8270C	10/31/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0088	0.23	0.46	mg/kg		8270C	10/31/14	1
2-Chloronaphthalene	91-58-7	U	.0089	0.23	0.46	mg/kg		8270C	10/31/14	1
3,3-Dichlorobenzidine	91-94-1	U	.11	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4-Dinitrotoluene	121-14-2	U	.0085	0.23	0.46	mg/kg		8270C	10/31/14	1
2,6-Dinitrotoluene	606-20-2	U	.01	0.23	0.46	mg/kg		8270C	10/31/14	1
Hexachlorobenzene	118-74-1	U	.012	0.23	0.46	mg/kg		8270C	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.014	0.23	0.46	mg/kg		8270C	10/31/14	1
Hexachloroethane	67-72-1	U	.018	0.23	0.46	mg/kg		8270C	10/31/14	1
Isophorone	78-59-1	U	.0072	0.23	0.46	mg/kg		8270C	10/31/14	1
Nitrobenzene	98-95-3	U	.0097	0.23	0.46	mg/kg		8270C	10/31/14	1
n-Nitrosodimethylamine	62-75-9	U	.09	0.23	0.46	mg/kg		8270C	10/31/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0082	0.23	0.46	mg/kg		8270C	10/31/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.013	0.23	0.46	mg/kg		8270C	10/31/14	1
Benzylbutyl phthalate	85-68-7	U	.014	0.23	0.46	mg/kg		8270C	10/31/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.017	0.23	0.46	mg/kg		8270C	10/31/14	1
Di-n-butyl phthalate	84-74-2	U	.015	0.23	0.46	mg/kg		8270C	10/31/14	1
Diethyl phthalate	84-66-2	U	.0096	0.23	0.46	mg/kg		8270C	10/31/14	1
Dimethyl phthalate	131-11-3	U	.0075	0.23	0.46	mg/kg		8270C	10/31/14	1
Di-n-octyl phthalate	117-84-0	U	.013	0.23	0.46	mg/kg		8270C	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.012	0.23	0.46	mg/kg		8270C	10/31/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0067	0.23	0.46	mg/kg		8270C	10/31/14	1
2-Chlorophenol	95-57-8	U	.012	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4-Dichlorophenol	120-83-2	U	.01	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4-Dimethylphenol	105-67-9	U	.065	0.23	0.46	mg/kg		8270C	10/31/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.17	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4-Dinitrophenol	51-28-5	U	.14	0.23	0.46	mg/kg		8270C	10/31/14	1
2-Methylphenol	95-48-7	U	.014	0.23	0.46	mg/kg		8270C	10/31/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.011	0.23	0.46	mg/kg		8270C	10/31/14	1
2-Nitrophenol	88-75-5	U	.018	0.23	0.46	mg/kg		8270C	10/31/14	1
4-Nitrophenol	100-02-7	U	.072	0.23	0.46	mg/kg		8270C	10/31/14	1
4-Chloroaniline	106-47-8	U	.0049	0.23	0.46	mg/kg		8270C	10/31/14	1
2-Nitroaniline	88-74-4	U	.01	0.23	0.46	mg/kg		8270C	10/31/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0019	0.23	0.46	mg/kg		8270C	10/31/14	1
3-Nitroaniline	99-09-2	U	.012	0.23	0.46	mg/kg		8270C	10/31/14	1
4-Nitroaniline	100-01-6	U	.0089	0.23	0.46	mg/kg		8270C	10/31/14	1
Pentachlorophenol	87-86-5	U	.067	0.23	0.46	mg/kg		8270C	10/31/14	1
Phenol	108-95-2	U	.0097	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4,5-Trichlorophenol	95-95-4	U	.014	0.23	0.46	mg/kg		8270C	10/31/14	1
2,4,6-Trichlorophenol	88-06-2	U	.011	0.23	0.46	mg/kg		8270C	10/31/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	65.3				% Rec.		8270C	10/31/14	1
Phenol-d5	4165-62-2	61.2				% Rec.		8270C	10/31/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-01

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB02-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 14:50

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	61.9				% Rec.		8270C	10/31/14	1
2-Fluorobiphenyl	321-60-8	71.7				% Rec.		8270C	10/31/14	1
2,4,6-Tribromophenol	118-79-6	78.5				% Rec.		8270C	10/31/14	1
p-Terphenyl-d14	1718-51-0	54.5				% Rec.		8270C	10/31/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-02

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-TRIPBLANK01-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 13:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	10/27/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.9				% Rec.		8015D/G	10/27/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/30/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/30/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/30/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/30/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	10/30/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/30/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	10/30/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/30/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/30/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/30/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/30/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/30/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/30/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/30/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-02

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-TRIPBLANK01-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 13:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/30/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/30/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/30/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	10/30/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/30/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/30/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/30/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/30/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/30/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/30/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/30/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/30/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	99.8				% Rec.		8260B	10/30/14	1
Dibromofluoromethane	1868-53-7	98.1				% Rec.		8260B	10/30/14	1
4-Bromofluorobenzene	460-00-4	96.6				% Rec.		8260B	10/30/14	1

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-03

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB08-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.0				su		9045D	10/28/14	1
Total Solids	TSOLIDS	69.9	.0333			%		2540 G-2	10/30/14	1
Mercury	7439-97-6	0.0054	.004	0.014	0.029	mg/kg	J	7471	10/28/14	1
Aluminum	7429-90-5	970	26	36.	72.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	5.4	7.2	14.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	4.6	7.2	14.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	18.	1.2	1.8	3.6	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.5	0.72	1.4	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.5	1.8	3.6	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	1.4	1	3.6	7.2	mg/kg	J	6010B	11/05/14	5
Cobalt	7440-48-4	U	1.7	3.6	7.2	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.7	7.2	14.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	U	1.4	1.8	3.6	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	14.	.86	3.6	7.2	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	U	3.4	7.2	14.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	5.3	7.2	14.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	2	3.6	7.2	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	4.6	7.2	14.	mg/kg		6010B	11/05/14	5
Vanadium	7440-62-2	4.3	1.7	7.2	14.	mg/kg	J	6010B	11/05/14	5
Zinc	7440-66-6	U	4.3	18.	36.	mg/kg		6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.031	0.072	0.14	mg/kg		8015D/GR	10/31/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	97.2				% Rec.		8015D/GR	10/31/14	1
Volatile Organics										
Acetone	67-64-1	U	.014	0.036	0.072	mg/kg		8260B	11/01/14	1
Benzene	71-43-2	U	.00039	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Bromobenzene	108-86-1	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Bromochloromethane	74-97-5	U	.00056	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Bromodichloromethane	75-27-4	U	.00036	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Bromoform	75-25-2	U	.0006	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Bromomethane	74-83-9	U	.0018	0.0036	0.0072	mg/kg		8260B	11/01/14	1
n-Butylbenzene	104-51-8	U	.00037	0.00072	0.0014	mg/kg		8260B	11/01/14	1
sec-Butylbenzene	135-98-8	U	.00029	0.00072	0.0014	mg/kg		8260B	11/01/14	1
tert-Butylbenzene	98-06-6	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Carbon Disulfide	75-15-0	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Carbon tetrachloride	56-23-5	U	.00047	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Chlorobenzene	108-90-7	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Chlorodibromomethane	124-48-1	U	.00053	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Chloroethane	75-00-3	U	.0014	0.0036	0.0072	mg/kg		8260B	11/01/14	1
Chloroform	67-66-3	U	.00033	0.0036	0.0072	mg/kg		8260B	11/01/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-03

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB08-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00054	0.00072	0.0036	mg/kg		8260B	11/01/14	1
2-Chlorotoluene	95-49-8	U	.00043	0.00072	0.0014	mg/kg		8260B	11/01/14	1
4-Chlorotoluene	106-43-4	U	.00034	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0014	0.0036	0.0072	mg/kg		8260B	11/01/14	1
1,2-Dibromoethane	106-93-4	U	.00049	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Dibromomethane	74-95-3	U	.00054	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichlorobenzene	95-50-1	U	.00043	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichlorobenzene	541-73-1	U	.00034	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,4-Dichlorobenzene	106-46-7	U	.00033	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Dichlorodifluoromethane	75-71-8	U	.001	0.0036	0.0072	mg/kg		8260B	11/01/14	1
1,1-Dichloroethane	75-34-3	U	.00029	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloroethane	107-06-2	U	.00037	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloroethene	75-35-4	U	.00043	0.00072	0.0014	mg/kg		8260B	11/01/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00034	0.00072	0.0014	mg/kg		8260B	11/01/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00037	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloropropane	78-87-5	U	.00052	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloropropene	563-58-6	U	.00046	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichloropropane	142-28-9	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00037	0.00072	0.0014	mg/kg		8260B	11/01/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00039	0.00072	0.0014	mg/kg		8260B	11/01/14	1
2,2-Dichloropropane	594-20-7	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Ethylbenzene	100-41-4	U	.00043	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00049	0.00072	0.0014	mg/kg		8260B	11/01/14	1
2-Hexanone	591-78-6	U	.0054	0.0072	0.014	mg/kg		8260B	11/01/14	1
Isopropylbenzene	98-82-8	U	.00034	0.00072	0.0014	mg/kg		8260B	11/01/14	1
p-Isopropyltoluene	99-87-6	U	.00029	0.00072	0.0014	mg/kg		8260B	11/01/14	1
2-Butanone (MEK)	78-93-3	U	.0067	0.0072	0.014	mg/kg		8260B	11/01/14	1
Methylene Chloride	75-09-2	U	.0014	0.0036	0.0072	mg/kg		8260B	11/01/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0027	0.0072	0.014	mg/kg		8260B	11/01/14	1
Methyl tert-butyl ether	1634-04-4	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Naphthalene	91-20-3	U	.0014	0.0036	0.0072	mg/kg		8260B	11/01/14	1
n-Propylbenzene	103-65-1	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Styrene	100-42-5	U	.00033	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00037	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00052	0.0011	0.0014	mg/kg		8260B	11/01/14	1
Tetrachloroethene	127-18-4	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Toluene	108-88-3	U	.00062	0.0036	0.0072	mg/kg		8260B	11/01/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00044	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00056	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1,1-Trichloroethane	71-55-6	U	.00041	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,1,2-Trichloroethane	79-00-5	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Trichloroethene	79-01-6	U	.0004	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Trichlorofluoromethane	75-69-4	U	.00054	0.0036	0.0072	mg/kg		8260B	11/01/14	1
1,2,3-Trichloropropane	96-18-4	U	.001	0.0014	0.0036	mg/kg		8260B	11/01/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.0003	0.00072	0.0014	mg/kg		8260B	11/01/14	1

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Sheri Fling
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Denver, CO 80237

November 18,2014

ESC Sample # : L729802-03

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB08-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00049	0.00072	0.0014	mg/kg		8260B	11/01/14	1
m&p-Xylene	1330-20-7	U	.001	0.0014	0.0029	mg/kg		8260B	11/01/14	1
Vinyl chloride	75-01-4	U	.00041	0.00072	0.0014	mg/kg		8260B	11/01/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00039	0.00072	0.0014	mg/kg		8260B	11/01/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	98.3				% Rec.		8260B	11/01/14	1
Dibromofluoromethane	1868-53-7	100.				% Rec.		8260B	11/01/14	1
4-Bromofluorobenzene	460-00-4	92.8				% Rec.		8260B	11/01/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.3	2.9	5.7	mg/kg		8015	10/30/14	1
C28-C40 Oil Range		U	.39	2.9	5.7	mg/kg		8015	10/30/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	73.7				% Rec.		8015	10/30/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Acenaphthene	83-32-9	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Acenaphthylene	208-96-8	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Benzo(a)anthracene	56-55-3	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Benzo(a)pyrene	50-32-8	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Benzo(b)fluoranthene	205-99-2	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Benzo(k)fluoranthene	207-08-9	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Chrysene	218-01-9	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Fluoranthene	206-44-0	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Fluorene	86-73-7	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Naphthalene	91-20-3	U	.00086	0.0086	0.029	mg/kg		8270C-SI	10/30/14	1
Phenanthrene	85-01-8	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
Pyrene	129-00-0	U	.00086	0.0029	0.0086	mg/kg		8270C-SI	10/30/14	1
2-Methylnaphthalene	91-57-6	U	.00092	0.0086	0.029	mg/kg		8270C-SI	10/30/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	49.0				% Rec.		8270C-SI	10/30/14	1
Nitrobenzene-d5	4165-60-0	71.7				% Rec.		8270C-SI	10/30/14	1
2-Fluorobiphenyl	321-60-8	68.4				% Rec.		8270C-SI	10/30/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.013	0.24	0.48	mg/kg		8270C	10/31/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
Benzyl Alcohol	100-51-6	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
Benzoic acid	65-85-0	U	.17	2.4	4.8	mg/kg		8270C	10/31/14	1
Carbazole	86-74-8	U	.0074	0.24	0.48	mg/kg		8270C	10/31/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-03

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB08-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0074	0.24	0.48	mg/kg		8270C	10/31/14	1
4-Bromophenyl-phenylether	101-55-3	U	.016	0.24	0.48	mg/kg		8270C	10/31/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.009	0.24	0.48	mg/kg		8270C	10/31/14	1
2-Chloronaphthalene	91-58-7	U	.0092	0.24	0.48	mg/kg		8270C	10/31/14	1
3,3-Dichlorobenzidine	91-94-1	U	.11	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4-Dinitrotoluene	121-14-2	U	.0087	0.24	0.48	mg/kg		8270C	10/31/14	1
2,6-Dinitrotoluene	606-20-2	U	.01	0.24	0.48	mg/kg		8270C	10/31/14	1
Hexachlorobenzene	118-74-1	U	.012	0.24	0.48	mg/kg		8270C	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.014	0.24	0.48	mg/kg		8270C	10/31/14	1
Hexachloroethane	67-72-1	U	.018	0.24	0.48	mg/kg		8270C	10/31/14	1
Isophorone	78-59-1	U	.0074	0.24	0.48	mg/kg		8270C	10/31/14	1
Nitrobenzene	98-95-3	U	.01	0.24	0.48	mg/kg		8270C	10/31/14	1
n-Nitrosodimethylamine	62-75-9	U	.093	0.24	0.48	mg/kg		8270C	10/31/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0084	0.24	0.48	mg/kg		8270C	10/31/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.013	0.24	0.48	mg/kg		8270C	10/31/14	1
Benzylbutyl phthalate	85-68-7	U	.014	0.24	0.48	mg/kg		8270C	10/31/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.017	0.24	0.48	mg/kg		8270C	10/31/14	1
Di-n-butyl phthalate	84-74-2	U	.016	0.24	0.48	mg/kg		8270C	10/31/14	1
Diethyl phthalate	84-66-2	U	.0099	0.24	0.48	mg/kg		8270C	10/31/14	1
Dimethyl phthalate	131-11-3	U	.0077	0.24	0.48	mg/kg		8270C	10/31/14	1
Di-n-octyl phthalate	117-84-0	U	.013	0.24	0.48	mg/kg		8270C	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.012	0.24	0.48	mg/kg		8270C	10/31/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0069	0.24	0.48	mg/kg		8270C	10/31/14	1
2-Chlorophenol	95-57-8	U	.012	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4-Dichlorophenol	120-83-2	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4-Dimethylphenol	105-67-9	U	.067	0.24	0.48	mg/kg		8270C	10/31/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.17	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4-Dinitrophenol	51-28-5	U	.14	0.24	0.48	mg/kg		8270C	10/31/14	1
2-Methylphenol	95-48-7	U	.014	0.24	0.48	mg/kg		8270C	10/31/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
2-Nitrophenol	88-75-5	U	.018	0.24	0.48	mg/kg		8270C	10/31/14	1
4-Nitrophenol	100-02-7	U	.074	0.24	0.48	mg/kg		8270C	10/31/14	1
4-Chloroaniline	106-47-8	U	.005	0.24	0.48	mg/kg		8270C	10/31/14	1
2-Nitroaniline	88-74-4	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
1,2-Diphenylhydrazine	103-33-3	U	.002	0.24	0.48	mg/kg		8270C	10/31/14	1
3-Nitroaniline	99-09-2	U	.012	0.24	0.48	mg/kg		8270C	10/31/14	1
4-Nitroaniline	100-01-6	U	.0092	0.24	0.48	mg/kg		8270C	10/31/14	1
Pentachlorophenol	87-86-5	U	.069	0.24	0.48	mg/kg		8270C	10/31/14	1
Phenol	108-95-2	U	.01	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4,5-Trichlorophenol	95-95-4	U	.014	0.24	0.48	mg/kg		8270C	10/31/14	1
2,4,6-Trichlorophenol	88-06-2	U	.011	0.24	0.48	mg/kg		8270C	10/31/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	67.8				% Rec.		8270C	10/31/14	1
Phenol-d5	4165-62-2	59.6				% Rec.		8270C	10/31/14	1

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L729802-03 (PH) - 6.0 @ 21.5c

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-03

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB08-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:40

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	66.3				% Rec.		8270C	10/31/14	1
2-Fluorobiphenyl	321-60-8	79.4				% Rec.		8270C	10/31/14	1
2,4,6-Tribromophenol	118-79-6	77.6				% Rec.		8270C	10/31/14	1
p-Terphenyl-d14	1718-51-0	60.4				% Rec.		8270C	10/31/14	1

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Fax (615) 758-5859

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-04

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.1				su		9045D	10/28/14	1
Total Solids	TSOLIDS	67.6	.0333			%		2540 G-2	10/30/14	1
Mercury	7439-97-6	0.0074	.0041	0.015	0.030	mg/kg	J	7471	10/28/14	1
Aluminum	7429-90-5	210	27	37.	74.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	5.6	7.4	15.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	4.7	7.4	15.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	8.6	1.2	1.8	3.7	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.52	0.74	1.5	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.52	1.8	3.7	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	U	1	3.7	7.4	mg/kg		6010B	11/05/14	5
Cobalt	7440-48-4	U	1.8	3.7	7.4	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.8	7.4	15.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	U	1.4	1.8	3.7	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	6.4	.89	3.7	7.4	mg/kg	J	6010B	11/05/14	5
Nickel	7440-02-0	U	3.6	7.4	15.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	5.5	7.4	15.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	2.1	3.7	7.4	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	4.7	7.4	15.	mg/kg		6010B	11/05/14	5
Vanadium	7440-62-2	U	1.8	7.4	15.	mg/kg		6010B	11/05/14	5
Zinc	7440-66-6	U	4.4	18.	37.	mg/kg		6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.032	0.074	0.15	mg/kg		8015D/GR	10/31/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	97.2				% Rec.		8015D/GR	10/31/14	1
Volatile Organics										
Acetone	67-64-1	0.024	.015	0.037	0.074	mg/kg	J	8260B	11/01/14	1
Benzene	71-43-2	U	.0004	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Bromobenzene	108-86-1	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Bromochloromethane	74-97-5	U	.00058	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Bromodichloromethane	75-27-4	U	.00037	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Bromoform	75-25-2	U	.00062	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Bromomethane	74-83-9	U	.0019	0.0037	0.0074	mg/kg		8260B	11/01/14	1
n-Butylbenzene	104-51-8	U	.00038	0.00074	0.0015	mg/kg		8260B	11/01/14	1
sec-Butylbenzene	135-98-8	U	.0003	0.00074	0.0015	mg/kg		8260B	11/01/14	1
tert-Butylbenzene	98-06-6	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Carbon Disulfide	75-15-0	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Carbon tetrachloride	56-23-5	U	.00049	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Chlorobenzene	108-90-7	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Chlorodibromomethane	124-48-1	U	.00055	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Chloroethane	75-00-3	U	.0014	0.0037	0.0074	mg/kg		8260B	11/01/14	1
Chloroform	67-66-3	U	.00034	0.0037	0.0074	mg/kg		8260B	11/01/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-04

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS01

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00056	0.00074	0.0037	mg/kg		8260B	11/01/14	1
2-Chlorotoluene	95-49-8	U	.00044	0.00074	0.0015	mg/kg		8260B	11/01/14	1
4-Chlorotoluene	106-43-4	U	.00036	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0015	0.0037	0.0074	mg/kg		8260B	11/01/14	1
1,2-Dibromoethane	106-93-4	U	.0005	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Dibromomethane	74-95-3	U	.00056	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,2-Dichlorobenzene	95-50-1	U	.00044	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,3-Dichlorobenzene	541-73-1	U	.00036	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,4-Dichlorobenzene	106-46-7	U	.00034	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Dichlorodifluoromethane	75-71-8	U	.001	0.0037	0.0074	mg/kg		8260B	11/01/14	1
1,1-Dichloroethane	75-34-3	U	.0003	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,2-Dichloroethane	107-06-2	U	.00038	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1-Dichloroethene	75-35-4	U	.00044	0.00074	0.0015	mg/kg		8260B	11/01/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00036	0.00074	0.0015	mg/kg		8260B	11/01/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00038	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,2-Dichloropropane	78-87-5	U	.00053	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1-Dichloropropene	563-58-6	U	.00047	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,3-Dichloropropane	142-28-9	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00038	0.00074	0.0015	mg/kg		8260B	11/01/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.0004	0.00074	0.0015	mg/kg		8260B	11/01/14	1
2,2-Dichloropropane	594-20-7	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Ethylbenzene	100-41-4	U	.00044	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.0005	0.00074	0.0015	mg/kg		8260B	11/01/14	1
2-Hexanone	591-78-6	U	.0056	0.0074	0.015	mg/kg		8260B	11/01/14	1
Isopropylbenzene	98-82-8	U	.00036	0.00074	0.0015	mg/kg		8260B	11/01/14	1
p-Isopropyltoluene	99-87-6	U	.0003	0.00074	0.0015	mg/kg		8260B	11/01/14	1
2-Butanone (MEK)	78-93-3	U	.007	0.0074	0.015	mg/kg		8260B	11/01/14	1
Methylene Chloride	75-09-2	U	.0015	0.0037	0.0074	mg/kg		8260B	11/01/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0028	0.0074	0.015	mg/kg		8260B	11/01/14	1
Methyl tert-butyl ether	1634-04-4	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Naphthalene	91-20-3	U	.0015	0.0037	0.0074	mg/kg		8260B	11/01/14	1
n-Propylbenzene	103-65-1	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Styrene	100-42-5	U	.00034	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00038	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00053	0.0011	0.0015	mg/kg		8260B	11/01/14	1
Tetrachloroethene	127-18-4	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Toluene	108-88-3	U	.00064	0.0037	0.0074	mg/kg		8260B	11/01/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00046	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00058	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1,1-Trichloroethane	71-55-6	U	.00042	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,1,2-Trichloroethane	79-00-5	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Trichloroethene	79-01-6	U	.00041	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Trichlorofluoromethane	75-69-4	U	.00056	0.0037	0.0074	mg/kg		8260B	11/01/14	1
1,2,3-Trichloropropane	96-18-4	U	.0011	0.0015	0.0037	mg/kg		8260B	11/01/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.00031	0.00074	0.0015	mg/kg		8260B	11/01/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-04

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB10-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.0005	0.00074	0.0015	mg/kg		8260B	11/01/14	1
m&p-Xylene	1330-20-7	U	.0011	0.0015	0.0030	mg/kg		8260B	11/01/14	1
Vinyl chloride	75-01-4	U	.00043	0.00074	0.0015	mg/kg		8260B	11/01/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.0004	0.00074	0.0015	mg/kg		8260B	11/01/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	95.8				% Rec.		8260B	11/01/14	1
Dibromofluoromethane	1868-53-7	99.2				% Rec.		8260B	11/01/14	1
4-Bromofluorobenzene	460-00-4	94.2				% Rec.		8260B	11/01/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.4	3.0	5.9	mg/kg		8015	10/30/14	1
C28-C40 Oil Range		U	.4	3.0	5.9	mg/kg		8015	10/30/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	79.3				% Rec.		8015	10/30/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Acenaphthene	83-32-9	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Acenaphthylene	208-96-8	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Benzo(a)anthracene	56-55-3	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Benzo(a)pyrene	50-32-8	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Benzo(b)fluoranthene	205-99-2	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Benzo(k)fluoranthene	207-08-9	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Chrysene	218-01-9	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Fluoranthene	206-44-0	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Fluorene	86-73-7	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Naphthalene	91-20-3	U	.00089	0.0089	0.030	mg/kg		8270C-SI	10/30/14	1
Phenanthrene	85-01-8	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
Pyrene	129-00-0	U	.00089	0.0030	0.0089	mg/kg		8270C-SI	10/30/14	1
2-Methylnaphthalene	91-57-6	U	.00095	0.0089	0.030	mg/kg		8270C-SI	10/30/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	47.5				% Rec.		8270C-SI	10/30/14	1
Nitrobenzene-d5	4165-60-0	75.3				% Rec.		8270C-SI	10/30/14	1
2-Fluorobiphenyl	321-60-8	72.1				% Rec.		8270C-SI	10/30/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.013	0.25	0.49	mg/kg		8270C	10/31/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
Benzyl Alcohol	100-51-6	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
Benzoic acid	65-85-0	U	.18	2.5	4.9	mg/kg		8270C	10/31/14	1
Carbazole	86-74-8	U	.0077	0.25	0.49	mg/kg		8270C	10/31/14	1

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U = Not Detected at the LOD
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L729802-04 (PH) - 6.1 @ 21.5c

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-04

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB10-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0077	0.25	0.49	mg/kg		8270C	10/31/14	1
4-Bromophenyl-phenylether	101-55-3	U	.016	0.25	0.49	mg/kg		8270C	10/31/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.0093	0.25	0.49	mg/kg		8270C	10/31/14	1
2-Chloronaphthalene	91-58-7	U	.0095	0.25	0.49	mg/kg		8270C	10/31/14	1
3,3-Dichlorobenzidine	91-94-1	U	.12	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4-Dinitrotoluene	121-14-2	U	.009	0.25	0.49	mg/kg		8270C	10/31/14	1
2,6-Dinitrotoluene	606-20-2	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
Hexachlorobenzene	118-74-1	U	.013	0.25	0.49	mg/kg		8270C	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.015	0.25	0.49	mg/kg		8270C	10/31/14	1
Hexachloroethane	67-72-1	U	.019	0.25	0.49	mg/kg		8270C	10/31/14	1
Isophorone	78-59-1	U	.0077	0.25	0.49	mg/kg		8270C	10/31/14	1
Nitrobenzene	98-95-3	U	.01	0.25	0.49	mg/kg		8270C	10/31/14	1
n-Nitrosodimethylamine	62-75-9	U	.096	0.25	0.49	mg/kg		8270C	10/31/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0087	0.25	0.49	mg/kg		8270C	10/31/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.013	0.25	0.49	mg/kg		8270C	10/31/14	1
Benzylbutyl phthalate	85-68-7	U	.015	0.25	0.49	mg/kg		8270C	10/31/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.018	0.25	0.49	mg/kg		8270C	10/31/14	1
Di-n-butyl phthalate	84-74-2	U	.016	0.25	0.49	mg/kg		8270C	10/31/14	1
Diethyl phthalate	84-66-2	U	.01	0.25	0.49	mg/kg		8270C	10/31/14	1
Dimethyl phthalate	131-11-3	U	.008	0.25	0.49	mg/kg		8270C	10/31/14	1
Di-n-octyl phthalate	117-84-0	U	.013	0.25	0.49	mg/kg		8270C	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.013	0.25	0.49	mg/kg		8270C	10/31/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0071	0.25	0.49	mg/kg		8270C	10/31/14	1
2-Chlorophenol	95-57-8	U	.012	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4-Dichlorophenol	120-83-2	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4-Dimethylphenol	105-67-9	U	.07	0.25	0.49	mg/kg		8270C	10/31/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.18	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4-Dinitrophenol	51-28-5	U	.14	0.25	0.49	mg/kg		8270C	10/31/14	1
2-Methylphenol	95-48-7	U	.015	0.25	0.49	mg/kg		8270C	10/31/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.012	0.25	0.49	mg/kg		8270C	10/31/14	1
2-Nitrophenol	88-75-5	U	.019	0.25	0.49	mg/kg		8270C	10/31/14	1
4-Nitrophenol	100-02-7	U	.077	0.25	0.49	mg/kg		8270C	10/31/14	1
4-Chloroaniline	106-47-8	U	.0052	0.25	0.49	mg/kg		8270C	10/31/14	1
2-Nitroaniline	88-74-4	U	.011	0.25	0.49	mg/kg		8270C	10/31/14	1
1,2-Diphenylhydrazine	103-33-3	U	.0021	0.25	0.49	mg/kg		8270C	10/31/14	1
3-Nitroaniline	99-09-2	U	.012	0.25	0.49	mg/kg		8270C	10/31/14	1
4-Nitroaniline	100-01-6	U	.0095	0.25	0.49	mg/kg		8270C	10/31/14	1
Pentachlorophenol	87-86-5	U	.071	0.25	0.49	mg/kg		8270C	10/31/14	1
Phenol	108-95-2	U	.01	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4,5-Trichlorophenol	95-95-4	U	.015	0.25	0.49	mg/kg		8270C	10/31/14	1
2,4,6-Trichlorophenol	88-06-2	U	.012	0.25	0.49	mg/kg		8270C	10/31/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	65.4				% Rec.		8270C	10/31/14	1
Phenol-d5	4165-62-2	57.4				% Rec.		8270C	10/31/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18,2014

ESC Sample # : L729802-04

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : TU515-SB10-NS01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:35

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	61.2				% Rec.		8270C	10/31/14	1
2-Fluorobiphenyl	321-60-8	76.2				% Rec.		8270C	10/31/14	1
2,4,6-Tribromophenol	118-79-6	74.0				% Rec.		8270C	10/31/14	1
p-Terphenyl-d14	1718-51-0	60.9				% Rec.		8270C	10/31/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS02

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
pH	00010-29-7	6.2				su		9045D	10/28/14	1
Total Solids	TSOLIDS	70.2	.0333			%		2540 G-2	10/30/14	1
Mercury	7439-97-6	U	.004	0.014	0.028	mg/kg		7471	10/28/14	1
Aluminum	7429-90-5	1700	26	36.	71.	mg/kg		6010B	11/05/14	5
Antimony	7440-36-0	U	5.4	7.1	14.	mg/kg		6010B	11/05/14	5
Arsenic	7440-38-2	U	4.6	7.1	14.	mg/kg		6010B	11/05/14	5
Barium	7440-39-3	20.	1.2	1.8	3.6	mg/kg		6010B	11/05/14	5
Beryllium	7440-41-7	U	.5	0.71	1.4	mg/kg		6010B	11/05/14	5
Cadmium	7440-43-9	U	.5	1.8	3.6	mg/kg		6010B	11/05/14	5
Chromium	7440-47-3	2.1	1	3.6	7.1	mg/kg	J	6010B	11/05/14	5
Cobalt	7440-48-4	U	1.7	3.6	7.1	mg/kg		6010B	11/05/14	5
Copper	7440-50-8	U	3.7	7.1	14.	mg/kg		6010B	11/05/14	5
Lead	7439-92-1	U	1.4	1.8	3.6	mg/kg		6010B	11/05/14	5
Manganese	7439-96-5	23.	.85	3.6	7.1	mg/kg		6010B	11/05/14	5
Nickel	7440-02-0	U	3.4	7.1	14.	mg/kg		6010B	11/05/14	5
Selenium	7782-49-2	U	5.3	7.1	14.	mg/kg		6010B	11/05/14	5
Silver	7440-22-4	U	2	3.6	7.1	mg/kg		6010B	11/05/14	5
Thallium	7440-28-0	U	4.6	7.1	14.	mg/kg		6010B	11/05/14	5
Vanadium	7440-62-2	5.4	1.7	7.1	14.	mg/kg	J	6010B	11/05/14	5
Zinc	7440-66-6	4.4	4.3	18.	36.	mg/kg	J	6010B	11/05/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	.031	0.071	0.14	mg/kg		8015D/GR	10/31/14	1
Surrogate Recovery (70-130)										
a,a,a-Trifluorotoluene(FID)	98-08-8	97.3				% Rec.		8015D/GR	10/31/14	1
Volatile Organics										
Acetone	67-64-1	0.030	.014	0.036	0.071	mg/kg	J	8260B	11/01/14	1
Benzene	71-43-2	0.0030	.00038	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Bromobenzene	108-86-1	U	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Bromochloromethane	74-97-5	U	.00056	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Bromodichloromethane	75-27-4	U	.00036	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Bromoform	75-25-2	U	.0006	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Bromomethane	74-83-9	U	.0018	0.0036	0.0071	mg/kg		8260B	11/01/14	1
n-Butylbenzene	104-51-8	U	.00037	0.00071	0.0014	mg/kg		8260B	11/01/14	1
sec-Butylbenzene	135-98-8	U	.00028	0.00071	0.0014	mg/kg		8260B	11/01/14	1
tert-Butylbenzene	98-06-6	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Carbon Disulfide	75-15-0	0.0036	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Carbon tetrachloride	56-23-5	U	.00047	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Chlorobenzene	108-90-7	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Chlorodibromomethane	124-48-1	U	.00053	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Chloroethane	75-00-3	U	.0014	0.0036	0.0071	mg/kg		8260B	11/01/14	1
Chloroform	67-66-3	U	.00033	0.0036	0.0071	mg/kg		8260B	11/01/14	1

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Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS02

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Chloromethane	74-87-3	U	.00054	0.00071	0.0036	mg/kg		8260B	11/01/14	1
2-Chlorotoluene	95-49-8	U	.00043	0.00071	0.0014	mg/kg		8260B	11/01/14	1
4-Chlorotoluene	106-43-4	U	.00034	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	.0014	0.0036	0.0071	mg/kg		8260B	11/01/14	1
1,2-Dibromoethane	106-93-4	U	.00048	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Dibromomethane	74-95-3	U	.00054	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichlorobenzene	95-50-1	U	.00043	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichlorobenzene	541-73-1	U	.00034	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,4-Dichlorobenzene	106-46-7	U	.00033	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Dichlorodifluoromethane	75-71-8	U	.001	0.0036	0.0071	mg/kg		8260B	11/01/14	1
1,1-Dichloroethane	75-34-3	U	.00028	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloroethane	107-06-2	U	.00037	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloroethene	75-35-4	U	.00043	0.00071	0.0014	mg/kg		8260B	11/01/14	1
cis-1,2-Dichloroethene	156-59-2	U	.00034	0.00071	0.0014	mg/kg		8260B	11/01/14	1
trans-1,2-Dichloroethene	156-60-5	U	.00037	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,2-Dichloropropane	78-87-5	U	.00051	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1-Dichloropropene	563-58-6	U	.00046	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,3-Dichloropropane	142-28-9	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1
cis-1,3-Dichloropropene	10061-01-5	U	.00037	0.00071	0.0014	mg/kg		8260B	11/01/14	1
trans-1,3-Dichloropropene	10061-02-6	U	.00038	0.00071	0.0014	mg/kg		8260B	11/01/14	1
2,2-Dichloropropane	594-20-7	U	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Ethylbenzene	100-41-4	U	.00043	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.00048	0.00071	0.0014	mg/kg		8260B	11/01/14	1
2-Hexanone	591-78-6	U	.0054	0.0071	0.014	mg/kg		8260B	11/01/14	1
Isopropylbenzene	98-82-8	U	.00034	0.00071	0.0014	mg/kg		8260B	11/01/14	1
p-Isopropyltoluene	99-87-6	U	.00028	0.00071	0.0014	mg/kg		8260B	11/01/14	1
2-Butanone (MEK)	78-93-3	U	.0067	0.0071	0.014	mg/kg		8260B	11/01/14	1
Methylene Chloride	75-09-2	U	.0014	0.0036	0.0071	mg/kg		8260B	11/01/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	.0027	0.0071	0.014	mg/kg		8260B	11/01/14	1
Methyl tert-butyl ether	1634-04-4	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Naphthalene	91-20-3	U	.0014	0.0036	0.0071	mg/kg		8260B	11/01/14	1
n-Propylbenzene	103-65-1	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Styrene	100-42-5	U	.00033	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	.00037	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	.00051	0.0011	0.0014	mg/kg		8260B	11/01/14	1
Tetrachloroethene	127-18-4	U	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Toluene	108-88-3	0.0021	.00061	0.0036	0.0071	mg/kg	J	8260B	11/01/14	1
1,2,3-Trichlorobenzene	87-61-6	U	.00044	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.00056	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1,1-Trichloroethane	71-55-6	U	.00041	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,1,2-Trichloroethane	79-00-5	U	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Trichloroethene	79-01-6	U	.0004	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Trichlorofluoromethane	75-69-4	U	.00054	0.0036	0.0071	mg/kg		8260B	11/01/14	1
1,2,3-Trichloropropane	96-18-4	U	.001	0.0014	0.0036	mg/kg		8260B	11/01/14	1
1,2,4-Trimethylbenzene	95-63-6	U	.0003	0.00071	0.0014	mg/kg		8260B	11/01/14	1

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS02

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
o-Xylene	95-47-6	U	.00048	0.00071	0.0014	mg/kg		8260B	11/01/14	1
m&p-Xylene	1330-20-7	U	.001	0.0014	0.0028	mg/kg		8260B	11/01/14	1
Vinyl chloride	75-01-4	U	.00041	0.00071	0.0014	mg/kg		8260B	11/01/14	1
1,3,5-Trimethylbenzene	108-67-8	U	.00038	0.00071	0.0014	mg/kg		8260B	11/01/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	97.1				% Rec.		8260B	11/01/14	1
Dibromofluoromethane	1868-53-7	99.3				% Rec.		8260B	11/01/14	1
4-Bromofluorobenzene	460-00-4	93.6				% Rec.		8260B	11/01/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		U	2.3	2.8	5.7	mg/kg		8015	10/30/14	1
C28-C40 Oil Range		U	.38	2.8	5.7	mg/kg		8015	10/30/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	81.5				% Rec.		8015	10/30/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Acenaphthene	83-32-9	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Acenaphthylene	208-96-8	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Benzo(a)anthracene	56-55-3	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Benzo(a)pyrene	50-32-8	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Benzo(b)fluoranthene	205-99-2	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Benzo(g,h,i)perylene	191-24-2	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Benzo(k)fluoranthene	207-08-9	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Chrysene	218-01-9	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Dibenz(a,h)anthracene	53-70-3	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Fluoranthene	206-44-0	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Fluorene	86-73-7	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
Naphthalene	91-20-3	U	.00085	0.0085	0.028	mg/kg		8270C-SI	10/30/14	1
Phenanthrene	85-01-8	0.0014	.00085	0.0028	0.0085	mg/kg	J	8270C-SI	10/30/14	1
Pyrene	129-00-0	U	.00085	0.0028	0.0085	mg/kg		8270C-SI	10/30/14	1
2-Methylnaphthalene	91-57-6	U	.00091	0.0085	0.028	mg/kg		8270C-SI	10/30/14	1
Surrogate Recovery										
p-Terphenyl-d14	1718-51-0	61.7				% Rec.		8270C-SI	10/30/14	1
Nitrobenzene-d5	4165-60-0	89.6				% Rec.		8270C-SI	10/30/14	1
2-Fluorobiphenyl	321-60-8	83.5				% Rec.		8270C-SI	10/30/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
Bis(2-chloroethyl)ether	111-44-4	U	.013	0.24	0.47	mg/kg		8270C	10/31/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
Benzyl Alcohol	100-51-6	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
Benzoic acid	65-85-0	U	.17	2.4	4.7	mg/kg		8270C	10/31/14	1
Carbazole	86-74-8	U	.0074	0.24	0.47	mg/kg		8270C	10/31/14	1

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L729802-05 (PH) - 6.2 @ 21.1c

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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS02

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dibenzofuran	132-64-9	U	.0074	0.24	0.47	mg/kg		8270C	10/31/14	1
4-Bromophenyl-phenylether	101-55-3	U	.016	0.24	0.47	mg/kg		8270C	10/31/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	.009	0.24	0.47	mg/kg		8270C	10/31/14	1
2-Chloronaphthalene	91-58-7	U	.0091	0.24	0.47	mg/kg		8270C	10/31/14	1
3,3-Dichlorobenzidine	91-94-1	U	.11	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4-Dinitrotoluene	121-14-2	U	.0087	0.24	0.47	mg/kg		8270C	10/31/14	1
2,6-Dinitrotoluene	606-20-2	U	.01	0.24	0.47	mg/kg		8270C	10/31/14	1
Hexachlorobenzene	118-74-1	U	.012	0.24	0.47	mg/kg		8270C	10/31/14	1
Hexachloro-1,3-butadiene	87-68-3	U	.014	0.24	0.47	mg/kg		8270C	10/31/14	1
Hexachloroethane	67-72-1	U	.018	0.24	0.47	mg/kg		8270C	10/31/14	1
Isophorone	78-59-1	U	.0074	0.24	0.47	mg/kg		8270C	10/31/14	1
Nitrobenzene	98-95-3	U	.01	0.24	0.47	mg/kg		8270C	10/31/14	1
n-Nitrosodimethylamine	62-75-9	U	.092	0.24	0.47	mg/kg		8270C	10/31/14	1
n-Nitrosodiphenylamine	86-30-6	U	.0084	0.24	0.47	mg/kg		8270C	10/31/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	.013	0.24	0.47	mg/kg		8270C	10/31/14	1
Benzylbutyl phthalate	85-68-7	U	.014	0.24	0.47	mg/kg		8270C	10/31/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	.017	0.24	0.47	mg/kg		8270C	10/31/14	1
Di-n-butyl phthalate	84-74-2	U	.016	0.24	0.47	mg/kg		8270C	10/31/14	1
Diethyl phthalate	84-66-2	U	.0098	0.24	0.47	mg/kg		8270C	10/31/14	1
Dimethyl phthalate	131-11-3	U	.0077	0.24	0.47	mg/kg		8270C	10/31/14	1
Di-n-octyl phthalate	117-84-0	U	.013	0.24	0.47	mg/kg		8270C	10/31/14	1
1,2,4-Trichlorobenzene	120-82-1	U	.012	0.24	0.47	mg/kg		8270C	10/31/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	.0068	0.24	0.47	mg/kg		8270C	10/31/14	1
2-Chlorophenol	95-57-8	U	.012	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4-Dichlorophenol	120-83-2	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4-Dimethylphenol	105-67-9	U	.067	0.24	0.47	mg/kg		8270C	10/31/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	.17	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4-Dinitrophenol	51-28-5	U	.14	0.24	0.47	mg/kg		8270C	10/31/14	1
2-Methylphenol	95-48-7	U	.014	0.24	0.47	mg/kg		8270C	10/31/14	1
3&4-Methyl Phenol	3&4-Methyl	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
2-Nitrophenol	88-75-5	U	.018	0.24	0.47	mg/kg		8270C	10/31/14	1
4-Nitrophenol	100-02-7	U	.074	0.24	0.47	mg/kg		8270C	10/31/14	1
4-Chloroaniline	106-47-8	U	.005	0.24	0.47	mg/kg		8270C	10/31/14	1
2-Nitroaniline	88-74-4	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
1,2-Diphenylhydrazine	103-33-3	U	.002	0.24	0.47	mg/kg		8270C	10/31/14	1
3-Nitroaniline	99-09-2	U	.012	0.24	0.47	mg/kg		8270C	10/31/14	1
4-Nitroaniline	100-01-6	U	.0091	0.24	0.47	mg/kg		8270C	10/31/14	1
Pentachlorophenol	87-86-5	U	.068	0.24	0.47	mg/kg		8270C	10/31/14	1
Phenol	108-95-2	U	.01	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4,5-Trichlorophenol	95-95-4	U	.014	0.24	0.47	mg/kg		8270C	10/31/14	1
2,4,6-Trichlorophenol	88-06-2	U	.011	0.24	0.47	mg/kg		8270C	10/31/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	60.7				% Rec.		8270C	10/31/14	1
Phenol-d5	4165-62-2	53.0				% Rec.		8270C	10/31/14	1

Results listed are dry weight basis.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-05

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : TU515-SB10-NS02

Collected By : Jon Mallonee
Collection Date : 10/23/14 17:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Nitrobenzene-d5	4165-60-0	58.1				% Rec.		8270C	10/31/14	1
2-Fluorobiphenyl	321-60-8	71.7				% Rec.		8270C	10/31/14	1
2,4,6-Tribromophenol	118-79-6	66.7				% Rec.		8270C	10/31/14	1
p-Terphenyl-d14	1718-51-0	58.6				% Rec.		8270C	10/31/14	1

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Fax (615) 758-5859

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-06

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW01-DT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 10:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	10/27/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	100.				% Rec.		8015D/G	10/27/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/30/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/30/14	1
Bromodichloromethane	75-27-4	0.40	0.38	0.50	1	ug/l	J	8260B	10/30/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/30/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/30/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Carbon Disulfide	75-15-0	0.94	0.28	0.50	1	ug/l	J	8260B	10/30/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/30/14	1
Chloroform	67-66-3	3.1	0.32	2.5	5	ug/l	J	8260B	10/30/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/30/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/30/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/30/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/30/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/30/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloroethene	75-35-4	0.46	0.4	0.50	1	ug/l	J	8260B	10/30/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/30/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/30/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1

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1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-06

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : H-TU904-GW01-DT01

Collected By : Jon Mallonee
Collection Date : 10/23/14 10:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/30/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/30/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/30/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Naphthalene	91-20-3	3.1	1	2.5	5	ug/l	J	8260B	10/30/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/30/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/30/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/30/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/30/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Trichloroethene	79-01-6	3.1	0.4	0.50	1	ug/l		8260B	10/30/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/30/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/30/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/30/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/30/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	101.				% Rec.		8260B	10/30/14	1
Dibromofluoromethane	1868-53-7	103.				% Rec.		8260B	10/30/14	1
4-Bromofluorobenzene	460-00-4	91.7				% Rec.		8260B	10/30/14	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-07

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW01-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 10:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	10/27/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	100.				% Rec.		8015D/G	10/27/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/30/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/30/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/30/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/30/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Carbon Disulfide	75-15-0	1.0	0.28	0.50	1	ug/l		8260B	10/30/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/30/14	1
Chloroform	67-66-3	3.2	0.32	2.5	5	ug/l	J	8260B	10/30/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/30/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/30/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/30/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/30/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/30/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloroethene	75-35-4	0.45	0.4	0.50	1	ug/l	J	8260B	10/30/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/30/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/30/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1

U = Not Detected at the LOD
Note:
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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-07

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : H-TU904-GW01-NT01

Collected By : Jon Mallonee
Collection Date : 10/23/14 10:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/30/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/30/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/30/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Naphthalene	91-20-3	2.9	1	2.5	5	ug/l	J	8260B	10/30/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/30/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/30/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/30/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/30/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Trichloroethene	79-01-6	2.7	0.4	0.50	1	ug/l		8260B	10/30/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/30/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/30/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/30/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/30/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	98.2				% Rec.		8260B	10/30/14	1
Dibromofluoromethane	1868-53-7	99.0				% Rec.		8260B	10/30/14	1
4-Bromofluorobenzene	460-00-4	94.3				% Rec.		8260B	10/30/14	1

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-08

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW07-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 16:56

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	10/31/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	101.				% Rec.		8015D/G	10/31/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/30/14	1
Benzene	71-43-2	0.69	0.33	0.50	1	ug/l	J	8260B	10/30/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/30/14	1
Bromodichloromethane	75-27-4	0.50	0.38	0.50	1	ug/l	J	8260B	10/30/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/30/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/30/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Carbon Disulfide	75-15-0	0.42	0.28	0.50	1	ug/l	J	8260B	10/30/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/30/14	1
Chloroform	67-66-3	2.0	0.32	2.5	5	ug/l	J	8260B	10/30/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/30/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/30/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/30/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/30/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/30/14	1
1,1-Dichloroethane	75-34-3	0.39	0.26	0.50	1	ug/l	J	8260B	10/30/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloroethene	75-35-4	0.93	0.4	0.50	1	ug/l	J	8260B	10/30/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/30/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/30/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1

U = Not Detected at the LOD
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-08

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW07-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 16:56

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/30/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/30/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/30/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	10/30/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/30/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/30/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/30/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/30/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Trichloroethene	79-01-6	12.	0.4	0.50	1	ug/l		8260B	10/30/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/30/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/30/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/30/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/30/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	98.9				% Rec.		8260B	10/30/14	1
Dibromofluoromethane	1868-53-7	102.				% Rec.		8260B	10/30/14	1
4-Bromofluorobenzene	460-00-4	97.8				% Rec.		8260B	10/30/14	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-09

Site ID :

Project # : 23446543.0053AA

Date Received : October 25, 2014
Description : Holloman AFB

Sample ID : H-TU904-GW03-NT01

Collected By : Jon Mallonee
Collection Date : 10/23/14 13:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	10/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.7				% Rec.		8015D/G	10/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	10/30/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	10/30/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	10/30/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	10/30/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
Carbon Disulfide	75-15-0	0.87	0.28	0.50	1	ug/l	J	8260B	10/30/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	10/30/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	10/30/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	10/30/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	10/30/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	10/30/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	10/30/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	10/30/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	10/30/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	10/30/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	10/30/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	10/30/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	10/30/14	1

U = Not Detected at the LOD
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Fax (615) 758-5859

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Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

November 18, 2014

ESC Sample # : L729802-09

Date Received : October 25, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU904-GW03-NT01

Project # : 23446543.0053AA

Collected By : Jon Mallonee
Collection Date : 10/23/14 13:45

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	10/30/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	10/30/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	10/30/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	10/30/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	10/30/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	10/30/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	10/30/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	10/30/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	10/30/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	10/30/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	10/30/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	10/30/14	1
Trichloroethene	79-01-6	5.7	0.4	0.50	1	ug/l		8260B	10/30/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	10/30/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	10/30/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	10/30/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	10/30/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	10/30/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	10/30/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	10/30/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	99.5				% Rec.		8260B	10/30/14	1
Dibromofluoromethane	1868-53-7	102.				% Rec.		8260B	10/30/14	1
4-Bromofluorobenzene	460-00-4	94.8				% Rec.		8260B	10/30/14	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L729802-01	WG752032	SAMP	Acetone	R3001756	J
	WG752285	SAMP	Aluminum	R3002554	O1VJ3
	WG752285	SAMP	Chromium	R3002554	J
	WG752285	SAMP	Silver	R3002554	O1J6J3
	WG752285	SAMP	Vanadium	R3002554	J
L729802-03	WG750753	SAMP	Mercury	R3000606	J
	WG752285	SAMP	Chromium	R3002554	J
	WG752285	SAMP	Vanadium	R3002554	J
L729802-04	WG750753	SAMP	Mercury	R3000606	J
	WG752032	SAMP	Acetone	R3001756	J
	WG752285	SAMP	Manganese	R3002554	J
L729802-05	WG751305	SAMP	Phenanthrene	R3001229	J
	WG752032	SAMP	Acetone	R3001756	J
	WG752032	SAMP	Toluene	R3001756	J
	WG752285	SAMP	Chromium	R3002554	J
	WG752285	SAMP	Vanadium	R3002554	J
	WG752285	SAMP	Zinc	R3002554	J
L729802-06	WG750823	SAMP	Bromodichloromethane	R3001506	J
	WG750823	SAMP	Carbon Disulfide	R3001506	J
	WG750823	SAMP	Chloroform	R3001506	J
	WG750823	SAMP	1,1-Dichloroethene	R3001506	J
	WG750823	SAMP	Naphthalene	R3001506	J
L729802-07	WG750823	SAMP	Chloroform	R3001506	J
	WG750823	SAMP	1,1-Dichloroethene	R3001506	J
	WG750823	SAMP	Naphthalene	R3001506	J
L729802-08	WG750823	SAMP	Benzene	R3001506	J
	WG750823	SAMP	Bromodichloromethane	R3001506	J
	WG750823	SAMP	Carbon Disulfide	R3001506	J
	WG750823	SAMP	Chloroform	R3001506	J
	WG750823	SAMP	1,1-Dichloroethane	R3001506	J
	WG750823	SAMP	1,1-Dichloroethene	R3001506	J
L729802-09	WG750823	SAMP	Carbon Disulfide	R3001506	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
O1	(ESC) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Total Solids by Method 2540 G-2011

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Mt. Juliet, TN 37122
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(800) 767-5859
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Quality Control Summary
SDG: L729802

Total Solids by Method 2540 G-2011
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751277**
Analysis Date:	10/30/2014 7:21:00 AM	Analyst:	475
Instrument ID:	LOGBAL1		
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751277**
Description: **Total Solids by Method 2540 G-2011 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/29/2014	10/30/2014
L729802-03 1x	10/23/2014	10/29/2014	10/30/2014
L729802-04 1x	10/23/2014	10/29/2014	10/30/2014
L729802-05 1x	10/23/2014	10/29/2014	10/30/2014

Parameters in bold text are reported in this SDG

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751277**
Analysis Date:	10/30/2014 7:21:00 AM	Analyst:	475
Instrument ID:	LOGBAL1		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
LOGBAL1	LCS WG751277	LCS WG751277		10/30/2014	7:20 AM
LOGBAL1	DUP WG751277	DUP WG751277		10/30/2014	7:20 AM
LOGBAL1	Blank WG751277	Blank WG751277		10/30/2014	7:20 AM
LOGBAL1	TU515-SB02-NS01	L729802-01		10/30/2014	7:21 AM
LOGBAL1	TU515-SB08-NS01	L729802-03		10/30/2014	7:21 AM
LOGBAL1	TU515-SB10-NS01	L729802-04		10/30/2014	7:22 AM
LOGBAL1	TU515-SB10-NS02	L729802-05		10/30/2014	7:22 AM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751277**
Analysis Date:	10/30/2014 7:21:00 AM	Analyst:	475
Instrument ID:	LOGBAL1		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Total Solids	TSOLIDS	< 0.100	< 0.0333	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Total Solids	1	50	50.013	100	85 - 115	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Total Solids by Method 2540 G-2011		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751277**
Analysis Date:	10/30/2014 7:21:00 AM	Analyst:	475
Instrument ID:	LOGBAL1		
Sample Numbers:	L729802-01, -03, -04, -05		

Sample Duplicate

L729796-15

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Total Solids	1	87.378	87.699	0.37	5	

Parameters in bold text are reported in this SDG

Raw Data

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/30/2014 7:22 AM

Workgroup:

WG751277

	Std. ID	Exp.Date	True Value
LCS	14G30014	01/30/15	50

Method: SM-2540 G-2011

Prep Analyst: 475

Prep Date/Time: 10/29/14 1129

Instrument: LOGBAL1

Capture Analyst: 475

Analysis Date: 10/30/14 0719

State	Sample ID	Mtx	Collect Date	Vessel ID	A Vessel Wt (g)	B Sample + Vessel Wt (g)	C Oven Wt 1 (g)	D Oven Wt 2 (g)	E Oven Wt Diff. (g)	F TS Result (%)	TS Quals	G % Moisture (%)	% Moisture Quals	H TS % Rec (%)	I TS RPD	J % Moisture % Rec (%)	K % Moisture RPD (%)
	BLANK	QC	10/29/2014	J1	1.0294	1.0294	1.0291	1.0291	0.0000	0.0003		99.9997					
	LCS	QC	10/29/2014	J2	1.0289	11.0292	6.0303	6.0303	0.0000	50.0125		49.9875		100.02		99.98	
TX	L729796-15	SS	10/24/2014	J3	1.0301	14.4917	12.7926	12.7926	0.0000	87.3782		12.6218					
TX	L729796-15DUP	SS	10/24/2014	J4	1.0277	12.9991	11.5265	11.5265	0.0000	87.6990		12.3010			0.37		2.57
TX	L729796-16	SS	10/24/2014	J5	1.0295	15.2227	14.2173	14.2173	0.0000	92.9163		7.0837					
TX	L729796-17	SS	10/24/2014	J6	1.0329	9.6455	7.7943	7.7943	0.0000	78.5059		21.4941					
TX	L729796-18	SS	10/24/2014	J7	1.0300	11.1346	10.2236	10.2236	0.0000	90.9843		9.0157					
NM	L729802-01	SS	10/23/2014	J8	1.0219	8.5308	6.4194	6.4194	0.0000	71.8814		28.1186					
NM	L729802-03	SS	10/23/2014	J9	1.0175	12.5216	9.0552	9.0552	0.0000	69.8681		30.1319					
NM	L729802-04	SS	10/23/2014	J10	1.0220	10.5067	7.4322	7.4322	0.0000	67.5846		32.4154					
NM	L729802-05	SS	10/23/2014	J11	1.0272	15.0628	10.8834	10.8834	0.0000	70.2229		29.7771					
CA	L729819-01	SS	10/23/2014	J12	1.0208	12.7711	11.6975	11.6975	0.0000	90.8632		9.1368					
CA	L729819-02	SS	10/23/2014	J13	1.0198	11.8975	10.5637	10.5637	0.0000	87.7382		12.2618					

** Samples highlighted in gray with italic text will not be captured **

Laboratory Bench Sheet

Total Solids / Moisture (Soils)

10/30/2014 7:22 AM

Workgroup:

WG751277

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven-12hr	10/29/2014 11:38 AM	104	10/30/2014 7:19 AM	104	BLANK, LCS, L729796-15, L729796-15DUP, L729796-16, L729796-17, L729796-18, L729802-01, L729802-03, L729802-04, L729802-05, L729819-01, L729819-02

Calculations

[E] Oven Wt Diff. = ABS (D - C)

[F] TS Result = ((D - A) * 100) / (B - A)

[F] TS Result (Blank Samples) = ABS(D - B)

[G] % Moisture Result = 100 - F

[H] & [J] Percent Recovery = (Observed Result / True Value) * 100

[I] & [K] RPD = (ABS(Parent Result - Duplicate Result) / ((Parent Result + Duplicate Result) / 2)) * 100

pH by Method 9045D

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(800) 767-5859
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Quality Control Summary
SDG: L729802

pH by Method 9045D
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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(800) 767-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751078**
Analysis Date:	10/28/2014 11:45:00 AM	Analyst:	632
Instrument ID:	ORION VS-1	Prep Date:	10/27/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751078**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/28/2014	10/28/2014
L729802-03 1x	10/23/2014	10/28/2014	10/28/2014
L729802-04 1x	10/23/2014	10/28/2014	10/28/2014
L729802-05 1x	10/23/2014	10/28/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751078**
Analysis Date:	10/28/2014 11:45:00 AM	Analyst:	632
Instrument ID:	ORION VS-1	Prep Date:	10/27/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ORION VS-1	LCS WG751078	LCS WG751078		10/28/2014	11:45 AM
ORION VS-1	LCSD WG751078	LCSD WG751078		10/28/2014	11:45 AM
ORION VS-1	DUP WG751078	DUP WG751078		10/28/2014	11:45 AM
ORION VS-1	DUP WG751078	DUP WG751078		10/28/2014	11:45 AM
ORION VS-1	TU515-SB02-NS01	L729802-01		10/28/2014	11:45 AM
ORION VS-1	TU515-SB08-NS01	L729802-03		10/28/2014	11:45 AM
ORION VS-1	TU515-SB10-NS01	L729802-04		10/28/2014	11:45 AM
ORION VS-1	TU515-SB10-NS02	L729802-05		10/28/2014	11:45 AM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751078**
Analysis Date:	10/28/2014 11:45:00 AM	Analyst:	632
Instrument ID:	ORION VS-1	Prep Date:	10/27/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.35	100	98.3 - 101.7	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
pH	1	6.33	6.37	101	98.3 - 101.7	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
pH	1	6.33	6.35	100	6.37	101	98.3 - 101.7		0.31	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	pH by Method 9045D		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751078**
Analysis Date:	10/28/2014 11:45:00 AM	Analyst:	632
Instrument ID:	ORION VS-1	Prep Date:	10/27/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Sample Duplicate

L729764-01

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	5.9	5.95	0.84	1	

Sample Duplicate

L729915-04

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
pH	1	9.1	9.1	0	1	

Parameters in bold text are reported in this SDG

Raw Data

Date :10/28/2

Time :10:44:05AM

Environmental Science Corporation

LABORATORY BENCH SHEET

REVIEWED BY:

10.28.14

Date Created : 10/27/14

By Analyst : ~~661~~ JM632

Room Temp 22.3

Test Abbrev. **PH**

Testname pH

Date Analyzed : 10/28/14

Time Analyzed : 11:45

WORKGROUP **WG751078**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/28/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
RITEXPWKS 10/23/14 11:00A	L729764-01 17562892	SS 9045D	22.1	5.93	5.9
URSTAZ 10/23/14 2:50PM	L729802-01 17563496	SS 9045D	21.6	6.01	6.0
URSTAZ 10/23/14 5:40PM	L729802-03 17563509	SS 9045D	21.5	5.96	6.0
URSTAZ 10/23/14 5:35PM	L729802-04 17563518	SS 9045D	21.5	6.06	6.1
URSTAZ 10/23/14 5:30PM	L729802-05 17563526	SS 9045D	21.1	6.22	6.2
LTENVRCO 10/23/14 11:41A	L729857-01 17565073	SS 9045D	21.0	6.20	6.2
LTENVRCO 10/23/14 11:45A	L729857-03 17565103	SS 9045D	21.2	6.42	6.4
LTENVRCO 10/23/14 11:48A	L729857-05 17565109	SS 9045D	21.1	6.56	6.6
TRILEAF 10/20/14 3:11PM	L729914-01	SS 9045D	20.9	6.67	6.7
TERRSLMO 10/7/14 12:35PM	L729915-01	SS 9045D	21.3	6.92	6.9

Quality Control : Reviewed by _____ Date _____

Slope 96.8%				
Buffer Check TV: 7.00	OBS: 7.05 TEMP: 22.5	OBS: 7.03 TEMP: 21.9	OBS: 7.03 TEMP: 21.8	
Duplicate 764-1	Δ= 0.02	X̄= 5.94	0.34 %RPD	
Calibration-Buffer 4	169.0 mV@ 20.5	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	-6.5 mV @ 21.1	14D19224	EXP: 01/31/16	14H19179
Calibration-Buffer 10	-177.9 mV@ 21.6	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-340.5 mV @ 20.7	14G10890	EXP: 05/31/15	
Cal. Buffer 1	320.8 mV @ 20.9	14H28645	EXP: 01/31/16	

Date Created : 10/27/14

By Analyst : 661

Room Temp _____

Test Abbrev. **PH**

Testname pH

Date Analyzed : _____

Time Analyzed : _____

WORKGROUP **WG751078**

PROBE #1

Instrument : ORION VS-1

Calib. Date : 10/28/2014

ACCTNUM	SAMPLENUM Container ID	MATRIX EPA Method	TEMP in C	VALUE (pH Units)	REPORT
TERRSLMO 10/8/14 7:14AM	L729915-02	SS 9045D	21.6	7.14	7.1
TERRSLMO 10/9/14 12:00PM	L729915-03	SS 9045D	21.0	10.54	11
TERRSLMO 10/9/14 6:40PM	L729915-04	SS 9045D	20.6	9.10	9.1
NONE DUP ~~915-4~~ 764-1 JM632	WG751078-1	SS 9045D	21.4	5.95	5.95
NONE DUP 915-4	WG751078-2	SS 9045D	20.8	9.10	9.10
NONE LCS	WG751078-3	SS 9045D	22.6	6.35	6.35
NONE LCSD	WG751078-4	SS 9045D	22.3	6.37	6.37

LCS-TV = 6.33
OV= 6.35
Range= 6.23-6.43

LCS/D: Delta = <0.1

Quality Control : Reviewed by _____ Date _____

Slope 96.8%				
Buffer Check TV: 7.00	OBS: JM632 TEMP:	OBS: TEMP:	OBS: TEMP:	
Duplicate 915-4	Δ= 0.0	$\bar{X}$= 9.10	0.0 %RPD	
Calibration-Buffer 4	169.0 mV@ 20.5	14H28643	EXP: 01/31/16	LCS
Calibration-Buffer 7	-6.5 mV @ 21.1	14D19224	EXP: 01/31/16	14H19179
Calibration-Buffer 10	-177.9 mV@ 21.6	14H28644	EXP: 10/31/15	EXP: 05/31/16
Cal. Buffer 13	-340.5 mV @ 20.7	14G10890	EXP: 05/31/15	
Cal. Buffer 1	320.8 mV @ 20.9	14H28645	EXP: 01/31/16	

pH PREP LOG
Environmental Science Corp.

WORKGROUP : WG751078

START 10:44 STOP 11:44

DATE: 10/28/2014

ANALYST JM632

CENTRIFUGE TUBES LOT# E13090K3 VENDOR: GBO

Sample #	Matrix	SAMPLE WT	WATER WT
/	/ JM632	/	/
DUP 764-1	SS	20.40	20.42
L729764-01	SS	20.38	20.29
L729802-01	SS	20.03	20.04
L729802-03	SS	20.22	20.19
L729802-04	SS	20.30	20.36
L729802-05	SS	21.44	21.52
L729857-01	SS	20.77	20.68
L729857-03	SS	20.50	20.53
L729857-05	SS	20.44	20.47
L729914-01	SS	20.36	20.40
L729915-01	SS	20.40	20.35
L729915-02	SS	20.73	20.75
L729915-03	SS	20.12	20.10
L729915-04	SS	20.30	20.36
DUP 915-4	SS	20.32	20.27

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

27-OCT-14 03:19 PM

WIP 10:44

Tuesday

Work Group: WG751078
Department: 19 WetChem Prep
Operator: 661
Created: 27-OCT-14
Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	PR Cont. Type
L729764-01	17562892	Ritchie Exploration, Inc.- Wichita, K	PH	SS	WG	23-OCT-14	26-OCT-14	R5 4ozClr-NoPres
L729802-01	17563496	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	26-OCT-14	R5 2ozClr-NoPres
L729802-03	17563509	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	26-OCT-14	R5 2ozClr-NoPres
L729802-04	17563518	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	26-OCT-14	R5 2ozClr-NoPres
L729802-05	17563526	URS Corporation - Tucson AZ - 10	PH	SS	WG	23-OCT-14	26-OCT-14	R5 2ozClr-NoPres
L729857-01	17565073	LT Environmental- Rifle, CO	PH	SS	WG	23-OCT-14	26-OCT-14	R5 4ozClr-NoPres
L729857-03	17565103	LT Environmental- Rifle, CO	PH	SS	WG	23-OCT-14	26-OCT-14	R5 4ozClr-NoPres
L729857-05	17565109	LT Environmental- Rifle, CO	PH	SS	WG	23-OCT-14	26-OCT-14	R5 4ozClr-NoPres
L729914-01 Orp		Trileaf - SL, MO	PH	SS	WG	20-OCT-14	23-OCT-14	R2
L729915-01 orp		Terracon - St.Louis, MO	PH	SS	WG	07-OCT-14	11-OCT-14	R3
L729915-02		Terracon - St.Louis, MO	PH	SS	WG	08-OCT-14	11-OCT-14	R3
L729915-03		Terracon - St.Louis, MO	PH	SS	WG	09-OCT-14	12-OCT-14	R3
L729915-04		Terracon - St.Louis, MO	PH	SS	WG	09-OCT-14	12-OCT-14	R3

Comments:

L729802-01	EDD/QC4
L729802-03	EDD/QC4
L729802-04	EDD/QC4
L729802-05	EDD/QC4
L729914-01	Relogged from L728871-01. AV 10/27
L729915-01	Relogged from L726995-01. AV 10/27
L729915-02	Relogged from L726995-02. AV 10/27
L729915-03	Relogged from L727120-01. AV 10/27
L729915-04	Relogged from L727120-02. AV 10/27

Mercury by Method 7471

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Quality Control Summary
SDG: L729802

Mercury by Method 7471
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750753**
Analysis Date:	10/28/2014 9:14:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG750753**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/27/2014	10/28/2014
L729802-03 1x	10/23/2014	10/27/2014	10/28/2014
L729802-04 1x	10/23/2014	10/27/2014	10/28/2014
L729802-05 1x	10/23/2014	10/27/2014	10/28/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750753**
Analysis Date:	10/28/2014 9:14:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG750753	Blank WG750753	11	10/28/2014	8:11 AM
CVAA3	LCS WG750753	LCS WG750753	12	10/28/2014	8:14 AM
CVAA3	LCSD WG750753	LCSD WG750753	13	10/28/2014	8:17 AM
CVAA3	MS WG750753	MS WG750753	15	10/28/2014	8:22 AM
CVAA3	MSD WG750753	MSD WG750753	16	10/28/2014	8:25 AM
CVAA3	DUP WG750753	DUP WG750753	17	10/28/2014	8:27 AM
CVAA3	TU515-SB02-NS01	L729802-01	35	10/28/2014	9:14 AM
CVAA3	TU515-SB08-NS01	L729802-03	36	10/28/2014	9:16 AM
CVAA3	TU515-SB10-NS01	L729802-04	37	10/28/2014	9:19 AM
CVAA3	TU515-SB10-NS02	L729802-05	38	10/28/2014	9:21 AM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750753**
Analysis Date:	10/28/2014 9:14:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury	7439-97-6	< 0.0200	< 0.00280	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	50	12.4	13.888	112	71.6 - 128	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	50	12.4	13.601	110	71.6 - 128	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	50	12.4	13.888	112	13.601	110	71.6 - 128		2	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7471		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750753**
Analysis Date:	10/28/2014 9:14:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	10/25/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Serial Dilution

L729797-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	0.0044	<0.014	68	10	

Matrix Spike / Matrix Spike Duplicate

L729797-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	0.5	0.0044	0.4796	95	0.4567	90	80 - 120		5	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 10/28/2014 8:04 AM
Analysis Time: 0804
Data File: 102814CVAA3 S

Analyte	Conc.			
Mercury	0.0004	0.0004	98 %	70-130

Standard Type: ICV
Analysis Date: 10/28/2014 8:06 AM
Analysis Time: 0806
Data File: 102814CVAA3 S

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0029	0.003	98 %	90-110

Standard Type: CCV
Analysis Date: 10/28/2014 8:53 AM
Analysis Time: 0853
Data File: 102814CVAA3 S

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	103 %	90-110

Standard Type: CCVLL
Analysis Date: 10/28/2014 9:26 AM
Analysis Time: 0926
Data File: 102814CVAA3 S

Analyte	Conc.			
Mercury	0.0004	0.0004	98 %	70-130

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: CVAA3

Standard Type: CCV
Analysis Date: 10/28/2014 9:29 AM
Analysis Time: 0929
Data File: 102814CVAA3 S

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	104 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 10/28/2014 8:09 AM
Analysis Time: 0809
Data File: 102814CVAA3 S

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102814CVAA3 S

Standard Type: CCB
Analysis Date: 10/28/2014 8:56 AM
Analysis Time: 0856
Data File: 102814CVAA3 S

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102814CVAA3 S

Standard Type: CCB
Analysis Date: 10/28/2014 9:32 AM
Analysis Time: 0932
Data File: 102814CVAA3 S

Analyte	MDL	Conc	Filename
Mercury	0.0028	< 0.0028	102814CVAA3 S

*** - calibrated by linear regression*

Raw Data

Laboratory Bench Sheet

Printed:10/28/2014 06:57

Workgroup:	WG750753
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102714

Calibration Standards

0.1 ppb	14J23419
0.2ppb	14J23419
0.4 ppb	14J23419
1.0 ppb	14J23419
2.0 ppb	14J23419
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGA

Temp On:	93 deg C
Temp Off:	95 deg C
Time On:	1500
Time Off:	1530

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368042

Laboratory Bench Sheet

Printed:10/28/2014 06:57

Workgroup:	WG750859
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102714

Calibration Standards

0.1 ppb	14J23419
0.2ppb	14J23419
0.4 ppb	14J23419
1.0 ppb	14J23419
2.0 ppb	14J23419
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGB

Temp On:	93 deg C
Temp Off:	95 deg C
Time On:	1500
Time Off:	1530

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368042

Laboratory Bench Sheet

Printed:10/28/2014 06:57

Workgroup:	WG750860
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7471A
Prep Analyst:	628
Prep Date:	102714

Calibration Standards

0.1 ppb	14J23419
0.2ppb	14J23419
0.4 ppb	14J23419
1.0 ppb	14J23419
2.0 ppb	14J23419
5.0 ppb	14J09762
10.0 ppb	14J09762

Hot Block

Name:HGB

Temp On:	93 deg C
Temp Off:	95 deg C
Time On:	1500
Time Off:	1530

QC Standards

ICV:	14J09761
ICV Low Level:	14J23419
CCV:	14J09762
CCV Low Level:	14J23419
LCS:	14J01303
MS/MSD:	14J09762

Reagent Standards

HNO3:	14I12394
HCl:	14J22394
KMNO4:	14J22397
K2S2O8:	
NaCl:	13J04016
H8N2O6S:	14J23500
SnCl:	14I09234
H2SO4:	
SiO2:	14J09720
Aqua Regia:	14J23501

Comments:

Worksheet ID:368042

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG750753	S5	0.3280	27.5			WG750753	g	Tan	Sand
LCS WG750753	S5	0.3000	27.5	1	50	WG750753	g	Brown	Dirt
LCSD WG750753	S5	0.3000	27.5	1	50	WG750753	g	Brown	Dirt
L729797-01 WG750753	SS	0.3480	27.5			WG750753	g	Brown	Sand
MS WG750753 L729797-01	S5	0.3010	27.5			WG750753	g	Brown	Sand
MSD WG750753 L729797-01	S5	0.2970	27.5			WG750753	g	Brown	Sand
SD WG750753 L729797-01	S5	0.3480	27.5	2	10	WG750753	g	Brown	Sand
L729778-02 WG750753	SS	0.2890	27.5			WG750753	g	Brown	Soil
L729778-04 WG750753	SS	0.2580	27.5			WG750753	g	Brown	Soil
L729778-06 WG750753	SS	0.2980	27.5			WG750753	g	Brown	Soil
L729778-08 WG750753	SS	0.2760	27.5			WG750753	g	Brown	Soil
L729797-02 WG750753	SS	0.2930	27.5			WG750753	g	Brown	Sand
L729797-03 WG750753	SS	0.2850	27.5			WG750753	g	Brown	Sand
L729797-04 WG750753	SS	0.3140	27.5			WG750753	g	Brown	Sand
L729797-05 WG750753	SS	0.2710	27.5			WG750753	g	Brown	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729797-06 WG750753	SS	0.2580	27.5			WG750753	g	Brown	Sand
L729797-07 WG750753	SS	0.2680	27.5			WG750753	g	Brown	Sand
L729797-08 WG750753	SS	0.3310	27.5			WG750753	g	Brown	Sand
L729797-09 WG750753	SS	0.2620	27.5			WG750753	g	Brown	Sand
L729797-10 WG750753	SS	0.2530	27.5			WG750753	g	Brown	Sand
L729797-11 WG750753	SS	0.2780	27.5			WG750753	g	Brown	Sand
L729797-12 WG750753	SS	0.3320	27.5			WG750753	g	Brown	Sand
L729802-01 WG750753	SS	0.3060	27.5			WG750753	g	Tan	Clay
L729802-03 WG750753	SS	0.3190	27.5			WG750753	g	Tan	Sand
L729802-04 WG750753	SS	0.2770	27.5			WG750753	g	Tan	Clay
L729802-05 WG750753	SS	0.3440	27.5			WG750753	g	Grey	Sand
INSTBLK WG750753	S5		27.5			WG750753	g		
BLANK WG750859	S5	0.3230	27.5			WG750859	g	Tan	Sand
LCS WG750859	S5	0.3000	27.5	1	50	WG750859	g	Brown	Dirt
LCSD WG750859	S5	0.3000	27.5	1	50	WG750859	g	Brown	Dirt

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729769-20 WG750859	SS	0.3050	27.5			WG750859	g	Red	Sand
MS WG750859 L729769-20	S5	0.2970	27.5			WG750859	g	Red	Sand
MSD WG750859 L729769-20	S5	0.2990	27.5			WG750859	g	Red	Sand
SD WG750859 L729769-20	S5	0.3050	27.5	2	10	WG750859	g	Red	Sand
L729769-01 WG750859	SS	0.3040	27.5			WG750859	g	Red	Sand
L729769-02 WG750859	SS	0.3050	27.5			WG750859	g	Red	Sand
L729769-03 WG750859	SS	0.3190	27.5			WG750859	g	Red	Sand
L729769-04 WG750859	SS	0.3280	27.5			WG750859	g	Red	Sand
L729769-05 WG750859	SS	0.3380	27.5			WG750859	g	Red	Sand
L729769-06 WG750859	SS	0.2710	27.5			WG750859	g	Red	Sand
L729769-07 WG750859	SS	0.2850	27.5			WG750859	g	Red	Sand
L729769-08 WG750859	SS	0.2880	27.5			WG750859	g	Red	Sand
L729769-09 WG750859	SS	0.2650	27.5			WG750859	g	Red	Sand
L729769-10 WG750859	SS	0.3020	27.5			WG750859	g	Red	Sand
L729769-11 WG750859	SS	0.2790	27.5			WG750859	g	Red	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729769-12 WG750859	SS	0.2800	27.5			WG750859	g	Red	Sand
L729769-13 WG750859	SS	0.3150	27.5			WG750859	g	Red	Sand
L729769-14 WG750859	SS	0.2700	27.5			WG750859	g	Red	Sand
L729769-15 WG750859	SS	0.3280	27.5			WG750859	g	Red	Sand
L729769-16 WG750859	SS	0.2750	27.5			WG750859	g	Red	Sand
L729769-17 WG750859	SS	0.2780	27.5			WG750859	g	Brown	Sand
L729769-18 WG750859	SS	0.3490	27.5			WG750859	g	Red	Sand
L729769-19 WG750859	SS	0.2760	27.5			WG750859	g	Red	Sand
INSTBLK WG750859	S5		27.5			WG750859	g		
BLANK WG750860	S5	0.3310	27.5			WG750860	g	Tan	Sand
LCS WG750860	S5	0.3000	27.5	1	50	WG750860	g	Brown	Dirt
LCSD WG750860	S5	0.3000	27.5	1	50	WG750860	g	Brown	Dirt
L729769-40 WG750860	SS	0.3250	27.5			WG750860	g	Red	Sand
MS WG750860 L729769-40	S5	0.3060	27.5			WG750860	g	Red	Sand
MSD WG750860 L729769-40	S5	0.2950	27.5			WG750860	g	Red	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
SD WG750860 L729769-40	S5	0.3250	27.5	2	10	WG750860	g	Red	Sand
L729769-21 WG750860	SS	0.3120	27.5			WG750860	g	Red	Sand
L729769-22 WG750860	SS	0.2580	27.5			WG750860	g	Red	Sand
L729769-23 WG750860	SS	0.2920	27.5			WG750860	g	Brown	Sand
L729769-24 WG750860	SS	0.2600	27.5			WG750860	g	Brown	Sand
L729769-25 WG750860	SS	0.2790	27.5			WG750860	g	Brown	Sand
L729769-26 WG750860	SS	0.3340	27.5			WG750860	g	Brown	Sand
L729769-27 WG750860	SS	0.2700	27.5			WG750860	g	Red	Sand
L729769-28 WG750860	SS	0.3210	27.5			WG750860	g	Red	Sand
L729769-29 WG750860	SS	0.3160	27.5			WG750860	g	Red	Sand
L729769-30 WG750860	SS	0.3380	27.5			WG750860	g	Red	Sand
L729769-31 WG750860	SS	0.3380	27.5			WG750860	g	Red	Sand
L729769-32 WG750860	SS	0.2640	27.5			WG750860	g	Red	Sand
L729769-33 WG750860	SS	0.2910	27.5			WG750860	g	Red	Sand
L729769-34 WG750860	SS	0.2850	27.5			WG750860	g	Multi-colored	Sand

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L729769-35 WG750860	SS	0.3030	27.5			WG750860	g	Red	Sand
L729769-36 WG750860	SS	0.3350	27.5			WG750860	g	Red	Sand
L729769-37 WG750860	SS	0.2990	27.5			WG750860	g	Red	Sand
L729769-38 WG750860	SS	0.2660	27.5			WG750860	g	Red	Sand
L729769-39 WG750860	SS	0.2530	27.5			WG750860	g	Red	Sand
INSTBLK WG750860	S5		27.5			WG750860	g		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:55 AM

Work Group: WG750753

Department: 5 Metals

Operator: 572

Created: 25-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729778-02	17563188	Mirror Image Environmental Solutio	HG	SS	HERE	23-OCT-14	30-OCT-14	R4	500mlAmb-NoPres
L729778-04	17563195	Mirror Image Environmental Solutio	HG	SS	HERE	23-OCT-14	30-OCT-14	R4	2ozClr-NoPres
L729778-06	17563199	Mirror Image Environmental Solutio	HG	SS	HERE	23-OCT-14	30-OCT-14	R4	2ozClr-NoPres
L729778-08	17563204	Mirror Image Environmental Solutio	HG	SS	HERE	23-OCT-14	30-OCT-14	R4	2ozClr-NoPres
L729797-01	S17532018	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-02	S17532025	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-03	S17532032	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-04	S17532039	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-05	S17532046	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-06	S17532053	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-07	S17532060	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-08	S17532067	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-09	S17532074	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-10	S17532081	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-11	17563415	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729797-12	17563422	EMR, Inc. - Kansas	HG	SS	HERE	23-OCT-14	28-OCT-14	R2	2ozClr-NoPres
L729802-01	17563496	URS Corporation - Tucson AZ - 10	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729802-03	17563509	URS Corporation - Tucson AZ - 10	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729802-04	17563518	URS Corporation - Tucson AZ - 10	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	2ozClr-NoPres
L729802-05	17563526	URS Corporation - Tucson AZ - 10	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	2ozClr-NoPres

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:56 AM

Work Group: WG750859

Department: 5 Metals

Operator: 572

Created: 25-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729769-01	S17524944	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-02	S17524947	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-03	S17524950	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-04	S17524953	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-05	S17524956	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-06	S17524959	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-07	S17524962	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-08	S17524965	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-09	S17524968	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-10	S17524971	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-11	S17524974	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-12	S17524977	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-13	S17524980	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-14	S17524983	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-15	S17524986	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-16	S17524989	Providence Engineering - Houston,	HG	SS	HERE	22-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-17	S17524992	Providence Engineering - Houston,	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-18	S17524995	Providence Engineering - Houston,	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-19	S17524998	Providence Engineering - Houston,	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-20	S17524932	Providence Engineering - Houston,	HG	SS	HERE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

28-OCT-14 06:56 AM

Work Group: WG750860

Department: 4 Metals Prep

Operator: 572

Created: 25-OCT-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L729769-21	S17524935	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-22	S17524938	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-23	S17524941	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-24	S17525010	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-25	S17525001	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-26	S17525004	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-27	S17525007	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-28	S17525013	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-29	S17525016	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-30	S17525019	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-31	S17525022	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-32	S17525025	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-33	S17525028	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-34	S17525031	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-35	S17525034	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-36	S17525037	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-37	S17525040	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-38	S17525043	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-39	S17525046	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres
L729769-40	S17525049	Providence Engineering - Houston,	HG	SS	DONE	23-OCT-14	31-OCT-14	R5	4ozClr-NoPres

Comments:

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\102814CVAA3 S.sif
Batch ID: 628
Results Data Set: 102814CVAA3 S
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Soil PPM-TEST **Method Last Saved: 10/25/2014 3:07:07 PM**
Method Description: HgSoil

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 10/28/2014 7:44:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	0.0030	0.0003	07:45:59	Yes
2		[0.00]	0.0001	0.0001	0.0001	07:46:35	Yes
3		[0.00]	0.0003	0.0022	0.0003	07:47:12	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0001				
%RSD:		0.00	50.56				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14J23419 **Date Collected: 10/28/2014 7:47:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0023	0.0220	0.0026	07:48:32	Yes
2		[0.00020]	0.0025	0.0233	0.0027	07:49:09	Yes
3		[0.00020]	0.0025	0.0235	0.0028	07:49:45	Yes
Mean:		[0.00020]	0.0024				
SD:		0.00000	0.0001				
%RSD:		0.00000	4.02				

Standard number 1 applied. [0.00020]
Correlation Coef.: 1.000000 Slope: 12.16845 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14J23419 **Date Collected: 10/28/2014 7:50:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0054	0.0471	0.0056	07:51:06	Yes
2		[0.00040]	0.0052	0.0465	0.0055	07:51:43	Yes

3	[0.00040]	0.0053	0.0464	0.0056	07:52:21	Yes
Mean:	[0.00040]	0.0053				
SD:	0.00000	0.0001				
%RSD:	0.00000	1.44				

Standard number 2 applied. [0.00040]
Correlation Coef.: 0.998911 Slope: 13.23936 Intercept: -0.00007

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14J23419 **Date Collected: 10/28/2014 7:52:45 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0137	0.1173	0.0140	07:53:43	Yes
2		[0.00100]	0.0136	0.1149	0.0139	07:54:19	Yes
3		[0.00100]	0.0137	0.1164	0.0139	07:54:55	Yes
Mean:		[0.00100]	0.0137				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.44				

Standard number 3 applied. [0.00100]
Correlation Coef.: 0.999733 Slope: 13.76956 Intercept: -0.00016

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14J23419 **Date Collected: 10/28/2014 7:55:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0281	0.2379	0.0284	07:56:18	Yes
2		[0.00200]	0.0277	0.2344	0.0280	07:56:55	Yes
3		[0.00200]	0.0277	0.2349	0.0279	07:57:31	Yes
Mean:		[0.00200]	0.0278				
SD:		0.00000	0.0003				
%RSD:		0.00000	0.91				

Standard number 4 applied. [0.00200]
Correlation Coef.: 0.999908 Slope: 13.99671 Intercept: -0.00023

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14J09762 **Date Collected: 10/28/2014 7:57:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0735	0.6217	0.0737	07:58:53	Yes
2		[0.00500]	0.0732	0.6137	0.0734	07:59:29	Yes
3		[0.00500]	0.0731	0.6153	0.0734	08:00:05	Yes
Mean:		[0.00500]	0.0732				
SD:		0.00000	0.0002				
%RSD:		0.00000	0.26				

Standard number 5 applied. [0.00500]
Correlation Coef.: 0.999796 Slope: 14.69375 Intercept: -0.00065

==========

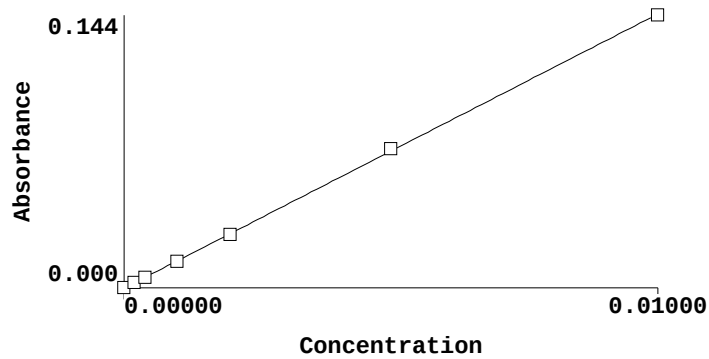
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14J09762 **Date Collected: 10/28/2014 8:00:28 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.01000]	0.1446	1.2269	0.1449	08:01:25	Yes
2		[0.01000]	0.1445	1.2212	0.1447	08:02:00	Yes
3		[0.01000]	0.1434	1.2117	0.1436	08:02:37	Yes
Mean:		[0.01000]	0.1441				
SD:		0.00000	0.0007				
%RSD:		0.00000	0.47				

Standard number 6 applied. [0.01000]
Correlation Coef.: 0.999928 Slope: 14.49881 Intercept: -0.00044



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
CALBLK	0.0000	0	0.00003	0.00	50.6
STD1 14J23419	0.0024	0.00020	0.00020	0.00	4.0
STD2 14J23419	0.0053	0.00040	0.00040	0.00	1.4
STD3 14J23419	0.0137	0.00100	0.00097	0.00	0.4
STD4 14J23419	0.0278	0.00200	0.00195	0.00	0.9
STD5 14J09762	0.0732	0.00500	0.00508	0.00	0.3
STD6 14J09762	0.1441	0.01000	0.00997	0.00	0.5

Correlation Coef.: 0.999928 Slope: 14.49881 Intercept: -0.00044

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14J23419	Applied
3	3	STD2 14J23419	Applied
4	4	STD3 14J23419	Applied
5	5	STD4 14J23419	Applied
6	6	STD5 14J09762	Applied
7	7	STD6 14J09762	Applied

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\102814CVAA3 S.sif
Batch ID: 628
Results Data Set: 102814CVAA3 S
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 8:04:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00040	0.0054	0.0478	0.0056	08:05:02	Yes
2		0.00038	0.0051	0.0440	0.0053	08:05:39	Yes
3		0.00040	0.0053	0.0460	0.0055	08:06:15	Yes
Mean:		0.00039	0.0053				
SD:		0.00001	0.0001				
%RSD:		2.532	2.74				

QC value within limits for Hg 253.7 Recovery = 98.07%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14J09761 **Date Collected: 10/28/2014 8:06:41 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14J09761

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00294	0.0422	0.3595	0.0425	08:07:40	Yes
2		0.00293	0.0420	0.3528	0.0423	08:08:16	Yes
3		0.00294	0.0422	0.3532	0.0424	08:08:53	Yes
Mean:		0.00294	0.0421				
SD:		0.00001	0.0001				
%RSD:		0.2394	0.24				

QC value within limits for Hg 253.7 Recovery = 97.88%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 10/28/2014 8:09:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00002	-0.0001	0.0008	0.0002	08:10:15	Yes
2		0.00002	-0.0001	0.0004	0.0001	08:10:52	Yes
3		0.00003	-0.0000	0.0021	0.0002	08:11:28	Yes
Mean:		0.00002	-0.0001				
SD:		0.00000	0.0001				
%RSD:		16.13	60.42				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 4
Sample ID: BLANK WG750753
Analyst: 628
Initial Sample Wt: 0.328 g
Dilution:

Autosampler Location: 9
Date Collected: 10/28/2014 8:11:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: BLANK WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00259	0.00003	0.0000	0.0013	0.0003	08:12:50	Yes
2	0.00209	0.00002	-0.0001	0.0004	0.0002	08:13:26	Yes
3	0.00255	0.00003	0.0000	0.0019	0.0003	08:14:03	Yes
Mean:	0.00241	0.00003	-0.0000				
SD:	0.00028	0.00000	0.0000				
%RSD:	11.54	11.54	249.17				

User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\102814CVAA3 S.sif
Batch ID: 628
Results Data Set: 102814CVAA3 S
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14J23419 **Date Collected: 10/28/2014 8:14:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\102814CVAA3 S.sif
Batch ID: 628
Results Data Set: 102814CVAA3 S
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 5 **Autosampler Location: 10**
Sample ID: LCS WG750753 **Date Collected: 10/28/2014 8:14:55 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCS WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.48	0.00316	0.0454	0.3813	0.0456	08:15:52	Yes
2	13.72	0.00299	0.0430	0.3596	0.0432	08:16:29	Yes
3	13.46	0.00294	0.0422	0.3526	0.0424	08:17:06	Yes
Mean:	13.89	0.00303	0.0435				
SD:	0.5268	0.00011	0.0017				
%RSD:	3.793	3.793	3.83				

==========

Sequence No.: 6 **Autosampler Location: 11**
Sample ID: LCSD WG750753 **Date Collected: 10/28/2014 8:17:30 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.3 g **Initial Sample Vol:**
Dilution: 50X **Sample Prep Vol: 27.5 mL**

Replicate Data: LCSD WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.95	0.00304	0.0437	0.3689	0.0439	08:18:27	Yes
2	13.55	0.00296	0.0424	0.3555	0.0427	08:19:03	Yes
3	13.30	0.00290	0.0416	0.3492	0.0419	08:19:40	Yes
Mean:	13.60	0.00297	0.0426				
SD:	0.3274	0.00007	0.0010				
%RSD:	2.407	2.407	2.43				

==========

Sequence No.: 7 **Autosampler Location: 12**
Sample ID: L729797-01 WG750753 **Date Collected: 10/28/2014 8:20:04 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.348 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-01 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00470	0.00006	0.0004	0.0055	0.0007	08:21:02	Yes
2	0.00442	0.00006	0.0004	0.0056	0.0006	08:21:39	Yes
3	0.00414	0.00005	0.0003	0.0042	0.0006	08:22:15	Yes
Mean:	0.00442	0.00006	0.0004				
SD:	0.00028	0.00000	0.0001				
%RSD:	6.405	6.405	13.85				

==========

Sequence No.: 8 **Autosampler Location: 13**
Sample ID: MS WG750753 L729797-01 **Date Collected: 10/28/2014 8:22:40 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.301 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: MS WG750753 L729797-01

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4839	0.00530	0.0764	0.6353	0.0766	08:23:39	Yes
2	0.4756	0.00521	0.0750	0.6254	0.0753	08:24:15	Yes
3	0.4791	0.00524	0.0756	0.6268	0.0758	08:24:52	Yes
Mean:	0.4796	0.00525	0.0757				
SD:	0.00417	0.00005	0.0007				
%RSD:	0.8690	0.8690	0.87				

==========

Sequence No.: 9 **Autosampler Location: 14**
Sample ID: MSD WG750753 L729797-01 **Date Collected: 10/28/2014 8:25:17 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.297 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: MSD WG750753 L729797-01

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4622	0.00499	0.0719	0.5979	0.0722	08:26:14	Yes
2	0.4521	0.00488	0.0704	0.5859	0.0706	08:26:50	Yes
3	0.4557	0.00492	0.0709	0.5892	0.0712	08:27:26	Yes
Mean:	0.4567	0.00493	0.0711				
SD:	0.00508	0.00005	0.0008				
%RSD:	1.112	1.112	1.12				

==========

Sequence No.: 10 **Autosampler Location: 15**
Sample ID: SD WG750753 L729797-01 **Date Collected: 10/28/2014 8:27:50 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.348 g **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol: 27.5 mL**

Replicate Data: SD WG750753 L729797-01

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00926	0.00002	-0.0001	0.0010	0.0002	08:28:47	Yes
2	0.00735	0.00002	-0.0002	0.0001	0.0001	08:29:23	Yes
3	0.00571	0.00001	-0.0002	-0.0006	0.0000	08:30:00	Yes
Mean:	0.00744	0.00002	-0.0002				
SD:	0.00178	0.00000	0.0001				
%RSD:	23.86	23.86	39.98				

==========

Sequence No.: 11 **Autosampler Location: 16**
Sample ID: L729778-02 WG750753 **Date Collected: 10/28/2014 8:30:24 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.289 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729778-02 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01691	0.00018	0.0021	0.0204	0.0024	08:31:21	Yes
2	0.01765	0.00019	0.0023	0.0207	0.0025	08:31:57	Yes
3	0.01642	0.00017	0.0021	0.0196	0.0023	08:32:34	Yes
Mean:	0.01699	0.00018	0.0022				
SD:	0.00062	0.00001	0.0001				
%RSD:	3.646	3.646	4.38				

==========

Sequence No.: 12 **Autosampler Location: 17**
Sample ID: L729778-04 WG750753 **Date Collected: 10/28/2014 8:32:57 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.258 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729778-04 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01734	0.00016	0.0019	0.0181	0.0022	08:33:54	Yes
2	0.01745	0.00016	0.0019	0.0176	0.0022	08:34:31	Yes
3	0.01695	0.00016	0.0019	0.0172	0.0021	08:35:07	Yes
Mean:	0.01725	0.00016	0.0019				
SD:	0.00026	0.00000	0.0000				
%RSD:	1.524	1.524	1.87				

==========

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: L729778-06 WG750753 **Date Collected: 10/28/2014 8:35:31 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.298 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729778-06 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01858	0.00020	0.0025	0.0219	0.0027	08:36:28	Yes
2	0.01896	0.00021	0.0025	0.0242	0.0028	08:37:04	Yes
3	0.01862	0.00020	0.0025	0.0221	0.0027	08:37:41	Yes
Mean:	0.01872	0.00020	0.0025				
SD:	0.00021	0.00000	0.0000				
%RSD:	1.112	1.112	1.31				

==========

Sequence No.: 14 **Autosampler Location: 19**
Sample ID: L729778-08 WG750753 **Date Collected: 10/28/2014 8:38:05 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.276 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729778-08 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01465	0.00015	0.0017	0.0165	0.0019	08:39:02	Yes
2	0.01564	0.00016	0.0018	0.0174	0.0021	08:39:38	Yes
3	0.01499	0.00015	0.0017	0.0161	0.0020	08:40:14	Yes
Mean:	0.01509	0.00015	0.0018				
SD:	0.00051	0.00001	0.0001				
%RSD:	3.349	3.349	4.18				

==========

Sequence No.: 15 **Autosampler Location: 20**
Sample ID: L729797-02 WG750753 **Date Collected: 10/28/2014 8:40:38 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.293 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-02 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00413	0.00004	0.0002	0.0036	0.0005	08:41:35	Yes
2	0.00389	0.00004	0.0002	0.0034	0.0004	08:42:12	Yes
3	0.00428	0.00005	0.0002	0.0041	0.0005	08:42:48	Yes
Mean:	0.00410	0.00004	0.0002				
SD:	0.00019	0.00000	0.0000				
%RSD:	4.728	4.728	15.18				

==========

Sequence No.: 16 **Autosampler Location: 21**
Sample ID: L729797-03 WG750753 **Date Collected: 10/28/2014 8:43:13 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.285 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-03 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00318	0.00003	0.0000	0.0023	0.0003	08:44:10	Yes
2	0.00353	0.00004	0.0001	0.0023	0.0003	08:44:47	Yes
3	0.00319	0.00003	0.0000	0.0010	0.0003	08:45:24	Yes
Mean:	0.00330	0.00003	0.0001				
SD:	0.00020	0.00000	0.0000				
%RSD:	6.122	6.122	50.65				

==========

Sequence No.: 17 **Autosampler Location: 22**
Sample ID: L729797-04 WG750753 **Date Collected: 10/28/2014 8:45:48 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.314 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-04 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00544	0.00006	0.0005	0.0054	0.0007	08:46:45	Yes
2	0.00547	0.00006	0.0005	0.0057	0.0007	08:47:22	Yes
3	0.00627	0.00007	0.0006	0.0072	0.0009	08:47:58	Yes
Mean:	0.00573	0.00007	0.0005				
SD:	0.00047	0.00001	0.0001				
%RSD:	8.279	8.279	15.33				

==========

Sequence No.: 18 **Autosampler Location: 23**
Sample ID: L729797-05 WG750753 **Date Collected: 10/28/2014 8:48:22 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.271 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-05 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00754	0.00007	0.0006	0.0074	0.0009	08:49:20	Yes
2	0.00778	0.00008	0.0007	0.0079	0.0009	08:49:57	Yes
3	0.00871	0.00009	0.0008	0.0093	0.0011	08:50:33	Yes
Mean:	0.00801	0.00008	0.0007				
SD:	0.00062	0.00001	0.0001				
%RSD:	7.741	7.741	12.50				

==========

Sequence No.: 19 **Autosampler Location: 24**
Sample ID: L729797-06 WG750753 **Date Collected: 10/28/2014 8:50:57 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.258 g **Initial Sample Vol:**

Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-06 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00445	0.00004	0.0002	0.0026	0.0004	08:51:55	Yes
2	0.00452	0.00004	0.0002	0.0040	0.0004	08:52:32	Yes
3	0.00459	0.00004	0.0002	0.0024	0.0004	08:53:08	Yes
Mean:	0.00452	0.00004	0.0002				
SD:	0.00007	0.00000	0.0000				
%RSD:	1.518	1.518	5.22				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 8:53:33 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00259	0.0371	0.3162	0.0374	08:54:30	Yes
2		0.00256	0.0367	0.3117	0.0370	08:55:06	Yes
3		0.00256	0.0366	0.3118	0.0369	08:55:43	Yes
Mean:		0.00257	0.0368				
SD:		0.00002	0.0003				
%RSD:		0.6785	0.69				

QC value within limits for Hg 253.7 Recovery = 102.79%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 8:56:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00002	-0.0002	-0.0004	0.0001	08:57:04	Yes
2		0.00002	-0.0001	0.0007	0.0001	08:57:40	Yes
3		0.00002	-0.0001	0.0001	0.0001	08:58:16	Yes
Mean:		0.00002	-0.0001				
SD:		0.00000	0.0000				
%RSD:		7.613	15.86				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 25**
Sample ID: L729797-07 WG750753 **Date Collected: 10/28/2014 8:58:39 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.268 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729797-07 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00668	0.00007	0.0005	0.0071	0.0008	08:59:38	Yes
2	0.00680	0.00007	0.0005	0.0071	0.0008	09:00:14	Yes
3	0.00673	0.00007	0.0005	0.0066	0.0008	09:00:51	Yes
Mean:	0.00674	0.00007	0.0005				
SD:	0.00006	0.00000	0.0000				
%RSD:	0.9078	0.9078	1.67				

==========

Sequence No.: 23
Sample ID: L729797-08 WG750753
Analyst: 628
Initial Sample Wt: 0.331 g
Dilution:
Autosampler Location: 26
Date Collected: 10/28/2014 9:01:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729797-08 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00624	0.00008	0.0007	0.0077	0.0009	09:02:13	Yes
2	0.00660	0.00008	0.0007	0.0077	0.0010	09:02:49	Yes
3	0.00598	0.00007	0.0006	0.0074	0.0009	09:03:26	Yes
Mean:	0.00627	0.00008	0.0007				
SD:	0.00031	0.00000	0.0001				
%RSD:	4.936	4.936	8.20				

Sequence No.: 24
Sample ID: L729797-09 WG750753
Analyst: 628
Initial Sample Wt: 0.262 g
Dilution:
Autosampler Location: 27
Date Collected: 10/28/2014 9:03:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729797-09 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01057	0.00010	0.0010	0.0104	0.0013	09:04:47	Yes
2	0.01049	0.00010	0.0010	0.0102	0.0013	09:05:23	Yes
3	0.01081	0.00010	0.0011	0.0103	0.0013	09:06:00	Yes
Mean:	0.01063	0.00010	0.0010				
SD:	0.00017	0.00000	0.0000				
%RSD:	1.559	1.559	2.22				

Sequence No.: 25
Sample ID: L729797-10 WG750753
Analyst: 628
Initial Sample Wt: 0.253 g
Dilution:
Autosampler Location: 28
Date Collected: 10/28/2014 9:06:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729797-10 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00379	0.00003	0.0001	0.0024	0.0003	09:07:20	Yes
2	0.00305	0.00003	-0.0000	0.0013	0.0002	09:07:57	Yes
3	0.00351	0.00003	0.0000	0.0019	0.0003	09:08:33	Yes
Mean:	0.00345	0.00003	0.0000				
SD:	0.00037	0.00000	0.0000				
%RSD:	10.76	10.76	201.81				

Sequence No.: 26
Sample ID: L729797-11 WG750753
Analyst: 628
Initial Sample Wt: 0.278 g
Dilution:
Autosampler Location: 29
Date Collected: 10/28/2014 9:08:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729797-11 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00644	0.00007	0.0005	0.0061	0.0008	09:09:54	Yes
2	0.00528	0.00005	0.0003	0.0049	0.0006	09:10:30	Yes
3	0.00641	0.00006	0.0005	0.0056	0.0008	09:11:07	Yes
Mean:	0.00604	0.00006	0.0004				
SD:	0.00066	0.00001	0.0001				
%RSD:	10.99	10.99	21.65				

Sequence No.: 27
Sample ID: L729797-12 WG750753
Analyst: 628
Initial Sample Wt: 0.332 g
Dilution:
Autosampler Location: 30
Date Collected: 10/28/2014 9:11:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729797-12 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00362	0.00004	0.0002	0.0037	0.0004	09:12:28	Yes
2	0.00366	0.00004	0.0002	0.0039	0.0005	09:13:04	Yes
3	0.00381	0.00005	0.0002	0.0032	0.0005	09:13:41	Yes
Mean:	0.00369	0.00004	0.0002				
SD:	0.00010	0.00000	0.0000				
%RSD:	2.688	2.688	8.25				

Sequence No.: 28
Sample ID: L729802-01 WG750753
Analyst: 628
Initial Sample Wt: 0.306 g
Dilution:
Autosampler Location: 31
Date Collected: 10/28/2014 9:14:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729802-01 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00245	0.00003	-0.0000	0.0004	0.0002	09:15:02	Yes
2	0.00236	0.00003	-0.0001	0.0014	0.0002	09:15:39	Yes
3	0.00261	0.00003	-0.0000	0.0017	0.0002	09:16:15	Yes
Mean:	0.00247	0.00003	-0.0000				
SD:	0.00013	0.00000	0.0000				
%RSD:	5.257	5.257	56.27				

Sequence No.: 29
Sample ID: L729802-03 WG750753
Analyst: 628
Initial Sample Wt: 0.319 g
Dilution:
Autosampler Location: 32
Date Collected: 10/28/2014 9:16:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729802-03 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00392	0.00005	0.0002	0.0037	0.0005	09:17:36	Yes
2	0.00371	0.00004	0.0002	0.0034	0.0004	09:18:13	Yes
3	0.00371	0.00004	0.0002	0.0040	0.0004	09:18:49	Yes
Mean:	0.00378	0.00004	0.0002				
SD:	0.00012	0.00000	0.0000				
%RSD:	3.183	3.183	10.11				

Sequence No.: 30
Sample ID: L729802-04 WG750753
Analyst: 628
Initial Sample Wt: 0.277 g
Dilution:
Autosampler Location: 33
Date Collected: 10/28/2014 9:19:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 27.5 mL

Replicate Data: L729802-04 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00518	0.00005	0.0003	0.0048	0.0006	09:20:10	Yes
2	0.00543	0.00005	0.0004	0.0045	0.0006	09:20:47	Yes
3	0.00444	0.00004	0.0002	0.0032	0.0005	09:21:23	Yes
Mean:	0.00502	0.00005	0.0003				
SD:	0.00052	0.00001	0.0001				
%RSD:	10.29	10.29	25.43				

Sequence No.: 31 **Autosampler Location: 34**
Sample ID: L729802-05 WG750753 **Date Collected: 10/28/2014 9:21:48 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: 0.344 g **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: L729802-05 WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00215	0.00003	-0.0000	0.0003	0.0002	09:22:46	Yes
2	0.00183	0.00002	-0.0001	0.0008	0.0001	09:23:22	Yes
3	0.00212	0.00003	-0.0001	0.0018	0.0002	09:23:58	Yes
Mean:	0.00203	0.00003	-0.0001				
SD:	0.00018	0.00000	0.0000				
%RSD:	8.675	8.675	47.70				

==========

Sequence No.: 32 **Autosampler Location: 35**
Sample ID: INSTBLK WG750753 **Date Collected: 10/28/2014 9:24:22 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol: 27.5 mL**

Replicate Data: INSTBLK WG750753

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00002	-0.0001	0.0003	0.0001	09:25:20	Yes
2		0.00002	-0.0002	0.0002	0.0001	09:25:57	Yes
3		0.00002	-0.0002	0.0005	0.0001	09:26:33	Yes
Mean:		0.00002	-0.0002				
SD:		0.00000	0.0000				
%RSD:		7.661	14.25				

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

==========

Sequence No.: 33 **Autosampler Location: 3**
Sample ID: CCVLL 14J23419 **Date Collected: 10/28/2014 9:26:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14J23419

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00040	0.0054	0.0480	0.0057	09:27:55	Yes
2		0.00039	0.0052	0.0452	0.0054	09:28:31	Yes
3		0.00038	0.0051	0.0461	0.0054	09:29:07	Yes
Mean:		0.00039	0.0052				
SD:		0.00001	0.0001				
%RSD:		2.514	2.72				

QC value within limits for Hg 253.7 Recovery = 97.90%
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 8**
Sample ID: CCV 14J09762 **Date Collected: 10/28/2014 9:29:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14J09762

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00260	0.0373	0.3219	0.0375	09:30:28	Yes
2		0.00258	0.0370	0.3183	0.0373	09:31:05	Yes
3		0.00259	0.0371	0.3180	0.0374	09:31:41	Yes
Mean:		0.00259	0.0371				
SD:		0.00001	0.0001				

%RSD: 0.2955 0.30
QC value within limits for Hg 253.7 Recovery = 103.65%
All analyte(s) passed QC.

==========

Sequence No.: 35 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 10/28/2014 9:32:05 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/kg	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		0.00003	-0.0001	0.0008	0.0002	09:33:02	Yes
2		0.00002	-0.0001	0.0010	0.0002	09:33:39	Yes
3		0.00002	-0.0001	0.0002	0.0001	09:34:15	Yes
Mean:		0.00002	-0.0001				
SD:		0.00000	0.0000				
%RSD:		7.625	27.81				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Soil PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14J23419	
2	157	ICV 14J09761	
3	1	ICB	
4	9	BLANK WG750753	
5	10	LCS WG750753	Analyzed
6	11	LCSD WG750753	Analyzed
7	12	L729797-01 WG750753	Analyzed
8	13	MS WG750753 L729797-01	Analyzed
9	14	MSD WG750753 L729797-01	Analyzed
10	15	SD WG750753 L729797-01	Analyzed
11	16	L729778-02 WG750753	Analyzed
12	17	L729778-04 WG750753	Analyzed
13	18	L729778-06 WG750753	Analyzed
14	19	L729778-08 WG750753	Analyzed
15	20	L729797-02 WG750753	Analyzed
16	21	L729797-03 WG750753	Analyzed
17	22	L729797-04 WG750753	Analyzed
18	23	L729797-05 WG750753	Analyzed
19	24	L729797-06 WG750753	Analyzed
20	8	CCV 14J09762	QC Passed
21	1	CCB	QC Passed
22	25	L729797-07 WG750753	Analyzed
23	26	L729797-08 WG750753	Analyzed
24	27	L729797-09 WG750753	Analyzed
25	28	L729797-10 WG750753	Analyzed
26	29	L729797-11 WG750753	Analyzed
27	30	L729797-12 WG750753	Analyzed
28	31	L729802-01 WG750753	Analyzed
29	32	L729802-03 WG750753	Analyzed
30	33	L729802-04 WG750753	Analyzed
31	34	L729802-05 WG750753	Analyzed
32	35	INSTBLK WG750753	Analyzed
33	3	CCVLL 14J23419	QC Passed
34	8	CCV 14J09762	QC Passed
35	1	CCB	QC Passed

Trace Metals by Method 6010B

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802

Trace Metals by Method 6010B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG752285**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 5x	10/23/2014	11/02/2014	11/05/2014
L729802-03 5x	10/23/2014	11/02/2014	11/05/2014
L729802-04 5x	10/23/2014	11/02/2014	11/05/2014
L729802-05 5x	10/23/2014	11/02/2014	11/05/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG752285	Blank WG752285	51	11/5/2014	2:48 PM
ICP12	LCS WG752285	LCS WG752285	52	11/5/2014	2:53 PM
ICP12	LCSD WG752285	LCSD WG752285	53	11/5/2014	2:57 PM
ICP12	TU515-SB02-NS01	L729802-01	54	11/5/2014	3:01 PM
ICP12	DUP WG752285	DUP WG752285	55	11/5/2014	3:05 PM
ICP12	PS WG752285	PS WG752285	56	11/5/2014	3:10 PM
ICP12	MS WG752285	MS WG752285	57	11/5/2014	3:14 PM
ICP12	MSD WG752285	MSD WG752285	58	11/5/2014	3:18 PM
ICP12	TU515-SB08-NS01	L729802-03	59	11/5/2014	3:23 PM
ICP12	TU515-SB10-NS01	L729802-04	60	11/5/2014	3:27 PM
ICP12	TU515-SB10-NS02	L729802-05	61	11/5/2014	3:32 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 10.0	< 3.5	
Antimony	7440-36-0	< 2.00	< 0.750	
Arsenic	7440-38-2	< 2.00	< 0.650	
Barium	7440-39-3	< 0.500	< 0.170	
Beryllium	7440-41-7	< 0.200	< 0.0700	
Cadmium	7440-43-9	< 0.500	< 0.0700	
Chromium	7440-47-3	< 1.00	< 0.140	
Cobalt	7440-48-4	< 1.00	< 0.230	
Copper	7440-50-8	< 2.00	< 0.530	
Lead	7439-92-1	< 0.500	< 0.190	
Manganese	7439-96-5	< 1.00	< 0.120	
Nickel	7440-02-0	< 2.00	< 0.490	
Selenium	7782-49-2	< 2.00	< 0.740	
Silver	7440-22-4	< 1.00	< 0.280	
Thallium	7440-28-0	< 2.00	< 0.650	
Vanadium	7440-62-2	< 2.00	< 0.240	
Zinc	7440-66-6	< 5.00	< 0.590	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	9495.8	94	50.6 - 150	
Antimony	1	113	117.95	104	0.88 - 223	
Arsenic	1	237	254.35	107	83.1 - 117	
Barium	1	252	251.77	100	84.1 - 116	
Beryllium	1	93.3	98.397	105	83.3 - 117	
Cadmium	1	191	203.87	107	83.2 - 117	
Chromium	1	128	125.08	98	81.3 - 118	
Cobalt	1	178	190.98	107	83.7 - 116	
Copper	1	123	130.76	106	83.7 - 116	
Lead	1	103	108.13	105	83.1 - 117	
Manganese	1	333	328.68	99	82.3 - 117	
Nickel	1	118	125.01	106	82 - 118	
Selenium	1	110	133.71	122	78.7 - 122	
Silver	1	47.3	38.026	80	66.2 - 134	
Thallium	1	158	174.22	110	81 - 119	
Vanadium	1	119	121.90	102	79.7 - 120	
Zinc	1	183	175.31	96	82 - 118	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	10100	8727.6	86	50.6 - 150	
Antimony	1	113	121.82	108	0.88 - 223	
Arsenic	1	237	242.23	102	83.1 - 117	
Barium	1	252	243.08	96	84.1 - 116	
Beryllium	1	93.3	94.741	102	83.3 - 117	
Cadmium	1	191	200.86	105	83.2 - 117	
Chromium	1	128	120.52	94	81.3 - 118	
Cobalt	1	178	187.40	105	83.7 - 116	
Copper	1	123	125.25	102	83.7 - 116	
Lead	1	103	104.89	102	83.1 - 117	
Manganese	1	333	326.75	98	82.3 - 117	
Nickel	1	118	123.58	105	82 - 118	
Selenium	1	110	118.83	108	78.7 - 122	
Silver	1	47.3	43.629	92	66.2 - 134	
Thallium	1	158	164.77	104	81 - 119	
Vanadium	1	119	117.36	99	79.7 - 120	
Zinc	1	183	169.86	93	82 - 118	

Parameters in bold text are reported in this SDG

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(615) 758-5858
(800) 767-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum	1	10100	9495.8	94	8727.6	86	50.6 - 150		8	20	
Antimony	1	113	117.95	104	121.82	108	0.88 - 223		3	20	
Arsenic	1	237	254.35	107	242.23	102	83.1 - 117		5	20	
Barium	1	252	251.77	100	243.08	96	84.1 - 116		4	20	
Beryllium	1	93.3	98.397	105	94.741	102	83.3 - 117		4	20	
Cadmium	1	191	203.87	107	200.86	105	83.2 - 117		1	20	
Chromium	1	128	125.08	98	120.52	94	81.3 - 118		4	20	
Cobalt	1	178	190.98	107	187.40	105	83.7 - 116		2	20	
Copper	1	123	130.76	106	125.25	102	83.7 - 116		4	20	
Lead	1	103	108.13	105	104.89	102	83.1 - 117		3	20	
Manganese	1	333	328.68	99	326.75	98	82.3 - 117		1	20	
Nickel	1	118	125.01	106	123.58	105	82 - 118		1	20	
Selenium	1	110	133.71	122	118.83	108	78.7 - 122		12	20	
Silver	1	47.3	38.026	80	43.629	92	66.2 - 134		14	20	
Thallium	1	158	174.22	110	164.77	104	81 - 119		6	20	
Vanadium	1	119	121.90	102	117.36	99	79.7 - 120		4	20	
Zinc	1	183	175.31	96	169.86	93	82 - 118		3	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Serial Dilution

L729802-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	25	485.95	400.99	17	10	O1
Antimony	25	<3.75	<18.75		10	
Arsenic	25	<3.25	<16.25		10	
Barium	25	5.5006	5.4579	1	10	
Beryllium	25	<0.35	<1.75		10	
Cadmium	25	<0.35	<1.75		10	
Chromium	25	0.7131	<3.5	53	10	
Cobalt	25	<1.15	<5.75		10	
Copper	25	<2.65	<13.25		10	
Lead	25	<0.95	<4.75		10	
Manganese	25	8.3438	8.6344	3	10	
Nickel	25	<2.45	<12.25		10	
Selenium	25	<3.7	<18.5		10	
Silver	25	<1.4	<7		10	
Thallium	25	<3.25	<16.25		10	
Vanadium	25	1.7581	<6	15	10	
Zinc	25	<2.95	<14.75		10	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729802-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	27.8	675.87	884.97	150	668.62	0	75 - 125	V	28	20	J3
Antimony	5	27.8	<3.75	135.96	98	152.78	110	75 - 125		12	20	
Arsenic	5	27.8	<3.25	141.97	101	157.35	112	75 - 125		10	20	
Barium	5	27.8	7.6504	141.44	96	156.34	107	75 - 125		10	20	
Beryllium	5	27.8	<0.35	131.18	94	147.31	106	75 - 125		12	20	
Cadmium	5	27.8	<0.35	139.40	100	156.34	112	75 - 125		11	20	
Chromium	5	27.8	0.9918	131.81	94	147.33	105	75 - 125		11	20	
Cobalt	5	27.8	<1.15	138.62	99	153.79	110	75 - 125		10	20	
Copper	5	27.8	<2.65	137.10	97	153.51	109	75 - 125		11	20	
Lead	5	27.8	<0.95	132.24	95	147.37	106	75 - 125		11	20	
Manganese	5	27.8	11.605	145.36	96	158.21	105	75 - 125		8	20	
Nickel	5	27.8	<2.45	135.54	97	151.15	108	75 - 125		11	20	
Selenium	5	27.8	<3.7	146.49	104	165.53	118	75 - 125		12	20	
Silver	5	27.8	<1.4	71.306	51	51.381	37	75 - 125	J6	32	20	J3
Thallium	5	27.8	<3.25	127.06	91	142.51	102	75 - 125		11	20	
Vanadium	5	27.8	2.4452	136.75	97	153.57	109	75 - 125		12	20	
Zinc	5	27.8	<2.95	131.80	94	146.29	104	75 - 125		10	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752285**
Analysis Date:	11/5/2014	Analyst:	653
Instrument ID:	ICP12	Prep Date:	11/2/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Post Digest Spike

L729802-01

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum	5	99	485.95	891.45	82	75-125	
Antimony	5	99	<3.75	505.99	102	75-125	
Arsenic	5	99	<3.25	510.98	103	75-125	
Barium	5	99	5.5006	481.00	96	75-125	
Beryllium	5	99	<0.35	467.25	94	75-125	
Cadmium	5	99	<0.35	505.09	102	75-125	
Chromium	5	99	0.7131	462.22	93	75-125	
Cobalt	5	99	<1.15	491.22	99	75-125	
Copper	5	99	<2.65	481.58	97	75-125	
Lead	5	99	<0.95	468.98	95	75-125	
Manganese	5	99	8.3438	468.27	93	75-125	
Nickel	5	99	<2.45	480.33	97	75-125	
Selenium	5	99	<3.7	533.96	108	75-125	
Silver	5	99	<1.4	173.17	35	75-125	O1
Thallium	5	99	<3.25	459.71	93	75-125	
Vanadium	5	99	1.7581	483.20	97	75-125	
Zinc	5	99	<2.95	461.49	93	75-125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 11/5/2014 11:47 AM
Analysis Time: 1147
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.101	0.1	101 %	90-110
Aluminum	9.71	10	97 %	90-110
Arsenic	1.00	1	100 %	90-110
Barium	1.02	1	102 %	90-110
Beryllium	1.00	1	100 %	90-110
Cadmium	1.03	1	103 %	90-110
Cobalt	1.00	1	100 %	90-110
Chromium	0.999	1	100 %	90-110
Copper	1.01	1	101 %	90-110
Manganese	0.996	1	100 %	90-110
Nickel	0.995	1	99 %	90-110
Lead	1.00	1	100 %	90-110
Antimony	1.04	1	104 %	90-110
Selenium	1.03	1	103 %	90-110
Thallium	0.995	1	99 %	90-110
Vanadium	1.01	1	101 %	90-110
Zinc	0.992	1	99 %	90-110

*** - calibrated by linear regression*

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICVLL
Analysis Date: 11/5/2014 11:56 AM
Analysis Time: 1156
Data File: 110514ICP12A

Analyte	Conc.
Silver	0.0096
Aluminum	0.0745
Arsenic	0.0206
Barium	0.0054
Beryllium	0.0018
Cadmium	0.0054
Cobalt	0.0092
Chromium	0.0102
Copper	0.0219
Manganese	0.0104
Nickel	0.0190
Lead	0.0045
Antimony	0.0204
Selenium	0.0202
Thallium	0.0195
Vanadium	0.0096
Zinc	0.0304

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/5/2014 2:33 PM
Analysis Time: 1433
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	1.01	1	101 %	90-110
Aluminum	9.70	10	97 %	90-110
Arsenic	2.02	2	101 %	90-110
Barium	0.503	0.5	101 %	90-110
Beryllium	0.200	0.2	100 %	90-110
Cadmium	0.536	0.5	107 %	90-110
Cobalt	1.02	1	102 %	90-110
Chromium	1.00	1	100 %	90-110
Copper	2.00	2	100 %	90-110
Manganese	1.01	1	101 %	90-110
Nickel	2.04	2	102 %	90-110
Lead	0.495	0.5	99 %	90-110
Antimony	2.03	2	101 %	90-110
Selenium	2.09	2	104 %	90-110
Thallium	1.96	2	98 %	90-110
Vanadium	0.999	1	100 %	90-110
Zinc	2.97	3	99 %	90-110

*** - calibrated by linear regression*

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 11/5/2014 2:42 PM
Analysis Time: 1442
Data File: 110514ICP12A

Analyte	Conc.
Silver	0.0099
Aluminum	0.0867
Arsenic	0.0215
Barium	0.0053
Beryllium	0.0019
Cadmium	0.0053
Cobalt	0.0095
Chromium	0.0106
Copper	0.0232
Manganese	0.0105
Nickel	0.0196
Lead	0.0055
Antimony	0.0190
Selenium	0.0197
Thallium	0.0196
Vanadium	0.0095
Zinc	0.0310

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/5/2014 3:36 PM
Analysis Time: 1536
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.996	1	100 %	90-110
Aluminum	9.48	10	95 %	90-110
Arsenic	1.97	2	99 %	90-110
Barium	0.490	0.5	98 %	90-110
Beryllium	0.195	0.2	98 %	90-110
Cadmium	0.523	0.5	105 %	90-110
Cobalt	0.991	1	99 %	90-110
Chromium	0.982	1	98 %	90-110
Copper	1.96	2	98 %	90-110
Manganese	0.985	1	99 %	90-110
Nickel	1.99	2	99 %	90-110
Lead	0.483	0.5	97 %	90-110
Antimony	1.99	2	99 %	90-110
Selenium	2.04	2	102 %	90-110
Thallium	1.91	2	95 %	90-110
Vanadium	0.978	1	98 %	90-110
Zinc	2.91	3	97 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 11/5/2014 3:50 PM
Analysis Time: 1550
Data File: 110514ICP12A

Analyte	Conc.
Silver	0.0097
Aluminum	0.0676
Arsenic	0.0203
Barium	0.0051
Beryllium	0.0019
Cadmium	0.0052
Cobalt	0.0092
Chromium	0.0101
Copper	0.0199
Manganese	0.0102
Nickel	0.0193
Lead	0.0050
Antimony	0.0200
Selenium	0.0200
Thallium	0.0192
Vanadium	0.0096
Zinc	0.0319

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 11/5/2014 11:52 AM
Analysis Time: 1152
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Thallium	0.65	< 0.65	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/5/2014 2:38 PM
Analysis Time: 1438
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Thallium	0.65	< 0.65	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/5/2014 3:40 PM
Analysis Time: 1540
Data File: 110514ICP12A

Analyte	MDL	Conc	Filename
Silver	0.28	< 0.28	110514ICP12A
Aluminum	3.5	< 3.5	110514ICP12A
Arsenic	0.65	< 0.65	110514ICP12A
Barium	0.17	< 0.17	110514ICP12A
Beryllium	0.07	< 0.07	110514ICP12A
Cadmium	0.07	< 0.07	110514ICP12A
Cobalt	0.23	< 0.23	110514ICP12A
Chromium	0.14	< 0.14	110514ICP12A
Copper	0.53	< 0.53	110514ICP12A
Manganese	0.12	< 0.12	110514ICP12A
Nickel	0.49	< 0.49	110514ICP12A
Lead	0.19	< 0.19	110514ICP12A
Antimony	0.75	< 0.75	110514ICP12A
Selenium	0.74	< 0.74	110514ICP12A
Thallium	0.65	< 0.65	110514ICP12A
Vanadium	0.24	< 0.24	110514ICP12A
Zinc	0.59	< 0.59	110514ICP12A

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 12:01 PM
Analysis Time: 1201
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0002	0		80 - 120
ALUMINUM	486	500	97 %	80 - 120
ARSENIC	-0.0052	0		80 - 120
BORON	-0.0076	0		80 - 120
BARIUM	0.0020	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	487	500	97 %	80 - 120
CADMIUM	-0.0009	0		80 - 120
COBALT	0.0005	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0035	0		80 - 120
IRON	195	200	97 %	80 - 120
POTASSIUM	0.0420	0		80 - 120
LITHIUM	0.0026	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	-0.0056	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0382	0		80 - 120
NICKEL	-0.0168	0		80 - 120
LEAD	-0.0245	0		80 - 120
SULFUR	-0.0027	0		80 - 120
ANTIMONY	-0.0070	0		80 - 120
SELENIUM	0.0240	0		80 - 120
SILICON	-0.0006	0		80 - 120
TIN	0.0015	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0062	0		80 - 120
THALLIUM	-0.0098	0		80 - 120
VANADIUM	0.0062	0		80 - 120
ZINC	0.0040	0		80 - 120

*** - calibrated by linear regression*

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(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 12:05 PM
Analysis Time: 1205
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.12	1.00	112 %	80 - 120
ALUMINUM	486	500	97 %	80 - 120
ARSENIC	0.497	0.500	99 %	80 - 120
BORON	0.988	1.00	99 %	80 - 120
BARIUM	0.462	0.500	92 %	80 - 120
BERYLLIUM	0.488	0.500	98 %	80 - 120
CALCIUM	488	500	98 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.492	0.500	98 %	80 - 120
CHROMIUM	0.456	0.500	91 %	80 - 120
COPPER	0.508	0.500	102 %	80 - 120
IRON	196	200	98 %	80 - 120
POTASSIUM	0.0406	0		80 - 120
LITHIUM	0.0041	0		80 - 120
MAGNESIUM	499	500	100 %	80 - 120
MANGANESE	0.449	0.500	90 %	80 - 120
MOLYBDENUM	0.454	0.500	91 %	80 - 120
SODIUM	0.0463	0		80 - 120
NICKEL	0.961	1.00	96 %	80 - 120
LEAD	0.924	1.00	92 %	80 - 120
SULFUR	-0.0012	0		80 - 120
ANTIMONY	0.502	0.500	100 %	80 - 120
SELENIUM	0.536	0.500	107 %	80 - 120
SILICON	0.939	1.00	94 %	80 - 120
TIN	0.485	0.500	97 %	80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	0.483	0.500	97 %	80 - 120
THALLIUM	0.446	0.500	89 %	80 - 120
VANADIUM	0.481	0.500	96 %	80 - 120
ZINC	0.879	1.00	88 %	80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 3:54 PM
Analysis Time: 1554
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0007	0		80 - 120
ALUMINUM	483	500	97 %	80 - 120
ARSENIC	-0.0035	0		80 - 120
BORON	-0.0021	0		80 - 120
BARIUM	0.0022	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	485	500	97 %	80 - 120
CADMIUM	-0.0010	0		80 - 120
COBALT	0.0001	0		80 - 120
CHROMIUM	0.0008	0		80 - 120
COPPER	0.0013	0		80 - 120
IRON	193	200	97 %	80 - 120
POTASSIUM	0.0348	0		80 - 120
LITHIUM	0.0034	0		80 - 120
MAGNESIUM	492	500	98 %	80 - 120
MANGANESE	-0.0054	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0312	0		80 - 120
NICKEL	-0.0158	0		80 - 120
LEAD	-0.0282	0		80 - 120
SULFUR	0.0455	0		80 - 120
ANTIMONY	-0.0055	0		80 - 120
SELENIUM	0.0264	0		80 - 120
SILICON	-0.0015	0		80 - 120
TIN	0.0016	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	-0.0053	0		80 - 120
THALLIUM	-0.0113	0		80 - 120
VANADIUM	0.0056	0		80 - 120
ZINC	0.0038	0		80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 3:58 PM
Analysis Time: 1558
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.10	1.00	110 %	80 - 120
ALUMINUM	480	500	96 %	80 - 120
ARSENIC	0.498	0.500	100 %	80 - 120
BORON	0.957	1.00	96 %	80 - 120
BARIUM	0.463	0.500	93 %	80 - 120
BERYLLIUM	0.477	0.500	95 %	80 - 120
CALCIUM	481	500	96 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.494	0.500	99 %	80 - 120
CHROMIUM	0.453	0.500	91 %	80 - 120
COPPER	0.496	0.500	99 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.0222	0		80 - 120
LITHIUM	0.0038	0		80 - 120
MAGNESIUM	489	500	98 %	80 - 120
MANGANESE	0.442	0.500	88 %	80 - 120
MOLYBDENUM	0.455	0.500	91 %	80 - 120
SODIUM	0.0320	0		80 - 120
NICKEL	0.963	1.00	96 %	80 - 120
LEAD	0.928	1.00	93 %	80 - 120
SULFUR	0.0439	0		80 - 120
ANTIMONY	0.501	0.500	100 %	80 - 120
SELENIUM	0.532	0.500	106 %	80 - 120
SILICON	0.925	1.00	93 %	80 - 120
TIN	0.484	0.500	97 %	80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	0.473	0.500	95 %	80 - 120
THALLIUM	0.448	0.500	90 %	80 - 120
VANADIUM	0.467	0.500	93 %	80 - 120
ZINC	0.881	1.00	88 %	80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 8:30 PM
Analysis Time: 2030
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	466	500	93 %	80 - 120
ARSENIC	-0.0022	0		80 - 120
BORON	-0.0002	0		80 - 120
BARIUM	0.0018	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	483	500	97 %	80 - 120
CADMIUM	-0.0014	0		80 - 120
COBALT	0.0006	0		80 - 120
CHROMIUM	0.0013	0		80 - 120
COPPER	0.0014	0		80 - 120
IRON	194	200	97 %	80 - 120
POTASSIUM	0.0743	0		80 - 120
LITHIUM	0.0032	0		80 - 120
MAGNESIUM	496	500	99 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0018	0		80 - 120
SODIUM	0.101	0		80 - 120
NICKEL	-0.0169	0		80 - 120
LEAD	-0.0310	0		80 - 120
SULFUR	0.0499	0		80 - 120
ANTIMONY	-0.0029	0		80 - 120
SELENIUM	0.0196	0		80 - 120
SILICON	-0.0024	0		80 - 120
TIN	0.0010	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	-0.0038	0		80 - 120
THALLIUM	-0.0081	0		80 - 120
VANADIUM	0.0048	0		80 - 120
ZINC	0.0045	0		80 - 120

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 8:34 PM
Analysis Time: 2034
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.13	1.00	113 %	80 - 120
ALUMINUM	477	500	95 %	80 - 120
ARSENIC	0.504	0.500	101 %	80 - 120
BORON	0.990	1.00	99 %	80 - 120
BARIUM	0.463	0.500	93 %	80 - 120
BERYLLIUM	0.486	0.500	97 %	80 - 120
CALCIUM	495	500	99 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.526	0.500	105 %	80 - 120
CHROMIUM	0.492	0.500	98 %	80 - 120
COPPER	0.512	0.500	102 %	80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0523	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	512	500	102 %	80 - 120
MANGANESE	0.490	0.500	98 %	80 - 120
MOLYBDENUM	0.468	0.500	94 %	80 - 120
SODIUM	0.138	0		80 - 120
NICKEL	1.04	1.00	104 %	80 - 120
LEAD	0.994	1.00	99 %	80 - 120
SULFUR	0.0629	0		80 - 120
ANTIMONY	0.487	0.500	97 %	80 - 120
SELENIUM	0.535	0.500	107 %	80 - 120
SILICON	0.929	1.00	93 %	80 - 120
TIN	0.518	0.500	104 %	80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	0.491	0.500	98 %	80 - 120
THALLIUM	0.465	0.500	93 %	80 - 120
VANADIUM	0.499	0.500	100 %	80 - 120
ZINC	0.964	1.00	96 %	80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/5/2014 9:40 PM
Analysis Time: 2140
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	476	500	95 %	80 - 120
ARSENIC	-0.0037	0		80 - 120
BORON	0.0008	0		80 - 120
BARIUM	0.0020	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	485	500	97 %	80 - 120
CADMIUM	-0.0012	0		80 - 120
COBALT	0.0011	0		80 - 120
CHROMIUM	0.0009	0		80 - 120
COPPER	0.0026	0		80 - 120
IRON	194	200	97 %	80 - 120
POTASSIUM	0.0926	0		80 - 120
LITHIUM	0.0044	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0019	0		80 - 120
SODIUM	0.0937	0		80 - 120
NICKEL	-0.0175	0		80 - 120
LEAD	-0.0257	0		80 - 120
SULFUR	0.0163	0		80 - 120
ANTIMONY	-0.0033	0		80 - 120
SELENIUM	0.0207	0		80 - 120
SILICON	0.0020	0		80 - 120
TIN	0.0009	0		80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	-0.0038	0		80 - 120
THALLIUM	-0.0085	0		80 - 120
VANADIUM	0.0041	0		80 - 120
ZINC	0.0046	0		80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/5/2014 9:44 PM
Analysis Time: 2144
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.07	1.00	107 %	80 - 120
ALUMINUM	478	500	96 %	80 - 120
ARSENIC	0.504	0.500	101 %	80 - 120
BORON	0.984	1.00	98 %	80 - 120
BARIUM	0.458	0.500	92 %	80 - 120
BERYLLIUM	0.486	0.500	97 %	80 - 120
CALCIUM	490	500	98 %	80 - 120
CADMIUM	1.03	1.00	103 %	80 - 120
COBALT	0.512	0.500	102 %	80 - 120
CHROMIUM	0.458	0.500	92 %	80 - 120
COPPER	0.508	0.500	102 %	80 - 120
IRON	197	200	99 %	80 - 120
POTASSIUM	0.108	0		80 - 120
LITHIUM	0.0038	0		80 - 120
MAGNESIUM	503	500	101 %	80 - 120
MANGANESE	0.458	0.500	92 %	80 - 120
MOLYBDENUM	0.465	0.500	93 %	80 - 120
SODIUM	0.119	0		80 - 120
NICKEL	1.01	1.00	101 %	80 - 120
LEAD	0.965	1.00	97 %	80 - 120
SULFUR	0.0226	0		80 - 120
ANTIMONY	0.490	0.500	98 %	80 - 120
SELENIUM	0.537	0.500	107 %	80 - 120
SILICON	0.882	1.00	88 %	80 - 120
TIN	0.503	0.500	101 %	80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	0.489	0.500	98 %	80 - 120
THALLIUM	0.456	0.500	91 %	80 - 120
VANADIUM	0.495	0.500	99 %	80 - 120
ZINC	0.929	1.00	93 %	80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/6/2014 1:58 AM
Analysis Time: 0158
Data File: 110514ICP12A

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0001	0		80 - 120
ALUMINUM	452	500	90 %	80 - 120
ARSENIC	-0.0038	0		80 - 120
BORON	-0.0073	0		80 - 120
BARIUM	0.0022	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	470	500	94 %	80 - 120
CADMIUM	-0.0012	0		80 - 120
COBALT	0.0012	0		80 - 120
CHROMIUM	0.0016	0		80 - 120
COPPER	0.0039	0		80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.0345	0		80 - 120
LITHIUM	0.0042	0		80 - 120
MAGNESIUM	481	500	96 %	80 - 120
MANGANESE	-0.0061	0		80 - 120
MOLYBDENUM	-0.0015	0		80 - 120
SODIUM	0.0451	0		80 - 120
NICKEL	-0.0172	0		80 - 120
LEAD	-0.0268	0		80 - 120
SULFUR	-0.0003	0		80 - 120
ANTIMONY	-0.0035	0		80 - 120
SELENIUM	0.0257	0		80 - 120
SILICON	-0.0032	0		80 - 120
TIN	0.0004	0		80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	-0.0057	0		80 - 120
THALLIUM	-0.0097	0		80 - 120
VANADIUM	0.0062	0		80 - 120
ZINC	0.0044	0		80 - 120

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 110514ICP12A

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1107	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 14G16199	1	1112	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD7 14J27631	1	1116		X	X		X	X	X	X	X	X	X		X	X		X		X		X	X	X	X	X		X	X	X	X	X
STD2 14J08649	1	1120		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD3 14J06521	1	1124			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1129	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1133	X							X				X			X				X				X		X					
STD6 14I24985	1	1138	X							X				X			X				X				X		X					
ICV	1	1147	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICB	1	1152	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICVLL	1	1156	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	1201	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1205	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVLL	1	1341	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCV	1	1433	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCB	1	1438	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCVLL	1	1442	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
BLANK WG752285	1	1448	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
LCS WG752285	1	1453	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
LCSD WG752285	1	1457	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-01 WG752285	5	1501	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-01SD WG752285	25	1505	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-01PS WG752285	5	1510	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-01MS WG752285	5	1514	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-01MSD WG752285	5	1518	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-03 WG752285	5	1523	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-04 WG752285	5	1527	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
L729802-05 WG752285	5	1532	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCV	1	1536	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCB	1	1540	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
CCVLL	1	1550	X	X	X	X	X		X		X	X	X		X			X		X		X		X				X			X	X
ICSA	1	1554	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1558	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: ICVLL
Analysis Date: 11/05/14 11:56 Standard ID: 14G16199
Sequence: 12

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	9702.708	99.54188	99.54188	0.3437320	100	60	140	9747.362	
N	INDIUM	%	3629.765	100.9874	100.9874	0.1860588	101	60	140	3594.276	
N	YTTRIUM	%	6169.150	104.2804	104.2804	0.9807887	104	60	140	5915.922	
N	YTTRIUM	%	163234.9	101.7680	101.7680	0.05364697	102	60	140	160399.2	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.07447442	0.07447442	22.21878	74	50	150	0.10	0.9999972	
Y	ANTIMONY	ppm	0.02042535	0.02042535	4.046465	102	50	150	0.02	0.9999965	
Y	ARSENIC	ppm	0.02060802	0.02060802	5.286422	103	50	150	0.02	0.9998675	
Y	BARIUM	ppm	0.005412053	0.005412053	1.157166	108	50	150	0.0050	0.9999755	
Y	BERYLLIUM	ppm	0.001849161	0.001849161	4.178625	92	50	150	0.0020	0.9996143	
Y	BORON	ppm	0.1965841	0.1965841	1.824783	98	50	150	0.20	0.9998548	
Y	CADMIUM	ppm	0.005371965	0.005371965	1.430497	107	50	150	0.0050	0.9999980	
Y	CALCIUM	ppm	0.4908459	0.4908459	0.7644550	98	50	150	0.50	0.9999590	
Y	CHROMIUM	ppm	0.01017324	0.01017324	6.786791	102	50	150	0.01	0.9998468	
Y	COBALT	ppm	0.009215904	0.009215904	1.541064	92	50	150	0.01	0.9999906	
Y	COPPER	ppm	0.02192032	0.02192032	7.596137	110	50	150	0.02	0.9996926	
Y	IRON	ppm	0.1029923	0.1029923	1.282378	103	50	150	0.10	0.9999746	
Y	LEAD	ppm	0.004507502	0.004507502	8.438009	90	50	150	0.0050	0.9999957	
Y	LITHIUM	ppm	0.01575348	0.01575348	1.256921	105	50	150	0.0150	0.9996023	
Y	MAGNESIUM	ppm	0.08447179	0.08447179	17.41241	84	50	150	0.10	0.9999683	
Y	MANGANESE	ppm	0.01035645	0.01035645	0.1764914	104	50	150	0.01	0.9998360	
Y	MOLYBDENUM	ppm	0.005113404	0.005113404	1.115983	102	50	150	0.0050	0.9999110	
Y	NICKEL	ppm	0.01898082	0.01898082	1.455957	95	50	150	0.02	0.9999776	
Y	POTASSIUM	ppm	0.5039649	0.5039649	0.6390895	101	50	150	0.50	0.9999714	
Y	SELENIUM	ppm	0.02018509	0.02018509	5.068438	101	50	150	0.02	0.9999997	
Y	SILICON	ppm	0.1870903	0.1870903	0.5430090	94	50	150	0.20	0.9993633	
Y	SILVER	ppm	0.009609913	0.009609913	7.011969	96	50	150	0.01	0.9999954	
Y	SODIUM	ppm	0.5120702	0.5120702	0.7634592	102	50	150	0.50	0.9999848	
Y	STRONTIUM	ppm	0.01004572	0.01004572	0.4740556	100	50	150	0.01	0.9996697	
Y	SULFUR	ppm	4.646713	4.646713	0.3937690	465	50	150	1	0.9998971	NT
Y	THALLIUM	ppm	0.01948739	0.01948739	3.082181	97	50	150	0.02	0.9999877	
Y	TIN	ppm	0.01863770	0.01863770	4.751434	93	50	150	0.02	0.9998539	

Sample ID: ICVLL
Analysis Date: 11/05/14 11:56 Standard ID: 14G16199
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009724878	0.009724878	4.998719	97	50	150	0.01	0.9995971
Y	VANADIUM	ppm	0.009649941	0.009649941	16.54044	96	50	150	0.01	0.9995804
Y	ZINC	ppm	0.03037180	0.03037180	0.3713201	101	50	150	0.03	0.9999657

Sample ID: CCVLL
Analysis Date: 11/05/14 14:42 Standard ID: 14G16199
Sequence: 50

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	9919.968	101.7708	101.7708	0.3454759	102	60	140	9747.362	
N	INDIUM	%	3647.585	101.4832	101.4832	0.2330622	101	60	140	3594.276	
N	YTTRIUM	%	5990.717	101.2643	101.2643	0.8083185	101	60	140	5915.922	
N	YTTRIUM	%	162267.4	101.1648	101.1648	0.2024911	101	60	140	160399.2	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.08670055	0.08670055	27.43919	87	1	200	0.10	0.9999972
Y	ANTIMONY	ppm	0.01899203	0.01899203	4.503520	95	1	200	0.02	0.9999965
Y	ARSENIC	ppm	0.02151991	0.02151991	1.808780	108	1	200	0.02	0.9998675
Y	BARIUM	ppm	0.005341944	0.005341944	1.990018	107	1	200	0.0050	0.9999755
Y	BERYLLIUM	ppm	0.001890366	0.001890366	3.348598	95	1	200	0.0020	0.9996143
Y	BORON	ppm	0.1969837	0.1969837	1.174165	98	1	200	0.20	0.9998548
Y	CADMIUM	ppm	0.005271956	0.005271956	1.253607	105	1	200	0.0050	0.9999980
Y	CALCIUM	ppm	0.5151009	0.5151009	1.501634	103	1	200	0.50	0.9999590
Y	CHROMIUM	ppm	0.01056013	0.01056013	3.259228	106	1	200	0.01	0.9998468
Y	COBALT	ppm	0.009516045	0.009516045	1.130270	95	1	200	0.01	0.9999906
Y	COPPER	ppm	0.02316166	0.02316166	6.159592	116	1	200	0.02	0.9996926
Y	IRON	ppm	0.1090501	0.1090501	2.716728	109	1	200	0.10	0.9999746
Y	LEAD	ppm	0.005495736	0.005495736	20.18118	110	1	200	0.0050	0.9999957
Y	LITHIUM	ppm	0.01518665	0.01518665	2.355152	101	1	200	0.0150	0.9996023
Y	MAGNESIUM	ppm	0.1220790	0.1220790	26.97990	122	1	200	0.10	0.9999683
Y	MANGANESE	ppm	0.01050315	0.01050315	0.3937183	105	1	200	0.01	0.9998360
Y	MOLYBDENUM	ppm	0.005210643	0.005210643	4.141430	104	1	200	0.0050	0.9999110
Y	NICKEL	ppm	0.01964641	0.01964641	0.8735646	98	1	200	0.02	0.9999776
Y	POTASSIUM	ppm	0.5064357	0.5064357	2.420011	101	1	200	0.50	0.9999714
Y	SELENIUM	ppm	0.01974044	0.01974044	12.69219	99	1	200	0.02	0.9999997
Y	SILICON	ppm	0.1894432	0.1894432	0.1885436	95	1	200	0.20	0.9993633
Y	SILVER	ppm	0.009883848	0.009883848	2.017714	99	1	200	0.01	0.9999954
Y	SODIUM	ppm	0.5063444	0.5063444	0.5707381	101	1	200	0.50	0.9999848
Y	STRONTIUM	ppm	0.01007412	0.01007412	1.194356	101	1	200	0.01	0.9996697
N	SULFUR	ppm	4.667638	4.667638	0.1085352	467			1	0.9998971
Y	THALLIUM	ppm	0.01960410	0.01960410	3.786183	98	1	200	0.02	0.9999877
Y	TIN	ppm	0.01910666	0.01910666	2.949433	96	1	200	0.02	0.9998539

Sample ID: CCVLL
Analysis Date: 11/05/14 14:42 Standard ID: 14G16199
Sequence: 50

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009407405	0.009407405	3.837893	94	1	200	0.01	0.9995971
Y	VANADIUM	ppm	0.009500663	0.009500663	19.31877	95	1	200	0.01	0.9995804
Y	ZINC	ppm	0.03102272	0.03102272	0.5074781	103	1	200	0.03	0.9999657

Sample ID: CCVLL
Analysis Date: 11/05/14 15:50 Standard ID: 14G16199
Sequence: 65

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	10033.46	102.9351	102.9351	0.8112209	103	60	140	9747.362	
N	INDIUM	%	3727.840	103.7160	103.7160	0.8551253	104	60	140	3594.276	
N	YTTRIUM	%	6194.378	104.7069	104.7069	0.2340347	105	60	140	5915.922	
N	YTTRIUM	%	166682.2	103.9171	103.9171	0.3652396	104	60	140	160399.2	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.06764870	0.06764870	28.22741	68	1	200	0.10	0.9999972
Y	ANTIMONY	ppm	0.02004146	0.02004146	4.127061	100	1	200	0.02	0.9999965
Y	ARSENIC	ppm	0.02031530	0.02031530	6.178079	102	1	200	0.02	0.9998675
Y	BARIUM	ppm	0.005092789	0.005092789	1.611517	102	1	200	0.0050	0.9999755
Y	BERYLLIUM	ppm	0.001935885	0.001935885	1.220549	97	1	200	0.0020	0.9996143
Y	BORON	ppm	0.1942464	0.1942464	1.275717	97	1	200	0.20	0.9998548
Y	CADMIUM	ppm	0.005239197	0.005239197	4.369253	105	1	200	0.0050	0.9999980
Y	CALCIUM	ppm	0.4942647	0.4942647	1.754555	99	1	200	0.50	0.9999590
Y	CHROMIUM	ppm	0.01005366	0.01005366	2.667952	101	1	200	0.01	0.9998468
Y	COBALT	ppm	0.009153690	0.009153690	2.073070	92	1	200	0.01	0.9999906
Y	COPPER	ppm	0.01988551	0.01988551	16.58361	99	1	200	0.02	0.9996926
Y	IRON	ppm	0.1034282	0.1034282	0.7498706	103	1	200	0.10	0.9999746
Y	LEAD	ppm	0.005015625	0.005015625	17.97861	100	1	200	0.0050	0.9999957
Y	LITHIUM	ppm	0.01495482	0.01495482	3.559507	100	1	200	0.0150	0.9996023
Y	MAGNESIUM	ppm	0.1087179	0.1087179	18.15368	109	1	200	0.10	0.9999683
Y	MANGANESE	ppm	0.01022485	0.01022485	0.3972419	102	1	200	0.01	0.9998360
Y	MOLYBDENUM	ppm	0.005179229	0.005179229	1.629295	104	1	200	0.0050	0.9999110
Y	NICKEL	ppm	0.01929687	0.01929687	1.611708	96	1	200	0.02	0.9999776
Y	POTASSIUM	ppm	0.4964959	0.4964959	1.085050	99	1	200	0.50	0.9999714
Y	SELENIUM	ppm	0.01996187	0.01996187	0.2588782	100	1	200	0.02	0.9999997
Y	SILICON	ppm	0.1831189	0.1831189	0.6147766	92	1	200	0.20	0.9993633
Y	SILVER	ppm	0.009685253	0.009685253	6.635231	97	1	200	0.01	0.9999954
Y	SODIUM	ppm	0.5025452	0.5025452	0.2548484	101	1	200	0.50	0.9999848
Y	STRONTIUM	ppm	0.009887677	0.009887677	0.8280668	99	1	200	0.01	0.9996697
N	SULFUR	ppm	4.500161	4.500161	0.6837551	450			1	0.9998971
Y	THALLIUM	ppm	0.01919236	0.01919236	3.838074	96	1	200	0.02	0.9999877
Y	TIN	ppm	0.01833088	0.01833088	0.4344377	92	1	200	0.02	0.9998539

Sample ID: CCVLL
Analysis Date: 11/05/14 15:50 Standard ID: 14G16199
Sequence: 65

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009180470	0.009180470	3.464878	92	1	200	0.01	0.9995971
Y	VANADIUM	ppm	0.009618058	0.009618058	19.63036	96	1	200	0.01	0.9995804
Y	ZINC	ppm	0.03190558	0.03190558	1.040006	106	1	200	0.03	0.9999657

Raw Data

3051 Soils
ESC Lab Sciences

Method: 3051 SOP:340388 R.13

HNO3 Standard ID:	14J24505	**Vol. Used:**	4.5 mL	**Workgroup:**	752285
HCl Standard ID:	14J02360	**Vol. Used:**	1.5 mL	**Date:**	11/2/2014
Matrix Spike Standard ID:	14J20248	**Vol. Used:**	0.5 mL	**Analyst:**	542
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.5 mL	**Balance ID:**	1119070828
LCS Standard ID:	14J31922	**Mass Used:**	0.5 g	**Tray ID:**	4
				Microwave ID	MD2861
Spike Pipetter ID:	1193115			**Digest Date &Time:**	11/2/14 20:55

Pos.		Sample Number	Mass (g)	Final Volume (mL)	Vessel Initial Weight (g)	Final Vessel Weight (g)	Sample Description Color	Sample Description Type	Comments
1		**BLANK**	0.48	50	140.20	140.19	White	Teflon Chips	
2		**LCS**	0.48	50	138.37	138.37	Brown	Mud	
3		**LCSD**	0.50	50	136.87	136.66	Brown	Mud	
4	1.	**L729802-01**	0.53	50	137.85	137.85	Brown	Mud	
5	1.	**MS L729802-01**	0.53	50	136.58	136.58	Brown	Mud	
6	1.	**MSD L729802-01**	0.48	50	140.18	140.18	Brown	Mud	
7	2.	**L729802-03**	0.51	50	142.40	142.40	Brown	Mud	
8	3.	**L729802-04**	0.49	50	135.25	135.02	Brown	Mud	
9	4.	**L729802-05**	0.49	50	139.06	139.06	Grey	Mud	
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Reviewed By: **Analyst:**

Additional Remarks: **Date:**

Comprehensive sample report

11/6/2014 7:56:27 AM

LabBook 110514ICP12A.imexp

Instrument esc icp 12
Serial number IC74DC141801

LabBook summary

Acquired by icp12 Date 11/5/2014 10:20:24 PM
Last changed by icp12 Date 11/6/2014 7:51:43 AM

Configuration iCAP 7000 ASX520
Template DAILY CALIBRATION
Evaluation eQuant
Number of samples 183
Number of results 183

Method parameters

View Direction	Radial	Axial
UV Exposure Time	15	15
UV RF Power	1150	1150
UV Neb Gas Flow	0.55	0.55
VIS Exposure Time	5	5
VIS RF Power	1150	1150
VIS Neb Gas Flow	0.55	0.55
Cool Gas Flow Rate	12	12
Aux Gas Flow Rate	0.5	0.5

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
Al	308.215 {109}	Radial	Y 360.073 {94} (Radial)
B	249.678 {135}	Radial	Y 360.073 {94} (Radial)
Be	313.042 {108}	Radial	Y 360.073 {94} (Radial)
Ca	317.933 {106}	Radial	Y 360.073 {94} (Radial)
Ca	373.690 {90}	Radial	Y 360.073 {94} (Radial)
Fe	259.940 {130}	Radial	Y 360.073 {94} (Radial)
Fe	271.441 {124}	Radial	Y 360.073 {94} (Radial)
K	766.490 {44}	Radial	Y 360.073 {94} (Radial)
Li	670.784 {50}	Radial	Y 360.073 {94} (Radial)
Mg	279.079 {121}	Radial	Y 360.073 {94} (Radial)
Na	589.592 {57}	Radial	Y 360.073 {94} (Radial)
Sr	421.552 {80}	Radial	Y 360.073 {94} (Radial)
Ti	334.941 {101}	Radial	Y 360.073 {94} (Radial)
V	292.402 {115}	Radial	Y 360.073 {94} (Radial)
Co	228.616 {447}	Axial	In 230.606 {446} (Axial)
Ni	231.604 {446}	Axial	In 230.606 {446} (Axial)
Pb	220.353 {453}	Axial	In 230.606 {446} (Axial)
Sn	189.989 {478}	Axial	In 230.606 {446} (Axial)
Tl	190.856 {477}	Axial	In 230.606 {446} (Axial)
As	189.042 {478}	Axial	Y 224.306 {450} (Axial)
Ba	233.527 {445}	Axial	Y 224.306 {450} (Axial)
Mo	202.030 {467}	Axial	Y 224.306 {450} (Axial)
S	182.034 {485}	Axial	Y 224.306 {450} (Axial)
Si	251.611 {134}	Axial	Y 360.073 {94} (Axial)
Sb	206.833 {463}	Axial	Y 224.306 {450} (Axial)
Se	196.090 {472}	Axial	Y 224.306 {450} (Axial)
Ag	328.068 {103}	Axial	Y 360.073 {94} (Axial)
Cr	267.716 {126}	Axial	Y 360.073 {94} (Axial)

Comprehensive sample report

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Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
Mn	257.610 {131}	Axial	Y 360.073 {94} (Axial)
Y	360.073 {94}	Radial	
Y	224.306 {450}	Axial	
In	230.606 {446}	Axial	
Y	360.073 {94}	Axial	
Na	818.326 {41}	Radial	Y 360.073 {94} (Radial)
Zn	206.200 {463}	Axial	Y 224.306 {450} (Axial)
Cd	228.802 {447}	Axial	Y 224.306 {450} (Axial)
Cu	324.754 {104}	Radial	Y 360.073 {94} (Radial)

Symbol	Wavelength (nm) / Order	Peak X Location	Peak Y Location	Width	Height	Center region position	Center region width
Al	308.215 {109}	115.44	173.49	13	2	6	2
B	249.678 {135}	273	281.2	13	2	6	2
Be	313.042 {108}	421.62	168.22	13	2	6	2
Ca	317.933 {106}	265.821	162.175	13	2	6	2
Ca	373.690 {90}	168.07	113.56	13	2	6	3
Fe	259.940 {130}	397.11	256.06	13	2	6	3
Fe	271.441 {124}	204.72	231.28	13	2	6	2
K	766.490 {44}	303.291	19.803	13	2	6	3
Li	670.784 {50}	38.51	29.51	13	2	6	3
Mg	279.079 {121}	362.94	217.34	13	2	7	2
Na	589.592 {57}	133.31	41.24	13	2	6	3
Sr	421.552 {80}	300.2	87.8	13	2	6	3
Ti	334.941 {101}	451.9	145.22	13	2	7	2
V	292.402 {115}	158.82	195.22	13	2	6	2
Co	228.616 {447}	137.27	26.7	13	5	6	3
Ni	231.604 {446}	436.52	16.63	13	5	7	2
Pb	220.353 {453}	289.47	60.36	13	5	7	2
Sn	189.989 {478}	418.73	244.56	13	5	7	2
Tl	190.856 {477}	365.75	237.23	13	5	6	2
As	189.042 {478}	175.7	252.27	13	5	6	2
Ba	233.527 {445}	506.17	10.3	13	5	6	2
Mo	202.030 {467}	322.49	156.38	13	5	6	2
S	182.034 {485}	212.22	318.33	13	5	7	2
Si	251.611 {134}	286.46	276.12	13	2	6	3
Sb	206.833 {463}	286.94	127.58	13	5	6	2
Se	196.090 {472}	288.85	196.82	13	5	6	2
Ag	328.068 {103}	396.22	151.61	13	2	6	3
Cr	267.716 {126}	310.19	238.93	13	2	6	3
Mn	257.610 {131}	331.372	261.321	13	2	7	2
Y	360.073 {94}	478.34	124.26	13	2	6	3
Y	224.306 {450}	192.52	43.57	13	5	6	2
In	230.606 {446}	225.61	19.46	13	5	6	3
Y	360.073 {94}	478.34	124.26	13	2	6	2
Na	818.326 {41}	55.83	14.96	13	2	6	2
Zn	206.200 {463}	139.57	131.02	13	5	7	2
Cd	228.802 {447}	176.07	26.03	13	5	6	3
Cu	324.754 {104}	371.897	154.964	13	2	6	2

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Symbol	Wavelength (nm) / Order	Left Bkg	Location	Width	Right Bkg	Location	Width
Al	308.215 {109}	Fixed	1	1	None		
B	249.678 {135}	None			Fixed	13	1
Be	313.042 {108}	Fixed	1	1	Fixed	13	1
Ca	317.933 {106}	Fixed	1	1	Fixed	13	1
Ca	373.690 {90}	Fixed	1	1	Fixed	13	1
Fe	259.940 {130}	Fixed	1	1	Fixed	13	1
Fe	271.441 {124}	Fixed	1	1	Fixed	13	1
K	766.490 {44}	Fixed	1	1	Fixed	13	1
Li	670.784 {50}	Fixed	1	1	Fixed	13	1
Mg	279.079 {121}	Fixed	1	1	Fixed	13	1
Na	589.592 {57}	Fixed	1	1	Fixed	13	1
Sr	421.552 {80}	Fixed	1	1	None		
Ti	334.941 {101}	None			Fixed	13	1
V	292.402 {115}	Fixed	1	1	None		
Co	228.616 {447}	Fixed	1	1	None		
Ni	231.604 {446}	Fixed	1	1	Fixed	13	1
Pb	220.353 {453}	Fixed	1	1	Fixed	13	1
Sn	189.989 {478}	Fixed	1	1	Fixed	13	1
Tl	190.856 {477}	Fixed	3	1	None		
As	189.042 {478}	None			Fixed	13	1
Ba	233.527 {445}	None			Fixed	13	1
Mo	202.030 {467}	Fixed	1	1	Fixed	13	1
S	182.034 {485}	Fixed	1	1	Fixed	13	1
Si	251.611 {134}	Fixed	1	1	None		
Sb	206.833 {463}	Fixed	1	1	None		
Se	196.090 {472}	Fixed	1	1	None		
Ag	328.068 {103}	Fixed	3	1	None		
Cr	267.716 {126}	None			Fixed	13	1
Mn	257.610 {131}	None			Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	224.306 {450}	Fixed	1	1	Fixed	13	1
In	230.606 {446}	Fixed	1	1	None		
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Na	818.326 {41}	Fixed	1	1	Fixed	13	1
Zn	206.200 {463}	Fixed	1	1	Fixed	13	1
Cd	228.802 {447}	Fixed	1	1	Fixed	13	1
Cu	324.754 {104}	None			Fixed	13	1

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Calibration details

	STD1 14G16199	STD7 14J27631	STD2 14J08649
Al 308.215 {109} (Radial)	0.100 ppm		
B 249.678 {135} (Radial)	0.200 ppm	0.500 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.500 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	0.500 ppm	0.500 ppm	1.000 ppm
Ca 373.690 {90} (Radial)			
Fe 259.940 {130} (Radial)	0.100 ppm		1.000 ppm
Fe 271.441 {124} (Radial)			
K 766.490 {44} (Radial)	0.500 ppm		
Li 670.784 {50} (Radial)	0.015 ppm	0.500 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.100 ppm		
Na 589.592 {57} (Radial)	0.500 ppm	0.500 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.500 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	0.005 ppm		1.000 ppm
Mo 202.030 {467} (Axial)	0.005 ppm		1.000 ppm
S 182.034 {485} (Axial)	5.000 ppm		1.000 ppm
Si 251.611 {134} (Axial)	0.200 ppm	0.500 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Se 196.090 {472} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Na 818.326 {41} (Radial)			
Zn 206.200 {463} (Axial)	0.030 ppm	0.500 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.500 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.020 ppm	0.500 ppm	1.000 ppm

	STD3 14J06521	STD4 14J27630	STD5 14J08650
Al 308.215 {109} (Radial)		10.000 ppm	250.000 ppm
B 249.678 {135} (Radial)	2.000 ppm		
Be 313.042 {108} (Radial)	2.000 ppm		
Ca 317.933 {106} (Radial)	2.000 ppm	10.000 ppm	
Ca 373.690 {90} (Radial)		10.000 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	2.000 ppm	10.000 ppm	
Fe 271.441 {124} (Radial)		10.000 ppm	100.000 ppm
K 766.490 {44} (Radial)		10.000 ppm	50.000 ppm
Li 670.784 {50} (Radial)	2.000 ppm		
Mg 279.079 {121} (Radial)		10.000 ppm	250.000 ppm
Na 589.592 {57} (Radial)	2.000 ppm	10.000 ppm	
Sr 421.552 {80} (Radial)	2.000 ppm		
Ti 334.941 {101} (Radial)	2.000 ppm		
V 292.402 {115} (Radial)	2.000 ppm		
Co 228.616 {447} (Axial)	2.000 ppm		
Ni 231.604 {446} (Axial)	2.000 ppm		
Pb 220.353 {453} (Axial)			
Sn 189.989 {478} (Axial)	2.000 ppm		
Tl 190.856 {477} (Axial)			

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	STD3 14J06521	STD4 14J27630	STD5 14J08650
As 189.042 {478} (Axial)	2.000 ppm		
Ba 233.527 {445} (Axial)	2.000 ppm	10.000 ppm	
Mo 202.030 {467} (Axial)	2.000 ppm		
S 182.034 {485} (Axial)	2.000 ppm	10.000 ppm	50.000 ppm
Si 251.611 {134} (Axial)	2.000 ppm		
Sb 206.833 {463} (Axial)			
Se 196.090 {472} (Axial)			
Ag 328.068 {103} (Axial)			
Cr 267.716 {126} (Axial)	2.000 ppm		
Mn 257.610 {131} (Axial)	2.000 ppm		
Na 818.326 {41} (Radial)		10.000 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	2.000 ppm		
Cd 228.802 {447} (Axial)			
Cu 324.754 {104} (Radial)	2.000 ppm		

	STD6 14I24985	STD1 14G16199	STD7 14J27631
Al 308.215 {109} (Radial)	500.000 ppm	0.100 ppm	
B 249.678 {135} (Radial)		0.200 ppm	0.500 ppm
Be 313.042 {108} (Radial)		0.002 ppm	0.500 ppm
Ca 317.933 {106} (Radial)		0.500 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	500.000 ppm		
Fe 259.940 {130} (Radial)		0.100 ppm	
Fe 271.441 {124} (Radial)	200.000 ppm		
K 766.490 {44} (Radial)	100.000 ppm	0.500 ppm	
Li 670.784 {50} (Radial)		0.015 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	500.000 ppm	0.100 ppm	
Na 589.592 {57} (Radial)		0.500 ppm	0.500 ppm
Sr 421.552 {80} (Radial)		0.010 ppm	0.500 ppm
Ti 334.941 {101} (Radial)		0.010 ppm	0.500 ppm
V 292.402 {115} (Radial)		0.010 ppm	0.500 ppm
Co 228.616 {447} (Axial)		0.010 ppm	0.500 ppm
Ni 231.604 {446} (Axial)		0.020 ppm	0.500 ppm
Pb 220.353 {453} (Axial)		0.005 ppm	0.500 ppm
Sn 189.989 {478} (Axial)		0.020 ppm	0.500 ppm
Tl 190.856 {477} (Axial)		0.020 ppm	0.500 ppm
As 189.042 {478} (Axial)		0.010 ppm	0.500 ppm
Ba 233.527 {445} (Axial)		0.005 ppm	
Mo 202.030 {467} (Axial)		0.005 ppm	
S 182.034 {485} (Axial)	100.000 ppm	5.000 ppm	
Si 251.611 {134} (Axial)		0.200 ppm	0.500 ppm
Sb 206.833 {463} (Axial)		0.020 ppm	0.500 ppm
Se 196.090 {472} (Axial)		0.020 ppm	0.500 ppm
Ag 328.068 {103} (Axial)		0.010 ppm	0.500 ppm
Cr 267.716 {126} (Axial)		0.010 ppm	0.500 ppm
Mn 257.610 {131} (Axial)		0.010 ppm	0.500 ppm
Na 818.326 {41} (Radial)	500.000 ppm		
Zn 206.200 {463} (Axial)		0.030 ppm	0.500 ppm
Cd 228.802 {447} (Axial)		0.005 ppm	0.500 ppm
Cu 324.754 {104} (Radial)		0.020 ppm	0.500 ppm

	STD2 14J08649	STD3 14J06521	STD4 14J27630
Al 308.215 {109} (Radial)			10.000 ppm
B 249.678 {135} (Radial)	1.000 ppm	2.000 ppm	
Be 313.042 {108} (Radial)	1.000 ppm	2.000 ppm	
Ca 317.933 {106} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm

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	STD2 14J08649	STD3 14J06521	STD4 14J27630
Ca 373.690 {90} (Radial)			10.000 ppm
Fe 259.940 {130} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Fe 271.441 {124} (Radial)			10.000 ppm
K 766.490 {44} (Radial)			10.000 ppm
Li 670.784 {50} (Radial)	1.000 ppm	2.000 ppm	
Mg 279.079 {121} (Radial)			10.000 ppm
Na 589.592 {57} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	1.000 ppm	2.000 ppm	
Ti 334.941 {101} (Radial)	1.000 ppm	2.000 ppm	
V 292.402 {115} (Radial)	1.000 ppm	2.000 ppm	
Co 228.616 {447} (Axial)	1.000 ppm	2.000 ppm	
Ni 231.604 {446} (Axial)	1.000 ppm	2.000 ppm	
Pb 220.353 {453} (Axial)	1.000 ppm		
Sn 189.989 {478} (Axial)	1.000 ppm	2.000 ppm	
Tl 190.856 {477} (Axial)	1.000 ppm		
As 189.042 {478} (Axial)	1.000 ppm	2.000 ppm	
Ba 233.527 {445} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	1.000 ppm	2.000 ppm	
S 182.034 {485} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Si 251.611 {134} (Axial)	1.000 ppm	2.000 ppm	
Sb 206.833 {463} (Axial)	1.000 ppm		
Se 196.090 {472} (Axial)	1.000 ppm		
Ag 328.068 {103} (Axial)	1.000 ppm		
Cr 267.716 {126} (Axial)	1.000 ppm	2.000 ppm	
Mn 257.610 {131} (Axial)	1.000 ppm	2.000 ppm	
Na 818.326 {41} (Radial)			10.000 ppm
Zn 206.200 {463} (Axial)	1.000 ppm	2.000 ppm	
Cd 228.802 {447} (Axial)	1.000 ppm		
Cu 324.754 {104} (Radial)	1.000 ppm	2.000 ppm	

	STD5 14J08650	STD6 14I24985
Al 308.215 {109} (Radial)	250.000 ppm	500.000 ppm
B 249.678 {135} (Radial)		
Be 313.042 {108} (Radial)		
Ca 317.933 {106} (Radial)		
Ca 373.690 {90} (Radial)	250.000 ppm	500.000 ppm
Fe 259.940 {130} (Radial)		
Fe 271.441 {124} (Radial)	100.000 ppm	200.000 ppm
K 766.490 {44} (Radial)	50.000 ppm	100.000 ppm
Li 670.784 {50} (Radial)		
Mg 279.079 {121} (Radial)	250.000 ppm	500.000 ppm
Na 589.592 {57} (Radial)		
Sr 421.552 {80} (Radial)		
Ti 334.941 {101} (Radial)		
V 292.402 {115} (Radial)		
Co 228.616 {447} (Axial)		
Ni 231.604 {446} (Axial)		
Pb 220.353 {453} (Axial)		
Sn 189.989 {478} (Axial)		
Tl 190.856 {477} (Axial)		
As 189.042 {478} (Axial)		
Ba 233.527 {445} (Axial)		
Mo 202.030 {467} (Axial)		
S 182.034 {485} (Axial)	50.000 ppm	100.000 ppm
Si 251.611 {134} (Axial)		

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	STD5 14J08650	STD6 14I24985
Sb 206.833 {463} (Axial)		
Se 196.090 {472} (Axial)		
Ag 328.068 {103} (Axial)		
Cr 267.716 {126} (Axial)		
Mn 257.610 {131} (Axial)		
Na 818.326 {41} (Radial)	250.000 ppm	500.000 ppm
Zn 206.200 {463} (Axial)		
Cd 228.802 {447} (Axial)		
Cu 324.754 {104} (Radial)		

Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Al	308.215 {109}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
Na	589.592 {57}	Linear	None	Blank
Sr	421.552 {80}	Linear	None	Blank
Ti	334.941 {101}	Linear	None	Blank
V	292.402 {115}	Linear	None	Blank
Co	228.616 {447}	Linear	None	Blank
Ni	231.604 {446}	Linear	None	Blank
Pb	220.353 {453}	Linear	None	Blank
Sn	189.989 {478}	Linear	None	Blank
Tl	190.856 {477}	Linear	None	Blank
As	189.042 {478}	Linear	None	Blank
Ba	233.527 {445}	Linear	None	Blank
Mo	202.030 {467}	Linear	None	Blank
S	182.034 {485}	Linear	None	Blank
Si	251.611 {134}	Linear	None	Blank
Sb	206.833 {463}	Linear	None	Blank
Se	196.090 {472}	Linear	None	Blank
Ag	328.068 {103}	Linear	None	Blank
Cr	267.716 {126}	Linear	None	Blank
Mn	257.610 {131}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	224.306 {450}	Linear	None	Blank
In	230.606 {446}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Na	818.326 {41}	Linear	None	Blank
Zn	206.200 {463}	Linear	None	Blank
Cd	228.802 {447}	Linear	None	Blank
Cu	324.754 {104}	Linear	None	Blank

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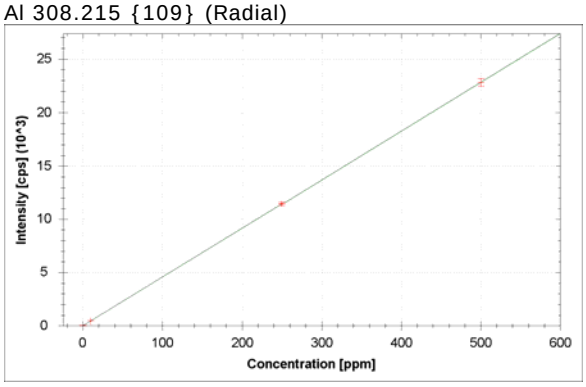
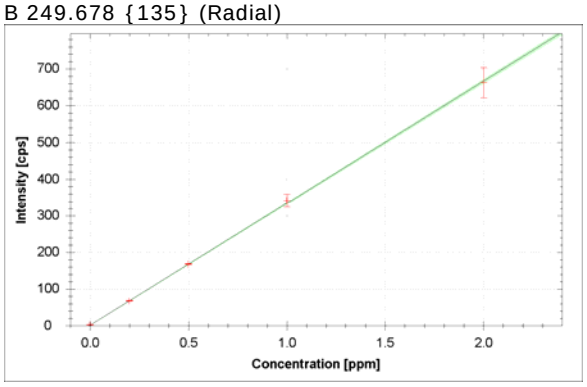
Al 308.215 {109} (Radial)



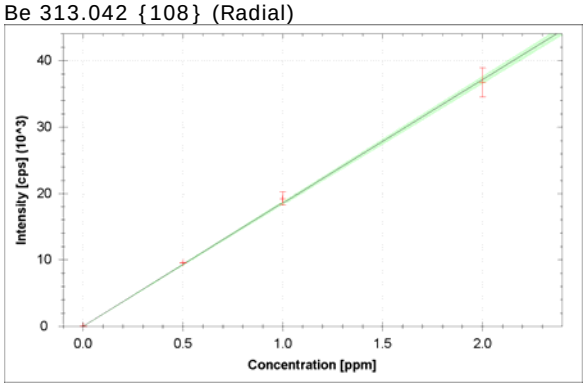
f(x) = 45.6553*x + 5.2036
R^2 = 1.0000
BEC = 0.114 ppm
LoD = 0.1235 ppm

B 249.678 {135} (Radial)



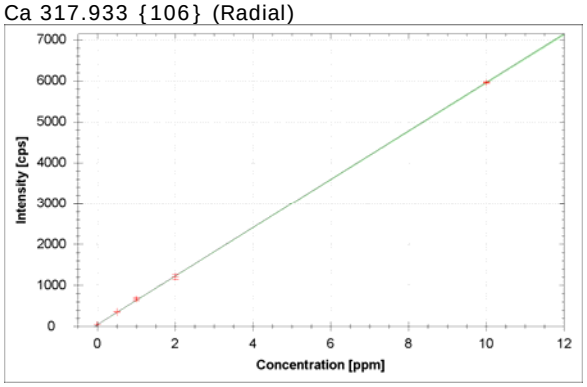
f(x) = 332.5942*x + 1.5138
R^2 = 0.9997
BEC = 0.005 ppm
LoD = 0.0190 ppm

Be 313.042 {108} (Radial)



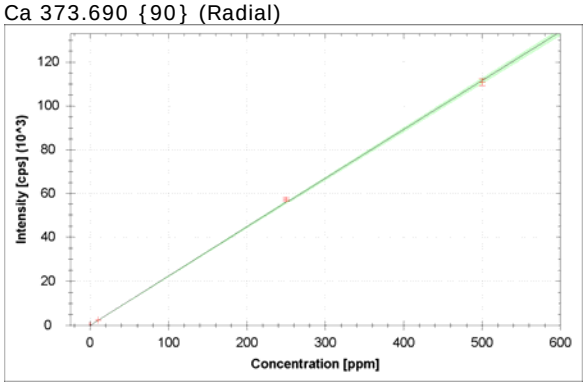
f(x) = 18544.9982*x + 0.0595
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0004 ppm

Ca 317.933 {106} (Radial)



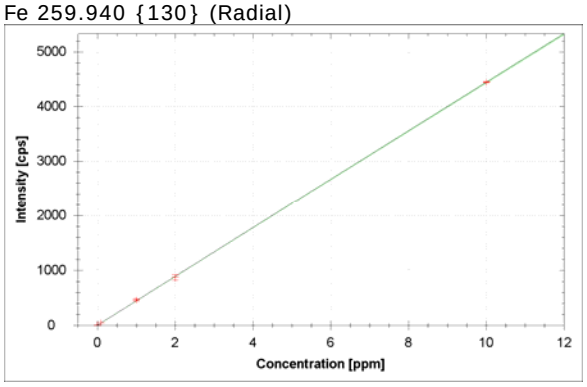
f(x) = 591.4031*x + 43.6922
R^2 = 0.9999
BEC = 0.074 ppm
LoD = 0.0081 ppm

Ca 373.690 {90} (Radial)



f(x) = 222.9473*x + 10.2463
R^2 = 0.9997
BEC = 0.046 ppm
LoD = 0.0068 ppm

Fe 259.940 {130} (Radial)



f(x) = 444.0472*x + 2.1321
R^2 = 0.9999
BEC = 0.005 ppm
LoD = 0.0042 ppm

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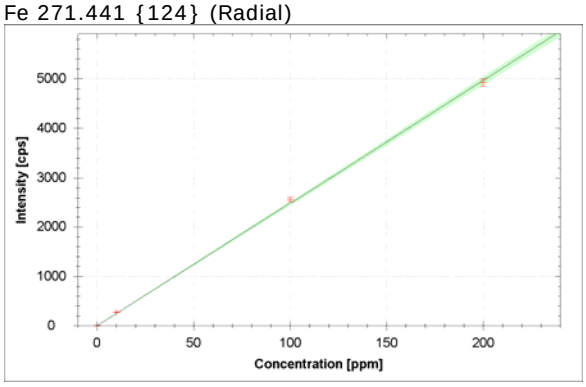
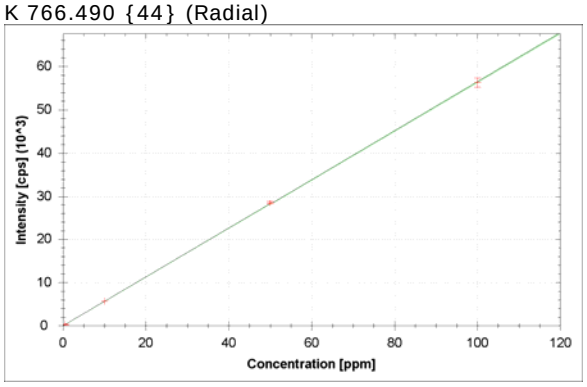
Fe 271.441 {124} (Radial)



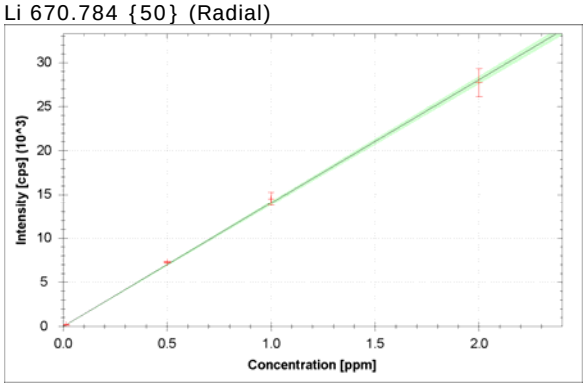
f(x) = 24.8134*x + 1.0716
R^2 = 0.9994
BEC = 0.043 ppm
LoD = 0.1136 ppm

K 766.490 {44} (Radial)



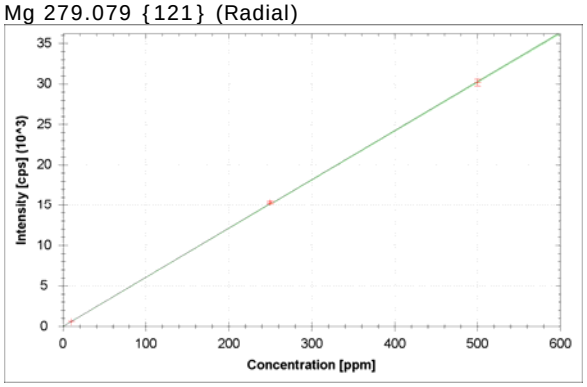
f(x) = 564.2798*x + -0.1806
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0166 ppm

Li 670.784 {50} (Radial)



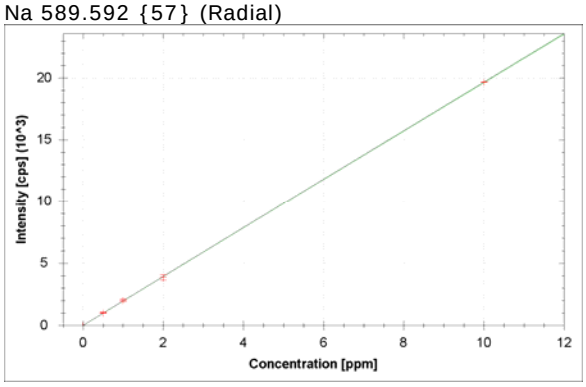
f(x) = 14038.3092*x + -25.5482
R^2 = 0.9992
BEC = -0.002 ppm
LoD = 0.0005 ppm

Mg 279.079 {121} (Radial)



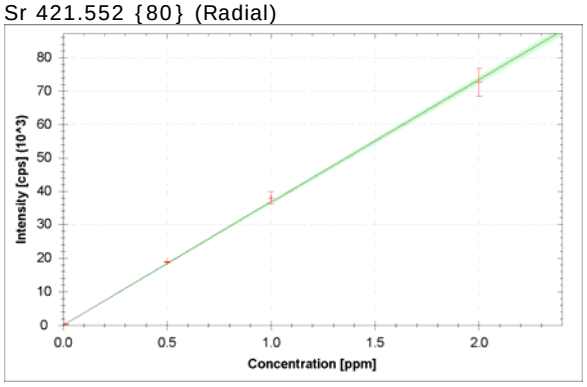
f(x) = 60.5342*x + -0.3815
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0844 ppm

Na 589.592 {57} (Radial)



f(x) = 1964.2955*x + 0.2116
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0080 ppm

Sr 421.552 {80} (Radial)



f(x) = 36700.6312*x + -0.8400
R^2 = 0.9993
BEC = 0.000 ppm
LoD = 0.0004 ppm

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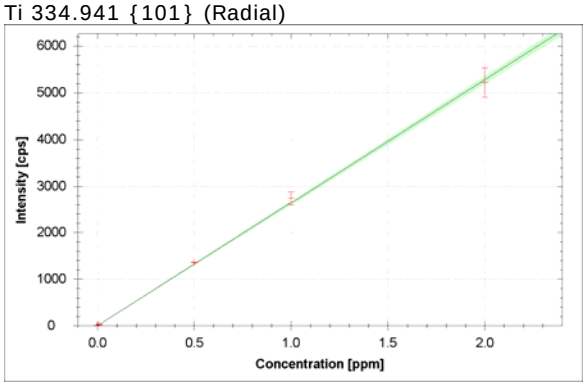
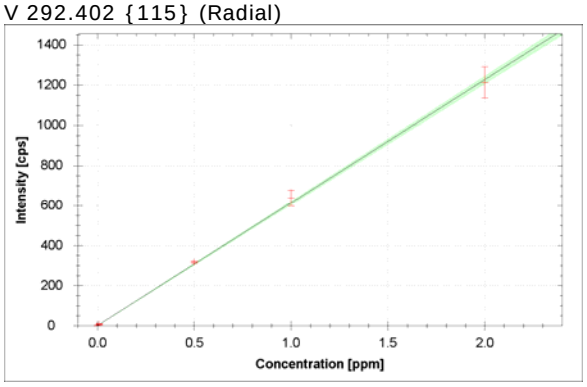
Ti 334.941 {101} (Radial)



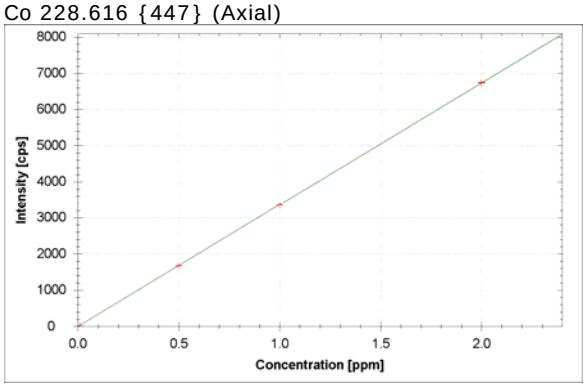
f(x) = 2639.2094*x + 0.5589
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0034 ppm

V 292.402 {115} (Radial)



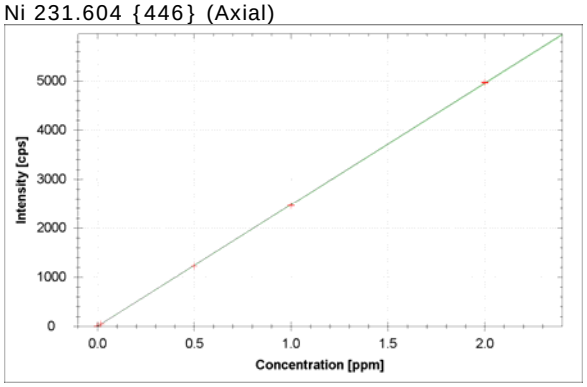
f(x) = 613.0460*x + 0.5994
R^2 = 0.9992
BEC = 0.001 ppm
LoD = 0.0017 ppm

Co 228.616 {447} (Axial)



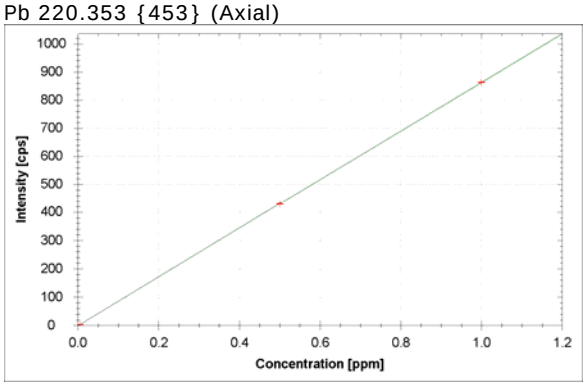
f(x) = 3365.7313*x + -0.5411
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



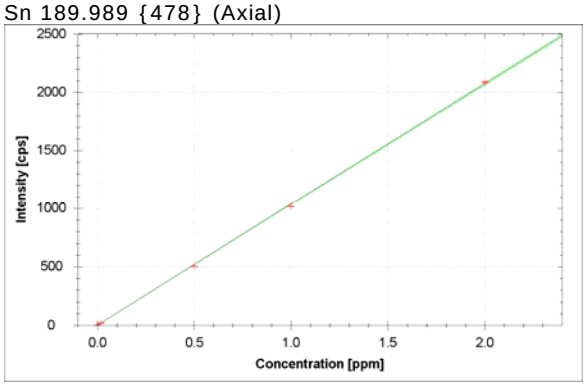
f(x) = 2476.6519*x + 1.1959
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0008 ppm

Pb 220.353 {453} (Axial)



f(x) = 863.7984*x + -1.2819
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0023 ppm

Sn 189.989 {478} (Axial)



f(x) = 1035.1981*x + 1.5529
R^2 = 0.9997
BEC = 0.002 ppm
LoD = 0.0002 ppm

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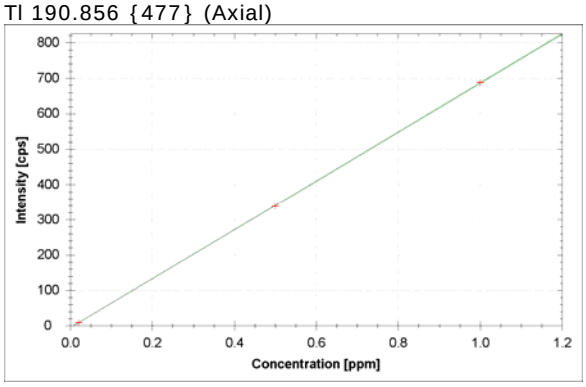
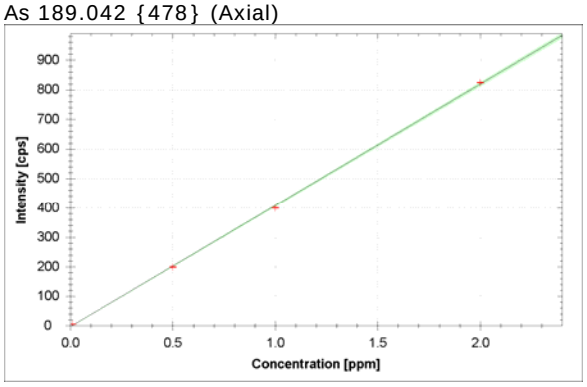
Tl 190.856 {477} (Axial)



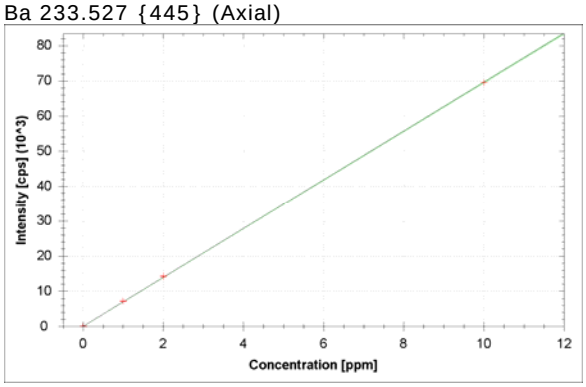
f(x) = 691.6479*x + -5.1000
R^2 = 1.0000
BEC = -0.007 ppm
LoD = 0.0029 ppm

As 189.042 {478} (Axial)



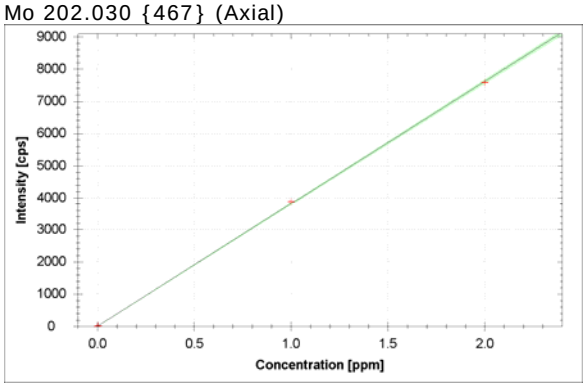
f(x) = 411.1440*x + -2.9751
R^2 = 0.9997
BEC = -0.007 ppm
LoD = 0.0050 ppm

Ba 233.527 {445} (Axial)



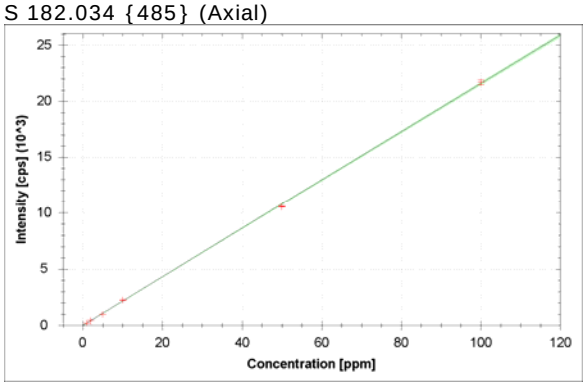
f(x) = 6958.3659*x + 1.3261
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0000 ppm

Mo 202.030 {467} (Axial)



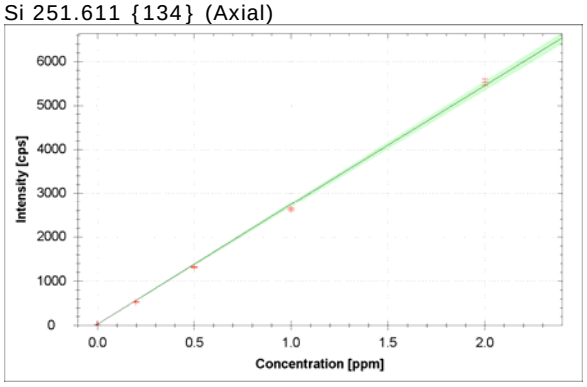
f(x) = 3807.1791*x + 2.5497
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



f(x) = 215.7884*x + 2.2344
R^2 = 0.9998
BEC = 0.010 ppm
LoD = 0.0046 ppm

Si 251.611 {134} (Axial)



f(x) = 2713.7573*x + 24.3692
R^2 = 0.9987
BEC = 0.009 ppm
LoD = 0.0028 ppm

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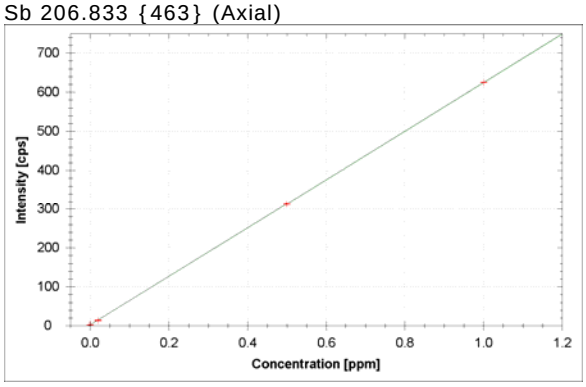
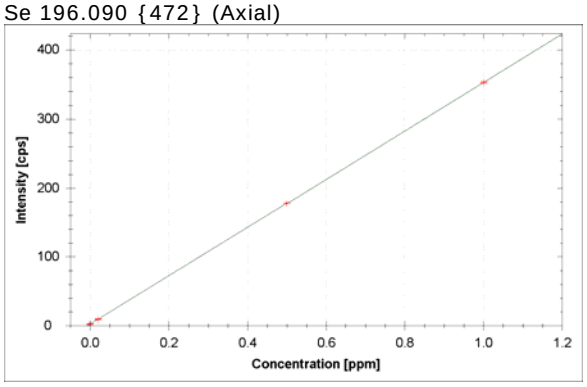
Sb 206.833 {463} (Axial)



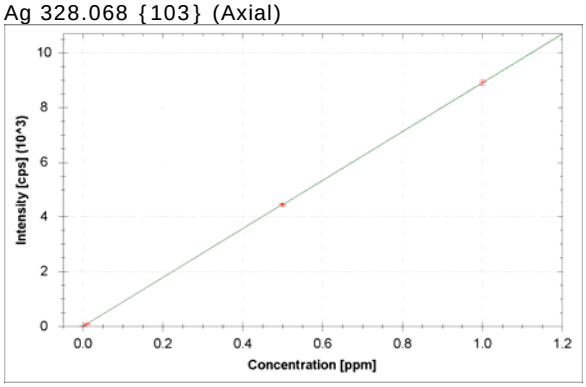
f(x) = 622.1611*x + 2.3794
R^2 = 1.0000
BEC = 0.004 ppm
LoD = 0.0013 ppm

Se 196.090 {472} (Axial)



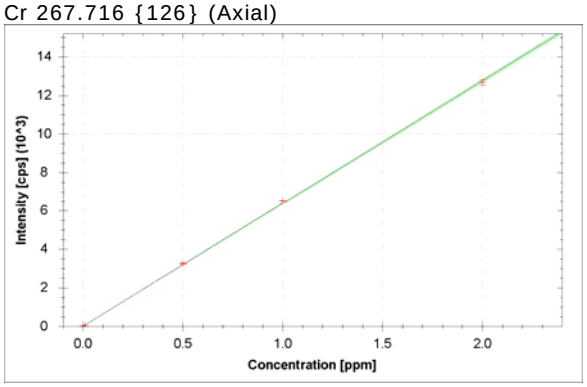
f(x) = 350.2958*x + 2.4410
R^2 = 1.0000
BEC = 0.007 ppm
LoD = 0.0057 ppm

Ag 328.068 {103} (Axial)



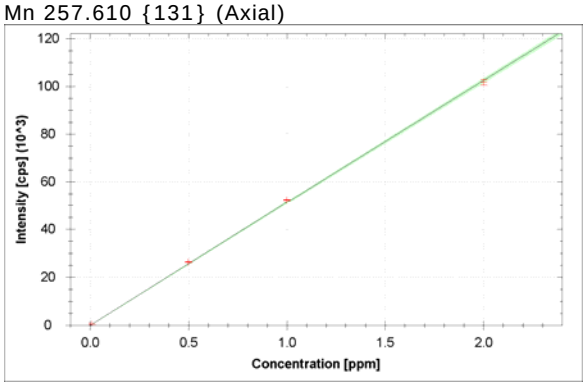
f(x) = 8901.4184*x + 1.4618
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0016 ppm

Cr 267.716 {126} (Axial)



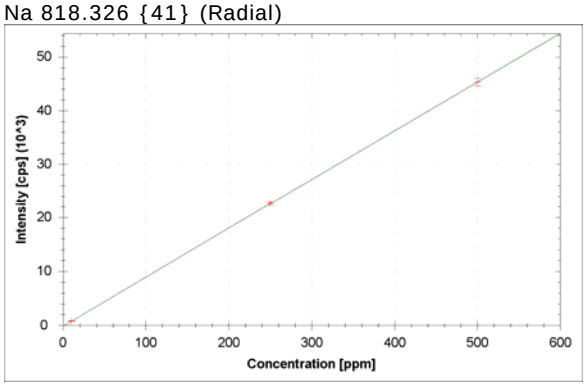
f(x) = 6375.4496*x + 6.7537
R^2 = 0.9997
BEC = 0.001 ppm
LoD = 0.0004 ppm

Mn 257.610 {131} (Axial)



f(x) = 51243.7464*x + 4.4782
R^2 = 0.9997
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



f(x) = 90.9871*x + -160.4317
R^2 = 1.0000
BEC = -1.763 ppm
LoD = 0.1816 ppm

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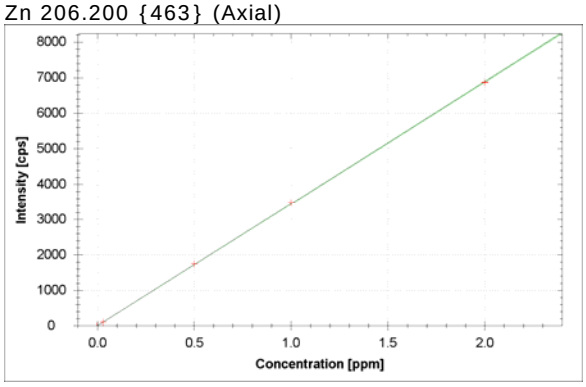
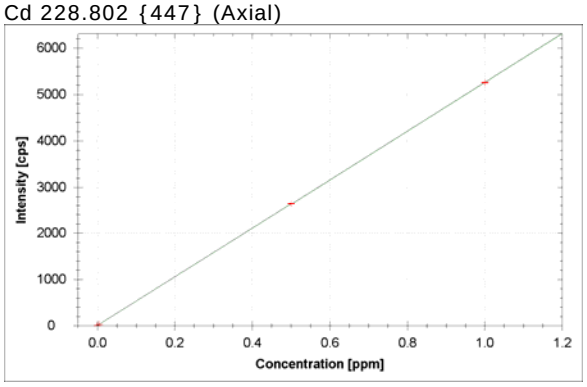
Zn 206.200 {463} (Axial)



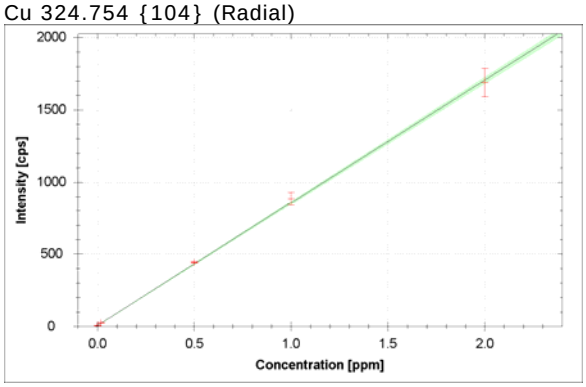
f(x) = 3441.5742*x + 0.4423
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Cd 228.802 {447} (Axial)



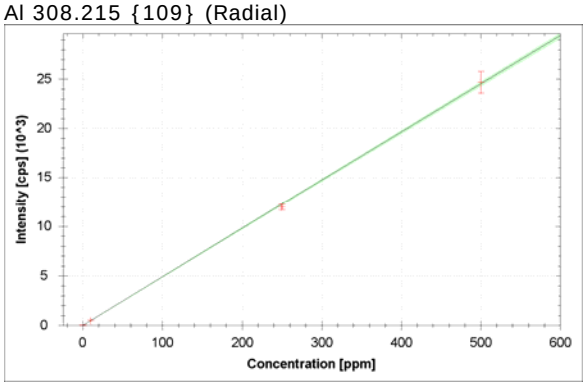
f(x) = 5254.8019*x + 5.4303
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0005 ppm

Cu 324.754 {104} (Radial)



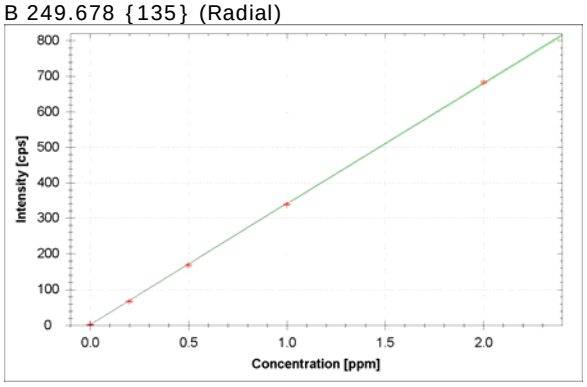
f(x) = 849.8051*x + 5.8329
R^2 = 0.9994
BEC = 0.007 ppm
LoD = 0.0018 ppm

Al 308.215 {109} (Radial)



f(x) = 49.0558*x + 5.3544
R^2 = 0.9997
BEC = 0.109 ppm
LoD = 0.0851 ppm

B 249.678 {135} (Radial)



f(x) = 339.1171*x + 1.8469
R^2 = 0.9999
BEC = 0.005 ppm
LoD = 0.0098 ppm

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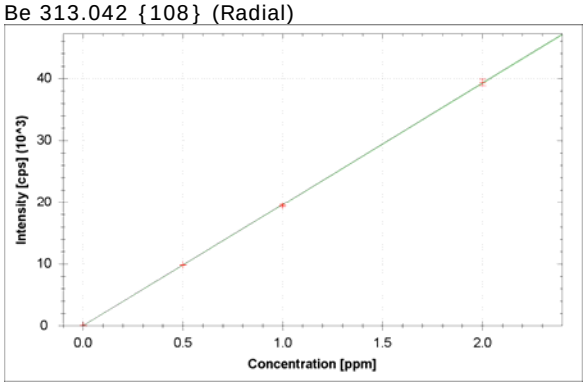
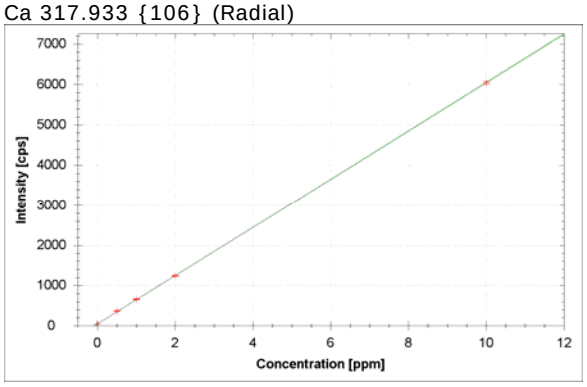
Be 313.042 {108} (Radial)



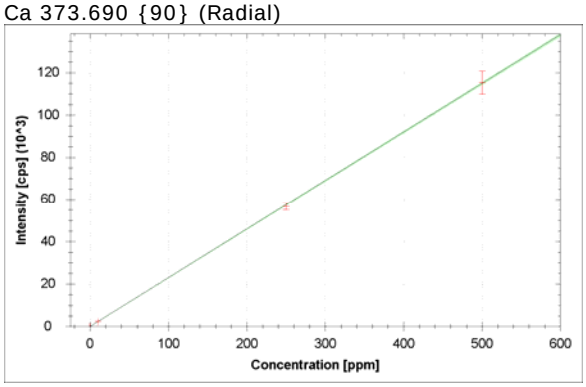
f(x) = 19620.4673*x + 0.1718
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ca 317.933 {106} (Radial)



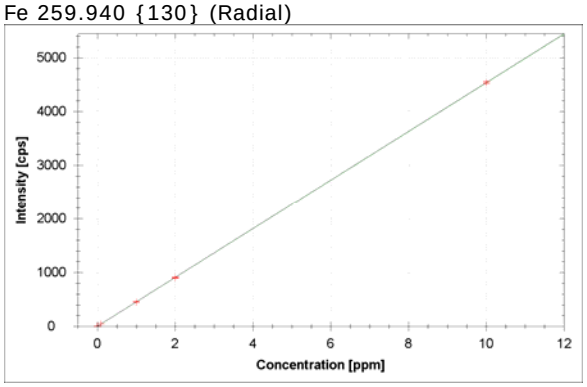
f(x) = 600.4260*x + 45.6614
R^2 = 1.0000
BEC = 0.076 ppm
LoD = 0.0107 ppm

Ca 373.690 {90} (Radial)



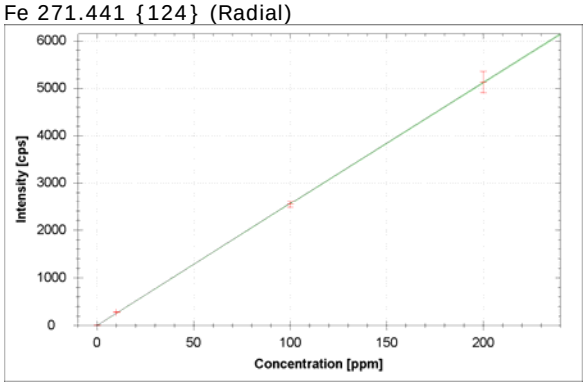
f(x) = 229.8651*x + 9.2707
R^2 = 0.9999
BEC = 0.040 ppm
LoD = 0.0248 ppm

Fe 259.940 {130} (Radial)



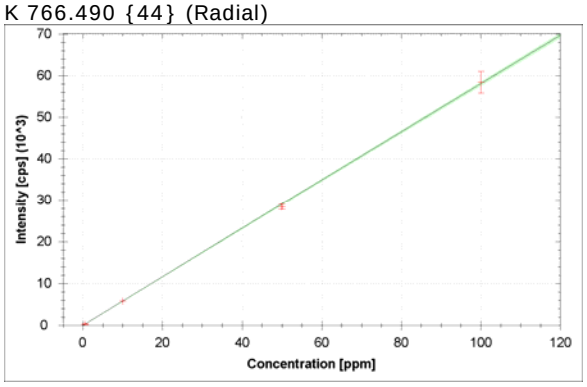
f(x) = 453.3613*x + 2.2181
R^2 = 1.0000
BEC = 0.005 ppm
LoD = 0.0050 ppm

Fe 271.441 {124} (Radial)



f(x) = 25.5832*x + 0.9639
R^2 = 1.0000
BEC = 0.038 ppm
LoD = 0.1414 ppm

K 766.490 {44} (Radial)



f(x) = 580.7886*x + 6.0341
R^2 = 0.9998
BEC = 0.010 ppm
LoD = 0.0209 ppm

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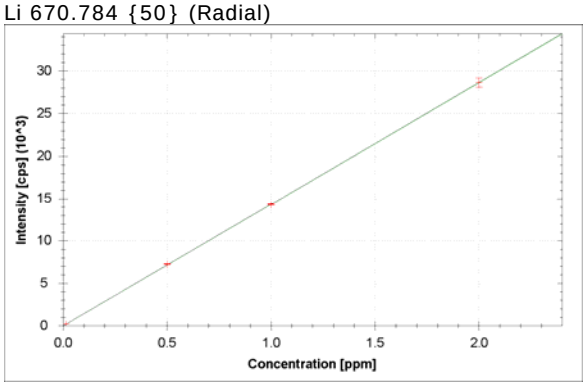
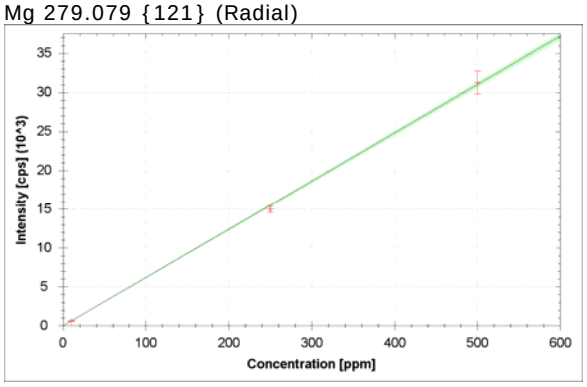
Li 670.784 {50} (Radial)



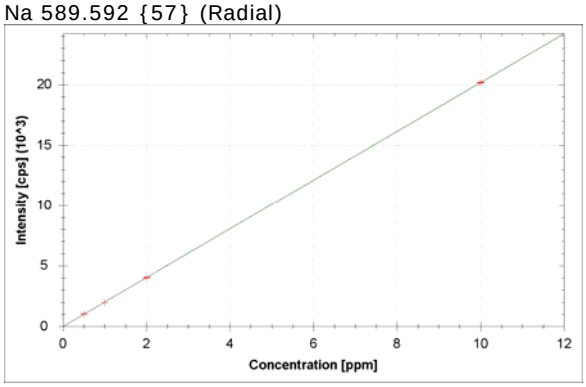
f(x) = 14334.8622*x + -23.5871
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0010 ppm

Mg 279.079 {121} (Radial)



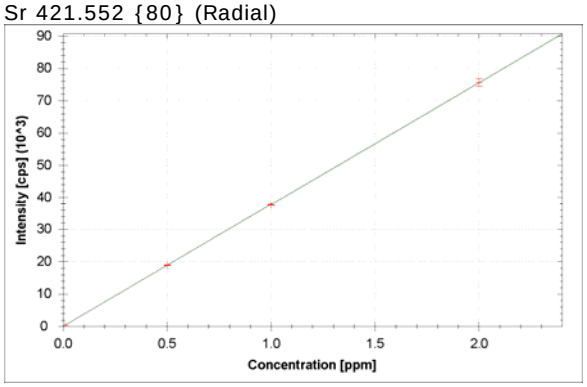
f(x) = 62.0194*x + -0.2474
R^2 = 0.9996
BEC = -0.004 ppm
LoD = 0.0527 ppm

Na 589.592 {57} (Radial)



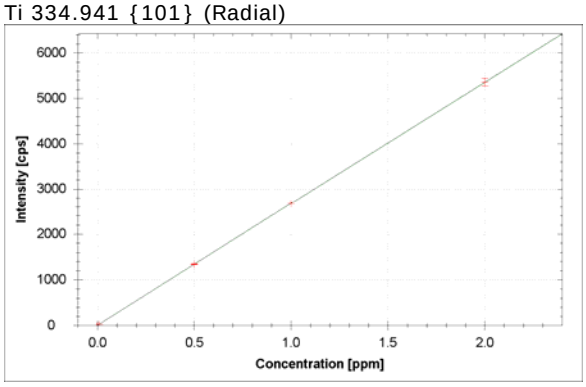
f(x) = 2017.8513*x + -5.8834
R^2 = 1.0000
BEC = -0.003 ppm
LoD = 0.0085 ppm

Sr 421.552 {80} (Radial)



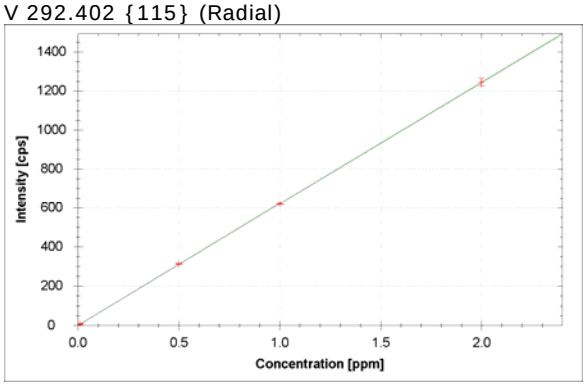
f(x) = 37780.5342*x + -1.5816
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Ti 334.941 {101} (Radial)



f(x) = 2676.2008*x + 0.6227
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0013 ppm

V 292.402 {115} (Radial)



f(x) = 621.7751*x + -0.3384
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0049 ppm

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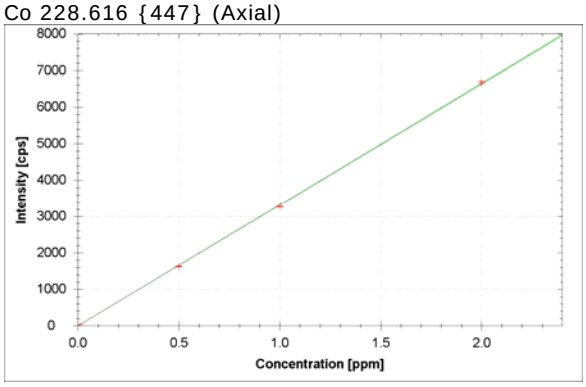
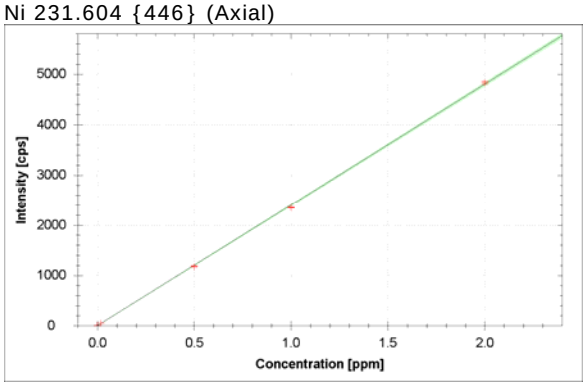
Co 228.616 {447} (Axial)



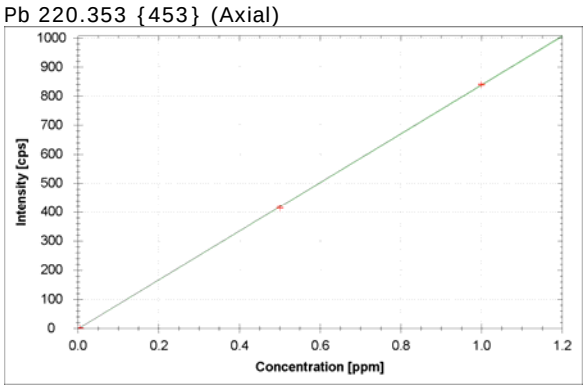
f(x) = 3320.3178*x + -2.2884
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



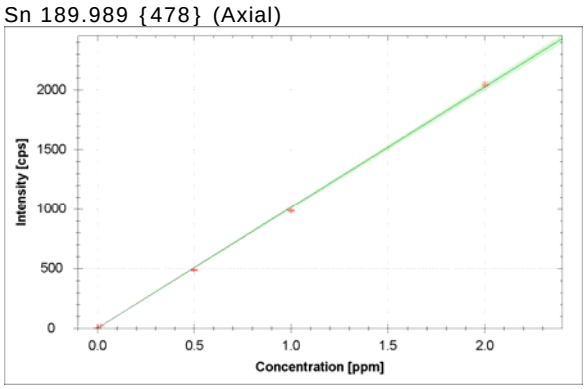
f(x) = 2400.9974*x + 1.8687
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0003 ppm

Pb 220.353 {453} (Axial)



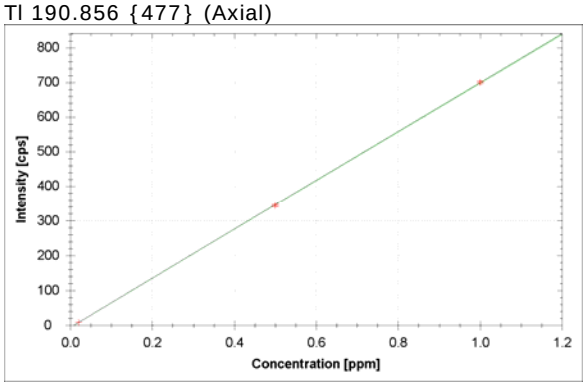
f(x) = 840.1935*x + -1.6853
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0006 ppm

Sn 189.989 {478} (Axial)



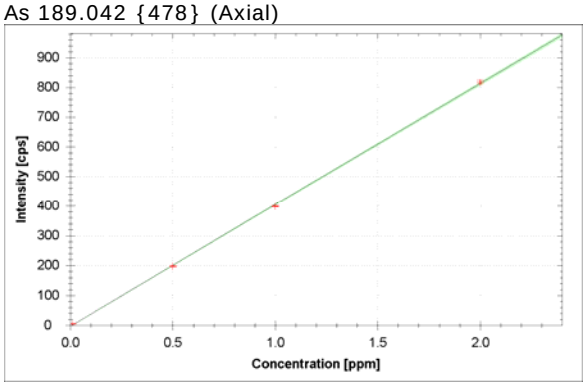
f(x) = 1011.4110*x + 1.8030
R^2 = 0.9994
BEC = 0.002 ppm
LoD = 0.0011 ppm

Tl 190.856 {477} (Axial)



f(x) = 704.4654*x + -5.4289
R^2 = 1.0000
BEC = -0.008 ppm
LoD = 0.0025 ppm

As 189.042 {478} (Axial)



f(x) = 408.0301*x + -2.8341
R^2 = 0.9998
BEC = -0.007 ppm
LoD = 0.0021 ppm

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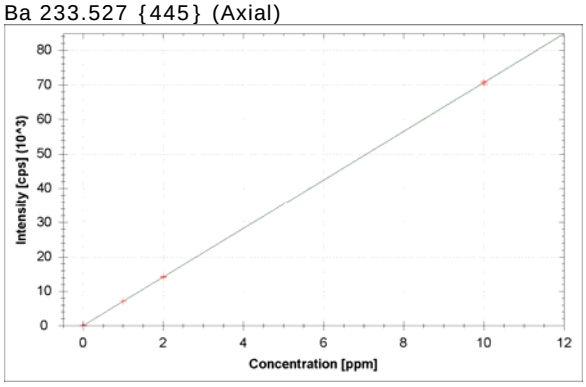
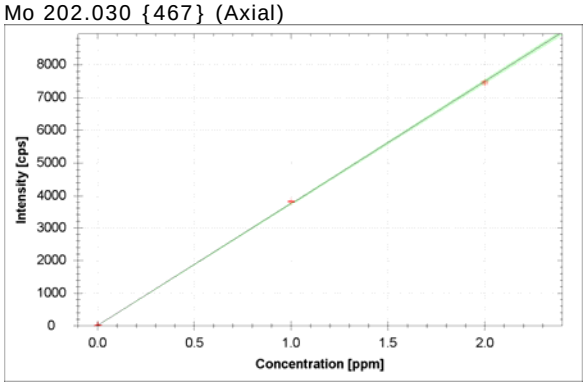
Ba 233.527 {445} (Axial)



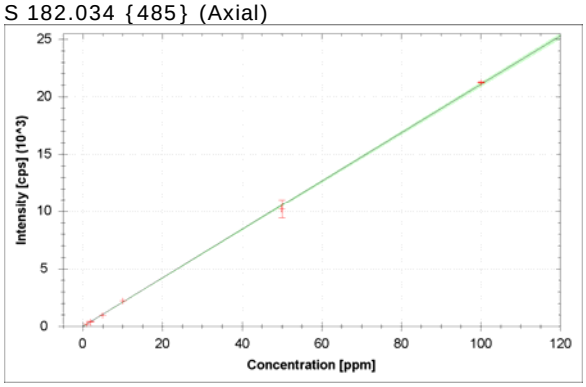
f(x) = 7064.4609*x + 1.3693
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0003 ppm

Mo 202.030 {467} (Axial)



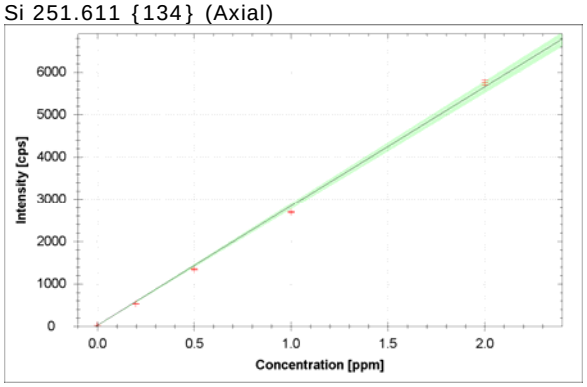
f(x) = 3743.5635*x + 2.5638
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



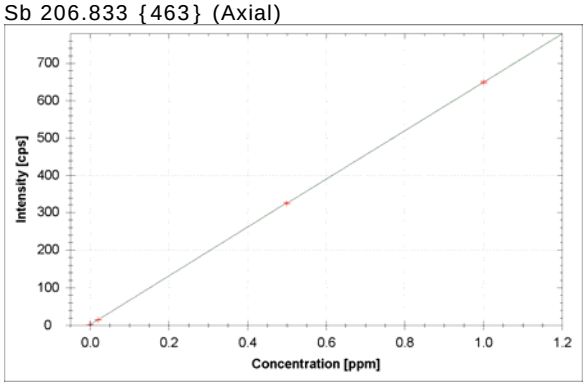
f(x) = 210.6466*x + 1.0158
R^2 = 0.9996
BEC = 0.005 ppm
LoD = 0.0093 ppm

Si 251.611 {134} (Axial)



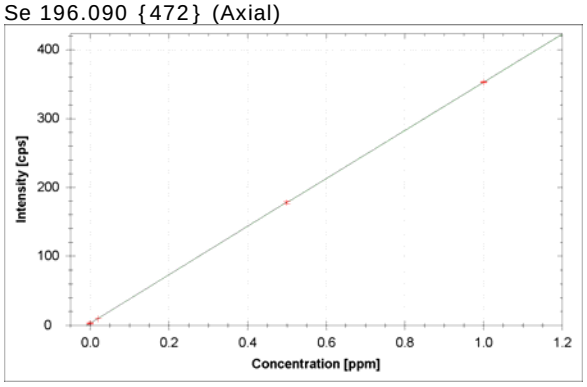
f(x) = 2815.8674*x + 24.1896
R^2 = 0.9980
BEC = 0.009 ppm
LoD = 0.0024 ppm

Sb 206.833 {463} (Axial)



f(x) = 647.3210*x + 1.7706
R^2 = 1.0000
BEC = 0.003 ppm
LoD = 0.0021 ppm

Se 196.090 {472} (Axial)



f(x) = 349.5835*x + 2.9926
R^2 = 1.0000
BEC = 0.009 ppm
LoD = 0.0078 ppm

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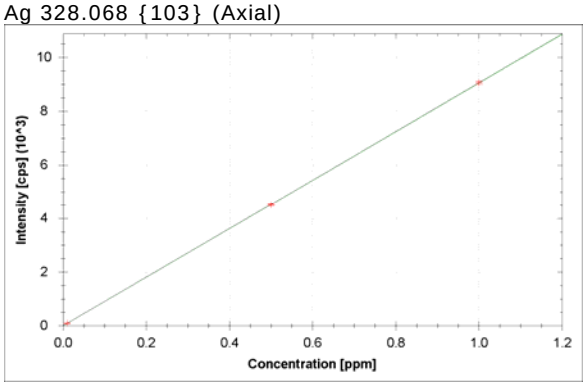
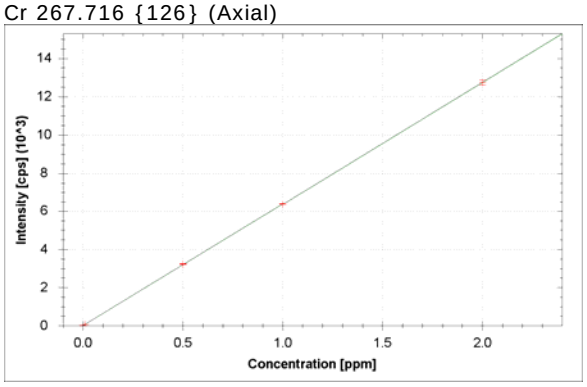
Ag 328.068 {103} (Axial)



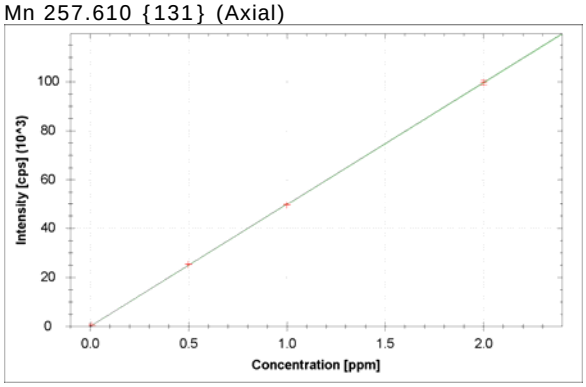
f(x) = 9056.1585*x + -0.4222
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

Cr 267.716 {126} (Axial)



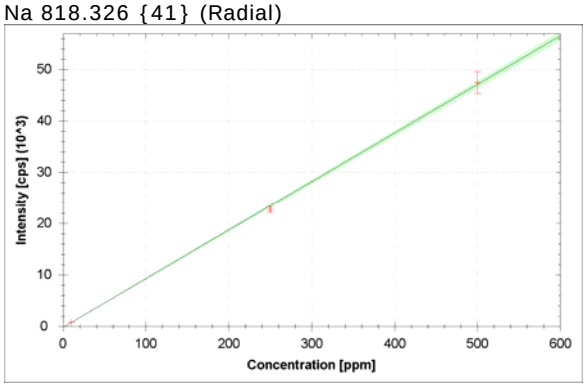
f(x) = 6364.5847*x + 8.6327
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0010 ppm

Mn 257.610 {131} (Axial)



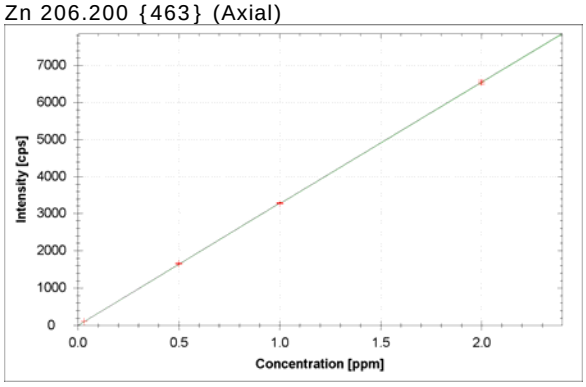
f(x) = 49795.6341*x + 8.7736
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



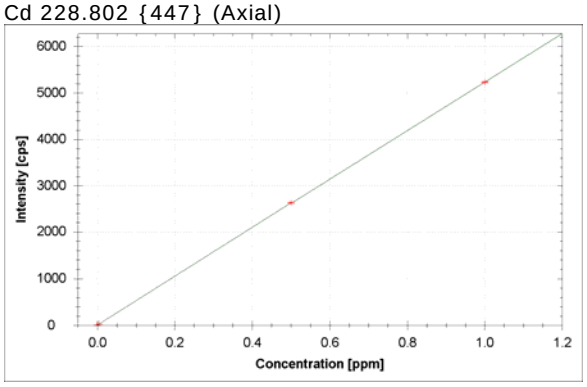
f(x) = 94.5413*x + -185.5401
R^2 = 0.9995
BEC = -1.963 ppm
LoD = 0.0245 ppm

Zn 206.200 {463} (Axial)



f(x) = 3272.6092*x + -0.4020
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Cd 228.802 {447} (Axial)



f(x) = 5226.2322*x + 6.0813
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0002 ppm

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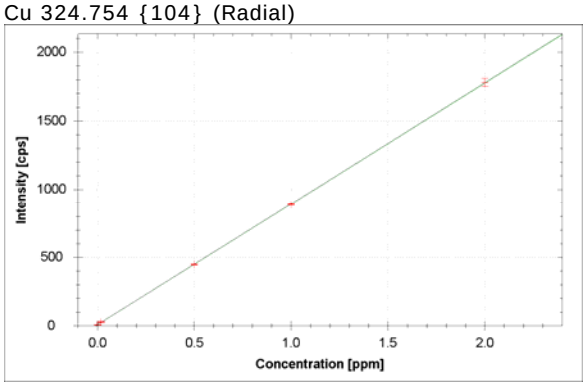
Cu 324.754 {104} (Radial)



f(x) = 884.5400*x + 7.0574
R^2 = 1.0000
BEC = 0.008 ppm
LoD = 0.0042 ppm

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QTEGRA

Standard readbacks

	STD1 14G16199 Concentration average	STD1 14G16199 Standard Concentration
Al 308.215 {109} (Radial)	0.103 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.199 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.516 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.106 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.513 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.015 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.112 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.510 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.010 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.010 ppm	0.010 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.010 ppm
Ni 231.604 {446} (Axial)	0.019 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.021 ppm	0.010 ppm
Ba 233.527 {445} (Axial)	0.005 ppm	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm	0.005 ppm
S 182.034 {485} (Axial)	4.630 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.185 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.018 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.020 ppm	0.020 ppm
Ag 328.068 {103} (Axial)	0.010 ppm	0.010 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.010 ppm
Mn 257.610 {131} (Axial)	0.011 ppm	0.010 ppm
Y 360.073 {94} (Radial)	100.169 %	
Y 224.306 {450} (Axial)	100.166 %	
In 230.606 {446} (Axial)	99.711 %	
Y 360.073 {94} (Axial)	99.974 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.031 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.022 ppm	0.020 ppm

	STD7 14J27631 Concentration average	STD7 14J27631 Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.500 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.515 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.539 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	0.519 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.521 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.514 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.514 ppm	0.500 ppm

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	STD7 14J27631	STD7 14J27631
V 292.402 {115} (Radial)	0.515 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.496 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.494 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.498 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.484 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.496 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.491 ppm	0.500 ppm
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.476 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.500 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.501 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.498 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.511 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.514 ppm	0.500 ppm
Y 360.073 {94} (Radial)	99.368 %	
Y 224.306 {450} (Axial)	99.979 %	
In 230.606 {446} (Axial)	98.059 %	
Y 360.073 {94} (Axial)	99.152 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.508 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.501 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.513 ppm	0.500 ppm

	STD2 14J08649	STD2 14J08649
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	1.024 ppm	1.000 ppm
Be 313.042 {108} (Radial)	1.038 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.051 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.039 ppm	1.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	1.036 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.020 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	1.035 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	1.039 ppm	1.000 ppm
V 292.402 {115} (Radial)	1.039 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.995 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.992 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.001 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.980 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.002 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.980 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.033 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.020 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.928 ppm	1.000 ppm
Si 251.611 {134} (Axial)	0.958 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.000 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.000 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.001 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	1.023 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Mn 257.610 {131} (Axial)	1.022 ppm	1.000 ppm
Y 360.073 {94} (Radial)	98.384 %	
Y 224.306 {450} (Axial)	99.507 %	
In 230.606 {446} (Axial)	96.523 %	
Y 360.073 {94} (Axial)	98.519 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.009 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	0.999 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	1.033 ppm	1.000 ppm

	STD3 14J06521	STD3 14J06521
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	1.988 ppm	2.000 ppm
Be 313.042 {108} (Radial)	1.978 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.960 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.955 ppm	2.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	1.977 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.965 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	1.979 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	1.977 ppm	2.000 ppm
V 292.402 {115} (Radial)	1.977 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.003 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.005 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.014 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.012 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.047 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.990 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.978 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.028 ppm	2.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	1.986 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	1.985 ppm	2.000 ppm
Y 360.073 {94} (Radial)	104.798 %	
Y 224.306 {450} (Axial)	100.816 %	
In 230.606 {446} (Axial)	96.837 %	
Y 360.073 {94} (Axial)	100.427 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.994 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	1.980 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.888 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	

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	STD4 14J27630	STD4 14J27630
Ca 317.933 {106} (Radial)	10.000 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.553 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.005 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	11.029 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.092 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	10.012 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.003 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	9.987 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.403 ppm	10.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	104.166 %	
Y 224.306 {450} (Axial)	100.371 %	
In 230.606 {446} (Axial)	95.464 %	
Y 360.073 {94} (Axial)	99.574 %	
Na 818.326 {41} (Radial)	10.653 ppm	10.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	250.942 ppm	250.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	256.456 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	103.311 ppm	100.000 ppm
K 766.490 {44} (Radial)	50.573 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	253.160 ppm	250.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	

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	STD5 14J08650	STD5 14J08650
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	48.907 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.761 %	
Y 224.306 {450} (Axial)	89.103 %	
In 230.606 {446} (Axial)	72.087 %	
Y 360.073 {94} (Axial)	85.815 %	
Na 818.326 {41} (Radial)	250.710 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD6 14I24985	STD6 14I24985
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	499.531 ppm	500.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	496.761 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	198.293 ppm	200.000 ppm
K 766.490 {44} (Radial)	99.704 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	498.420 ppm	500.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	100.526 ppm	100.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.346 %	
Y 224.306 {450} (Axial)	84.554 %	
In 230.606 {446} (Axial)	64.558 %	
Y 360.073 {94} (Axial)	83.070 %	

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	STD6 14I24985	STD6 14I24985
Na 818.326 {41} (Radial)	499.632 ppm	500.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD1 14G16199	STD1 14G16199
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.079 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.192 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.513 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.105 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.493 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.016 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.087 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.511 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.009 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.011 ppm	0.010 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.010 ppm
Ni 231.604 {446} (Axial)	0.020 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.004 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.019 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.019 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.020 ppm	0.010 ppm
Ba 233.527 {445} (Axial)	0.005 ppm	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm	0.005 ppm
S 182.034 {485} (Axial)	4.519 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.182 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.020 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.019 ppm	0.020 ppm
Ag 328.068 {103} (Axial)	0.010 ppm	0.010 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.010 ppm
Mn 257.610 {131} (Axial)	0.011 ppm	0.010 ppm
Y 360.073 {94} (Radial)	100.941 %	
Y 224.306 {450} (Axial)	100.059 %	
In 230.606 {446} (Axial)	99.260 %	
Y 360.073 {94} (Axial)	99.962 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.034 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.022 ppm	0.020 ppm

	STD7 14J27631	STD7 14J27631
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.490 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.500 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.553 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	

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	STD7 14J27631	STD7 14J27631
Li 670.784 {50} (Radial)	0.507 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.514 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.502 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.501 ppm	0.500 ppm
V 292.402 {115} (Radial)	0.503 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.491 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.489 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.497 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.479 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.496 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.490 ppm	0.500 ppm
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.468 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.500 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.500 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.498 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.505 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.508 ppm	0.500 ppm
Y 360.073 {94} (Radial)	101.592 %	
Y 224.306 {450} (Axial)	101.685 %	
In 230.606 {446} (Axial)	99.654 %	
Y 360.073 {94} (Axial)	100.911 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.506 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.501 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.497 ppm	0.500 ppm

	STD2 14J08649	STD2 14J08649
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.989 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.991 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.015 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.994 ppm	1.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	0.998 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.986 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.996 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.998 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.994 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.985 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.980 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.002 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.971 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.002 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.984 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.009 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.020 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.911 ppm	1.000 ppm

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	STD2 14J08649	STD2 14J08649
Si 251.611 {134} (Axial)	0.948 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.000 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.000 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.001 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.999 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	0.995 ppm	1.000 ppm
Y 360.073 {94} (Radial)	101.296 %	
Y 224.306 {450} (Axial)	101.140 %	
In 230.606 {446} (Axial)	97.921 %	
Y 360.073 {94} (Axial)	100.667 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.997 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.000 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.995 ppm	1.000 ppm

	STD3 14J06521	STD3 14J06521
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	2.009 ppm	2.000 ppm
Be 313.042 {108} (Radial)	2.005 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	1.992 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.983 ppm	2.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	1.999 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.994 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	2.001 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	2.001 ppm	2.000 ppm
V 292.402 {115} (Radial)	2.002 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.010 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.013 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.020 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.010 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.001 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.990 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.935 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.036 ppm	2.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	1.999 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	2.000 ppm	2.000 ppm
Y 360.073 {94} (Radial)	102.878 %	
Y 224.306 {450} (Axial)	102.739 %	
In 230.606 {446} (Axial)	97.447 %	
Y 360.073 {94} (Axial)	99.459 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	2.000 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	2.003 ppm	2.000 ppm

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	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.857 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	9.997 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.375 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	10.004 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	10.697 ppm	10.000 ppm
K 766.490 {44} (Radial)	10.024 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	9.745 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.001 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	9.999 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.469 ppm	10.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	103.567 %	
Y 224.306 {450} (Axial)	99.581 %	
In 230.606 {446} (Axial)	93.138 %	
Y 360.073 {94} (Axial)	98.113 %	
Na 818.326 {41} (Radial)	10.635 ppm	10.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	243.547 ppm	250.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	246.616 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	99.313 ppm	100.000 ppm
K 766.490 {44} (Radial)	48.863 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	241.907 ppm	250.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	

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	STD5 14J08650	STD5 14J08650
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	48.447 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	96.658 %	
Y 224.306 {450} (Axial)	89.414 %	
In 230.606 {446} (Axial)	71.185 %	
Y 360.073 {94} (Axial)	85.263 %	
Na 818.326 {41} (Radial)	242.117 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD6 14I24985	STD6 14I24985
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	503.230 ppm	500.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	501.684 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	200.308 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.566 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	504.052 ppm	500.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	100.756 ppm	100.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	

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	STD6 14I24985	STD6 14I24985
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	92.130 %	
Y 224.306 {450} (Axial)	84.288 %	
In 230.606 {446} (Axial)	63.660 %	
Y 360.073 {94} (Axial)	80.425 %	
Na 818.326 {41} (Radial)	503.929 ppm	500.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

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QTEGRA

Sample list

Label	Sample Type	Repeats	Rack	Vial
CALBLK	BLK	3	1	1
STD1 14G16199	STD	3	1	2
STD7 14J27631	STD	3	1	3
STD2 14J08649	STD	3	1	4
STD3 14J06521	STD	3	1	5
STD4 14J27630	STD	3	1	6
STD5 14J08650	STD	3	1	7
STD6 14I24985	STD	3	1	8
ICV 14I23903	QC	3	1	9
ICV 14I23903	QC	3	1	9
ICB	QC	3	1	10
ICVLL 14G16199	QC	3	1	11
ICSA 14J10823	QC	3	1	12
ICSAB 14J10824	QC	3	1	13
carryover	UNKNOWN	3	0	1
BLANK WG750667	UNKNOWN	3	1	25
LCS WG750667	UNKNOWN	3	1	26
LCSD WG750667	UNKNOWN	3	1	27
L729564-05 WG750667	UNKNOWN	3	1	28
SD L729564-05 WG750667	UNKNOWN	3	1	29
PS L729564-05 WG750667	UNKNOWN	3	1	30
MS L729564-05 WG750667	UNKNOWN	3	1	31
MSD L729564-05 WG750667	UNKNOWN	3	1	32
L729563-01 WG750667	UNKNOWN	3	1	33
L729563-02 WG750667	UNKNOWN	3	1	34
CCV 14J27642	QC	3	1	35
CCB	QC	3	1	36
L729563-04 WG750667	UNKNOWN	3	1	37
L729563-05 WG750667	UNKNOWN	3	1	38
L729563-06 WG750667	UNKNOWN	3	1	39
L729564-01 WG750667	UNKNOWN	3	1	40
L729564-02 WG750667	UNKNOWN	3	1	41
L729564-04 WG750667	UNKNOWN	3	1	42
CCV 14J27642	QC	3	1	43
CCB	QC	3	1	44
CCVLL 14G16199	QC	3	1	45
BLANK WG751923	UNKNOWN	3	1	49
LCS WG751923	UNKNOWN	3	1	50
LCSD WG751923	UNKNOWN	3	1	51
L729568-02 WG751923	UNKNOWN	3	1	52
SD L729568-02 WG751923	UNKNOWN	3	1	53
PS L729568-02 WG751923	UNKNOWN	3	1	54
MS L729568-02 WG751923	UNKNOWN	3	1	55
MSD L729568-02 WG751923	UNKNOWN	3	1	56
L729568-01 WG751923	UNKNOWN	3	1	57
L729568-04 WG751923	UNKNOWN	3	1	58
L729568-05 WG751923	UNKNOWN	3	1	59
CCV 14J27642	QC	3	1	60
CCB	QC	3	2	1
CCVLL 14G16199	QC	3	2	2
BLANK WG752285	UNKNOWN	3	1	25
LCS WG752285	UNKNOWN	3	1	26
LCSD WG752285	UNKNOWN	3	1	27
L729802-01 WG752285	UNKNOWN	3	1	28

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Label	Sample Type	Repeats	Rack	Vial
SD L729802-01 WG752285	UNKNOWN	3	1	29
PS L729802-01 WG752285	UNKNOWN	3	1	30
MS L729802-01 WG752285	UNKNOWN	3	1	31
MSD L729802-01 WG752285	UNKNOWN	3	1	32
L729802-03 WG752285	UNKNOWN	3	1	33
L729802-04 WG752285	UNKNOWN	3	1	34
L729802-05 WG752285	UNKNOWN	3	1	35
CCV 14J27642	QC	3	1	36
CCB	QC	3	1	37
CCVLL 14G16199	QC	3	1	38
CCVLL 14G16199	QC	3	1	38
ICSA 14J27643	QC	3	1	39
ICSAB 14J27644	QC	3	1	40
carryover	UNKNOWN	3	0	1
BLANK WG752446	UNKNOWN	3	1	13
LCS WG752446	UNKNOWN	3	1	14
LCSD WG752446	UNKNOWN	3	1	15
L730702-01 WG752446	UNKNOWN	3	1	16
SD L730702-01 WG752446	UNKNOWN	3	1	17
PS L730702-01 WG752446	UNKNOWN	3	1	18
MS L730702-01 WG752446	UNKNOWN	3	1	19
MSD L730702-01 WG752446	UNKNOWN	3	1	20
L730703-01 WG752446	UNKNOWN	3	1	21
L730712-01 WG752446	UNKNOWN	3	1	22
CCV 14J27642	QC	3	1	23
CCB	QC	3	1	24
CALBLK	BLK	3	1	1
STD1 14G16199	STD	3	1	2
STD7 14J27631	STD	3	1	3
STD2 14J08649	STD	3	1	4
STD3 14J06521	STD	3	1	5
STD4 14J27630	STD	3	1	6
STD5 14J08650	STD	3	1	7
STD6 14I24985	STD	3	1	8
CCV 14J27642	QC	3	1	9
CCB	QC	3	1	10
CCV 14J27642	QC	3	1	9
CCB	QC	3	1	10
CCVLL 14J27641	QC	3	1	11
L730727-01 WG752446	UNKNOWN	3	1	25
L730727-02 WG752446	UNKNOWN	3	1	26
L730757-01 WG752446	UNKNOWN	3	1	27
L730859-01 WG752446	UNKNOWN	3	1	28
L730860-01 WG752446	UNKNOWN	3	1	29
L730865-01 WG752446	UNKNOWN	3	1	30
L730950-01 WG752446	UNKNOWN	3	1	31
BLANK WG752644	UNKNOWN	3	1	32
LCS WG752644	UNKNOWN	3	1	33
LCSD WG752644	UNKNOWN	3	1	34
CCV 14J27642	QC	3	1	35
CCB	QC	3	1	36
L731293-01 WG752644	UNKNOWN	3	1	37
SD L731293-01 WG752644	UNKNOWN	3	1	38
PS L731293-01 WG752644	UNKNOWN	3	1	39
MS L731293-01 WG752644	UNKNOWN	3	1	40

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Label	Sample Type	Repeats	Rack	Vial
MSD L731293-01 WG752644	UNKNOWN	3	1	41
L731235-01 WG752644	UNKNOWN	3	1	42
L731250-03 WG752644	UNKNOWN	3	1	43
L731250-04 WG752644	UNKNOWN	3	1	44
L731252-01 WG752644	UNKNOWN	3	1	45
L731255-01 WG752644	UNKNOWN	3	1	46
CCV 14J27642	QC	3	1	47
CCB	QC	3	1	48
L731255-03 WG752644	UNKNOWN	3	1	49
L731289-01 WG752644	UNKNOWN	3	1	50
L731291-01 WG752644	UNKNOWN	3	1	51
L731295-01 WG752644	UNKNOWN	3	1	52
CCV 14J27642	QC	3	1	53
CCB	QC	3	1	54
CCVLL 14G16199	QC	3	1	55
ICSA 14J27643	QC	3	1	56
ICSAB 14J27644	QC	3	1	57
L730727-01 WG752446	UNKNOWN	3	2	1
L730757-01 WG752446	UNKNOWN	3	2	2
CCV 14J27642	QC	3	2	3
CCB	QC	3	2	4
CCVLL 14G16199	QC	3	2	5
ICSA 14J27643	QC	3	2	6
ICSAB 14J27644	QC	3	2	7
LCS WG752644	UNKNOWN	3	2	1
LCSD WG752644	UNKNOWN	3	2	2
BLANK WG752773	UNKNOWN	3	2	3
LCS WG752773	UNKNOWN	3	2	4
LCSD WG752773	UNKNOWN	3	2	5
L730894-02 WG752773	UNKNOWN	3	2	6
SD L730894-02 WG752773	UNKNOWN	3	2	7
PS L730894-02 WG752773	UNKNOWN	3	2	8
MS L730894-02 WG752773	UNKNOWN	3	2	9
MSD L730894-02 WG752773	UNKNOWN	3	2	10
CCV 14J27642	QC	3	2	11
CCB	QC	3	2	12
L730895-02 WG752773	UNKNOWN	3	2	13
L731136-01 WG752773	UNKNOWN	3	2	14
L731137-01 WG752773	UNKNOWN	3	2	15
BLANK WG752445	UNKNOWN	3	2	16
LCS WG752445	UNKNOWN	3	2	17
LCSD WG752445	UNKNOWN	3	2	18
L731077-01 WG752445	UNKNOWN	3	2	19
SD L731077-01 WG752445	UNKNOWN	3	2	20
PS L731077-01 WG752445	UNKNOWN	3	2	21
MS L731077-01 WG752445	UNKNOWN	3	2	22
CCV 14J27642	QC	3	2	23
CCB	QC	3	2	24
MSD L731077-01 WG752445	UNKNOWN	3	2	25
L731055-01 WG752445	UNKNOWN	3	2	26
L731055-02 WG752445	UNKNOWN	3	2	27
L731055-03 WG752445	UNKNOWN	3	2	28
L731055-04 WG752445	UNKNOWN	3	2	29
L731055-05 WG752445	UNKNOWN	3	2	30
L731055-06 WG752445	UNKNOWN	3	2	31

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Label	Sample Type	Repeats	Rack	Vial
L731055-07 WG752445	UNKNOWN	3	2	32
L731055-08 WG752445	UNKNOWN	3	2	33
L731077-02 WG752445	UNKNOWN	3	2	34
CCV 14J27642	QC	3	2	35
CCB	QC	3	2	36
L731107-01 WG752445	UNKNOWN	3	2	37
L731107-02 WG752445	UNKNOWN	3	2	38
L731107-03 WG752445	UNKNOWN	3	2	39
L731107-04 WG752445	UNKNOWN	3	2	40
L731107-05 WG752445	UNKNOWN	3	2	41
L731107-06 WG752445	UNKNOWN	3	2	42
L731107-07 WG752445	UNKNOWN	3	2	43
L731107-08 WG752445	UNKNOWN	3	2	44
L731107-09 WG752445	UNKNOWN	3	2	45
CCV 14J27642	QC	3	2	46
CCB	QC	3	2	47
CCVLL 14G16199	QC	3	2	48
ICSA 14J27643	QC	3	2	49
ICSAB 14J27644	QC	3	2	50

Start Time
11/5/2014 11:03:16 AM
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Comprehensive sample report

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Comprehensive sample report

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CALBLK

Sample Type BLK Analysis Date 11/5/2014 11:03:16 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.4 %	1.4 %	44.6 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.3 %	0.9 %	-17.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	-4.5 %	24.7 %	-5.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	5.3 %	0.6 %	-0.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.5 %	0.1 %	-0.1 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

Comprehensive sample report

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	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.3 %	3.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.5 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.0 %	0.8 %	0.1 %
Concentration SD		0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run	0.000 ppm
Concentration RSD	0.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	2 cps	0 cps	44 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	2 cps	1 cps	0 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-26 cps	0 cps	0 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	1 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	2 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1 cps	3 cps	2 cps	24 cps

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	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	2 cps	1 cps	7 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4 cps	5,916 cps	9,747 cps	3,594 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,399 cps	-160 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

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STD1 14G16199

Sample Type STD Analysis Date 11/5/2014 11:07:46 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.103 ppm	0.199 ppm	0.002 ppm	0.516 ppm
Concentration per Run 1	0.126 ppm	0.198 ppm	0.002 ppm	0.520 ppm
Concentration per Run 2	0.094 ppm	0.202 ppm	0.002 ppm	0.513 ppm
Concentration per Run 3	0.090 ppm	0.198 ppm	0.002 ppm	0.515 ppm
Concentration RSD	18.9 %	1.3 %	4.1 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.106 ppm	0.000 ppm	0.513 ppm
Concentration per Run 1	0.000 ppm	0.109 ppm	0.000 ppm	0.520 ppm
Concentration per Run 2	0.000 ppm	0.103 ppm	0.000 ppm	0.509 ppm
Concentration per Run 3	0.000 ppm	0.107 ppm	0.000 ppm	0.509 ppm
Concentration RSD		2.9 %		1.2 %
Concentration SD		0.0 ppm		0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.112 ppm	0.510 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.121 ppm	0.513 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.112 ppm	0.508 ppm	0.010 ppm
Concentration per Run 3	0.017 ppm	0.102 ppm	0.509 ppm	0.010 ppm
Concentration RSD	6.6 %	8.5 %	0.6 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.010 ppm	0.010 ppm	0.010 ppm	0.019 ppm
Concentration per Run 1	0.010 ppm	0.011 ppm	0.010 ppm	0.019 ppm
Concentration per Run 2	0.010 ppm	0.014 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.009 ppm	0.006 ppm	0.010 ppm	0.020 ppm
Concentration RSD	10.0 %	35.2 %	2.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 1	0.004 ppm	0.019 ppm	0.020 ppm	0.020 ppm
Concentration per Run 2	0.005 ppm	0.019 ppm	0.021 ppm	0.020 ppm
Concentration per Run 3	0.006 ppm	0.018 ppm	0.020 ppm	0.022 ppm
Concentration RSD	20.9 %	2.1 %	1.7 %	3.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	4.630 ppm	0.185 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.643 ppm	0.182 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.630 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.618 ppm	0.185 ppm
Concentration RSD	2.9 %	3.4 %	0.3 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.018 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.019 ppm	0.019 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.017 ppm	0.021 ppm	0.011 ppm	0.011 ppm
Concentration per Run 3	0.017 ppm	0.020 ppm	0.009 ppm	0.010 ppm
Concentration RSD	6.1 %	4.8 %	6.1 %	6.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.011 ppm	100.169 %	100.166 %	99.711 %
Concentration per Run 1	0.011 ppm	99.748 %	99.832 %	99.456 %
Concentration per Run 2	0.010 ppm	100.801 %	100.694 %	100.048 %
Concentration per Run 3	0.011 ppm	99.959 %	99.972 %	99.631 %
Concentration RSD	1.1 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.974 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	99.795 %	0.000 ppm	0.032 ppm	0.005 ppm
Concentration per Run 2	100.094 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	100.033 %	0.000 ppm	0.031 ppm	0.005 ppm
Concentration RSD			0.5 %	1.8 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.022 ppm
Concentration per Run 1	0.024 ppm
Concentration per Run 2	0.022 ppm
Concentration per Run 3	0.022 ppm
Concentration RSD	4.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	10 cps	68 cps	38 cps	349 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	130 cps	49 cps	3 cps	290 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	192 cps	6 cps	1,004 cps	370 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	26 cps	7 cps	33 cps	49 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	21 cps	9 cps	6 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	39 cps	22 cps	1,003 cps	526 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	13 cps	9 cps	90 cps	72 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	544 cps	5,926 cps	9,764 cps	3,584 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,358 cps	-97 cps	109 cps	33 cps

	Cu 324.754 {104} (Radial)
Intensity average	25 cps

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STD7 14J27631

Sample Type STD Analysis Date 11/5/2014 11:12:14 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.500 ppm	0.515 ppm	0.539 ppm
Concentration per Run 1	0.000 ppm	0.498 ppm	0.518 ppm	0.540 ppm
Concentration per Run 2	0.000 ppm	0.500 ppm	0.514 ppm	0.536 ppm
Concentration per Run 3	0.000 ppm	0.503 ppm	0.512 ppm	0.539 ppm
Concentration RSD		0.5 %	0.5 %	0.4 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.519 ppm	0.000 ppm	0.521 ppm	0.514 ppm
Concentration per Run 1	0.524 ppm	0.000 ppm	0.529 ppm	0.517 ppm
Concentration per Run 2	0.520 ppm	0.000 ppm	0.520 ppm	0.514 ppm
Concentration per Run 3	0.515 ppm	0.000 ppm	0.516 ppm	0.510 ppm
Concentration RSD	0.9 %		1.3 %	0.7 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.514 ppm	0.515 ppm	0.496 ppm	0.494 ppm
Concentration per Run 1	0.514 ppm	0.526 ppm	0.497 ppm	0.494 ppm
Concentration per Run 2	0.515 ppm	0.508 ppm	0.497 ppm	0.494 ppm
Concentration per Run 3	0.513 ppm	0.510 ppm	0.495 ppm	0.494 ppm
Concentration RSD	0.2 %	2.0 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.498 ppm	0.484 ppm	0.496 ppm	0.491 ppm
Concentration per Run 1	0.499 ppm	0.483 ppm	0.497 ppm	0.494 ppm
Concentration per Run 2	0.498 ppm	0.486 ppm	0.497 ppm	0.491 ppm
Concentration per Run 3	0.496 ppm	0.484 ppm	0.496 ppm	0.486 ppm
Concentration RSD	0.3 %	0.4 %	0.1 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.476 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.475 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.482 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.472 ppm
Concentration RSD				1.1 %
Concentration SD				0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.500 ppm	0.501 ppm	0.498 ppm	0.511 ppm
Concentration per Run 1	0.504 ppm	0.500 ppm	0.495 ppm	0.510 ppm
Concentration per Run 2	0.499 ppm	0.504 ppm	0.504 ppm	0.516 ppm
Concentration per Run 3	0.496 ppm	0.497 ppm	0.494 ppm	0.506 ppm
Concentration RSD	0.7 %	0.7 %	1.1 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.514 ppm	99.368 %	99.979 %	98.059 %
Concentration per Run 1	0.513 ppm	99.220 %	99.340 %	97.547 %
Concentration per Run 2	0.518 ppm	99.040 %	100.149 %	98.215 %
Concentration per Run 3	0.510 ppm	99.845 %	100.449 %	98.413 %
Concentration RSD	0.8 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.152 %	0.000 ppm	0.508 ppm	0.501 ppm
Concentration per Run 1	99.697 %	0.000 ppm	0.508 ppm	0.503 ppm
Concentration per Run 2	99.068 %	0.000 ppm	0.509 ppm	0.501 ppm
Concentration per Run 3	98.693 %	0.000 ppm	0.508 ppm	0.500 ppm
Concentration RSD			0.2 %	0.3 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.513 ppm
Concentration per Run 1	0.516 ppm
Concentration per Run 2	0.517 ppm
Concentration per Run 3	0.507 ppm
Concentration RSD	1.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	25 cps	167 cps	9,483 cps	360 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	135 cps	228 cps	14 cps	293 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	7,221 cps	30 cps	1,018 cps	18,733 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,349 cps	314 cps	1,637 cps	1,201 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	420 cps	493 cps	332 cps	199 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,645 cps	1,972 cps	102 cps	1,305 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	313 cps	178 cps	4,395 cps	3,237 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	26,107 cps	5,879 cps	9,745 cps	3,524 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,040 cps	-83 cps	1,749 cps	2,640 cps

	Cu 324.754 {104} (Radial)
Intensity average	439 cps

Comprehensive sample report

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STD2 14J08649

Sample Type STD Analysis Date 11/5/2014 11:16:29 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	1.024 ppm	1.038 ppm	1.051 ppm
Concentration per Run 1	0.000 ppm	0.994 ppm	1.008 ppm	1.020 ppm
Concentration per Run 2	0.000 ppm	1.085 ppm	1.101 ppm	1.125 ppm
Concentration per Run 3	0.000 ppm	0.994 ppm	1.003 ppm	1.008 ppm
Concentration RSD		5.1 %	5.3 %	6.1 %
Concentration SD		0.1 ppm	0.1 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.039 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.008 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.101 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.008 ppm	0.000 ppm	0.000 ppm
Concentration RSD		5.2 %		
Concentration SD		0.1 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.036 ppm	0.000 ppm	1.020 ppm	1.035 ppm
Concentration per Run 1	1.007 ppm	0.000 ppm	0.995 ppm	1.008 ppm
Concentration per Run 2	1.097 ppm	0.000 ppm	1.077 ppm	1.096 ppm
Concentration per Run 3	1.003 ppm	0.000 ppm	0.989 ppm	1.000 ppm
Concentration RSD	5.1 %		4.8 %	5.1 %
Concentration SD	0.1 ppm		0.0 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.039 ppm	1.039 ppm	0.995 ppm	0.992 ppm
Concentration per Run 1	1.005 ppm	1.002 ppm	0.996 ppm	0.992 ppm
Concentration per Run 2	1.101 ppm	1.115 ppm	0.995 ppm	0.992 ppm
Concentration per Run 3	1.009 ppm	1.001 ppm	0.994 ppm	0.993 ppm
Concentration RSD	5.2 %	6.3 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.001 ppm	0.980 ppm	1.002 ppm	0.980 ppm
Concentration per Run 1	1.003 ppm	0.981 ppm	1.002 ppm	0.985 ppm
Concentration per Run 2	1.001 ppm	0.979 ppm	1.003 ppm	0.978 ppm
Concentration per Run 3	0.999 ppm	0.981 ppm	1.001 ppm	0.978 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.033 ppm	1.020 ppm	0.928 ppm	0.958 ppm
Concentration per Run 1	1.034 ppm	1.022 ppm	0.929 ppm	0.973 ppm
Concentration per Run 2	1.032 ppm	1.018 ppm	0.926 ppm	0.949 ppm
Concentration per Run 3	1.032 ppm	1.019 ppm	0.929 ppm	0.953 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.000 ppm	1.000 ppm	1.001 ppm	1.023 ppm
Concentration per Run 1	1.001 ppm	0.997 ppm	1.011 ppm	1.024 ppm
Concentration per Run 2	1.001 ppm	0.998 ppm	0.992 ppm	1.020 ppm
Concentration per Run 3	0.999 ppm	1.004 ppm	1.000 ppm	1.025 ppm
Concentration RSD	0.1 %	0.4 %	0.9 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.022 ppm	98.384 %	99.507 %	96.523 %
Concentration per Run 1	1.025 ppm	100.576 %	99.413 %	96.483 %
Concentration per Run 2	1.021 ppm	93.126 %	99.698 %	96.739 %
Concentration per Run 3	1.021 ppm	101.451 %	99.409 %	96.347 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.519 %	0.000 ppm	1.009 ppm	0.999 ppm
Concentration per Run 1	98.350 %	0.000 ppm	1.010 ppm	1.000 ppm
Concentration per Run 2	98.306 %	0.000 ppm	1.009 ppm	1.000 ppm
Concentration per Run 3	98.899 %	0.000 ppm	1.007 ppm	0.998 ppm
Concentration RSD			0.2 %	0.1 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.033 ppm
Concentration per Run 1	1.013 ppm
Concentration per Run 2	1.093 ppm
Concentration per Run 3	0.993 ppm
Concentration RSD	5.1 %
Concentration SD	0.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	44 cps	336 cps	18,899 cps	653 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	256 cps	455 cps	30 cps	564 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,258 cps	58 cps	1,969 cps	37,297 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,693 cps	626 cps	3,232 cps	2,373 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	833 cps	981 cps	664 cps	398 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	7,153 cps	3,866 cps	202 cps	2,586 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	622 cps	351 cps	8,781 cps	6,432 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	51,619 cps	5,820 cps	9,699 cps	3,469 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,023 cps	-50 cps	3,455 cps	5,230 cps

	Cu 324.754 {104} (Radial)
Intensity average	868 cps

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STD3 14J06521

Sample Type STD Analysis Date 11/5/2014 11:20:41 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	1.988 ppm	1.978 ppm	1.960 ppm
Concentration per Run 1	0.000 ppm	1.856 ppm	1.851 ppm	1.842 ppm
Concentration per Run 2	0.000 ppm	2.100 ppm	2.085 ppm	2.068 ppm
Concentration per Run 3	0.000 ppm	2.007 ppm	1.997 ppm	1.970 ppm
Concentration RSD		6.2 %	6.0 %	5.8 %
Concentration SD		0.1 ppm	0.1 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.955 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.836 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	2.058 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.971 ppm	0.000 ppm	0.000 ppm
Concentration RSD		5.7 %		
Concentration SD		0.1 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.977 ppm	0.000 ppm	1.965 ppm	1.979 ppm
Concentration per Run 1	1.854 ppm	0.000 ppm	1.845 ppm	1.856 ppm
Concentration per Run 2	2.075 ppm	0.000 ppm	2.069 ppm	2.077 ppm
Concentration per Run 3	2.003 ppm	0.000 ppm	1.980 ppm	2.006 ppm
Concentration RSD	5.7 %		5.7 %	5.7 %
Concentration SD	0.1 ppm		0.1 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.977 ppm	1.977 ppm	2.003 ppm	2.005 ppm
Concentration per Run 1	1.847 ppm	1.844 ppm	2.002 ppm	2.003 ppm
Concentration per Run 2	2.081 ppm	2.096 ppm	2.007 ppm	2.010 ppm
Concentration per Run 3	2.003 ppm	1.990 ppm	2.001 ppm	2.003 ppm
Concentration RSD	6.0 %	6.4 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	2.014 ppm	0.000 ppm	2.012 ppm
Concentration per Run 1	0.000 ppm	2.010 ppm	0.000 ppm	2.009 ppm
Concentration per Run 2	0.000 ppm	2.021 ppm	0.000 ppm	2.014 ppm
Concentration per Run 3	0.000 ppm	2.010 ppm	0.000 ppm	2.014 ppm
Concentration RSD		0.3 %		0.1 %
Concentration SD		0.0 ppm		0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	2.047 ppm	1.990 ppm	1.978 ppm	2.028 ppm
Concentration per Run 1	2.044 ppm	1.990 ppm	1.971 ppm	2.032 ppm
Concentration per Run 2	2.049 ppm	1.989 ppm	1.982 ppm	2.054 ppm
Concentration per Run 3	2.048 ppm	1.991 ppm	1.980 ppm	1.999 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	1.986 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	1.976 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	2.010 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.971 ppm
Concentration RSD				1.1 %
Concentration SD				0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.985 ppm	104.798 %	100.816 %	96.837 %
Concentration per Run 1	1.971 ppm	110.355 %	101.041 %	97.046 %
Concentration per Run 2	2.011 ppm	99.562 %	100.861 %	96.765 %
Concentration per Run 3	1.974 ppm	104.478 %	100.546 %	96.702 %
Concentration RSD	1.1 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.427 %	0.000 ppm	1.994 ppm	0.000 ppm
Concentration per Run 1	100.777 %	0.000 ppm	1.991 ppm	0.000 ppm
Concentration per Run 2	99.943 %	0.000 ppm	1.995 ppm	0.000 ppm
Concentration per Run 3	100.560 %	0.000 ppm	1.994 ppm	0.000 ppm
Concentration RSD			0.1 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	1.980 ppm
Concentration per Run 1	1.857 ppm
Concentration per Run 2	2.084 ppm
Concentration per Run 3	1.999 ppm
Concentration RSD	5.8 %
Concentration SD	0.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	90 cps	693 cps	38,355 cps	1,258 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	494 cps	910 cps	61 cps	1,150 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	29,006 cps	119 cps	4,037 cps	75,978 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	5,458 cps	1,268 cps	6,529 cps	4,811 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,738 cps	2,020 cps	1,409 cps	831 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	14,362 cps	7,641 cps	432 cps	5,552 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,307 cps	740 cps	18,573 cps	12,721 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	102,173 cps	6,200 cps	9,827 cps	3,481 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,083 cps	69 cps	6,917 cps	10,959 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,766 cps

Comprehensive sample report

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STD4 14J27630

Sample Type STD Analysis Date 11/5/2014 11:24:48 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.888 ppm	0.000 ppm	0.000 ppm	10.000 ppm
Concentration per Run 1	9.837 ppm	0.000 ppm	0.000 ppm	9.984 ppm
Concentration per Run 2	9.867 ppm	0.000 ppm	0.000 ppm	9.985 ppm
Concentration per Run 3	9.961 ppm	0.000 ppm	0.000 ppm	10.032 ppm
Concentration RSD	0.7 %			0.3 %
Concentration SD	0.1 ppm			0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.553 ppm	10.005 ppm	11.029 ppm	10.092 ppm
Concentration per Run 1	10.563 ppm	10.009 ppm	10.995 ppm	10.088 ppm
Concentration per Run 2	10.538 ppm	9.981 ppm	11.079 ppm	10.131 ppm
Concentration per Run 3	10.557 ppm	10.025 ppm	11.015 ppm	10.058 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	10.012 ppm	10.003 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	10.029 ppm	10.004 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	10.010 ppm	10.013 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	9.996 ppm	9.993 ppm	0.000 ppm
Concentration RSD		0.2 %	0.1 %	
Concentration SD		0.0 ppm	0.0 ppm	

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

Comprehensive sample report

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	9.987 ppm	0.000 ppm	10.403 ppm	0.000 ppm
Concentration per Run 1	9.986 ppm	0.000 ppm	10.369 ppm	0.000 ppm
Concentration per Run 2	9.992 ppm	0.000 ppm	10.400 ppm	0.000 ppm
Concentration per Run 3	9.984 ppm	0.000 ppm	10.439 ppm	0.000 ppm
Concentration RSD	0.0 %		0.3 %	
Concentration SD	0.0 ppm		0.0 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	104.166 %	100.371 %	95.464 %
Concentration per Run 1	0.000 ppm	104.355 %	100.661 %	95.578 %
Concentration per Run 2	0.000 ppm	104.411 %	100.304 %	95.439 %
Concentration per Run 3	0.000 ppm	103.733 %	100.147 %	95.374 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.574 %	10.653 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	99.473 %	10.476 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	99.737 %	10.731 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	99.513 %	10.751 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		0.2 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	476 cps	1 cps	1 cps	6,206 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,461 cps	4,630 cps	286 cps	5,932 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-19 cps	631 cps	20,469 cps	5 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4 cps	-1 cps	-2 cps	-1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	1 cps	-3 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	69,754 cps	2 cps	2,255 cps	27,846 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	2 cps	-1 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	34 cps	6,162 cps	9,784 cps	3,431 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	159,716 cps	842 cps	5 cps	-6 cps

	Cu 324.754 {104} (Radial)
Intensity average	2 cps

Comprehensive sample report

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STD5 14J08650

Sample Type STD Analysis Date 11/5/2014 11:29:12 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	250.942 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	247.533 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	255.378 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	249.916 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.6 %			
Concentration SD	4.0 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	256.456 ppm	0.000 ppm	103.311 ppm	50.573 ppm
Concentration per Run 1	253.323 ppm	0.000 ppm	101.946 ppm	50.106 ppm
Concentration per Run 2	260.485 ppm	0.000 ppm	105.246 ppm	51.255 ppm
Concentration per Run 3	255.560 ppm	0.000 ppm	102.740 ppm	50.358 ppm
Concentration RSD	1.4 %		1.7 %	1.2 %
Concentration SD	3.7 ppm		1.7 ppm	0.6 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	253.160 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	249.918 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	257.111 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	252.450 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		3.6 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	48.907 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.632 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.949 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	49.141 ppm	0.000 ppm
Concentration RSD			0.5 %	
Concentration SD			0.3 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.761 %	89.103 %	72.087 %
Concentration per Run 1	0.000 ppm	96.880 %	89.354 %	72.426 %
Concentration per Run 2	0.000 ppm	94.710 %	89.396 %	72.096 %
Concentration per Run 3	0.000 ppm	95.692 %	88.561 %	71.739 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.815 %	250.710 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	85.281 %	248.567 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	86.407 %	254.983 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	85.758 %	248.578 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.5 %		
Concentration SD		3.7 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	10,975 cps	1 cps	0 cps	134,763 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	54,756 cps	39,658 cps	2,456 cps	27,325 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	18 cps	14,673 cps	438,586 cps	140 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	38 cps	2 cps	3 cps	-10 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-10 cps	1 cps	-7 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	10 cps	0 cps	9,405 cps	24 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	5 cps	-4 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	277 cps	5,665 cps	8,685 cps	2,591 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	137,647 cps	21,689 cps	7 cps	2 cps

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

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STD6 14I24985

Sample Type STD Analysis Date 11/5/2014 11:33:45 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	499.531 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	507.894 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	493.378 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	497.321 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.5 %			
Concentration SD	7.5 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	496.761 ppm	0.000 ppm	198.293 ppm	99.704 ppm
Concentration per Run 1	504.964 ppm	0.000 ppm	201.467 ppm	101.856 ppm
Concentration per Run 2	492.298 ppm	0.000 ppm	196.649 ppm	98.434 ppm
Concentration per Run 3	493.022 ppm	0.000 ppm	196.764 ppm	98.823 ppm
Concentration RSD	1.4 %		1.4 %	1.9 %
Concentration SD	7.1 ppm		2.7 ppm	1.9 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	498.420 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	506.427 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	495.456 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	493.377 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.4 %		
Concentration SD		7.0 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	100.526 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	99.865 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	100.121 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	101.591 ppm	0.000 ppm
Concentration RSD			0.9 %	
Concentration SD			0.9 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.346 %	84.554 %	64.558 %
Concentration per Run 1	0.000 ppm	94.225 %	85.237 %	64.918 %
Concentration per Run 2	0.000 ppm	96.142 %	84.680 %	64.792 %
Concentration per Run 3	0.000 ppm	95.671 %	83.745 %	63.964 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.070 %	499.632 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	83.216 %	509.077 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	82.655 %	493.250 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	83.338 %	496.570 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.7 %		
Concentration SD		8.3 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,747 cps	1 cps	0 cps	255,857 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	105,596 cps	74,195 cps	4,692 cps	53,635 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	53 cps	28,764 cps	760,820 cps	269 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	45 cps	3 cps	6 cps	-23 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-18 cps	1 cps	-6 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	-3 cps	18,343 cps	21 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	8 cps	-5 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	490 cps	5,641 cps	8,242 cps	2,320 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,243 cps	43,186 cps	10 cps	-1 cps

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

Comprehensive sample report

11/6/2014 7:56:27 AM

ICV 14I23903

Sample Type QC Analysis Date 11/5/2014 11:43:32 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.707 ppm	1.009 ppm	1.003 ppm	9.844 ppm
Concentration per Run 1	9.811 ppm	1.010 ppm	1.002 ppm	9.853 ppm
Concentration per Run 2	9.692 ppm	1.012 ppm	1.001 ppm	9.823 ppm
Concentration per Run 3	9.617 ppm	1.005 ppm	1.007 ppm	9.857 ppm
Concentration RSD	1.0 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.367 ppm	9.919 ppm	10.996 ppm	9.828 ppm
Concentration per Run 1	10.395 ppm	9.916 ppm	11.024 ppm	9.860 ppm
Concentration per Run 2	10.351 ppm	9.888 ppm	10.926 ppm	9.777 ppm
Concentration per Run 3	10.356 ppm	9.951 ppm	11.038 ppm	9.847 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.010 ppm	9.702 ppm	9.840 ppm	0.406 ppm
Concentration per Run 1	1.015 ppm	9.624 ppm	9.885 ppm	0.408 ppm
Concentration per Run 2	1.007 ppm	9.691 ppm	9.803 ppm	0.405 ppm
Concentration per Run 3	1.008 ppm	9.792 ppm	9.833 ppm	0.406 ppm
Concentration RSD	0.4 %	0.9 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.012 ppm	1.009 ppm	1.003 ppm	0.995 ppm
Concentration per Run 1	1.017 ppm	1.009 ppm	0.993 ppm	0.985 ppm
Concentration per Run 2	1.010 ppm	1.005 ppm	0.995 ppm	0.987 ppm
Concentration per Run 3	1.010 ppm	1.013 ppm	1.020 ppm	1.013 ppm
Concentration RSD	0.4 %	0.4 %	1.5 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.002 ppm	0.984 ppm	0.995 ppm	1.003 ppm
Concentration per Run 1	0.993 ppm	0.973 ppm	0.987 ppm	0.996 ppm
Concentration per Run 2	0.994 ppm	0.976 ppm	0.986 ppm	0.996 ppm
Concentration per Run 3	1.019 ppm	1.003 ppm	1.011 ppm	1.016 ppm
Concentration RSD	1.5 %	1.7 %	1.4 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.022 ppm	1.036 ppm	0.005 ppm	0.985 ppm
Concentration per Run 1	1.017 ppm	1.030 ppm	0.002 ppm	0.982 ppm
Concentration per Run 2	1.014 ppm	1.029 ppm	0.006 ppm	0.981 ppm
Concentration per Run 3	1.035 ppm	1.049 ppm	0.005 ppm	0.991 ppm
Concentration RSD	1.1 %	1.1 %	45.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.037 ppm	1.034 ppm	0.101 ppm	0.999 ppm
Concentration per Run 1	1.032 ppm	1.033 ppm	0.101 ppm	0.991 ppm
Concentration per Run 2	1.031 ppm	1.024 ppm	0.101 ppm	1.005 ppm
Concentration per Run 3	1.049 ppm	1.045 ppm	0.102 ppm	1.001 ppm
Concentration RSD	1.0 %	1.0 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.996 ppm	101.582 %	96.837 %	92.370 %
Concentration per Run 1	0.989 ppm	101.324 %	97.065 %	92.850 %
Concentration per Run 2	1.000 ppm	101.957 %	97.162 %	92.672 %
Concentration per Run 3	1.001 ppm	101.465 %	96.285 %	91.587 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.3 %	0.5 %	0.7 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	97.747 %	9.985 ppm	0.992 ppm	1.025 ppm
Concentration per Run 1	97.731 %	10.099 ppm	0.982 ppm	1.018 ppm
Concentration per Run 2	97.898 %	9.988 ppm	0.984 ppm	1.019 ppm
Concentration per Run 3	97.611 %	9.868 ppm	1.009 ppm	1.039 ppm
Concentration RSD	0.1 %	1.2 %	1.5 %	1.1 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.007 ppm
Concentration per Run 1	1.007 ppm
Concentration per Run 2	1.005 ppm
Concentration per Run 3	1.009 ppm
Concentration RSD	0.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	455 cps	343 cps	18,902 cps	5,958 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	2,358 cps	4,476 cps	278 cps	5,633 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,375 cps	596 cps	19,635 cps	15,145 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,714 cps	629 cps	3,116 cps	2,277 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	798 cps	942 cps	631 cps	396 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	6,889 cps	3,821 cps	3 cps	2,635 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	627 cps	353 cps	883 cps	6,234 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	49,918 cps	6,010 cps	9,439 cps	3,320 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	156,785 cps	760 cps	3,305 cps	5,222 cps

	Cu 324.754 {104} (Radial)
Intensity average	875 cps

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Sample Type QC Analysis Date 11/5/2014 11:47:42 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.001 ppm	-0.003 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 1	-0.052 ppm	-0.004 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 2	0.006 ppm	-0.002 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.043 ppm	-0.004 ppm	0.000 ppm	0.001 ppm
Concentration RSD	4,292.9 %	37.2 %	143.9 %	128.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	-0.001 ppm	0.000 ppm	0.005 ppm	0.017 ppm
Concentration per Run 1	0.005 ppm	0.001 ppm	-0.046 ppm	0.017 ppm
Concentration per Run 2	-0.010 ppm	0.002 ppm	-0.014 ppm	0.022 ppm
Concentration per Run 3	0.001 ppm	-0.003 ppm	0.076 ppm	0.013 ppm
Concentration RSD	540.8 %	1,520.4 %	1,209.4 %	25.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.031 ppm	0.014 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.051 ppm	0.014 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.035 ppm	0.019 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.007 ppm	0.010 ppm	0.000 ppm
Concentration RSD	117.0 %	71.4 %	31.5 %	101.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	85.5 %	38.4 %	15.3 %	108.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.000 ppm	0.001 ppm
Concentration RSD	120.1 %	39.2 %	134.1 %	69.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.003 ppm	0.003 ppm
Concentration RSD	47.4 %	19.8 %	85.9 %	164.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.003 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	42.8 %	285.9 %	178.2 %	163.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	102.752 %	96.032 %	98.086 %
Concentration per Run 1	0.000 ppm	102.577 %	90.928 %	93.002 %
Concentration per Run 2	0.000 ppm	103.057 %	98.265 %	100.425 %
Concentration per Run 3	0.000 ppm	102.622 %	98.904 %	100.831 %
Concentration RSD	59.1 %	0.3 %	4.6 %	4.5 %
Concentration SD	0.0 ppm	0.3 %	4.4 %	4.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.641 %	0.195 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	100.772 %	0.180 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.559 %	0.201 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	100.593 %	0.204 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	6.6 %	6.8 %	80.6 %
Concentration SD	0.1 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.006 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	-0.002 ppm
Concentration RSD	292.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	0 cps	1 cps	43 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	2 cps	1 cps	10 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-32 cps	2 cps	29 cps	-5 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-1 cps	2 cps	-2 cps	0 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	2 cps	27 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	4 cps	2 cps	-3 cps	6 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11 cps	6,079 cps	9,361 cps	3,525 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	161,428 cps	-147 cps	0 cps	6 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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Sample Type QC Analysis Date 11/5/2014 11:52:15 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.074 ppm	0.197 ppm	0.002 ppm	0.491 ppm
Concentration per Run 1	0.057 ppm	0.201 ppm	0.002 ppm	0.493 ppm
Concentration per Run 2	0.078 ppm	0.194 ppm	0.002 ppm	0.487 ppm
Concentration per Run 3	0.089 ppm	0.195 ppm	0.002 ppm	0.493 ppm
Concentration RSD	22.2 %	1.8 %	4.2 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.511 ppm	0.103 ppm	0.096 ppm	0.504 ppm
Concentration per Run 1	0.510 ppm	0.103 ppm	0.066 ppm	0.507 ppm
Concentration per Run 2	0.507 ppm	0.102 ppm	0.078 ppm	0.504 ppm
Concentration per Run 3	0.518 ppm	0.104 ppm	0.143 ppm	0.501 ppm
Concentration RSD	1.1 %	1.3 %	43.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.016 ppm	0.084 ppm	0.512 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.099 ppm	0.508 ppm	0.010 ppm
Concentration per Run 2	0.016 ppm	0.070 ppm	0.514 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.084 ppm	0.515 ppm	0.010 ppm
Concentration RSD	1.3 %	17.4 %	0.8 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.010 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 1	0.010 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 2	0.009 ppm	0.011 ppm	0.009 ppm	0.019 ppm
Concentration per Run 3	0.010 ppm	0.008 ppm	0.009 ppm	0.019 ppm
Concentration RSD	5.0 %	16.5 %	1.5 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.019 ppm	0.019 ppm	0.021 ppm
Concentration per Run 1	0.005 ppm	0.019 ppm	0.020 ppm	0.021 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.019 ppm	0.021 ppm
Concentration per Run 3	0.004 ppm	0.019 ppm	0.019 ppm	0.019 ppm
Concentration RSD	8.4 %	4.8 %	3.1 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	4.647 ppm	0.187 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.652 ppm	0.188 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.626 ppm	0.187 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.662 ppm	0.186 ppm
Concentration RSD	1.2 %	1.1 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.020 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.020 ppm	0.021 ppm	0.009 ppm	0.010 ppm
Concentration per Run 2	0.020 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.021 ppm	0.019 ppm	0.009 ppm	0.011 ppm
Concentration RSD	4.0 %	5.1 %	7.0 %	6.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.010 ppm	104.280 %	99.542 %	100.987 %
Concentration per Run 1	0.010 ppm	104.872 %	99.349 %	100.881 %
Concentration per Run 2	0.010 ppm	104.870 %	99.937 %	101.204 %
Concentration per Run 3	0.010 ppm	103.099 %	99.339 %	100.877 %
Concentration RSD	0.2 %	1.0 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	1.0 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.768 %	0.862 ppm	0.030 ppm	0.005 ppm
Concentration per Run 1	101.714 %	0.883 ppm	0.030 ppm	0.005 ppm
Concentration per Run 2	101.767 %	0.874 ppm	0.030 ppm	0.005 ppm
Concentration per Run 3	101.823 %	0.829 ppm	0.030 ppm	0.005 ppm
Concentration RSD	0.1 %	3.3 %	0.4 %	1.4 %
Concentration SD	0.1 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.022 ppm
Concentration per Run 1	0.022 ppm
Concentration per Run 2	0.020 ppm
Concentration per Run 3	0.023 ppm
Concentration RSD	7.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	9 cps	70 cps	36 cps	348 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	130 cps	50 cps	4 cps	296 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	204 cps	5 cps	1,049 cps	384 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	27 cps	7 cps	31 cps	49 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	21 cps	8 cps	5 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	39 cps	22 cps	1,000 cps	541 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	9 cps	89 cps	73 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	545 cps	6,169 cps	9,703 cps	3,630 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	163,235 cps	-85 cps	104 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	26 cps

Comprehensive sample report

11/6/2014 7:56:27 AM

ICSA 14J10823

Sample Type QC Analysis Date 11/5/2014 11:56:46 AM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	486.358 ppm	-0.008 ppm	0.000 ppm	443.417 ppm
Concentration per Run 1	488.273 ppm	-0.004 ppm	0.000 ppm	447.702 ppm
Concentration per Run 2	485.673 ppm	-0.012 ppm	0.000 ppm	439.780 ppm
Concentration per Run 3	485.127 ppm	-0.007 ppm	0.000 ppm	442.768 ppm
Concentration RSD	0.3 %	51.4 %	177.7 %	0.9 %
Concentration SD	1.7 ppm	0.0 ppm	0.0 ppm	4.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	486.770 ppm	172.893 ppm	194.998 ppm	0.042 ppm
Concentration per Run 1	491.339 ppm	174.269 ppm	196.687 ppm	0.017 ppm
Concentration per Run 2	483.418 ppm	171.950 ppm	193.417 ppm	0.054 ppm
Concentration per Run 3	485.552 ppm	172.462 ppm	194.890 ppm	0.055 ppm
Concentration RSD	0.8 %	0.7 %	0.8 %	51.5 %
Concentration SD	4.1 ppm	1.2 ppm	1.6 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.003 ppm	495.291 ppm	0.038 ppm	0.007 ppm
Concentration per Run 1	0.002 ppm	498.961 ppm	0.032 ppm	0.008 ppm
Concentration per Run 2	0.003 ppm	491.731 ppm	0.042 ppm	0.008 ppm
Concentration per Run 3	0.003 ppm	495.182 ppm	0.041 ppm	0.007 ppm
Concentration RSD	8.9 %	0.7 %	15.1 %	1.2 %
Concentration SD	0.0 ppm	3.6 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.006 ppm	0.006 ppm	0.001 ppm	-0.017 ppm
Concentration per Run 1	-0.006 ppm	0.007 ppm	0.000 ppm	-0.017 ppm
Concentration per Run 2	-0.006 ppm	0.005 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 3	-0.007 ppm	0.007 ppm	0.001 ppm	-0.017 ppm
Concentration RSD	8.1 %	19.2 %	97.2 %	4.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.025 ppm	0.002 ppm	-0.010 ppm	-0.005 ppm
Concentration per Run 1	-0.025 ppm	0.003 ppm	-0.008 ppm	-0.005 ppm
Concentration per Run 2	-0.024 ppm	0.002 ppm	-0.010 ppm	-0.004 ppm
Concentration per Run 3	-0.025 ppm	0.000 ppm	-0.011 ppm	-0.007 ppm
Concentration RSD	3.7 %	77.9 %	14.1 %	23.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.002 ppm	-0.001 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	-0.005 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	7.5 %	12.8 %	94.2 %	26.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.007 ppm	0.024 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	-0.007 ppm	0.022 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.010 ppm	0.026 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	-0.003 ppm	0.024 ppm	0.000 ppm	0.001 ppm
Concentration RSD	50.4 %	9.3 %	293.0 %	79.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	-0.006 ppm	95.327 %	84.796 %	69.137 %
Concentration per Run 1	-0.006 ppm	94.619 %	84.423 %	68.964 %
Concentration per Run 2	-0.006 ppm	95.570 %	84.974 %	69.324 %
Concentration per Run 3	-0.005 ppm	95.794 %	84.991 %	69.124 %
Concentration RSD	1.7 %	0.7 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.6 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	84.109 %	-0.017 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 1	84.029 %	-0.006 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	84.200 %	0.065 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	84.097 %	-0.109 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	0.1 %	516.1 %	7.8 %	3.7 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.004 ppm
Concentration per Run 1	0.006 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	70.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,172 cps	-1 cps	-1 cps	250,018 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,459 cps	73,186 cps	4,613 cps	22 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	10 cps	28,580 cps	72 cps	261 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-15 cps	4 cps	1 cps	-28 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-16 cps	2 cps	-8 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	-3 cps	1 cps	19 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	9 cps	0 cps	12 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-237 cps	5,639 cps	8,265 cps	2,485 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,910 cps	-154 cps	12 cps	1 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

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ICSAB 14J10824

Sample Type QC Analysis Date 11/5/2014 12:01:13 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	485.505 ppm	0.988 ppm	0.488 ppm	446.213 ppm
Concentration per Run 1	493.714 ppm	1.015 ppm	0.497 ppm	453.727 ppm
Concentration per Run 2	479.952 ppm	0.970 ppm	0.485 ppm	443.178 ppm
Concentration per Run 3	482.847 ppm	0.978 ppm	0.483 ppm	441.734 ppm
Concentration RSD	1.5 %	2.4 %	1.5 %	1.5 %
Concentration SD	7.3 ppm	0.0 ppm	0.0 ppm	6.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	488.355 ppm	173.510 ppm	196.082 ppm	0.041 ppm
Concentration per Run 1	496.230 ppm	176.271 ppm	199.196 ppm	0.052 ppm
Concentration per Run 2	484.354 ppm	172.398 ppm	195.162 ppm	0.038 ppm
Concentration per Run 3	484.481 ppm	171.861 ppm	193.889 ppm	0.031 ppm
Concentration RSD	1.4 %	1.4 %	1.4 %	25.7 %
Concentration SD	6.8 ppm	2.4 ppm	2.8 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	499.194 ppm	0.046 ppm	0.007 ppm
Concentration per Run 1	0.005 ppm	507.692 ppm	0.045 ppm	0.008 ppm
Concentration per Run 2	0.004 ppm	496.299 ppm	0.048 ppm	0.007 ppm
Concentration per Run 3	0.003 ppm	493.591 ppm	0.046 ppm	0.007 ppm
Concentration RSD	15.8 %	1.5 %	3.8 %	3.2 %
Concentration SD	0.0 ppm	7.5 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.483 ppm	0.481 ppm	0.492 ppm	0.961 ppm
Concentration per Run 1	0.492 ppm	0.493 ppm	0.491 ppm	0.957 ppm
Concentration per Run 2	0.481 ppm	0.477 ppm	0.492 ppm	0.962 ppm
Concentration per Run 3	0.477 ppm	0.474 ppm	0.494 ppm	0.963 ppm
Concentration RSD	1.6 %	2.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.924 ppm	0.485 ppm	0.446 ppm	0.497 ppm
Concentration per Run 1	0.921 ppm	0.484 ppm	0.442 ppm	0.495 ppm
Concentration per Run 2	0.929 ppm	0.485 ppm	0.448 ppm	0.495 ppm
Concentration per Run 3	0.922 ppm	0.487 ppm	0.448 ppm	0.500 ppm
Concentration RSD	0.5 %	0.3 %	0.8 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.462 ppm	0.454 ppm	-0.001 ppm	0.939 ppm
Concentration per Run 1	0.461 ppm	0.453 ppm	0.001 ppm	0.936 ppm
Concentration per Run 2	0.463 ppm	0.456 ppm	-0.002 ppm	0.937 ppm
Concentration per Run 3	0.462 ppm	0.454 ppm	-0.002 ppm	0.943 ppm
Concentration RSD	0.2 %	0.3 %	129.9 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.502 ppm	0.536 ppm	1.118 ppm	0.456 ppm
Concentration per Run 1	0.501 ppm	0.535 ppm	1.118 ppm	0.456 ppm
Concentration per Run 2	0.496 ppm	0.532 ppm	1.118 ppm	0.454 ppm
Concentration per Run 3	0.509 ppm	0.541 ppm	1.118 ppm	0.457 ppm
Concentration RSD	1.2 %	0.9 %	0.0 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.449 ppm	94.623 %	85.632 %	69.562 %
Concentration per Run 1	0.448 ppm	92.919 %	85.619 %	69.566 %
Concentration per Run 2	0.447 ppm	95.233 %	85.988 %	69.869 %
Concentration per Run 3	0.453 ppm	95.717 %	85.289 %	69.251 %
Concentration RSD	0.7 %	1.6 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	1.5 %	0.3 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	84.316 %	-0.031 ppm	0.879 ppm	1.035 ppm
Concentration per Run 1	84.417 %	-0.056 ppm	0.875 ppm	1.033 ppm
Concentration per Run 2	84.291 %	0.050 ppm	0.880 ppm	1.034 ppm
Concentration per Run 3	84.240 %	-0.086 ppm	0.881 ppm	1.037 ppm
Concentration RSD	0.1 %	231.8 %	0.4 %	0.2 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.508 ppm
Concentration per Run 1	0.521 ppm
Concentration per Run 2	0.504 ppm
Concentration per Run 3	0.498 ppm
Concentration RSD	2.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	20,976 cps	312 cps	8,563 cps	249,705 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,018 cps	72,895 cps	4,604 cps	21 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	30 cps	28,589 cps	86 cps	256 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,208 cps	280 cps	1,152 cps	1,656 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	554 cps	350 cps	211 cps	172 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,755 cps	1,483 cps	2 cps	2,168 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	269 cps	163 cps	8,390 cps	2,456 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,414 cps	5,598 cps	8,347 cps	2,500 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	135,241 cps	-154 cps	2,590 cps	4,660 cps

	Cu 324.754 {104} (Radial)
Intensity average	414 cps

Comprehensive sample report

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CCV 14J27642

Sample Type QC Analysis Date 11/5/2014 2:29:42 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.705 ppm	1.992 ppm	0.200 ppm	49.304 ppm
Concentration per Run 1	9.763 ppm	1.995 ppm	0.200 ppm	49.394 ppm
Concentration per Run 2	9.674 ppm	2.000 ppm	0.200 ppm	49.449 ppm
Concentration per Run 3	9.677 ppm	1.981 ppm	0.198 ppm	49.070 ppm
Concentration RSD	0.5 %	0.5 %	0.5 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	51.837 ppm	9.801 ppm	10.686 ppm	48.284 ppm
Concentration per Run 1	51.998 ppm	9.805 ppm	10.679 ppm	48.459 ppm
Concentration per Run 2	51.969 ppm	9.823 ppm	10.769 ppm	48.361 ppm
Concentration per Run 3	51.543 ppm	9.773 ppm	10.610 ppm	48.031 ppm
Concentration RSD	0.5 %	0.3 %	0.7 %	0.5 %
Concentration SD	0.3 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.460 ppm	9.576 ppm	48.185 ppm	1.001 ppm
Concentration per Run 1	1.458 ppm	9.593 ppm	48.348 ppm	1.004 ppm
Concentration per Run 2	1.467 ppm	9.622 ppm	48.290 ppm	1.002 ppm
Concentration per Run 3	1.454 ppm	9.513 ppm	47.918 ppm	0.997 ppm
Concentration RSD	0.4 %	0.6 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.015 ppm	0.999 ppm	1.018 ppm	2.035 ppm
Concentration per Run 1	1.011 ppm	1.003 ppm	1.019 ppm	2.037 ppm
Concentration per Run 2	1.021 ppm	1.006 ppm	1.016 ppm	2.031 ppm
Concentration per Run 3	1.013 ppm	0.989 ppm	1.019 ppm	2.037 ppm
Concentration RSD	0.5 %	0.9 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.495 ppm	1.999 ppm	1.958 ppm	2.019 ppm
Concentration per Run 1	0.496 ppm	2.002 ppm	1.960 ppm	2.013 ppm
Concentration per Run 2	0.493 ppm	1.995 ppm	1.956 ppm	2.026 ppm
Concentration per Run 3	0.495 ppm	2.002 ppm	1.958 ppm	2.018 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.503 ppm	0.501 ppm	4.832 ppm	1.994 ppm
Concentration per Run 1	0.503 ppm	0.501 ppm	4.843 ppm	2.001 ppm
Concentration per Run 2	0.504 ppm	0.502 ppm	4.844 ppm	1.980 ppm
Concentration per Run 3	0.502 ppm	0.501 ppm	4.809 ppm	2.000 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.030 ppm	2.087 ppm	1.009 ppm	1.000 ppm
Concentration per Run 1	2.034 ppm	2.088 ppm	1.008 ppm	0.999 ppm
Concentration per Run 2	2.032 ppm	2.086 ppm	1.005 ppm	0.997 ppm
Concentration per Run 3	2.024 ppm	2.086 ppm	1.014 ppm	1.004 ppm
Concentration RSD	0.3 %	0.0 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.005 ppm	99.441 %	94.638 %	86.196 %
Concentration per Run 1	1.002 ppm	99.013 %	94.642 %	86.127 %
Concentration per Run 2	1.004 ppm	99.349 %	94.580 %	86.335 %
Concentration per Run 3	1.010 ppm	99.959 %	94.692 %	86.125 %
Concentration RSD	0.4 %	0.5 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.5 %	0.1 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	93.536 %	49.266 ppm	2.970 ppm	0.536 ppm
Concentration per Run 1	94.053 %	49.517 ppm	2.971 ppm	0.536 ppm
Concentration per Run 2	93.316 %	49.475 ppm	2.968 ppm	0.536 ppm
Concentration per Run 3	93.238 %	48.805 ppm	2.971 ppm	0.535 ppm
Concentration RSD	0.5 %	0.8 %	0.1 %	0.1 %
Concentration SD	0.4 %	0.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.999 ppm
Concentration per Run 1	2.003 ppm
Concentration per Run 2	2.000 ppm
Concentration per Run 3	1.993 ppm
Concentration RSD	0.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	446 cps	660 cps	3,681 cps	29,039 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,502 cps	4,330 cps	265 cps	27,093 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,354 cps	576 cps	94,119 cps	36,522 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,664 cps	610 cps	2,953 cps	4,346 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	367 cps	1,785 cps	1,163 cps	783 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,314 cps	1,809 cps	989 cps	5,084 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,197 cps	694 cps	8,403 cps	5,971 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	48,177 cps	5,883 cps	9,225 cps	3,098 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	150,030 cps	4,298 cps	9,673 cps	2,668 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,695 cps

Comprehensive sample report

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Sample Type QC Analysis Date 11/5/2014 2:33:50 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.021 ppm	-0.006 ppm	0.000 ppm	0.007 ppm
Concentration per Run 1	-0.043 ppm	-0.006 ppm	0.000 ppm	0.007 ppm
Concentration per Run 2	0.008 ppm	-0.005 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	-0.029 ppm	-0.005 ppm	0.000 ppm	0.009 ppm
Concentration RSD	125.7 %	12.2 %	160.1 %	40.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.003 ppm	0.002 ppm	-0.044 ppm	0.017 ppm
Concentration per Run 1	0.004 ppm	0.005 ppm	-0.014 ppm	-0.002 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	-0.013 ppm	0.052 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	-0.107 ppm	0.002 ppm
Concentration RSD	69.8 %	119.7 %	122.0 %	173.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.005 ppm	0.008 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.004 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.009 ppm	0.011 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.007 ppm	0.000 ppm
Concentration RSD	233.7 %	72.9 %	36.3 %	335.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	31.0 %	177.4 %	106.8 %	918.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	216.1 %	130.3 %	108.1 %	215.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.009 ppm	0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.009 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.011 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.008 ppm	0.000 ppm
Concentration RSD	85.0 %	241.8 %	19.6 %	65.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	24.2 %	286.3 %	240.7 %	137.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	100.980 %	100.778 %	101.511 %
Concentration per Run 1	0.000 ppm	101.567 %	101.182 %	101.554 %
Concentration per Run 2	0.000 ppm	100.206 %	100.248 %	101.163 %
Concentration per Run 3	0.000 ppm	101.167 %	100.905 %	101.815 %
Concentration RSD	25.4 %	0.7 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.7 %	0.5 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.343 %	0.043 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	100.579 %	-0.083 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	100.250 %	0.165 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	100.200 %	0.045 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	291.6 %	35.4 %	29.7 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.003 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	167.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4 cps	0 cps	-1 cps	48 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11 cps	3 cps	0 cps	10 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-22 cps	0 cps	16 cps	-2 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	3 cps	1 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-6 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	4 cps	30 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	3 cps	3 cps	1 cps	8 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11 cps	5,974 cps	9,823 cps	3,649 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	160,949 cps	-158 cps	2 cps	6 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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Sample Type QC Analysis Date 11/5/2014 2:38:21 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.087 ppm	0.197 ppm	0.002 ppm	0.515 ppm
Concentration per Run 1	0.108 ppm	0.200 ppm	0.002 ppm	0.506 ppm
Concentration per Run 2	0.061 ppm	0.195 ppm	0.002 ppm	0.519 ppm
Concentration per Run 3	0.091 ppm	0.196 ppm	0.002 ppm	0.520 ppm
Concentration RSD	27.4 %	1.2 %	3.3 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.540 ppm	0.109 ppm	0.138 ppm	0.506 ppm
Concentration per Run 1	0.543 ppm	0.107 ppm	0.137 ppm	0.493 ppm
Concentration per Run 2	0.534 ppm	0.112 ppm	0.108 ppm	0.508 ppm
Concentration per Run 3	0.543 ppm	0.108 ppm	0.168 ppm	0.518 ppm
Concentration RSD	1.0 %	2.7 %	21.7 %	2.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.122 ppm	0.506 ppm	0.010 ppm
Concentration per Run 1	0.016 ppm	0.089 ppm	0.503 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.154 ppm	0.507 ppm	0.010 ppm
Concentration per Run 3	0.015 ppm	0.123 ppm	0.509 ppm	0.010 ppm
Concentration RSD	2.4 %	27.0 %	0.6 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.009 ppm	0.010 ppm	0.010 ppm	0.020 ppm
Concentration per Run 1	0.009 ppm	0.008 ppm	0.009 ppm	0.020 ppm
Concentration per Run 2	0.010 ppm	0.011 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.010 ppm	0.010 ppm	0.010 ppm	0.019 ppm
Concentration RSD	3.8 %	19.3 %	1.1 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.019 ppm	0.020 ppm	0.022 ppm
Concentration per Run 1	0.004 ppm	0.020 ppm	0.020 ppm	0.022 ppm
Concentration per Run 2	0.006 ppm	0.019 ppm	0.019 ppm	0.021 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.019 ppm	0.022 ppm
Concentration RSD	20.2 %	2.9 %	3.8 %	1.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	4.668 ppm	0.189 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.662 ppm	0.189 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.669 ppm	0.190 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.672 ppm	0.190 ppm
Concentration RSD	2.0 %	4.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.019 ppm	0.020 ppm	0.010 ppm	0.011 ppm
Concentration per Run 1	0.019 ppm	0.017 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.018 ppm	0.019 ppm	0.010 ppm	0.011 ppm
Concentration per Run 3	0.020 ppm	0.022 ppm	0.010 ppm	0.010 ppm
Concentration RSD	4.5 %	12.7 %	2.0 %	3.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.011 ppm	101.264 %	101.771 %	101.483 %
Concentration per Run 1	0.010 ppm	101.792 %	102.177 %	101.754 %
Concentration per Run 2	0.010 ppm	100.321 %	101.565 %	101.320 %
Concentration per Run 3	0.011 ppm	101.680 %	101.571 %	101.375 %
Concentration RSD	0.4 %	0.8 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.8 %	0.4 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.165 %	0.625 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	101.208 %	0.696 ppm	0.031 ppm	0.005 ppm
Concentration per Run 2	100.942 %	0.561 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	101.344 %	0.619 ppm	0.031 ppm	0.005 ppm
Concentration RSD	0.2 %	10.8 %	0.5 %	1.3 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.023 ppm
Concentration per Run 1	0.022 ppm
Concentration per Run 2	0.024 ppm
Concentration per Run 3	0.024 ppm
Concentration RSD	6.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	9 cps	68 cps	36 cps	353 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	132 cps	51 cps	5 cps	289 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	190 cps	7 cps	1,007 cps	374 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	26 cps	7 cps	32 cps	51 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	4 cps	22 cps	9 cps	6 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	39 cps	23 cps	1,027 cps	545 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	14 cps	10 cps	90 cps	75 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	549 cps	5,991 cps	9,920 cps	3,648 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	162,267 cps	-105 cps	109 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	26 cps

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Sample Type UNKNOWN Analysis Date 11/5/2014 2:44:27 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-2.675 ppm	-0.042 ppm	0.001 ppm	4.502 ppm
Concentration per Run 1	-0.107 ppm	0.166 ppm	0.002 ppm	4.057 ppm
Concentration per Run 2	-4.327 ppm	-0.279 ppm	0.003 ppm	4.961 ppm
Concentration per Run 3	-3.590 ppm	-0.013 ppm	-0.002 ppm	4.488 ppm
Concentration RSD	84.3 %	538.1 %	451.5 %	10.0 %
Concentration SD	2.3 ppm	0.2 ppm	0.0 ppm	0.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	4.815 ppm	1.104 ppm	4.495 ppm	3.566 ppm
Concentration per Run 1	5.343 ppm	0.792 ppm	8.924 ppm	4.995 ppm
Concentration per Run 2	3.271 ppm	1.202 ppm	6.484 ppm	2.027 ppm
Concentration per Run 3	5.831 ppm	1.318 ppm	-1.921 ppm	3.675 ppm
Concentration RSD	28.2 %	25.0 %	126.6 %	41.7 %
Concentration SD	1.4 ppm	0.3 ppm	5.7 ppm	1.5 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.021 ppm	-0.036 ppm	2.019 ppm	0.017 ppm
Concentration per Run 1	0.066 ppm	0.391 ppm	2.447 ppm	0.001 ppm
Concentration per Run 2	0.059 ppm	-2.262 ppm	1.409 ppm	0.023 ppm
Concentration per Run 3	-0.062 ppm	1.762 ppm	2.200 ppm	0.026 ppm
Concentration RSD	347.5 %	5,643.0 %	26.9 %	82.0 %
Concentration SD	0.1 ppm	2.0 ppm	0.5 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.035 ppm	-0.199 ppm	-0.011 ppm	0.037 ppm
Concentration per Run 1	0.080 ppm	-0.425 ppm	0.012 ppm	0.024 ppm
Concentration per Run 2	0.044 ppm	0.029 ppm	-0.029 ppm	0.030 ppm
Concentration per Run 3	-0.020 ppm	-0.202 ppm	-0.016 ppm	0.057 ppm
Concentration RSD	146.8 %	113.7 %	192.6 %	46.4 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.074 ppm	-0.012 ppm	0.022 ppm	0.165 ppm
Concentration per Run 1	0.012 ppm	-0.058 ppm	0.049 ppm	0.290 ppm
Concentration per Run 2	0.143 ppm	0.008 ppm	0.071 ppm	-0.065 ppm
Concentration per Run 3	0.066 ppm	0.014 ppm	-0.052 ppm	0.269 ppm
Concentration RSD	89.5 %	330.6 %	291.9 %	120.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.047 ppm	0.018 ppm	6.427 ppm	0.656 ppm
Concentration per Run 1	0.044 ppm	0.010 ppm	6.617 ppm	0.632 ppm
Concentration per Run 2	0.046 ppm	0.027 ppm	6.287 ppm	0.680 ppm
Concentration per Run 3	0.052 ppm	0.018 ppm	6.378 ppm	0.656 ppm
Concentration RSD	9.5 %	45.8 %	2.7 %	3.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.122 ppm	-0.073 ppm	-0.049 ppm	0.046 ppm
Concentration per Run 1	-0.164 ppm	-0.058 ppm	-0.090 ppm	0.031 ppm
Concentration per Run 2	-0.308 ppm	-0.084 ppm	-0.059 ppm	0.040 ppm
Concentration per Run 3	0.106 ppm	-0.077 ppm	0.002 ppm	0.066 ppm
Concentration RSD	172.1 %	19.1 %	95.5 %	40.1 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.029 ppm	102.884 %	99.384 %	100.841 %
Concentration per Run 1	0.023 ppm	102.693 %	99.628 %	101.050 %
Concentration per Run 2	0.031 ppm	104.166 %	99.177 %	100.506 %
Concentration per Run 3	0.034 ppm	101.794 %	99.346 %	100.967 %
Concentration RSD	19.8 %	1.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	1.2 %	0.2 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.777 %	39.962 ppm	0.164 ppm	-0.004 ppm
Concentration per Run 1	97.753 %	48.450 ppm	0.162 ppm	0.006 ppm
Concentration per Run 2	99.253 %	41.067 ppm	0.159 ppm	-0.012 ppm
Concentration per Run 3	99.325 %	30.368 ppm	0.170 ppm	-0.007 ppm
Concentration RSD	0.9 %	22.8 %	3.2 %	202.6 %
Concentration SD	0.9 %	9.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.224 ppm
Concentration per Run 1	-0.190 ppm
Concentration per Run 2	-0.321 ppm
Concentration per Run 3	-0.161 ppm
Concentration RSD	38.0 %
Concentration SD	0.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4 cps	1 cps	0 cps	71 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	21 cps	7 cps	2 cps	20 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-23 cps	0 cps	39 cps	5 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	-1 cps	-1 cps	2 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-5 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4 cps	3 cps	15 cps	41 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	2 cps	-3 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	18 cps	6,087 cps	9,687 cps	3,625 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	158,437 cps	-129 cps	6 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	4 cps

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LCS WG752285

Sample Type UNKNOWN Analysis Date 11/5/2014 2:48:56 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	9,495.762 ppm	121.672 ppm	98.397 ppm
Concentration per Run 1	9,804.577 ppm	126.921 ppm	102.176 ppm
Concentration per Run 2	9,549.819 ppm	121.265 ppm	98.527 ppm
Concentration per Run 3	9,132.889 ppm	116.831 ppm	94.489 ppm
Concentration RSD	3.6 %	4.2 %	3.9 %
Concentration SD	339.1 ppm	5.1 ppm	3.8 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	7,192.966 ppm	7,681.167 ppm	12,210.435 ppm
Concentration per Run 1	7,476.021 ppm	7,985.916 ppm	12,683.268 ppm
Concentration per Run 2	7,217.886 ppm	7,709.550 ppm	12,244.613 ppm
Concentration per Run 3	6,884.990 ppm	7,348.035 ppm	11,703.425 ppm
Concentration RSD	4.1 %	4.2 %	4.0 %
Concentration SD	296.3 ppm	319.9 ppm	490.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	13,708.284 ppm	2,959.916 ppm	9.172 ppm
Concentration per Run 1	14,232.129 ppm	3,064.460 ppm	9.521 ppm
Concentration per Run 2	13,749.560 ppm	2,977.487 ppm	9.190 ppm
Concentration per Run 3	13,143.162 ppm	2,837.801 ppm	8.805 ppm
Concentration RSD	4.0 %	3.9 %	3.9 %
Concentration SD	545.7 ppm	114.3 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,888.808 ppm	571.123 ppm	139.762 ppm
Concentration per Run 1	2,994.224 ppm	590.748 ppm	145.015 ppm
Concentration per Run 2	2,900.021 ppm	574.750 ppm	140.333 ppm
Concentration per Run 3	2,772.179 ppm	547.872 ppm	133.938 ppm
Concentration RSD	3.9 %	3.8 %	4.0 %
Concentration SD	111.4 ppm	21.7 ppm	5.6 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	135.485 ppm	121.899 ppm	190.982 ppm
Concentration per Run 1	140.531 ppm	126.844 ppm	190.725 ppm
Concentration per Run 2	135.784 ppm	121.585 ppm	191.088 ppm
Concentration per Run 3	130.140 ppm	117.267 ppm	191.132 ppm
Concentration RSD	3.8 %	3.9 %	0.1 %
Concentration SD	5.2 ppm	4.8 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	125.011 ppm	108.127 ppm	113.784 ppm
Concentration per Run 1	124.926 ppm	107.996 ppm	113.460 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	125.085 ppm	108.197 ppm	113.726 ppm
Concentration per Run 3	125.021 ppm	108.187 ppm	114.165 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	174.216 ppm	254.351 ppm	251.774 ppm
Concentration per Run 1	174.127 ppm	254.804 ppm	251.944 ppm
Concentration per Run 2	173.931 ppm	254.007 ppm	251.475 ppm
Concentration per Run 3	174.591 ppm	254.243 ppm	251.902 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %
Concentration SD	0.3 ppm	0.4 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	91.819 ppm	253.179 ppm	825.261 ppm
Concentration per Run 1	91.873 ppm	253.824 ppm	830.555 ppm
Concentration per Run 2	91.653 ppm	253.123 ppm	815.305 ppm
Concentration per Run 3	91.931 ppm	252.590 ppm	829.924 ppm
Concentration RSD	0.2 %	0.2 %	1.0 %
Concentration SD	0.1 ppm	0.6 ppm	8.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	117.946 ppm	133.705 ppm	38.026 ppm
Concentration per Run 1	118.000 ppm	133.701 ppm	38.354 ppm
Concentration per Run 2	117.754 ppm	133.713 ppm	37.592 ppm
Concentration per Run 3	118.083 ppm	133.701 ppm	38.133 ppm
Concentration RSD	0.1 %	0.0 %	1.0 %
Concentration SD	0.2 ppm	0.0 ppm	0.4 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	125.083 ppm	328.683 ppm	103.648 %
Concentration per Run 1	125.648 ppm	330.384 ppm	100.628 %
Concentration per Run 2	123.100 ppm	323.960 ppm	103.148 %
Concentration per Run 3	126.502 ppm	331.705 ppm	107.169 %
Concentration RSD	1.4 %	1.3 %	3.2 %
Concentration SD	1.8 ppm	4.1 ppm	3.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.370 %	82.270 %	95.920 %
Concentration per Run 1	94.129 %	82.146 %	95.664 %
Concentration per Run 2	94.759 %	82.463 %	96.950 %
Concentration per Run 3	94.223 %	82.200 %	95.145 %
Concentration RSD	0.4 %	0.2 %	1.0 %
Concentration SD	0.3 %	0.2 %	0.9 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	613.065 ppm	175.308 ppm	203.868 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	634.136 ppm	174.757 ppm	204.094 ppm
Concentration per Run 2	609.927 ppm	175.754 ppm	203.319 ppm
Concentration per Run 3	595.131 ppm	175.413 ppm	204.190 ppm
Concentration RSD	3.2 %	0.3 %	0.2 %
Concentration SD	19.7 ppm	0.5 ppm	0.5 ppm

	Cu 324.754 {104} (Radial)
Concentration average	130.759 ppm
Concentration per Run 1	135.886 ppm
Concentration per Run 2	131.092 ppm
Concentration per Run 3	125.299 ppm
Concentration RSD	4.1 %
Concentration SD	5.3 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4,316 cps	404 cps	18,142 cps	42,336 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	17,035 cps	53,907 cps	3,383 cps	16,605 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,254 cps	1,738 cps	11,154 cps	50,994 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	3,556 cps	744 cps	5,076 cps	2,446 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	737 cps	932 cps	947 cps	945 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	15,873 cps	3,169 cps	497 cps	20,645 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	667 cps	427 cps	3,118 cps	7,349 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	155,087 cps	6,132 cps	9,199 cps	2,957 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	153,854 cps	388 cps	5,466 cps	9,710 cps

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	Cu 324.754 {104} (Radial)
Intensity average	1,111 cps

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LCSD WG752285

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Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	8,727.576 ppm	115.593 ppm	94.741 ppm
Concentration per Run 1	8,905.956 ppm	117.349 ppm	96.167 ppm
Concentration per Run 2	8,669.106 ppm	114.119 ppm	94.011 ppm
Concentration per Run 3	8,607.667 ppm	115.312 ppm	94.046 ppm
Concentration RSD	1.8 %	1.4 %	1.3 %
Concentration SD	157.5 ppm	1.6 ppm	1.2 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	6,778.303 ppm	7,245.200 ppm	11,651.049 ppm
Concentration per Run 1	6,900.053 ppm	7,387.599 ppm	11,859.845 ppm
Concentration per Run 2	6,734.215 ppm	7,183.957 ppm	11,567.945 ppm
Concentration per Run 3	6,700.641 ppm	7,164.045 ppm	11,525.356 ppm
Concentration RSD	1.6 %	1.7 %	1.6 %
Concentration SD	106.8 ppm	123.7 ppm	182.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	13,102.214 ppm	2,759.807 ppm	8.589 ppm
Concentration per Run 1	13,313.683 ppm	2,814.694 ppm	8.771 ppm
Concentration per Run 2	13,003.727 ppm	2,739.383 ppm	8.513 ppm
Concentration per Run 3	12,989.231 ppm	2,725.343 ppm	8.481 ppm
Concentration RSD	1.4 %	1.7 %	1.9 %
Concentration SD	183.3 ppm	48.0 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,735.561 ppm	539.267 ppm	129.793 ppm
Concentration per Run 1	2,772.426 ppm	550.319 ppm	132.629 ppm
Concentration per Run 2	2,732.303 ppm	534.598 ppm	128.529 ppm
Concentration per Run 3	2,701.954 ppm	532.883 ppm	128.222 ppm
Concentration RSD	1.3 %	1.8 %	1.9 %
Concentration SD	35.3 ppm	9.6 ppm	2.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	119.179 ppm	117.356 ppm	187.399 ppm
Concentration per Run 1	121.099 ppm	119.080 ppm	187.274 ppm
Concentration per Run 2	118.077 ppm	116.028 ppm	186.629 ppm
Concentration per Run 3	118.362 ppm	116.961 ppm	188.295 ppm
Concentration RSD	1.4 %	1.3 %	0.4 %
Concentration SD	1.7 ppm	1.6 ppm	0.8 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	123.581 ppm	104.895 ppm	108.324 ppm
Concentration per Run 1	123.294 ppm	104.670 ppm	107.991 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	123.134 ppm	104.404 ppm	107.987 ppm
Concentration per Run 3	124.316 ppm	105.610 ppm	108.994 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %
Concentration SD	0.6 ppm	0.6 ppm	0.6 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	164.766 ppm	242.226 ppm	243.078 ppm
Concentration per Run 1	165.073 ppm	241.469 ppm	242.689 ppm
Concentration per Run 2	163.751 ppm	241.449 ppm	242.149 ppm
Concentration per Run 3	165.474 ppm	243.761 ppm	244.396 ppm
Concentration RSD	0.5 %	0.5 %	0.5 %
Concentration SD	0.9 ppm	1.3 ppm	1.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	91.096 ppm	250.602 ppm	782.218 ppm
Concentration per Run 1	90.790 ppm	250.209 ppm	775.040 ppm
Concentration per Run 2	90.921 ppm	249.703 ppm	793.721 ppm
Concentration per Run 3	91.575 ppm	251.892 ppm	777.894 ppm
Concentration RSD	0.5 %	0.5 %	1.3 %
Concentration SD	0.4 ppm	1.1 ppm	10.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	121.823 ppm	118.835 ppm	43.629 ppm
Concentration per Run 1	121.269 ppm	118.405 ppm	43.269 ppm
Concentration per Run 2	121.514 ppm	118.302 ppm	44.324 ppm
Concentration per Run 3	122.685 ppm	119.796 ppm	43.295 ppm
Concentration RSD	0.6 %	0.7 %	1.4 %
Concentration SD	0.8 ppm	0.8 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	120.516 ppm	326.753 ppm	104.640 %
Concentration per Run 1	118.797 ppm	322.043 ppm	103.159 %
Concentration per Run 2	121.675 ppm	330.144 ppm	105.442 %
Concentration per Run 3	121.075 ppm	328.073 ppm	105.318 %
Concentration RSD	1.3 %	1.3 %	1.2 %
Concentration SD	1.5 ppm	4.2 ppm	1.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.781 %	82.516 %	96.480 %
Concentration per Run 1	95.411 %	82.931 %	97.068 %
Concentration per Run 2	94.621 %	82.546 %	95.756 %
Concentration per Run 3	94.311 %	82.071 %	96.615 %
Concentration RSD	0.6 %	0.5 %	0.7 %
Concentration SD	0.6 %	0.4 %	0.7 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	579.700 ppm	169.858 ppm	200.865 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	589.953 ppm	169.762 ppm	200.605 ppm
Concentration per Run 2	576.353 ppm	169.329 ppm	200.036 ppm
Concentration per Run 3	572.793 ppm	170.481 ppm	201.953 ppm
Concentration RSD	1.6 %	0.3 %	0.5 %
Concentration SD	9.1 ppm	0.6 ppm	1.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	125.248 ppm
Concentration per Run 1	127.879 ppm
Concentration per Run 2	123.614 ppm
Concentration per Run 3	124.252 ppm
Concentration RSD	1.8 %
Concentration SD	2.3 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4,174 cps	404 cps	18,383 cps	41,987 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	16,911 cps	54,132 cps	3,403 cps	16,293 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,235 cps	1,732 cps	11,083 cps	49,836 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	3,292 cps	753 cps	5,204 cps	2,527 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	747 cps	927 cps	936 cps	941 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	16,033 cps	3,290 cps	515 cps	20,503 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	721 cps	397 cps	3,748 cps	7,419 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	161,542 cps	6,190 cps	9,239 cps	2,966 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,753 cps	384 cps	5,541 cps	10,009 cps

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	Cu 324.754 {104} (Radial)
Intensity average	1,120 cps

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L729802-01 WG752285

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Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	485.951 ppm	0.022 ppm	0.018 ppm
Concentration per Run 1	506.065 ppm	1.276 ppm	0.060 ppm
Concentration per Run 2	480.325 ppm	-2.220 ppm	0.007 ppm
Concentration per Run 3	471.463 ppm	1.010 ppm	-0.013 ppm
Concentration RSD	3.7 %	8,805.0 %	211.6 %
Concentration SD	18.0 ppm	1.9 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	183,254.205 ppm	198,383.664 ppm	347.308 ppm
Concentration per Run 1	182,774.963 ppm	198,134.024 ppm	348.218 ppm
Concentration per Run 2	184,312.697 ppm	199,530.025 ppm	350.496 ppm
Concentration per Run 3	182,674.956 ppm	197,486.943 ppm	343.210 ppm
Concentration RSD	0.5 %	0.5 %	1.1 %
Concentration SD	918.0 ppm	1,044.2 ppm	3.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	386.788 ppm	139.648 ppm	8.034 ppm
Concentration per Run 1	347.752 ppm	137.323 ppm	7.976 ppm
Concentration per Run 2	409.522 ppm	140.549 ppm	7.961 ppm
Concentration per Run 3	403.091 ppm	141.071 ppm	8.165 ppm
Concentration RSD	8.8 %	1.5 %	1.4 %
Concentration SD	34.0 ppm	2.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,170.228 ppm	153.964 ppm	929.222 ppm
Concentration per Run 1	1,190.792 ppm	155.519 ppm	938.426 ppm
Concentration per Run 2	1,172.623 ppm	155.626 ppm	931.892 ppm
Concentration per Run 3	1,147.269 ppm	150.748 ppm	917.349 ppm
Concentration RSD	1.9 %	1.8 %	1.2 %
Concentration SD	21.9 ppm	2.8 ppm	10.8 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	15.638 ppm	1.758 ppm	0.575 ppm
Concentration per Run 1	15.826 ppm	0.764 ppm	0.716 ppm
Concentration per Run 2	15.570 ppm	1.819 ppm	0.608 ppm
Concentration per Run 3	15.518 ppm	2.692 ppm	0.402 ppm
Concentration RSD	1.1 %	54.9 %	27.7 %
Concentration SD	0.2 ppm	1.0 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.508 ppm	0.283 ppm	-0.498 ppm
Concentration per Run 1	0.392 ppm	0.831 ppm	-0.503 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.503 ppm	0.659 ppm	-0.517 ppm
Concentration per Run 3	0.630 ppm	-0.640 ppm	-0.475 ppm
Concentration RSD	23.5 %	284.0 %	4.3 %
Concentration SD	0.1 ppm	0.8 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.080 ppm	0.945 ppm	5.501 ppm
Concentration per Run 1	-1.255 ppm	0.495 ppm	5.532 ppm
Concentration per Run 2	-0.734 ppm	0.987 ppm	5.394 ppm
Concentration per Run 3	-1.252 ppm	1.354 ppm	5.576 ppm
Concentration RSD	27.7 %	45.6 %	1.7 %
Concentration SD	0.3 ppm	0.4 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.183 ppm	143,453.412 ppm	245.402 ppm
Concentration per Run 1	0.180 ppm	143,422.204 ppm	246.180 ppm
Concentration per Run 2	0.176 ppm	143,178.074 ppm	246.027 ppm
Concentration per Run 3	0.192 ppm	143,759.958 ppm	243.999 ppm
Concentration RSD	4.5 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	292.2 ppm	1.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.026 ppm	1.041 ppm	-0.249 ppm
Concentration per Run 1	-0.393 ppm	1.536 ppm	-0.666 ppm
Concentration per Run 2	0.510 ppm	-0.452 ppm	0.051 ppm
Concentration per Run 3	-0.194 ppm	2.039 ppm	-0.133 ppm
Concentration RSD	1,833.3 %	126.6 %	149.3 %
Concentration SD	0.5 ppm	1.3 ppm	0.4 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.713 ppm	8.344 ppm	97.757 %
Concentration per Run 1	0.546 ppm	8.353 ppm	97.070 %
Concentration per Run 2	0.983 ppm	8.356 ppm	97.620 %
Concentration per Run 3	0.611 ppm	8.323 ppm	98.580 %
Concentration RSD	33.0 %	0.2 %	0.8 %
Concentration SD	0.2 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.689 %	81.452 %	89.647 %
Concentration per Run 1	89.446 %	81.272 %	89.871 %
Concentration per Run 2	90.264 %	81.921 %	89.592 %
Concentration per Run 3	89.356 %	81.162 %	89.478 %
Concentration RSD	0.6 %	0.5 %	0.2 %
Concentration SD	0.5 %	0.4 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	136.323 ppm	0.948 ppm	0.130 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	125.601 ppm	0.947 ppm	0.086 ppm
Concentration per Run 2	177.818 ppm	1.011 ppm	0.098 ppm
Concentration per Run 3	105.552 ppm	0.887 ppm	0.207 ppm
Concentration RSD	27.4 %	6.6 %	51.2 %
Concentration SD	37.3 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.336 ppm
Concentration per Run 1	1.894 ppm
Concentration per Run 2	2.093 ppm
Concentration per Run 3	0.020 ppm
Concentration RSD	85.7 %
Concentration SD	1.1 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	51 cps	1 cps	1 cps	224,646 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	91,671 cps	322 cps	21 cps	163 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	209 cps	146 cps	627 cps	70,671 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	86 cps	3 cps	3 cps	3 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	0 cps	-5 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	74 cps	4 cps	58,860 cps	1,288 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	3 cps	-3 cps	15 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	817 cps	5,783 cps	8,742 cps	2,928 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	143,792 cps	-131 cps	7 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	8 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	400.991 ppm	0.025 ppm	-0.179 ppm
Concentration per Run 1	447.098 ppm	-7.574 ppm	-0.144 ppm
Concentration per Run 2	397.280 ppm	-0.959 ppm	-0.056 ppm
Concentration per Run 3	358.595 ppm	8.608 ppm	-0.337 ppm
Concentration RSD	11.1 %	32,250.7 %	80.2 %
Concentration SD	44.4 ppm	8.1 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	186,896.188 ppm	197,494.487 ppm	348.003 ppm
Concentration per Run 1	187,058.690 ppm	197,466.055 ppm	348.153 ppm
Concentration per Run 2	186,726.124 ppm	197,357.583 ppm	342.090 ppm
Concentration per Run 3	186,903.752 ppm	197,659.823 ppm	353.765 ppm
Concentration RSD	0.1 %	0.1 %	1.7 %
Concentration SD	166.4 ppm	153.1 ppm	5.8 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	450.543 ppm	129.977 ppm	7.262 ppm
Concentration per Run 1	390.710 ppm	108.087 ppm	6.990 ppm
Concentration per Run 2	440.570 ppm	138.278 ppm	7.107 ppm
Concentration per Run 3	520.348 ppm	143.567 ppm	7.689 ppm
Concentration RSD	14.5 %	14.7 %	5.2 %
Concentration SD	65.4 ppm	19.1 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,180.186 ppm	170.002 ppm	921.468 ppm
Concentration per Run 1	1,142.052 ppm	171.409 ppm	922.172 ppm
Concentration per Run 2	1,207.772 ppm	170.124 ppm	921.853 ppm
Concentration per Run 3	1,190.733 ppm	168.472 ppm	920.378 ppm
Concentration RSD	2.9 %	0.9 %	0.1 %
Concentration SD	34.1 ppm	1.5 ppm	1.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	25.834 ppm	1.498 ppm	-0.659 ppm
Concentration per Run 1	24.843 ppm	-4.401 ppm	-0.814 ppm
Concentration per Run 2	26.488 ppm	2.997 ppm	-0.639 ppm
Concentration per Run 3	26.170 ppm	5.898 ppm	-0.524 ppm
Concentration RSD	3.4 %	354.6 %	22.2 %
Concentration SD	0.9 ppm	5.3 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	-0.263 ppm	1.484 ppm	-1.575 ppm
Concentration per Run 1	-0.190 ppm	1.484 ppm	-2.916 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	-0.543 ppm	1.851 ppm	-0.154 ppm
Concentration per Run 3	-0.055 ppm	1.116 ppm	-1.656 ppm
Concentration RSD	96.0 %	24.8 %	87.8 %
Concentration SD	0.3 ppm	0.4 ppm	1.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-3.323 ppm	-3.655 ppm	5.458 ppm
Concentration per Run 1	-6.038 ppm	-3.560 ppm	5.282 ppm
Concentration per Run 2	-2.797 ppm	-3.873 ppm	5.619 ppm
Concentration per Run 3	-1.134 ppm	-3.532 ppm	5.473 ppm
Concentration RSD	75.1 %	5.2 %	3.1 %
Concentration SD	2.5 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.475 ppm	139,390.604 ppm	247.784 ppm
Concentration per Run 1	0.489 ppm	139,615.966 ppm	248.555 ppm
Concentration per Run 2	0.447 ppm	139,164.870 ppm	245.176 ppm
Concentration per Run 3	0.488 ppm	139,390.975 ppm	249.621 ppm
Concentration RSD	5.0 %	0.2 %	0.9 %
Concentration SD	0.0 ppm	225.5 ppm	2.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-1.071 ppm	3.213 ppm	-1.170 ppm
Concentration per Run 1	0.460 ppm	2.370 ppm	-0.250 ppm
Concentration per Run 2	-2.016 ppm	4.081 ppm	-1.873 ppm
Concentration per Run 3	-1.658 ppm	3.190 ppm	-1.388 ppm
Concentration RSD	124.9 %	26.6 %	71.2 %
Concentration SD	1.3 ppm	0.9 ppm	0.8 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.090 ppm	8.634 ppm	100.942 %
Concentration per Run 1	1.076 ppm	8.265 ppm	100.746 %
Concentration per Run 2	0.947 ppm	8.680 ppm	101.318 %
Concentration per Run 3	1.249 ppm	8.958 ppm	100.763 %
Concentration RSD	13.9 %	4.0 %	0.3 %
Concentration SD	0.2 ppm	0.3 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	95.896 %	92.869 %	96.470 %
Concentration per Run 1	95.993 %	92.920 %	96.244 %
Concentration per Run 2	95.643 %	92.639 %	96.181 %
Concentration per Run 3	96.051 %	93.048 %	96.985 %
Concentration RSD	0.2 %	0.2 %	0.5 %
Concentration SD	0.2 %	0.2 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	232.687 ppm	0.185 ppm	0.316 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	236.547 ppm	0.048 ppm	0.347 ppm
Concentration per Run 2	194.689 ppm	0.229 ppm	0.152 ppm
Concentration per Run 3	266.826 ppm	0.279 ppm	0.448 ppm
Concentration RSD	15.6 %	65.5 %	47.7 %
Concentration SD	36.2 ppm	0.1 ppm	0.2 ppm

	Cu 324.754 {104} (Radial)
Concentration average	4.343 ppm
Concentration per Run 1	4.011 ppm
Concentration per Run 2	7.176 ppm
Concentration per Run 3	1.842 ppm
Concentration RSD	61.8 %
Concentration SD	2.7 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	13 cps	2 cps	-1 cps	47,351 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	18,855 cps	68 cps	6 cps	31 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	18 cps	30 cps	143 cps	14,473 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	30 cps	1 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-6 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	17 cps	3 cps	12,232 cps	299 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	3 cps	-3 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	185 cps	5,972 cps	9,347 cps	3,338 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	154,737 cps	-153 cps	1 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	891.446 ppm	473.910 ppm	467.248 ppm
Concentration per Run 1	906.330 ppm	474.400 ppm	468.220 ppm
Concentration per Run 2	859.549 ppm	474.318 ppm	467.183 ppm
Concentration per Run 3	908.459 ppm	473.013 ppm	466.339 ppm
Concentration RSD	3.1 %	0.2 %	0.2 %
Concentration SD	27.6 ppm	0.8 ppm	0.9 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	185,757.996 ppm	201,440.028 ppm	797.261 ppm
Concentration per Run 1	185,967.881 ppm	201,275.022 ppm	795.687 ppm
Concentration per Run 2	185,531.794 ppm	201,244.247 ppm	797.882 ppm
Concentration per Run 3	185,774.314 ppm	201,800.815 ppm	798.215 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	218.5 ppm	312.8 ppm	1.4 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	923.679 ppm	4,920.941 ppm	494.260 ppm
Concentration per Run 1	912.050 ppm	4,924.495 ppm	494.119 ppm
Concentration per Run 2	933.411 ppm	4,902.273 ppm	493.918 ppm
Concentration per Run 3	925.575 ppm	4,936.055 ppm	494.743 ppm
Concentration RSD	1.2 %	0.3 %	0.1 %
Concentration SD	10.8 ppm	17.2 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	5,638.554 ppm	4,974.114 ppm	1,390.997 ppm
Concentration per Run 1	5,638.245 ppm	4,973.155 ppm	1,389.488 ppm
Concentration per Run 2	5,664.271 ppm	4,967.793 ppm	1,390.201 ppm
Concentration per Run 3	5,613.146 ppm	4,981.393 ppm	1,393.302 ppm
Concentration RSD	0.5 %	0.1 %	0.1 %
Concentration SD	25.6 ppm	6.9 ppm	2.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	475.709 ppm	483.197 ppm	491.221 ppm
Concentration per Run 1	477.481 ppm	482.673 ppm	491.760 ppm
Concentration per Run 2	475.505 ppm	482.931 ppm	488.726 ppm
Concentration per Run 3	474.140 ppm	483.986 ppm	493.178 ppm
Concentration RSD	0.4 %	0.1 %	0.5 %
Concentration SD	1.7 ppm	0.7 ppm	2.3 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	480.327 ppm	468.982 ppm	465.297 ppm
Concentration per Run 1	480.873 ppm	469.674 ppm	466.581 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	477.269 ppm	466.849 ppm	461.200 ppm
Concentration per Run 3	482.840 ppm	470.423 ppm	468.111 ppm
Concentration RSD	0.6 %	0.4 %	0.8 %
Concentration SD	2.8 ppm	1.9 ppm	3.6 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	459.711 ppm	510.981 ppm	481.000 ppm
Concentration per Run 1	460.880 ppm	507.350 ppm	480.084 ppm
Concentration per Run 2	458.171 ppm	509.983 ppm	478.402 ppm
Concentration per Run 3	460.081 ppm	515.609 ppm	484.515 ppm
Concentration RSD	0.3 %	0.8 %	0.7 %
Concentration SD	1.4 ppm	4.2 ppm	3.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	477.375 ppm	143,570.351 ppm	747.631 ppm
Concentration per Run 1	474.870 ppm	143,088.031 ppm	745.234 ppm
Concentration per Run 2	474.942 ppm	142,961.314 ppm	745.092 ppm
Concentration per Run 3	482.313 ppm	144,661.707 ppm	752.567 ppm
Concentration RSD	0.9 %	0.7 %	0.6 %
Concentration SD	4.3 ppm	947.3 ppm	4.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	505.989 ppm	533.956 ppm	173.174 ppm
Concentration per Run 1	503.722 ppm	529.844 ppm	167.317 ppm
Concentration per Run 2	502.964 ppm	532.311 ppm	178.051 ppm
Concentration per Run 3	511.281 ppm	539.713 ppm	174.154 ppm
Concentration RSD	0.9 %	1.0 %	3.1 %
Concentration SD	4.6 ppm	5.1 ppm	5.4 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	462.221 ppm	468.274 ppm	98.611 %
Concentration per Run 1	459.829 ppm	466.472 ppm	98.380 %
Concentration per Run 2	459.099 ppm	467.854 ppm	98.547 %
Concentration per Run 3	467.734 ppm	470.496 ppm	98.906 %
Concentration RSD	1.0 %	0.4 %	0.3 %
Concentration SD	4.8 ppm	2.0 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.720 %	80.281 %	89.795 %
Concentration per Run 1	89.583 %	80.756 %	89.725 %
Concentration per Run 2	88.853 %	80.451 %	89.766 %
Concentration per Run 3	87.725 %	79.637 %	89.893 %
Concentration RSD	1.1 %	0.7 %	0.1 %
Concentration SD	0.9 %	0.6 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5,028.139 ppm	461.489 ppm	505.089 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	5,083.385 ppm	462.575 ppm	503.007 ppm
Concentration per Run 2	5,029.510 ppm	458.133 ppm	503.199 ppm
Concentration per Run 3	4,971.523 ppm	463.759 ppm	509.060 ppm
Concentration RSD	1.1 %	0.6 %	0.7 %
Concentration SD	55.9 ppm	3.0 ppm	3.4 ppm

	Cu 324.754 {104} (Radial)
Concentration average	481.581 ppm
Concentration per Run 1	482.628 ppm
Concentration per Run 2	482.360 ppm
Concentration per Run 3	479.756 ppm
Concentration RSD	0.3 %
Concentration SD	1.6 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	90 cps	331 cps	18,115 cps	229,706 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	93,898 cps	742 cps	49 cps	5,805 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,480 cps	713 cps	20,426 cps	106,723 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,625 cps	620 cps	2,813 cps	2,026 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	688 cps	821 cps	537 cps	392 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	6,296 cps	3,420 cps	58,270 cps	3,884 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	594 cps	354 cps	2,936 cps	5,616 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	45,684 cps	5,834 cps	8,648 cps	2,886 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	144,030 cps	798 cps	2,988 cps	4,997 cps

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	Cu 324.754 {104} (Radial)
Intensity average	861 cps

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MS L729802-01 WG752285

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	636.295 ppm	95.622 ppm	94.316 ppm
Concentration per Run 1	645.324 ppm	96.450 ppm	94.502 ppm
Concentration per Run 2	641.261 ppm	93.586 ppm	93.913 ppm
Concentration per Run 3	622.299 ppm	96.829 ppm	94.534 ppm
Concentration RSD	1.9 %	1.9 %	0.4 %
Concentration SD	12.3 ppm	1.8 ppm	0.4 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	178,654.632 ppm	193,646.286 ppm	503.537 ppm
Concentration per Run 1	179,192.451 ppm	194,606.017 ppm	502.671 ppm
Concentration per Run 2	177,019.528 ppm	192,206.225 ppm	504.370 ppm
Concentration per Run 3	179,751.917 ppm	194,126.617 ppm	503.570 ppm
Concentration RSD	0.8 %	0.7 %	0.2 %
Concentration SD	1,443.4 ppm	1,270.0 ppm	0.9 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	568.424 ppm	1,112.804 ppm	105.710 ppm
Concentration per Run 1	544.334 ppm	1,124.801 ppm	106.281 ppm
Concentration per Run 2	570.906 ppm	1,099.822 ppm	105.849 ppm
Concentration per Run 3	590.034 ppm	1,113.790 ppm	105.001 ppm
Concentration RSD	4.0 %	1.1 %	0.6 %
Concentration SD	23.0 ppm	12.5 ppm	0.7 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,099.042 ppm	1,124.162 ppm	994.042 ppm
Concentration per Run 1	2,118.210 ppm	1,127.854 ppm	997.712 ppm
Concentration per Run 2	2,089.664 ppm	1,124.687 ppm	995.390 ppm
Concentration per Run 3	2,089.251 ppm	1,119.945 ppm	989.023 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %
Concentration SD	16.6 ppm	4.0 ppm	4.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	109.781 ppm	98.320 ppm	99.670 ppm
Concentration per Run 1	109.583 ppm	97.529 ppm	99.731 ppm
Concentration per Run 2	109.879 ppm	98.409 ppm	99.851 ppm
Concentration per Run 3	109.880 ppm	99.022 ppm	99.430 ppm
Concentration RSD	0.2 %	0.8 %	0.2 %
Concentration SD	0.2 ppm	0.8 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	97.457 ppm	95.082 ppm	94.415 ppm
Concentration per Run 1	97.037 ppm	95.173 ppm	93.920 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	97.678 ppm	95.216 ppm	94.923 ppm
Concentration per Run 3	97.655 ppm	94.858 ppm	94.401 ppm
Concentration RSD	0.4 %	0.2 %	0.5 %
Concentration SD	0.4 ppm	0.2 ppm	0.5 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	91.354 ppm	102.074 ppm	101.698 ppm
Concentration per Run 1	91.605 ppm	104.094 ppm	101.945 ppm
Concentration per Run 2	92.270 ppm	101.054 ppm	101.671 ppm
Concentration per Run 3	90.186 ppm	101.074 ppm	101.479 ppm
Concentration RSD	1.2 %	1.7 %	0.2 %
Concentration SD	1.1 ppm	1.7 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	94.962 ppm	137,039.450 ppm	538.337 ppm
Concentration per Run 1	95.469 ppm	137,306.533 ppm	536.157 ppm
Concentration per Run 2	94.784 ppm	137,059.656 ppm	540.706 ppm
Concentration per Run 3	94.631 ppm	136,752.160 ppm	538.149 ppm
Concentration RSD	0.5 %	0.2 %	0.4 %
Concentration SD	0.4 ppm	277.7 ppm	2.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	97.756 ppm	105.329 ppm	51.269 ppm
Concentration per Run 1	98.453 ppm	106.420 ppm	50.816 ppm
Concentration per Run 2	97.379 ppm	104.463 ppm	51.086 ppm
Concentration per Run 3	97.437 ppm	105.103 ppm	51.906 ppm
Concentration RSD	0.6 %	0.9 %	1.1 %
Concentration SD	0.6 ppm	1.0 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	94.773 ppm	104.515 ppm	99.114 %
Concentration per Run 1	94.820 ppm	104.392 ppm	98.327 %
Concentration per Run 2	94.659 ppm	104.526 ppm	99.613 %
Concentration per Run 3	94.841 ppm	104.626 ppm	99.403 %
Concentration RSD	0.1 %	0.1 %	0.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.743 %	83.398 %	91.472 %
Concentration per Run 1	92.166 %	83.160 %	91.570 %
Concentration per Run 2	92.965 %	83.413 %	91.500 %
Concentration per Run 3	93.097 %	83.620 %	91.346 %
Concentration RSD	0.5 %	0.3 %	0.1 %
Concentration SD	0.5 %	0.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,130.384 ppm	94.762 ppm	100.230 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,153.162 ppm	94.381 ppm	100.401 ppm
Concentration per Run 2	1,155.752 ppm	94.914 ppm	100.347 ppm
Concentration per Run 3	1,082.237 ppm	94.990 ppm	99.941 ppm
Concentration RSD	3.7 %	0.4 %	0.3 %
Concentration SD	41.7 ppm	0.3 ppm	0.3 ppm

	Cu 324.754 {104} (Radial)
Concentration average	98.575 ppm
Concentration per Run 1	98.395 ppm
Concentration per Run 2	98.455 ppm
Concentration per Run 3	98.876 ppm
Concentration RSD	0.3 %
Concentration SD	0.3 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	66 cps	68 cps	3,675 cps	222,048 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	90,724 cps	472 cps	31 cps	1,319 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,093 cps	267 cps	4,640 cps	76,655 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	609 cps	127 cps	593 cps	428 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	144 cps	174 cps	107 cps	80 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,393 cps	713 cps	58,144 cps	2,855 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	122 cps	75 cps	886 cps	1,178 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10,390 cps	5,864 cps	9,040 cps	2,998 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,720 cps	57 cps	642 cps	1,041 cps

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	Cu 324.754 {104} (Radial)
Intensity average	182 cps

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MSD L729802-01 WG752285

Sample Type UNKNOWN Analysis Date 11/5/2014 3:14:22 PM

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	480.739 ppm	106.454 ppm	105.917 ppm
Concentration per Run 1	490.259 ppm	101.621 ppm	103.524 ppm
Concentration per Run 2	511.902 ppm	120.581 ppm	115.249 ppm
Concentration per Run 3	440.057 ppm	97.159 ppm	98.977 ppm
Concentration RSD	7.7 %	11.7 %	7.9 %
Concentration SD	36.9 ppm	12.4 ppm	8.4 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	184,194.349 ppm	198,056.558 ppm	376.928 ppm
Concentration per Run 1	179,195.972 ppm	192,609.144 ppm	362.765 ppm
Concentration per Run 2	200,857.454 ppm	216,263.256 ppm	411.953 ppm
Concentration per Run 3	172,529.621 ppm	185,297.274 ppm	356.065 ppm
Concentration RSD	8.0 %	8.2 %	8.1 %
Concentration SD	14,810.6 ppm	16,185.8 ppm	30.5 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	436.335 ppm	1,195.271 ppm	117.076 ppm
Concentration per Run 1	429.793 ppm	1,165.112 ppm	114.444 ppm
Concentration per Run 2	436.088 ppm	1,311.771 ppm	127.597 ppm
Concentration per Run 3	443.124 ppm	1,108.929 ppm	109.185 ppm
Concentration RSD	1.5 %	8.8 %	8.1 %
Concentration SD	6.7 ppm	104.7 ppm	9.5 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,192.029 ppm	1,239.509 ppm	1,038.488 ppm
Concentration per Run 1	2,135.249 ppm	1,206.603 ppm	1,009.918 ppm
Concentration per Run 2	2,387.389 ppm	1,358.211 ppm	1,135.881 ppm
Concentration per Run 3	2,053.450 ppm	1,153.713 ppm	969.663 ppm
Concentration RSD	7.9 %	8.6 %	8.3 %
Concentration SD	174.1 ppm	106.1 ppm	86.7 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	117.299 ppm	110.420 ppm	110.577 ppm
Concentration per Run 1	114.233 ppm	106.867 ppm	110.396 ppm
Concentration per Run 2	127.690 ppm	119.966 ppm	110.714 ppm
Concentration per Run 3	109.973 ppm	104.427 ppm	110.620 ppm
Concentration RSD	7.9 %	7.6 %	0.1 %
Concentration SD	9.2 ppm	8.4 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	108.678 ppm	105.962 ppm	103.639 ppm
Concentration per Run 1	108.562 ppm	105.551 ppm	103.913 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	108.717 ppm	107.602 ppm	103.380 ppm
Concentration per Run 3	108.754 ppm	104.732 ppm	103.623 ppm
Concentration RSD	0.1 %	1.4 %	0.3 %
Concentration SD	0.1 ppm	1.5 ppm	0.3 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	102.464 ppm	113.134 ppm	112.410 ppm
Concentration per Run 1	103.231 ppm	112.984 ppm	112.280 ppm
Concentration per Run 2	102.534 ppm	113.034 ppm	112.787 ppm
Concentration per Run 3	101.629 ppm	113.385 ppm	112.163 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %
Concentration SD	0.8 ppm	0.2 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	106.729 ppm	141,049.134 ppm	558.499 ppm
Concentration per Run 1	106.758 ppm	140,907.868 ppm	556.072 ppm
Concentration per Run 2	106.898 ppm	141,649.843 ppm	559.291 ppm
Concentration per Run 3	106.531 ppm	140,589.691 ppm	560.133 ppm
Concentration RSD	0.2 %	0.4 %	0.4 %
Concentration SD	0.2 ppm	544.0 ppm	2.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	109.847 ppm	119.020 ppm	36.943 ppm
Concentration per Run 1	110.253 ppm	118.471 ppm	37.270 ppm
Concentration per Run 2	110.287 ppm	120.020 ppm	36.293 ppm
Concentration per Run 3	109.002 ppm	118.568 ppm	37.266 ppm
Concentration RSD	0.7 %	0.7 %	1.5 %
Concentration SD	0.7 ppm	0.9 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	105.928 ppm	113.750 ppm	98.139 %
Concentration per Run 1	105.906 ppm	113.300 ppm	99.950 %
Concentration per Run 2	106.257 ppm	113.383 ppm	91.145 %
Concentration per Run 3	105.621 ppm	114.566 ppm	103.322 %
Concentration RSD	0.3 %	0.6 %	6.4 %
Concentration SD	0.3 ppm	0.7 ppm	6.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.588 %	83.109 %	90.747 %
Concentration per Run 1	91.726 %	83.159 %	90.514 %
Concentration per Run 2	91.030 %	82.725 %	91.271 %
Concentration per Run 3	92.008 %	83.443 %	90.456 %
Concentration RSD	0.5 %	0.4 %	0.5 %
Concentration SD	0.5 %	0.4 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,275.379 ppm	105.182 ppm	112.407 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,260.158 ppm	105.213 ppm	112.473 ppm
Concentration per Run 2	1,334.863 ppm	105.269 ppm	113.051 ppm
Concentration per Run 3	1,231.115 ppm	105.063 ppm	111.698 ppm
Concentration RSD	4.2 %	0.1 %	0.6 %
Concentration SD	53.5 ppm	0.1 ppm	0.7 ppm

	Cu 324.754 {104} (Radial)
Concentration average	110.372 ppm
Concentration per Run 1	108.129 ppm
Concentration per Run 2	120.036 ppm
Concentration per Run 3	102.950 ppm
Concentration RSD	7.9 %
Concentration SD	8.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	46 cps	68 cps	3,689 cps	204,598 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	82,922 cps	316 cps	21 cps	1,266 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,061 cps	249 cps	4,571 cps	71,559 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	582 cps	128 cps	593 cps	430 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	145 cps	172 cps	109 cps	79 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,377 cps	717 cps	53,524 cps	2,663 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	122 cps	76 cps	574 cps	1,183 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10,160 cps	5,806 cps	8,927 cps	2,987 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	145,558 cps	61 cps	637 cps	1,044 cps

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	Cu 324.754 {104} (Radial)
Intensity average	182 cps

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L729802-03 WG752285

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	678.470 ppm	-0.602 ppm	-0.040 ppm
Concentration per Run 1	678.079 ppm	-0.673 ppm	-0.022 ppm
Concentration per Run 2	694.348 ppm	-1.327 ppm	-0.033 ppm
Concentration per Run 3	662.983 ppm	0.195 ppm	-0.065 ppm
Concentration RSD	2.3 %	126.9 %	56.3 %
Concentration SD	15.7 ppm	0.8 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	175,248.225 ppm	189,454.535 ppm	545.986 ppm
Concentration per Run 1	174,183.559 ppm	188,588.801 ppm	543.914 ppm
Concentration per Run 2	177,438.700 ppm	191,415.037 ppm	552.452 ppm
Concentration per Run 3	174,122.416 ppm	188,359.766 ppm	541.592 ppm
Concentration RSD	1.1 %	0.9 %	1.0 %
Concentration SD	1,897.3 ppm	1,701.7 ppm	5.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	606.786 ppm	198.792 ppm	6.046 ppm
Concentration per Run 1	596.980 ppm	193.533 ppm	6.236 ppm
Concentration per Run 2	623.179 ppm	207.500 ppm	5.764 ppm
Concentration per Run 3	600.200 ppm	195.342 ppm	6.140 ppm
Concentration RSD	2.4 %	3.8 %	4.1 %
Concentration SD	14.3 ppm	7.6 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2,771.406 ppm	178.116 ppm	1,415.492 ppm
Concentration per Run 1	2,791.392 ppm	177.265 ppm	1,424.874 ppm
Concentration per Run 2	2,792.675 ppm	179.397 ppm	1,415.460 ppm
Concentration per Run 3	2,730.149 ppm	177.684 ppm	1,406.142 ppm
Concentration RSD	1.3 %	0.6 %	0.7 %
Concentration SD	35.7 ppm	1.1 ppm	9.4 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	20.667 ppm	3.009 ppm	0.356 ppm
Concentration per Run 1	20.545 ppm	2.862 ppm	0.408 ppm
Concentration per Run 2	21.188 ppm	3.771 ppm	0.378 ppm
Concentration per Run 3	20.269 ppm	2.393 ppm	0.282 ppm
Concentration RSD	2.3 %	23.3 %	18.4 %
Concentration SD	0.5 ppm	0.7 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.497 ppm	0.183 ppm	-0.451 ppm
Concentration per Run 1	0.437 ppm	0.505 ppm	-0.180 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.471 ppm	-0.254 ppm	-0.204 ppm
Concentration per Run 3	0.582 ppm	0.297 ppm	-0.968 ppm
Concentration RSD	15.2 %	214.5 %	99.4 %
Concentration SD	0.1 ppm	0.4 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.549 ppm	1.928 ppm	13.395 ppm
Concentration per Run 1	0.542 ppm	2.096 ppm	13.259 ppm
Concentration per Run 2	-1.269 ppm	2.161 ppm	13.450 ppm
Concentration per Run 3	-0.919 ppm	1.526 ppm	13.476 ppm
Concentration RSD	175.0 %	18.1 %	0.9 %
Concentration SD	1.0 ppm	0.3 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.012 ppm	129,264.981 ppm	371.483 ppm
Concentration per Run 1	-0.004 ppm	129,200.657 ppm	370.995 ppm
Concentration per Run 2	-0.052 ppm	129,034.385 ppm	371.535 ppm
Concentration per Run 3	0.092 ppm	129,559.899 ppm	371.918 ppm
Concentration RSD	623.5 %	0.2 %	0.1 %
Concentration SD	0.1 ppm	268.6 ppm	0.5 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.309 ppm	0.584 ppm	-0.258 ppm
Concentration per Run 1	0.126 ppm	-0.014 ppm	-0.248 ppm
Concentration per Run 2	-0.984 ppm	0.140 ppm	-0.092 ppm
Concentration per Run 3	-0.070 ppm	1.625 ppm	-0.434 ppm
Concentration RSD	191.4 %	155.0 %	66.2 %
Concentration SD	0.6 ppm	0.9 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.977 ppm	10.216 ppm	98.973 %
Concentration per Run 1	0.859 ppm	10.243 ppm	99.246 %
Concentration per Run 2	0.719 ppm	10.220 ppm	97.758 %
Concentration per Run 3	1.353 ppm	10.185 ppm	99.915 %
Concentration RSD	34.1 %	0.3 %	1.1 %
Concentration SD	0.3 ppm	0.0 ppm	1.1 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	91.933 %	83.396 %	91.485 %
Concentration per Run 1	92.099 %	83.446 %	90.850 %
Concentration per Run 2	91.208 %	83.108 %	91.755 %
Concentration per Run 3	92.491 %	83.634 %	91.850 %
Concentration RSD	0.7 %	0.3 %	0.6 %
Concentration SD	0.7 %	0.3 %	0.6 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	182.834 ppm	1.529 ppm	0.040 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	194.927 ppm	1.437 ppm	-0.026 ppm
Concentration per Run 2	146.457 ppm	1.537 ppm	0.087 ppm
Concentration per Run 3	207.117 ppm	1.612 ppm	0.060 ppm
Concentration RSD	17.6 %	5.8 %	147.0 %
Concentration SD	32.1 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.692 ppm
Concentration per Run 1	-0.316 ppm
Concentration per Run 2	0.085 ppm
Concentration per Run 3	2.305 ppm
Concentration RSD	204.1 %
Concentration SD	1.4 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	68 cps	1 cps	-1 cps	209,286 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	85,286 cps	492 cps	31 cps	226 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	146 cps	338 cps	707 cps	104,886 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	111 cps	4 cps	2 cps	3 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	0 cps	-5 cps	-1 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	176 cps	2 cps	52,315 cps	1,904 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	3 cps	-3 cps	18 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	981 cps	5,855 cps	8,961 cps	2,997 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	146,741 cps	-125 cps	10 cps	5 cps

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	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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L729802-04 WG752285

Sample Type UNKNOWN Analysis Date 11/5/2014 3:23:09 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	145.525 ppm	1.351 ppm	0.003 ppm
Concentration per Run 1	175.701 ppm	3.976 ppm	0.026 ppm
Concentration per Run 2	118.219 ppm	-0.045 ppm	-0.059 ppm
Concentration per Run 3	142.654 ppm	0.122 ppm	0.041 ppm
Concentration RSD	19.8 %	168.4 %	1,920.0 %
Concentration SD	28.8 ppm	2.3 ppm	0.1 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	173,614.200 ppm	186,700.738 ppm	103.060 ppm
Concentration per Run 1	174,147.863 ppm	186,724.671 ppm	102.448 ppm
Concentration per Run 2	174,302.920 ppm	186,954.062 ppm	103.789 ppm
Concentration per Run 3	172,391.818 ppm	186,423.480 ppm	102.944 ppm
Concentration RSD	0.6 %	0.1 %	0.7 %
Concentration SD	1,061.4 ppm	266.1 ppm	0.7 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	148.766 ppm	65.181 ppm	2.029 ppm
Concentration per Run 1	117.474 ppm	70.715 ppm	2.237 ppm
Concentration per Run 2	204.463 ppm	64.583 ppm	1.549 ppm
Concentration per Run 3	124.360 ppm	60.246 ppm	2.301 ppm
Concentration RSD	32.5 %	8.1 %	20.5 %
Concentration SD	48.4 ppm	5.3 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	877.248 ppm	151.008 ppm	1,290.948 ppm
Concentration per Run 1	879.381 ppm	150.604 ppm	1,278.360 ppm
Concentration per Run 2	886.171 ppm	150.451 ppm	1,287.512 ppm
Concentration per Run 3	866.191 ppm	151.969 ppm	1,306.971 ppm
Concentration RSD	1.2 %	0.6 %	1.1 %
Concentration SD	10.2 ppm	0.8 ppm	14.6 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	9.725 ppm	0.489 ppm	0.199 ppm
Concentration per Run 1	9.604 ppm	-1.332 ppm	0.108 ppm
Concentration per Run 2	10.089 ppm	2.014 ppm	0.296 ppm
Concentration per Run 3	9.481 ppm	0.786 ppm	0.192 ppm
Concentration RSD	3.3 %	346.2 %	47.5 %
Concentration SD	0.3 ppm	1.7 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.113 ppm	0.593 ppm	-0.605 ppm
Concentration per Run 1	0.008 ppm	0.468 ppm	-0.550 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.114 ppm	0.124 ppm	-0.641 ppm
Concentration per Run 3	0.217 ppm	1.186 ppm	-0.623 ppm
Concentration RSD	92.9 %	91.5 %	8.0 %
Concentration SD	0.1 ppm	0.5 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-1.030 ppm	0.174 ppm	5.797 ppm
Concentration per Run 1	-1.414 ppm	0.186 ppm	5.731 ppm
Concentration per Run 2	-1.003 ppm	-0.328 ppm	5.788 ppm
Concentration per Run 3	-0.674 ppm	0.663 ppm	5.872 ppm
Concentration RSD	36.0 %	285.4 %	1.2 %
Concentration SD	0.4 ppm	0.5 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.105 ppm	127,921.621 ppm	107.360 ppm
Concentration per Run 1	0.067 ppm	128,048.839 ppm	108.327 ppm
Concentration per Run 2	0.119 ppm	127,549.079 ppm	106.706 ppm
Concentration per Run 3	0.129 ppm	128,166.945 ppm	107.048 ppm
Concentration RSD	31.6 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	328.0 ppm	0.9 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.103 ppm	0.323 ppm	-0.302 ppm
Concentration per Run 1	-0.701 ppm	1.374 ppm	-0.458 ppm
Concentration per Run 2	0.398 ppm	0.260 ppm	-0.164 ppm
Concentration per Run 3	-0.007 ppm	-0.665 ppm	-0.283 ppm
Concentration RSD	537.3 %	316.3 %	49.0 %
Concentration SD	0.6 ppm	1.0 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.385 ppm	4.325 ppm	100.304 %
Concentration per Run 1	0.308 ppm	4.323 ppm	99.776 %
Concentration per Run 2	0.515 ppm	4.352 ppm	100.770 %
Concentration per Run 3	0.331 ppm	4.300 ppm	100.365 %
Concentration RSD	29.5 %	0.6 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.5 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	92.323 %	84.312 %	92.340 %
Concentration per Run 1	92.361 %	84.120 %	91.613 %
Concentration per Run 2	93.541 %	85.049 %	92.666 %
Concentration per Run 3	91.068 %	83.768 %	92.740 %
Concentration RSD	1.3 %	0.8 %	0.7 %
Concentration SD	1.2 %	0.7 %	0.6 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	151.945 ppm	0.385 ppm	0.030 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	145.184 ppm	0.298 ppm	0.037 ppm
Concentration per Run 2	165.559 ppm	0.540 ppm	0.020 ppm
Concentration per Run 3	145.091 ppm	0.315 ppm	0.035 ppm
Concentration RSD	7.8 %	35.2 %	31.2 %
Concentration SD	11.8 ppm	0.1 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.566 ppm
Concentration per Run 1	1.428 ppm
Concentration per Run 2	-0.174 ppm
Concentration per Run 3	0.444 ppm
Concentration RSD	142.8 %
Concentration SD	0.8 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	18 cps	2 cps	0 cps	201,900 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	81,842 cps	92 cps	8 cps	72 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	30 cps	104 cps	583 cps	93,145 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	51 cps	1 cps	1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	0 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	74 cps	3 cps	49,951 cps	550 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	2 cps	-4 cps	11 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	405 cps	5,934 cps	8,999 cps	3,030 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	148,112 cps	-134 cps	3 cps	5 cps

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	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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L729802-05 WG752285

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Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1,213.539 ppm	0.889 ppm	0.060 ppm
Concentration per Run 1	1,253.757 ppm	2.157 ppm	0.063 ppm
Concentration per Run 2	1,204.021 ppm	-0.352 ppm	0.093 ppm
Concentration per Run 3	1,182.839 ppm	0.860 ppm	0.024 ppm
Concentration RSD	3.0 %	141.2 %	57.4 %
Concentration SD	36.4 ppm	1.3 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	111,811.725 ppm	119,812.664 ppm	1,413.800 ppm
Concentration per Run 1	113,133.253 ppm	121,181.820 ppm	1,428.385 ppm
Concentration per Run 2	110,880.884 ppm	118,945.836 ppm	1,403.216 ppm
Concentration per Run 3	111,421.039 ppm	119,310.335 ppm	1,409.798 ppm
Concentration RSD	1.1 %	1.0 %	0.9 %
Concentration SD	1,175.9 ppm	1,199.6 ppm	13.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1,535.553 ppm	336.186 ppm	5.070 ppm
Concentration per Run 1	1,519.788 ppm	335.344 ppm	5.340 ppm
Concentration per Run 2	1,539.966 ppm	340.938 ppm	5.090 ppm
Concentration per Run 3	1,546.905 ppm	332.276 ppm	4.778 ppm
Concentration RSD	0.9 %	1.3 %	5.6 %
Concentration SD	14.1 ppm	4.4 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,179.354 ppm	73.777 ppm	720.545 ppm
Concentration per Run 1	1,174.369 ppm	71.649 ppm	728.412 ppm
Concentration per Run 2	1,173.719 ppm	75.778 ppm	718.181 ppm
Concentration per Run 3	1,189.973 ppm	73.905 ppm	715.042 ppm
Concentration RSD	0.8 %	2.8 %	1.0 %
Concentration SD	9.2 ppm	2.1 ppm	7.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	27.895 ppm	3.824 ppm	0.295 ppm
Concentration per Run 1	28.259 ppm	4.780 ppm	0.312 ppm
Concentration per Run 2	27.828 ppm	4.477 ppm	0.177 ppm
Concentration per Run 3	27.598 ppm	2.215 ppm	0.394 ppm
Concentration RSD	1.2 %	36.7 %	37.2 %
Concentration SD	0.3 ppm	1.4 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.889 ppm	0.716 ppm	-0.617 ppm
Concentration per Run 1	0.944 ppm	0.686 ppm	-0.955 ppm

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	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.945 ppm	0.550 ppm	-0.178 ppm
Concentration per Run 3	0.779 ppm	0.912 ppm	-0.719 ppm
Concentration RSD	10.7 %	25.5 %	64.5 %
Concentration SD	0.1 ppm	0.2 ppm	0.4 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.739 ppm	0.735 ppm	13.914 ppm
Concentration per Run 1	-1.006 ppm	1.055 ppm	13.858 ppm
Concentration per Run 2	-0.337 ppm	0.221 ppm	13.940 ppm
Concentration per Run 3	-0.874 ppm	0.929 ppm	13.944 ppm
Concentration RSD	48.0 %	61.1 %	0.3 %
Concentration SD	0.4 ppm	0.4 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.072 ppm	84,061.257 ppm	138.568 ppm
Concentration per Run 1	0.005 ppm	83,842.228 ppm	140.648 ppm
Concentration per Run 2	0.119 ppm	84,032.422 ppm	137.953 ppm
Concentration per Run 3	0.091 ppm	84,309.121 ppm	137.102 ppm
Concentration RSD	83.3 %	0.3 %	1.3 %
Concentration SD	0.1 ppm	234.8 ppm	1.9 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.611 ppm	0.800 ppm	-0.339 ppm
Concentration per Run 1	-0.641 ppm	1.288 ppm	-0.304 ppm
Concentration per Run 2	-0.773 ppm	1.489 ppm	-0.284 ppm
Concentration per Run 3	-0.418 ppm	-0.379 ppm	-0.430 ppm
Concentration RSD	29.4 %	128.3 %	23.2 %
Concentration SD	0.2 ppm	1.0 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	1.537 ppm	16.510 ppm	100.334 %
Concentration per Run 1	1.624 ppm	16.623 ppm	99.240 %
Concentration per Run 2	1.509 ppm	16.350 ppm	100.933 %
Concentration per Run 3	1.477 ppm	16.557 ppm	100.829 %
Concentration RSD	5.0 %	0.9 %	0.9 %
Concentration SD	0.1 ppm	0.1 ppm	0.9 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.120 %	87.287 %	94.952 %
Concentration per Run 1	94.612 %	87.668 %	94.359 %
Concentration per Run 2	94.517 %	87.581 %	95.266 %
Concentration per Run 3	93.231 %	86.611 %	95.232 %
Concentration RSD	0.8 %	0.7 %	0.5 %
Concentration SD	0.8 %	0.6 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	56.576 ppm	3.061 ppm	0.100 ppm

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	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	24.127 ppm	3.165 ppm	0.062 ppm
Concentration per Run 2	-23.664 ppm	2.946 ppm	0.159 ppm
Concentration per Run 3	169.265 ppm	3.073 ppm	0.078 ppm
Concentration RSD	177.6 %	3.6 %	52.4 %
Concentration SD	100.5 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.766 ppm
Concentration per Run 1	3.933 ppm
Concentration per Run 2	-1.692 ppm
Concentration per Run 3	0.057 ppm
Concentration RSD	375.8 %
Concentration SD	2.9 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	114 cps	2 cps	2 cps	130,075 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	52,537 cps	1,237 cps	76 cps	373 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	114 cps	140 cps	285 cps	52,000 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	145 cps	5 cps	1 cps	5 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	0 cps	-5 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	180 cps	3 cps	33,464 cps	723 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	3 cps	-4 cps	25 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,579 cps	5,936 cps	9,174 cps	3,137 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	152,303 cps	-151 cps	20 cps	6 cps

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	Cu 324.754 {104} (Radial)
Intensity average	7 cps

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CCV 14J27642

Sample Type QC Analysis Date 11/5/2014 3:32:06 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.480 ppm	1.945 ppm	0.195 ppm	48.286 ppm
Concentration per Run 1	9.524 ppm	1.970 ppm	0.196 ppm	48.426 ppm
Concentration per Run 2	9.555 ppm	1.932 ppm	0.197 ppm	48.621 ppm
Concentration per Run 3	9.361 ppm	1.932 ppm	0.194 ppm	47.812 ppm
Concentration RSD	1.1 %	1.1 %	0.8 %	0.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.4 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	50.714 ppm	9.631 ppm	10.571 ppm	47.267 ppm
Concentration per Run 1	50.964 ppm	9.660 ppm	10.489 ppm	47.498 ppm
Concentration per Run 2	51.063 ppm	9.675 ppm	10.701 ppm	47.228 ppm
Concentration per Run 3	50.114 ppm	9.557 ppm	10.522 ppm	47.075 ppm
Concentration RSD	1.0 %	0.7 %	1.1 %	0.5 %
Concentration SD	0.5 ppm	0.1 ppm	0.1 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.432 ppm	9.403 ppm	47.192 ppm	0.980 ppm
Concentration per Run 1	1.436 ppm	9.486 ppm	47.356 ppm	0.983 ppm
Concentration per Run 2	1.425 ppm	9.414 ppm	47.131 ppm	0.979 ppm
Concentration per Run 3	1.436 ppm	9.310 ppm	47.088 ppm	0.978 ppm
Concentration RSD	0.4 %	0.9 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.995 ppm	0.978 ppm	0.991 ppm	1.986 ppm
Concentration per Run 1	1.003 ppm	0.976 ppm	1.002 ppm	2.006 ppm
Concentration per Run 2	0.993 ppm	0.986 ppm	1.001 ppm	2.009 ppm
Concentration per Run 3	0.989 ppm	0.972 ppm	0.970 ppm	1.945 ppm
Concentration RSD	0.7 %	0.7 %	1.8 %	1.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.483 ppm	1.943 ppm	1.908 ppm	1.973 ppm
Concentration per Run 1	0.488 ppm	1.965 ppm	1.923 ppm	1.996 ppm
Concentration per Run 2	0.488 ppm	1.963 ppm	1.930 ppm	1.989 ppm
Concentration per Run 3	0.472 ppm	1.900 ppm	1.872 ppm	1.934 ppm
Concentration RSD	1.9 %	1.9 %	1.7 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.490 ppm	0.490 ppm	4.750 ppm	1.963 ppm
Concentration per Run 1	0.495 ppm	0.495 ppm	4.787 ppm	1.954 ppm
Concentration per Run 2	0.494 ppm	0.494 ppm	4.798 ppm	1.968 ppm
Concentration per Run 3	0.481 ppm	0.481 ppm	4.664 ppm	1.968 ppm
Concentration RSD	1.6 %	1.6 %	1.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.986 ppm	2.038 ppm	0.996 ppm	0.982 ppm
Concentration per Run 1	1.997 ppm	2.062 ppm	0.991 ppm	0.976 ppm
Concentration per Run 2	2.007 ppm	2.056 ppm	0.999 ppm	0.987 ppm
Concentration per Run 3	1.953 ppm	1.996 ppm	1.000 ppm	0.983 ppm
Concentration RSD	1.4 %	1.8 %	0.5 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.985 ppm	101.894 %	97.053 %	88.628 %
Concentration per Run 1	0.982 ppm	101.560 %	96.467 %	87.992 %
Concentration per Run 2	0.989 ppm	101.770 %	96.568 %	88.038 %
Concentration per Run 3	0.986 ppm	102.350 %	98.125 %	89.853 %
Concentration RSD	0.3 %	0.4 %	1.0 %	1.2 %
Concentration SD	0.0 ppm	0.4 %	0.9 %	1.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.237 %	48.231 ppm	2.913 ppm	0.523 ppm
Concentration per Run 1	95.107 %	48.395 ppm	2.936 ppm	0.527 ppm
Concentration per Run 2	95.257 %	48.265 ppm	2.945 ppm	0.528 ppm
Concentration per Run 3	95.346 %	48.033 ppm	2.858 ppm	0.515 ppm
Concentration RSD	0.1 %	0.4 %	1.6 %	1.4 %
Concentration SD	0.1 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.956 ppm
Concentration per Run 1	1.960 ppm
Concentration per Run 2	1.946 ppm
Concentration per Run 3	1.961 ppm
Concentration RSD	0.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	446 cps	661 cps	3,693 cps	29,141 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11,531 cps	4,359 cps	268 cps	27,177 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,464 cps	580 cps	94,453 cps	36,645 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,677 cps	611 cps	2,955 cps	4,361 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	368 cps	1,784 cps	1,165 cps	784 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	3,311 cps	1,812 cps	997 cps	5,097 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,201 cps	695 cps	8,448 cps	5,968 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	48,096 cps	6,028 cps	9,460 cps	3,186 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	152,759 cps	4,308 cps	9,729 cps	2,673 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,699 cps

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Sample Type QC Analysis Date 11/5/2014 3:36:13 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.012 ppm	0.001 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 1	-0.062 ppm	-0.001 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 2	0.003 ppm	0.001 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	0.024 ppm	0.003 ppm	0.000 ppm	-0.004 ppm
Concentration RSD	378.2 %	283.1 %	140.2 %	301.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.003 ppm	0.002 ppm	-0.007 ppm	0.014 ppm
Concentration per Run 1	0.006 ppm	0.003 ppm	-0.037 ppm	0.024 ppm
Concentration per Run 2	0.002 ppm	0.004 ppm	0.034 ppm	0.023 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	-0.019 ppm	-0.005 ppm
Concentration RSD	71.3 %	158.9 %	497.9 %	117.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.007 ppm	0.005 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.017 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.003 ppm	0.000 ppm
Concentration RSD	2,539.1 %	143.9 %	34.8 %	1,084.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	522.0 %	939.3 %	33.4 %	274.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	355.1 %	79.2 %	61.7 %	88.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.021 ppm	0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.022 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.021 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.020 ppm	0.003 ppm
Concentration RSD	64.8 %	194.5 %	6.4 %	59.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.002 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration RSD	64.7 %	255.6 %	830.7 %	232.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	105.069 %	102.705 %	103.570 %
Concentration per Run 1	0.000 ppm	106.979 %	103.141 %	103.812 %
Concentration per Run 2	0.000 ppm	104.189 %	101.597 %	102.677 %
Concentration per Run 3	0.000 ppm	104.038 %	103.376 %	104.222 %
Concentration RSD	44.4 %	1.6 %	0.9 %	0.8 %
Concentration SD	0.0 ppm	1.7 %	1.0 %	0.8 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	102.700 %	0.057 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	102.702 %	0.284 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	102.864 %	-0.101 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	102.535 %	-0.011 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	351.4 %	35.6 %	37.0 %
Concentration SD	0.2 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.003 ppm
Concentration per Run 1	0.004 ppm
Concentration per Run 2	0.005 ppm
Concentration per Run 3	-0.002 ppm
Concentration RSD	145.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	2 cps	-1 cps	45 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	12 cps	3 cps	1 cps	8 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-26 cps	0 cps	10 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	0 cps	1 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	2 cps	-6 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	7 cps	30 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	4 cps	3 cps	2 cps	8 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	9 cps	6,216 cps	10,011 cps	3,723 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	164,730 cps	-163 cps	-1 cps	6 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

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Sample Type QC Analysis Date 11/5/2014 3:45:51 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.068 ppm	0.194 ppm	0.002 ppm	0.494 ppm
Concentration per Run 1	0.049 ppm	0.196 ppm	0.002 ppm	0.484 ppm
Concentration per Run 2	0.068 ppm	0.195 ppm	0.002 ppm	0.498 ppm
Concentration per Run 3	0.087 ppm	0.192 ppm	0.002 ppm	0.501 ppm
Concentration RSD	28.2 %	1.3 %	1.2 %	1.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.520 ppm	0.103 ppm	0.079 ppm	0.496 ppm
Concentration per Run 1	0.508 ppm	0.104 ppm	0.069 ppm	0.496 ppm
Concentration per Run 2	0.524 ppm	0.103 ppm	-0.023 ppm	0.502 ppm
Concentration per Run 3	0.527 ppm	0.103 ppm	0.192 ppm	0.492 ppm
Concentration RSD	2.0 %	0.7 %	136.0 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.109 ppm	0.503 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.121 ppm	0.501 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.086 ppm	0.503 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.119 ppm	0.503 ppm	0.010 ppm
Concentration RSD	3.6 %	18.2 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.009 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 1	0.009 ppm	0.011 ppm	0.009 ppm	0.019 ppm
Concentration per Run 2	0.009 ppm	0.010 ppm	0.009 ppm	0.019 ppm
Concentration per Run 3	0.009 ppm	0.007 ppm	0.009 ppm	0.020 ppm
Concentration RSD	3.5 %	19.6 %	2.1 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.018 ppm	0.019 ppm	0.020 ppm
Concentration per Run 1	0.004 ppm	0.018 ppm	0.020 ppm	0.019 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.019 ppm	0.021 ppm
Concentration per Run 3	0.006 ppm	0.018 ppm	0.019 ppm	0.021 ppm
Concentration RSD	18.0 %	0.4 %	3.8 %	6.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	4.500 ppm	0.183 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.526 ppm	0.183 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.466 ppm	0.182 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.508 ppm	0.184 ppm
Concentration RSD	1.6 %	1.6 %	0.7 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.020 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.021 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.020 ppm	0.020 ppm	0.009 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration RSD	4.1 %	0.3 %	6.6 %	2.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.010 ppm	104.707 %	102.935 %	103.716 %
Concentration per Run 1	0.010 ppm	104.682 %	102.719 %	103.328 %
Concentration per Run 2	0.010 ppm	104.475 %	103.857 %	104.731 %
Concentration per Run 3	0.010 ppm	104.963 %	102.230 %	103.089 %
Concentration RSD	0.4 %	0.2 %	0.8 %	0.9 %
Concentration SD	0.0 ppm	0.2 %	0.8 %	0.9 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	103.917 %	0.682 ppm	0.032 ppm	0.005 ppm
Concentration per Run 1	103.646 %	0.705 ppm	0.032 ppm	0.005 ppm
Concentration per Run 2	103.754 %	0.651 ppm	0.032 ppm	0.005 ppm
Concentration per Run 3	104.351 %	0.690 ppm	0.032 ppm	0.005 ppm
Concentration RSD	0.4 %	4.1 %	1.0 %	4.4 %
Concentration SD	0.4 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.020 ppm
Concentration per Run 1	0.016 ppm
Concentration per Run 2	0.023 ppm
Concentration per Run 3	0.020 ppm
Concentration RSD	16.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	9 cps	69 cps	38 cps	352 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	132 cps	50 cps	3 cps	293 cps

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	193 cps	6 cps	1,034 cps	379 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	26 cps	7 cps	31 cps	51 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	3 cps	21 cps	8 cps	6 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	38 cps	23 cps	1,002 cps	542 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	10 cps	91 cps	74 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	549 cps	6,194 cps	10,033 cps	3,728 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	166,682 cps	-103 cps	113 cps	34 cps

	Cu 324.754 {104} (Radial)
Intensity average	24 cps

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	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	483.140 ppm	-0.002 ppm	0.000 ppm	441.973 ppm
Concentration per Run 1	486.665 ppm	-0.002 ppm	0.000 ppm	442.968 ppm
Concentration per Run 2	479.863 ppm	0.002 ppm	0.000 ppm	442.708 ppm
Concentration per Run 3	482.893 ppm	-0.007 ppm	0.000 ppm	440.244 ppm
Concentration RSD	0.7 %	219.7 %	213.6 %	0.3 %
Concentration SD	3.4 ppm	0.0 ppm	0.0 ppm	1.5 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	484.666 ppm	171.706 ppm	193.196 ppm	0.035 ppm
Concentration per Run 1	486.144 ppm	172.238 ppm	194.334 ppm	0.007 ppm
Concentration per Run 2	484.602 ppm	171.633 ppm	193.316 ppm	0.039 ppm
Concentration per Run 3	483.251 ppm	171.246 ppm	191.938 ppm	0.059 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	75.5 %
Concentration SD	1.4 ppm	0.5 ppm	1.2 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.003 ppm	491.562 ppm	0.031 ppm	0.007 ppm
Concentration per Run 1	0.002 ppm	493.016 ppm	0.028 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	492.894 ppm	0.026 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	488.775 ppm	0.039 ppm	0.007 ppm
Concentration RSD	26.6 %	0.5 %	22.4 %	3.3 %
Concentration SD	0.0 ppm	2.4 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.005 ppm	0.006 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 1	-0.005 ppm	0.008 ppm	0.000 ppm	-0.016 ppm
Concentration per Run 2	-0.006 ppm	0.001 ppm	0.001 ppm	-0.016 ppm
Concentration per Run 3	-0.005 ppm	0.008 ppm	0.000 ppm	-0.015 ppm
Concentration RSD	11.1 %	73.1 %	702.7 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.028 ppm	0.002 ppm	-0.011 ppm	-0.003 ppm
Concentration per Run 1	-0.030 ppm	0.000 ppm	-0.011 ppm	-0.005 ppm
Concentration per Run 2	-0.027 ppm	0.003 ppm	-0.011 ppm	-0.001 ppm
Concentration per Run 3	-0.027 ppm	0.003 ppm	-0.011 ppm	-0.005 ppm
Concentration RSD	7.0 %	110.5 %	1.5 %	61.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.002 ppm	-0.002 ppm	0.045 ppm	-0.002 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.044 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	0.050 ppm	-0.004 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.042 ppm	0.001 ppm
Concentration RSD	6.7 %	24.6 %	8.4 %	164.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.006 ppm	0.026 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	-0.005 ppm	0.026 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.006 ppm	0.026 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.006 ppm	0.028 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	5.0 %	4.0 %	47.7 %	51.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	-0.005 ppm	96.415 %	86.863 %	70.674 %
Concentration per Run 1	-0.006 ppm	95.637 %	86.913 %	70.669 %
Concentration per Run 2	-0.005 ppm	96.706 %	86.522 %	70.613 %
Concentration per Run 3	-0.005 ppm	96.903 %	87.155 %	70.739 %
Concentration RSD	1.2 %	0.7 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.7 %	0.3 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.563 %	-0.033 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 1	85.508 %	-0.142 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	85.616 %	0.036 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 3	85.564 %	0.007 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	0.1 %	287.1 %	1.6 %	4.4 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	-0.002 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	0.004 ppm
Concentration RSD	216.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,272 cps	1 cps	1 cps	252,054 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	104,190 cps	73,513 cps	4,623 cps	19 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	22 cps	28,689 cps	59 cps	258 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-13 cps	4 cps	0 cps	-27 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-18 cps	2 cps	-9 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	14 cps	-3 cps	10 cps	17 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	10 cps	-4 cps	10 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-235 cps	5,704 cps	8,467 cps	2,540 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	137,242 cps	-158 cps	12 cps	0 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

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ICSAB 14J27644

Sample Type QC Analysis Date 11/5/2014 3:54:45 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	479.772 ppm	0.957 ppm	0.477 ppm	439.099 ppm
Concentration per Run 1	482.748 ppm	0.958 ppm	0.480 ppm	440.622 ppm
Concentration per Run 2	479.414 ppm	0.958 ppm	0.477 ppm	439.528 ppm
Concentration per Run 3	477.153 ppm	0.955 ppm	0.474 ppm	437.146 ppm
Concentration RSD	0.6 %	0.2 %	0.7 %	0.4 %
Concentration SD	2.8 ppm	0.0 ppm	0.0 ppm	1.8 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	481.031 ppm	170.719 ppm	192.308 ppm	0.022 ppm
Concentration per Run 1	483.008 ppm	171.543 ppm	193.245 ppm	-0.001 ppm
Concentration per Run 2	480.991 ppm	170.454 ppm	191.998 ppm	0.024 ppm
Concentration per Run 3	479.093 ppm	170.160 ppm	191.680 ppm	0.043 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	101.1 %
Concentration SD	2.0 ppm	0.7 ppm	0.8 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	488.952 ppm	0.032 ppm	0.007 ppm
Concentration per Run 1	0.003 ppm	491.585 ppm	0.032 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	488.650 ppm	0.032 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	486.621 ppm	0.032 ppm	0.007 ppm
Concentration RSD	18.3 %	0.5 %	0.6 %	1.1 %
Concentration SD	0.0 ppm	2.5 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.473 ppm	0.467 ppm	0.494 ppm	0.963 ppm
Concentration per Run 1	0.478 ppm	0.472 ppm	0.487 ppm	0.950 ppm
Concentration per Run 2	0.472 ppm	0.462 ppm	0.488 ppm	0.950 ppm
Concentration per Run 3	0.469 ppm	0.466 ppm	0.506 ppm	0.988 ppm
Concentration RSD	1.0 %	1.0 %	2.2 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.928 ppm	0.484 ppm	0.448 ppm	0.498 ppm
Concentration per Run 1	0.917 ppm	0.479 ppm	0.445 ppm	0.490 ppm
Concentration per Run 2	0.920 ppm	0.478 ppm	0.441 ppm	0.497 ppm
Concentration per Run 3	0.948 ppm	0.496 ppm	0.458 ppm	0.506 ppm
Concentration RSD	1.8 %	2.0 %	1.9 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

Comprehensive sample report

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	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.463 ppm	0.455 ppm	0.044 ppm	0.925 ppm
Concentration per Run 1	0.456 ppm	0.447 ppm	0.043 ppm	0.921 ppm
Concentration per Run 2	0.459 ppm	0.450 ppm	0.043 ppm	0.927 ppm
Concentration per Run 3	0.475 ppm	0.467 ppm	0.045 ppm	0.927 ppm
Concentration RSD	2.2 %	2.3 %	3.0 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.501 ppm	0.532 ppm	1.101 ppm	0.453 ppm
Concentration per Run 1	0.491 ppm	0.524 ppm	1.099 ppm	0.451 ppm
Concentration per Run 2	0.496 ppm	0.531 ppm	1.104 ppm	0.456 ppm
Concentration per Run 3	0.516 ppm	0.540 ppm	1.101 ppm	0.453 ppm
Concentration RSD	2.7 %	1.6 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.442 ppm	96.640 %	86.496 %	70.124 %
Concentration per Run 1	0.438 ppm	96.246 %	87.508 %	70.853 %
Concentration per Run 2	0.444 ppm	96.487 %	87.264 %	70.837 %
Concentration per Run 3	0.444 ppm	97.188 %	84.716 %	68.682 %
Concentration RSD	0.7 %	0.5 %	1.8 %	1.8 %
Concentration SD	0.0 ppm	0.5 %	1.5 %	1.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.170 %	0.044 ppm	0.881 ppm	1.029 ppm
Concentration per Run 1	86.096 %	0.047 ppm	0.867 ppm	1.013 ppm
Concentration per Run 2	86.036 %	-0.016 ppm	0.872 ppm	1.020 ppm
Concentration per Run 3	86.379 %	0.102 ppm	0.903 ppm	1.054 ppm
Concentration RSD	0.2 %	133.1 %	2.2 %	2.2 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.496 ppm
Concentration per Run 1	0.498 ppm
Concentration per Run 2	0.497 ppm
Concentration per Run 3	0.494 ppm
Concentration RSD	0.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,173 cps	309 cps	8,551 cps	250,998 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	103,650 cps	73,261 cps	4,612 cps	12 cps

Comprehensive sample report

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	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	27 cps	28,603 cps	61 cps	259 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,207 cps	277 cps	1,165 cps	1,672 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	561 cps	352 cps	214 cps	174 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,787 cps	1,499 cps	10 cps	2,184 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	272 cps	163 cps	8,449 cps	2,496 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,518 cps	5,717 cps	8,431 cps	2,520 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	138,217 cps	-151 cps	2,622 cps	4,680 cps

	Cu 324.754 {104} (Radial)
Intensity average	413 cps

Volatile TPH by Method 8015D/GRO

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729802

Volatile TPH by Method 8015D/GRO
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750876**
Analysis Date:	10/26/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729802-02, -06, -07, -09		

Workgroup: **WG750876**
Description: **TPH Low Fraction by Method 8015D/GRO (GW)**

Sample Name	Collect Date	Analysis Date
L729802-02 1x	10/23/2014	10/27/2014
L729802-06 1x	10/23/2014	10/27/2014
L729802-07 1x	10/23/2014	10/27/2014
L729802-09 1x	10/23/2014	10/26/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751567**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729802-08		

Workgroup: **WG751567**
Description: **TPH Low Fraction by Method 8015D/GRO (GW)**

Sample Name	Collect Date	Analysis Date
L729802-08 1x	10/23/2014	10/31/2014

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751571**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC1		
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751571**
Description: **TPH Low Fraction - GRO by Method 8015D/GRO (SS)**

Sample Name	Collect Date	Analysis Date
L729802-01 1x	10/23/2014	10/31/2014
L729802-03 1x	10/23/2014	10/31/2014
L729802-04 1x	10/23/2014	10/31/2014
L729802-05 1x	10/23/2014	10/31/2014

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750876**
Analysis Date:	10/26/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729802-02, -06, -07, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC12	LCS WG750876	LCS WG750876	1026_04.D	10/26/2014	1:56 PM
VOCGC12	LCSD WG750876	LCSD WG750876	1026_05.D	10/26/2014	2:17 PM
VOCGC12	MS WG750876	MS WG750876	1026_07.D	10/26/2014	3:08 PM
VOCGC12	MS WG750876	MS WG750876	1026_08.D	10/26/2014	3:29 PM
VOCGC12	MSD WG750876	MSD WG750876	1026_09.D	10/26/2014	3:49 PM
VOCGC12	Blank WG750876	Blank WG750876	1026_11.D	10/26/2014	4:31 PM
VOCGC12	MSD WG750876	MSD WG750876	1026_12.D	10/26/2014	4:52 PM
VOCGC12	H-TU904-GW03-NT01	L729802-09	1026_15.D	10/26/2014	6:21 PM
VOCGC12	TU515-TRIPBLANK01-NT01	L729802-02	1026_28.D	10/27/2014	12:30 AM
VOCGC12	H-TU904-GW01-DT01	L729802-06	1026_33.D	10/27/2014	2:13 AM
VOCGC12	H-TU904-GW01-NT01	L729802-07	1026_34.D	10/27/2014	2:34 AM

Parameters in bold text are reported in this SDG

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751567**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729802-08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC7	LCS WG751567	LCS WG751567	1031_04.D	10/31/2014	3:42 AM
VOCGC7	LCSD WG751567	LCSD WG751567	1031_05.D	10/31/2014	4:07 AM
VOCGC7	MS WG751567	MS WG751567	1031_06.D	10/31/2014	4:40 AM
VOCGC7	MSD WG751567	MSD WG751567	1031_07.D	10/31/2014	5:05 AM
VOCGC7	Blank WG751567	Blank WG751567	1031_09.D	10/31/2014	5:55 AM
VOCGC7	H-TU904-GW07-NT01	L729802-08	1031_24.D	10/31/2014	12:39 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751571**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC1		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC1	LCS WG751571	LCS WG751571	1031_04.D	10/31/2014	3:42 AM
VOCGC1	LCSD WG751571	LCSD WG751571	1031_05.D	10/31/2014	4:04 AM
VOCGC1	MS WG751571	MS WG751571	1031_06.D	10/31/2014	4:38 AM
VOCGC1	MSD WG751571	MSD WG751571	1031_07.D	10/31/2014	5:01 AM
VOCGC1	Blank WG751571	Blank WG751571	1031_09.D	10/31/2014	5:45 AM
VOCGC1	TU515-SB02-NS01	L729802-01	1031_24.D	10/31/2014	11:44 AM
VOCGC1	TU515-SB08-NS01	L729802-03	1031_25.D	10/31/2014	12:06 PM
VOCGC1	TU515-SB10-NS01	L729802-04	1031_26.D	10/31/2014	12:30 PM
VOCGC1	TU515-SB10-NS02	L729802-05	1031_27.D	10/31/2014	12:52 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750876**
Analysis Date:	10/26/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729802-02, -06, -07, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0314	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.4842	81.5	67 - 132	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.4167	80.3	67 - 132	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	4.4842	81.5	4.4167	80.3	67 - 132		1.52	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751567**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729802-08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0314	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.7534	86.4	67 - 132	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.7598	86.5	67 - 132	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	4.7534	86.4	4.7598	86.5	67 - 132		0.13	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751571**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC1		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0217	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.2193	76.7	63.5 - 137	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.2696	77.6	63.5 - 137	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	4.2193	76.7	4.2696	77.6	63.5 - 137		1.18	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750876**
Analysis Date:	10/26/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729802-02, -06, -07, -09		

Matrix Spike / Matrix Spike Duplicate

L729559-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	<0.0314	4.4199	80.4	4.3044	78.3	50 - 143		2.65	20	

Matrix Spike / Matrix Spike Duplicate

L729802-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	<0.0314	4.4237	80.4	4.4065	80.1	50 - 143		0.39	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751567**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729802-08		

Matrix Spike / Matrix Spike Duplicate

L729542-17

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	<0.0314	4.6240	83.5	4.7916	86.6	50 - 143		3.56	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751571**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC1		
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L730246-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	5	5.5	<0.1085	14.806	53.6	14.597	52.8	28.5 - 138		1.42	23.6	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750876**
Analysis Date:	10/26/2014	Analyst:	621
Instrument ID:	VOCGC12		
Sample Numbers:	L729802-02, -06, -07, -09		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729802-02	VOCGC12	1026_28	0.200	99.9		
L729802-06	VOCGC12	1026_33	0.200	100		
L729802-07	VOCGC12	1026_34	0.200	100		
L729802-09	VOCGC12	1026_15	0.199	99.7		
LCS WG750876	VOCGC12	1026_04	0.196	97.9	0.220	110
LCSD WG750876	VOCGC12	1026_05	0.195	97.7	0.205	103
MS WG750876	VOCGC12	1026_07	0.197	98.7	0.207	104
MS WG750876	VOCGC12	1026_08	0.196	98.2	0.205	103
MSD WG750876	VOCGC12	1026_09	0.197	98.6	0.204	102
BLANK WG750876	VOCGC12	1026_11	0.200	99.8	0.201	101
MSD WG750876	VOCGC12	1026_12	0.198	99.1	0.208	104

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 62 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 55 - 122

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751567**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L729802-08		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec
L729802-08	VOCGC7	1031_24	0.202	101
LCS WG751567	VOCGC7	1031_04	0.218	109
LCSD WG751567	VOCGC7	1031_05	0.218	109
MS WG751567	VOCGC7	1031_06	0.218	109
MSD WG751567	VOCGC7	1031_07	0.219	110
BLANK WG751567	VOCGC7	1031_09	0.202	101

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 62 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 55 - 122

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751571**
Analysis Date:	10/31/2014	Analyst:	621
Instrument ID:	VOCGC1		
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec
L729802-01	VOCGC1	1031_24	0.195	97.5		
L729802-03	VOCGC1	1031_25	0.194	97.2		
L729802-04	VOCGC1	1031_26	0.194	97.2		
L729802-05	VOCGC1	1031_27	0.195	97.3		
LCS WG751571	VOCGC1	1031_04	0.197	98.7	0.227	113
LCSD WG751571	VOCGC1	1031_05	0.198	99.1	0.226	113
MS WG751571 5x	VOCGC1	1031_06	0.195	97.7	0.217	108
MSD WG751571 5x	VOCGC1	1031_07	0.196	98.0	0.217	109
BLANK WG751571	VOCGC1	1031_09	0.200	99.9	0.211	105

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 59 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 54 - 144

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC12

Continuing Calibration Verification Standard (CCV)

Filename: 1026_03.D
Date Analyzed: 10/26/2014
Time Analyzed: 1:18 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	4.77	86.8	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1026_26.D
Date Analyzed: 10/26/2014
Time Analyzed: 11:38 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.05	91.9	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC7

Continuing Calibration Verification Standard (CCV)

Filename: 1031_03.D
Date Analyzed: 10/31/2014
Time Analyzed: 2:55 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.36	97.4	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1031_22.D
Date Analyzed: 10/31/2014
Time Analyzed: 11:28 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.37	97.7	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC1

Continuing Calibration Verification Standard (CCV)

Filename: 1031_03.D
Date Analyzed: 10/31/2014
Time Analyzed: 2:51 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	4.85	88.1	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1031_22.D
Date Analyzed: 10/31/2014
Time Analyzed: 10:33 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	4.79	87	85 - 115

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCGC1

Continuing Calibration Verification Standard (CCV)

Filename: 1031_36.D
Date Analyzed: 10/31/2014
Time Analyzed: 4:13 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	4.87	88.6	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1031_55.D
Date Analyzed: 10/31/2014
Time Analyzed: 11:30 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	4.90	89.2	85 - 115

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : STACEYE7
Released By : Stacey Eakes
Date Released : 12/5/2014 8:40:11 AM
Run ID : 102614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1026_01	INSTBLK	BG12H21N						1	1	10/26/14 1236	"water SURIS14F10114"
2	1026_02	RT	BG12H21N						1	1	10/26/14 1257	"water SURIS14F10114"
3	1026_03	ICV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/26/14 1318	"water SURIS14F10114"
4	1026_04	LCSGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1356	"water SURIS14F10114/SPK14J20194"
5	1026_05	LCSDGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1417	"water SURIS14F10114/SPK14J20194"
6	1026_07	MSGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1508	"water SURIS14F10114/SPK14J20194"
7	1026_08	MSGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1529	"water SURIS14F10114/SPK14J20194"
8	1026_09	MSDGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1549	"water SURIS14F10114/SPK14J20194"
9	1026_10	INSTBLK	BG12H21N						1	1	10/26/14 1610	"water SURIS14F10114"
10	1026_11	BLANK	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1631	"water SURIS14F10114"
11	1026_12	MSDGRO	BG12H21N	WG750876	GRO	GW			1	1	10/26/14 1652	"water SURIS14F10114/SPK14J20194"
12	1026_13	L729559-03	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/26/14 1740	"water SURIS14F10114"
13	1026_14	L729559-02	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/26/14 1801	"water SURIS14F10114"
14	1026_15	L729802-09	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/26/14 1821	"water SURIS14F10114"
15	1026_16	DNR L729587-01	BG12H21N	WG750876					10	10	10/26/14 1842	"water SURIS14F10114"
16	1026_17	L729788-01	BG12H21N	WG750876	GRO	GW	SHIELDKY	WV	1	1	10/26/14 1903	"water SURIS14F10114"
17	1026_18	L729788-02	BG12H21N	WG750876	GRO	GW	SHIELDKY	WV	1	1	10/26/14 1924	"water SURIS14F10114"
18	1026_19	DNR L729801-02	BG12H21N	WG750876					20	20	10/26/14 1944	"water SURIS14F10114"
19	1026_20	DNR L729801-04	BG12H21N	WG750876					100	100	10/26/14 2005	"water SURIS14F10114"
20	1026_21	DNR L729801-06	BG12H21N	WG750876					100	100	10/26/14 2026	"water SURIS14F10114"
21	1026_22	DNR L729801-08	BG12H21N	WG750876					100	100	10/26/14 2047	"water SURIS14F10114"
22	1026_23	INSTBLK	BG12H21N						1	1	10/26/14 2108	"water SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : STACEYE7

Released By : Stacey Eakes
Date Released : 12/5/2014 8:40:11 AM

Run ID : 102614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1026_24	RT	BG12H21N						1	1	10/26/14 2128	"water SURIS14F10114"
24	1026_25	DNR CCV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/26/14 2149	"water SURIS14F10114"
25	1026_26	CCV GRO 5.5G PPM 14J20195	BG12H21N						1	1	10/26/14 2338	"water SURIS14F10114"
26	1026_27	INSTBLK	BG12H21N						1	1	10/27/14 0009	"water SURIS14F10114"
27	1026_28	L729802-02	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/27/14 0030	"water SURIS14F10114"
28	1026_29	DNR L729801-10	BG12H21N	WG750876					50	50	10/27/14 0050	"water SURIS14F10114"
29	1026_30	DNR L729801-12	BG12H21N	WG750876					100	100	10/27/14 0111	"water SURIS14F10114"
30	1026_31	DNR L729801-14	BG12H21N	WG750876					250	250	10/27/14 0132	"water SURIS14F10114"
31	1026_32	DNR L729801-16	BG12H21N	WG750876					250	250	10/27/14 0153	"water SURIS14F10114"
32	1026_33	L729802-06	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/27/14 0213	"water SURIS14F10114"
33	1026_34	L729802-07	BG12H21N	WG750876	GRO	GW	URSTAZ	AZ	1	1	10/27/14 0234	"water SURIS14F10114"
34	1026_35	DNR L729802-08	BG12H21N	WG750876					10	10	10/27/14 0255	"water SURIS14F10114"
35	1026_36	L729804-01	BG12H21N	WG750876	NWTPHGX	GW	YINGERSOR	OR	1	1	10/27/14 0315	"water SURIS14F10114"
36	1026_37	L729804-02	BG12H21N	WG750876	NWTPHGX	GW	YINGERSOR	OR	1	1	10/27/14 0336	"water SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 03.D\FID2B.CH
Acq On : 10-26-2014 01:18:07 PM Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:32:57 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

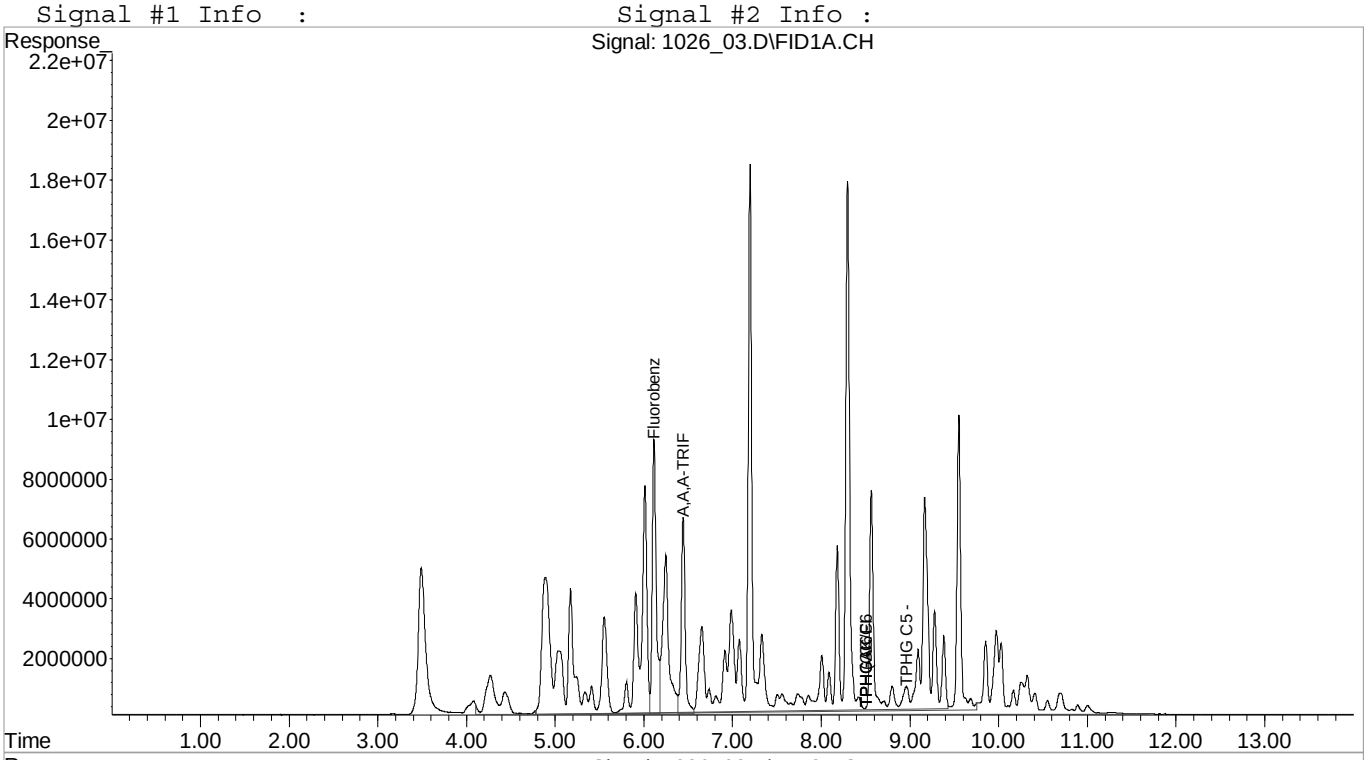
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	277105178	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1070021726	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	201387113	193.5875378	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 96.79%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	582550851	209.2770577	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 104.64%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	335985	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5384545144	4.7976761	ppm
4) H,M TPHG C6 - C12	8.50	5216536467	4.8341484	ppm
5) H,M TPHGAK C6 to C10	8.50	4118407559	4.7624776	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4505135606	4.7728404	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	419479839	157.3780509	ppb
12) T,M benzene	6.01	539014034	59.1294097	ppb
13) T,M toluene	7.19	1999566911	249.7573135	ppb
14) T,M ethylbenzene	8.18	627561560	89.9265750	ppb
15) T,M m&p-xylene	8.29	2152963848	266.1688869	ppb
16) T,M o-xylene	8.56	859900674	122.0523436	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	472329397	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1280490664	NoCal	ppb
19) T,M Naphthalene	11.48	1594077	NoCal	ppb

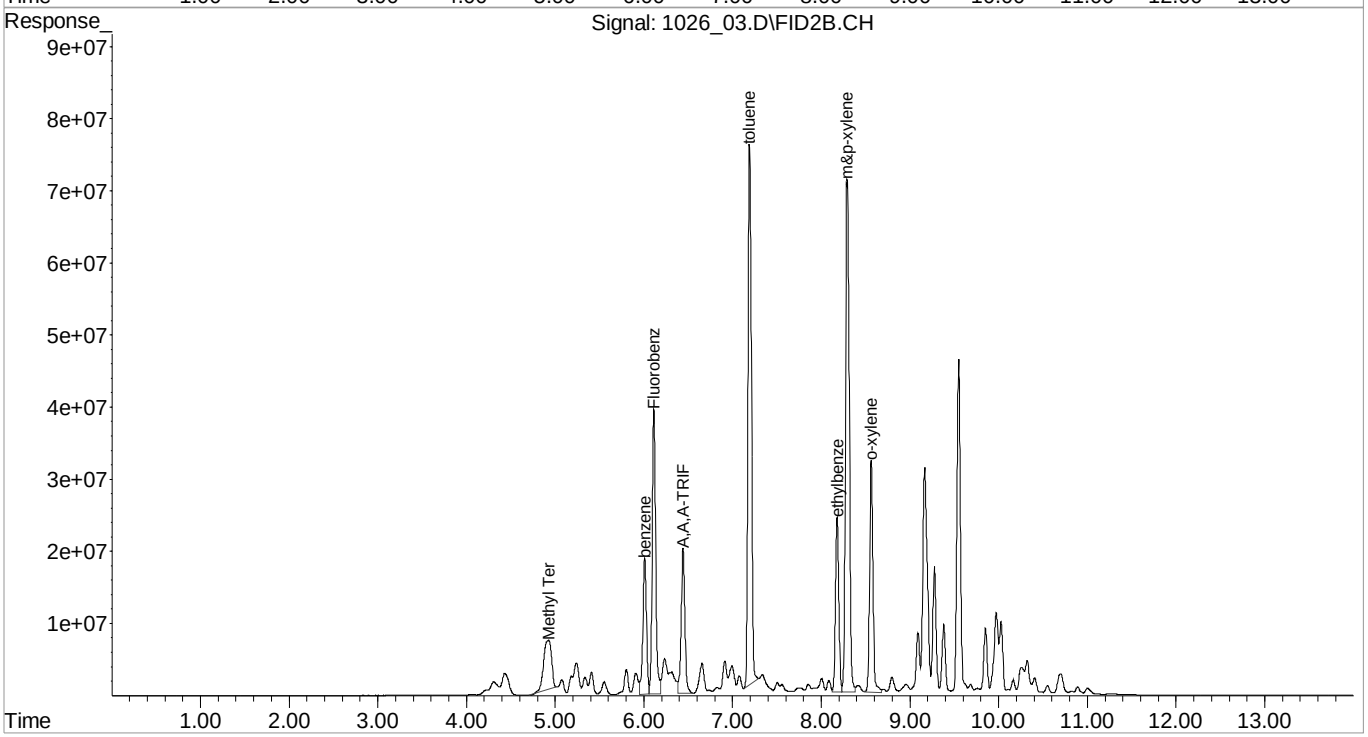
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 03.D\FID2B.CH
Acq On : 10-26-2014 01:18:07 PM Operator: 621
Sample : ICV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:32 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 04.D\FID2B.CH
Acq On : 10-26-2014 01:56:27 PM Operator: 621
Sample : LCSGRO 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:33:18 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	248786081	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1050158808	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	182861177	195.7878747	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 97.89%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	600751542	219.8974994	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 109.95%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	133729	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4488438405	4.4424876	ppm
4) H,M TPHG C6 - C12	8.50	4163198726	4.2790132	ppm
5) H,M TPHGAK C6 to C10	8.50	3465406339	4.4550689	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3805846154	4.4842400	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	364544502	139.3545775	ppb
12) T,M benzene	6.01	546016826	61.0305261	ppb
13) T,M toluene	7.19	2557120196	325.4400755	ppb
14) T,M ethylbenzene	8.18	630752569	92.0933696	ppb
15) T,M m&p-xylene	8.29	2222684310	279.9857650	ppb
16) T,M o-xylene	8.56	934554700	135.1575082	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	360385247	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	993500959	NoCal	ppb
19) T,M Naphthalene	11.49	758266	NoCal	ppb

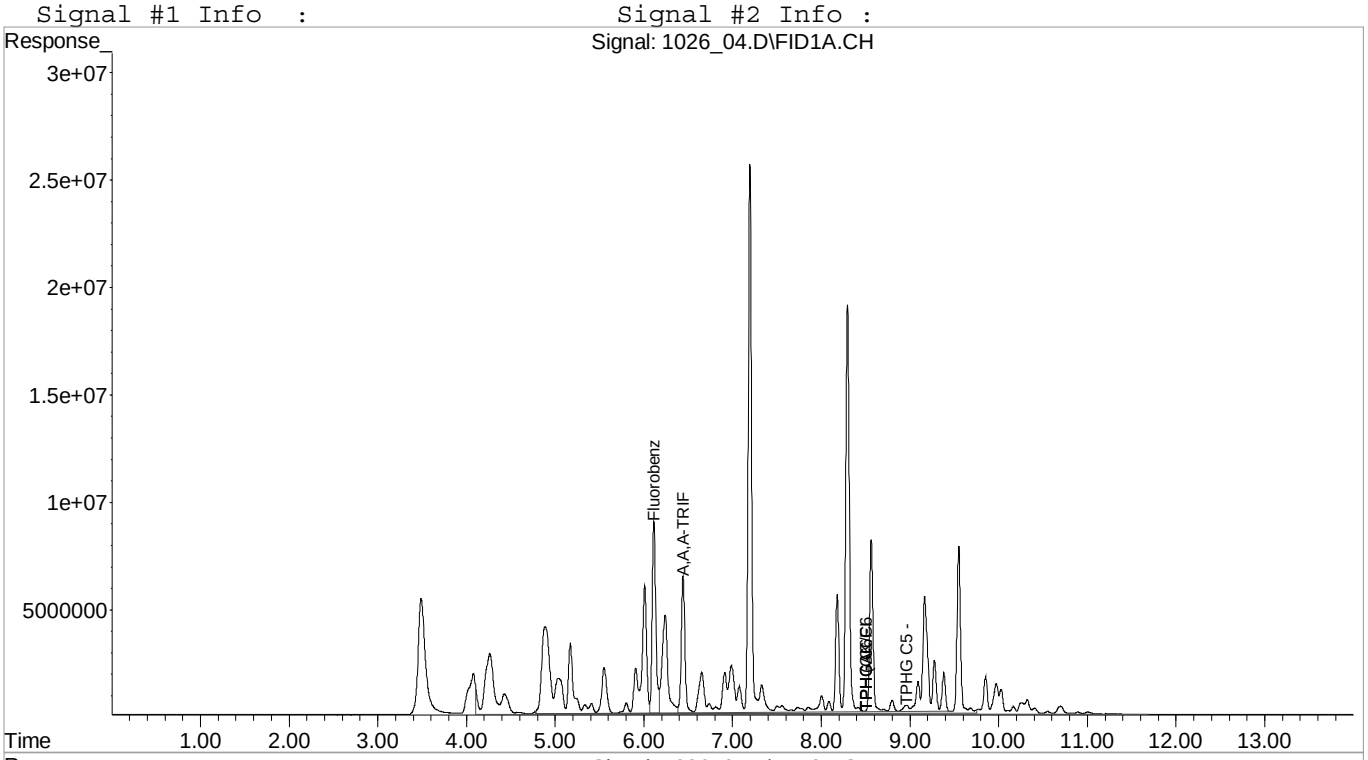
(f)=RT Delta > 1/2 Window (m)=manual int.

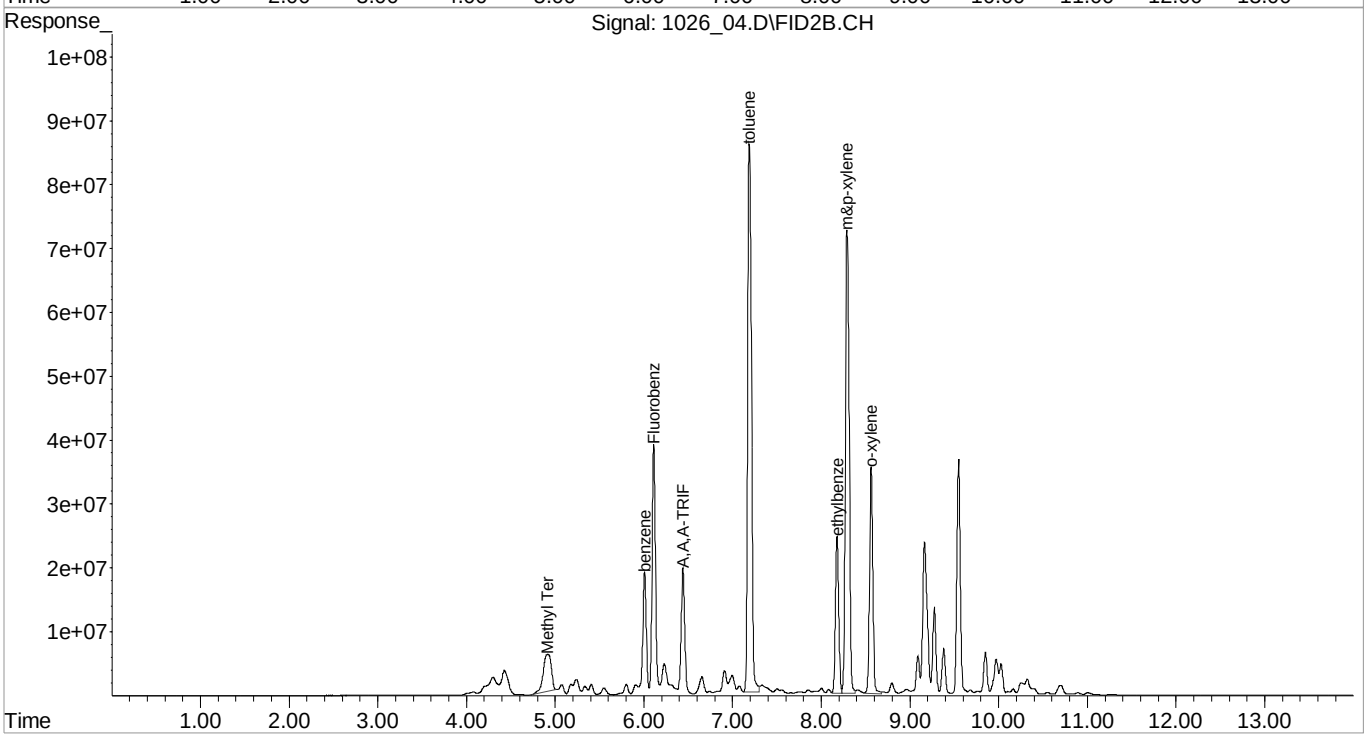
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 04.D\FID2B.CH
Acq On : 10-26-2014 01:56:27 PM Operator: 621
Sample : LCSGRO 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 05.D\FID2B.CH
Acq On : 10-26-2014 02:17:15 PM Operator: 621
Sample : LCSDGRO 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:33:32 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

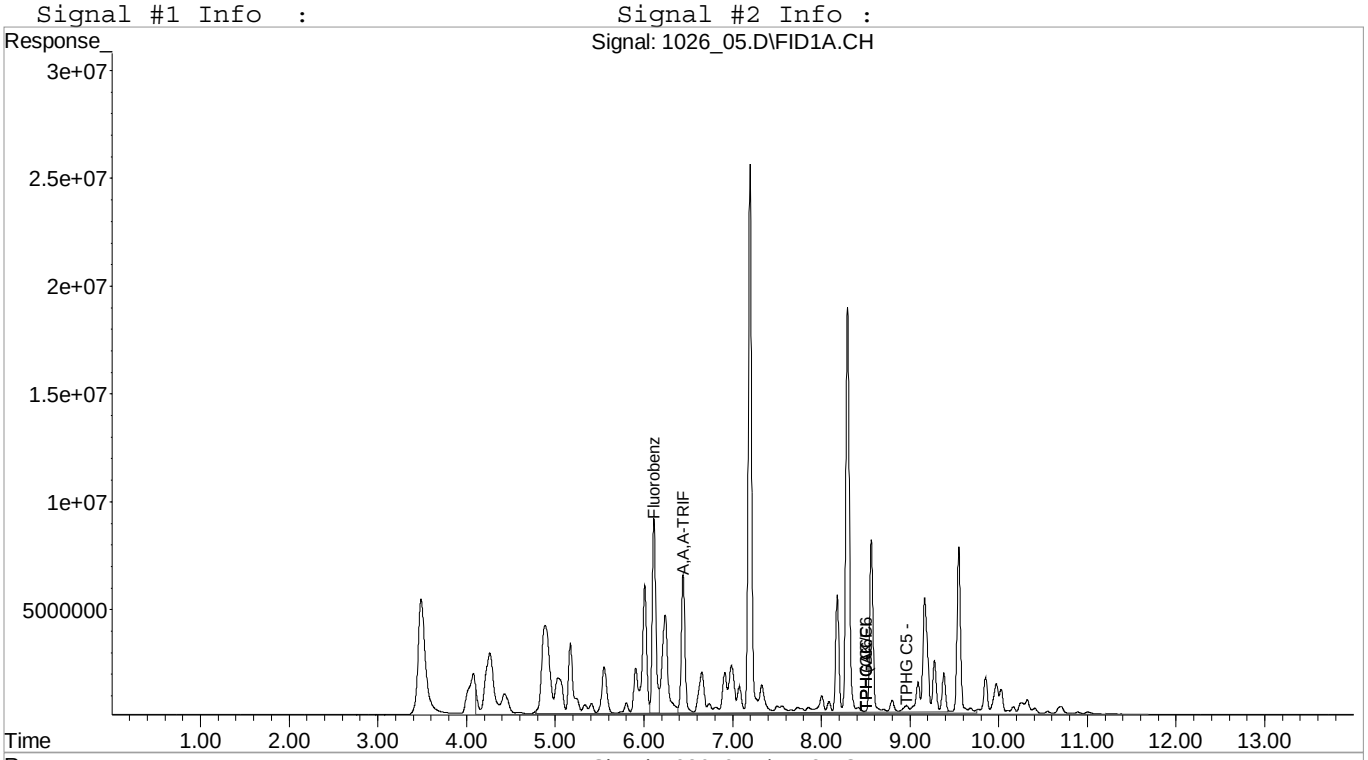
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	250853360	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1038577747	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	184107408	195.4977233	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 97.75%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	554289797	205.1531771	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 102.58%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	95077	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4455003675	4.3704403	ppm
4) H,M TPHG C6 - C12	8.50	4131567609	4.2089268	ppm
5) H,M TPHGAK C6 to C10	8.50	3445336911	4.3908864	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3781080068	4.4166742	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	364927494	141.0565434	ppb
12) T,M benzene	6.01	528295126	59.7081558	ppb
13) T,M toluene	7.19	2512288484	323.2997459	ppb
14) T,M ethylbenzene	8.18	622145229	91.8495593	ppb
15) T,M m&p-xylene	8.29	2186675419	278.5213277	ppb
16) T,M o-xylene	8.56	922565599	134.9114075	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	352614174	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	977823752	NoCal	ppb
19) T,M Naphthalene	11.48	696878	NoCal	ppb

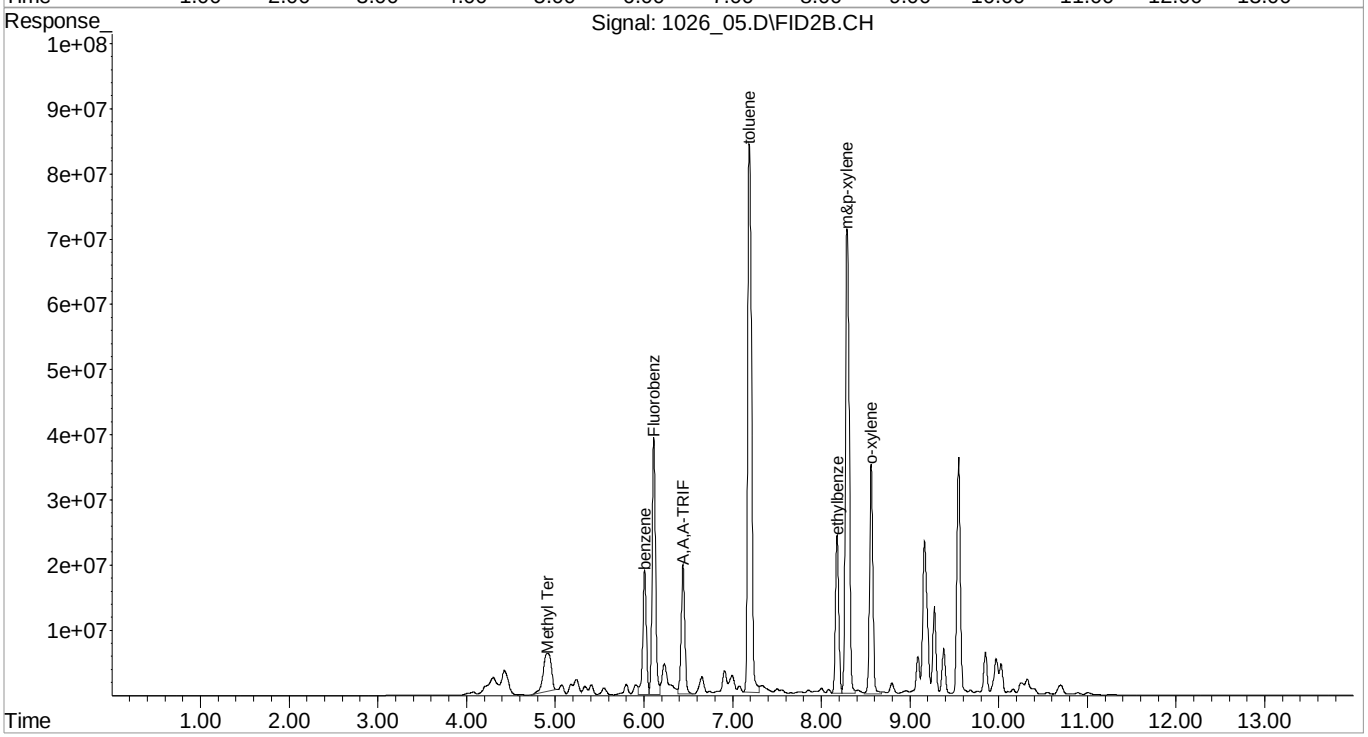
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 05.D\FID2B.CH
Acq On : 10-26-2014 02:17:15 PM Operator: 621
Sample : LCSDGRO 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 07.D\FID2B.CH
Acq On : 10-26-2014 03:08:21 PM Operator: 621
Sample : MSGRO 1x WG750876 L729559-02 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:34:03 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	246438374	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1028085060	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	182562251	197.3299519	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 98.66%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	553713243	207.0314093	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 103.52%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	87921	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4377727183	4.3716130	ppm
4) H,M TPHG C6 - C12	8.50	4047722632	4.1969369	ppm
5) H,M TPHGAK C6 to C10	8.50	3382872688	4.3884440	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3717215048	4.4199446	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	352067695	137.4747044	ppb
12) T,M benzene	6.01	520576795	59.4363079	ppb
13) T,M toluene	7.19	2466750567	320.6793964	ppb
14) T,M ethylbenzene	8.18	615158065	91.7449121	ppb
15) T,M m&p-xylene	8.29	2188719788	281.6269833	ppb
16) T,M o-xylene	8.56	905970167	133.8367182	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	351477958	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	969016785	NoCal	ppb
19) T,M Naphthalene	11.48	845040	NoCal	ppb

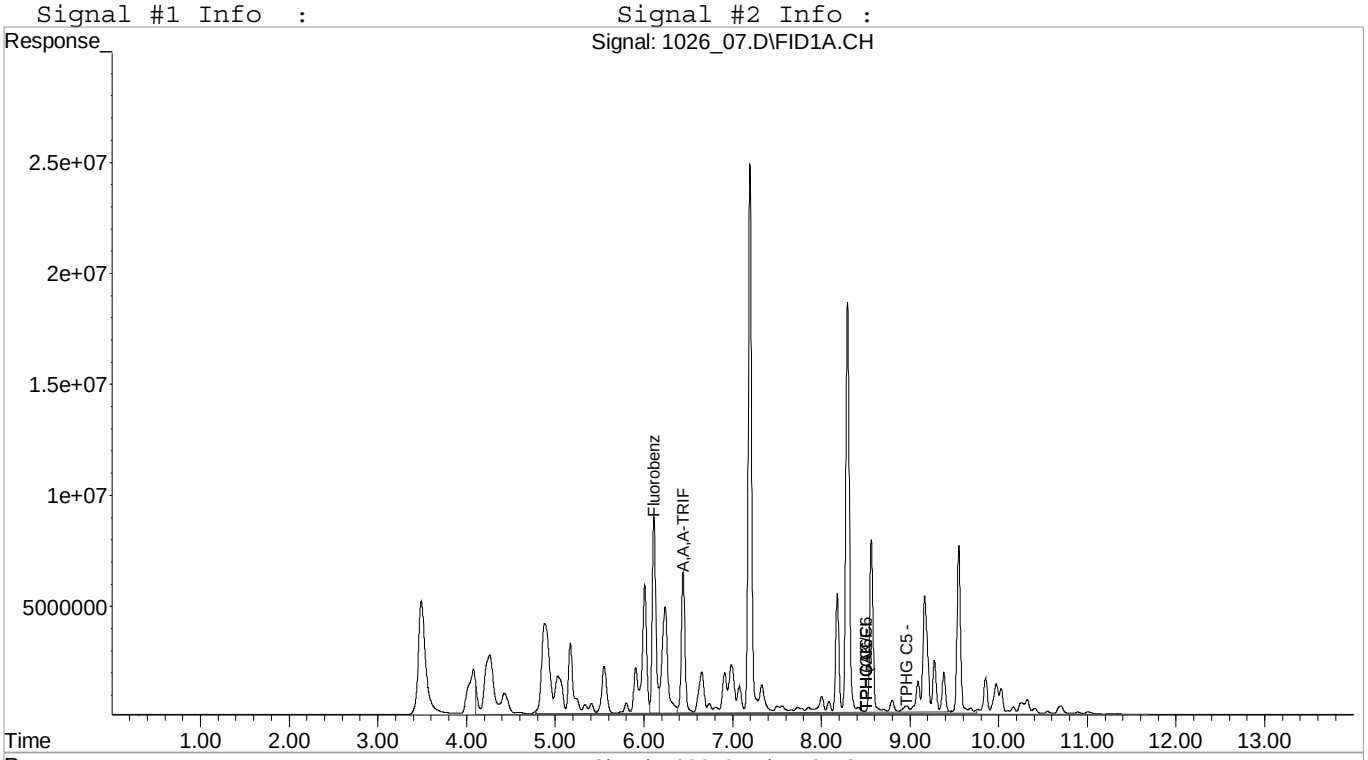
(f)=RT Delta > 1/2 Window (m)=manual int.

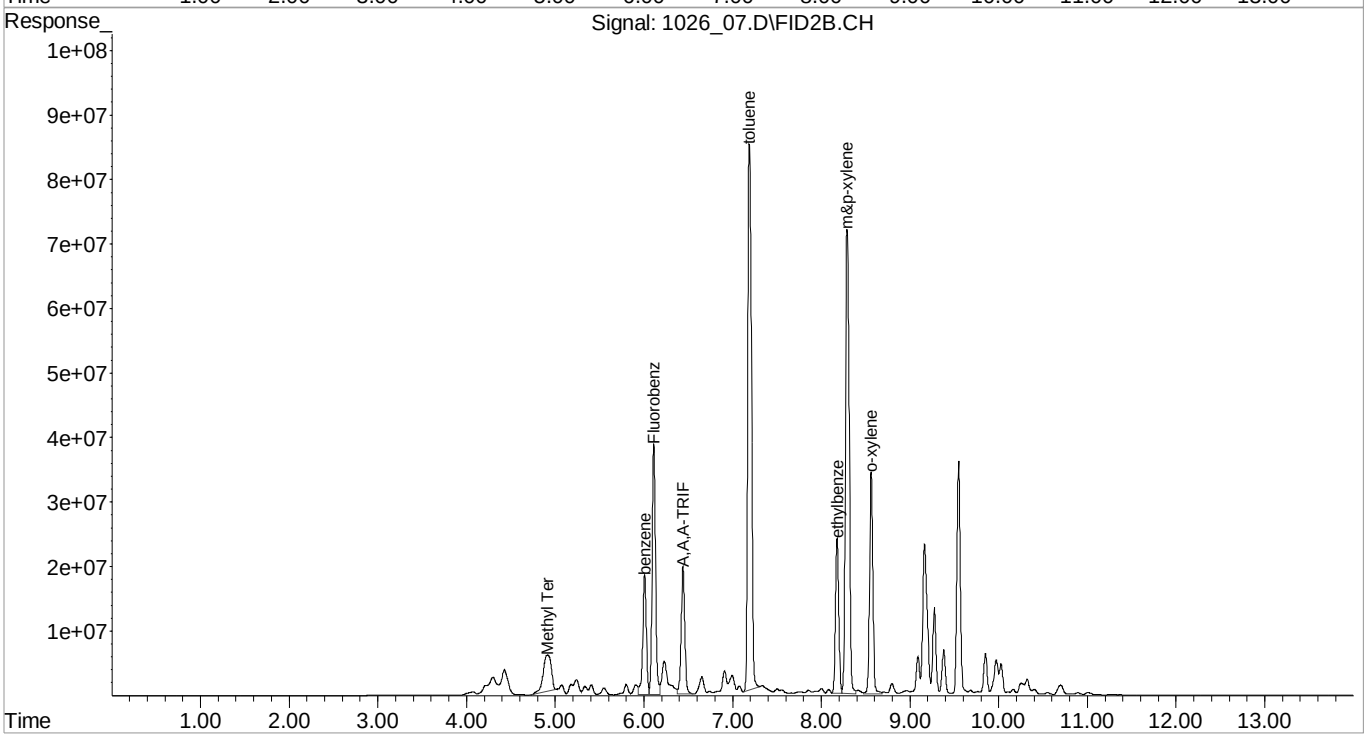
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 07.D\FID2B.CH
Acq On : 10-26-2014 03:08:21 PM Operator: 621
Sample : MSGRO 1x WG750876 L729559-02 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 08.D\FID2B.CH
Acq On : 10-26-2014 03:29:09 PM Operator: 621
Sample : MSGRO 1x WG750876 L729802-09 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:34:45 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

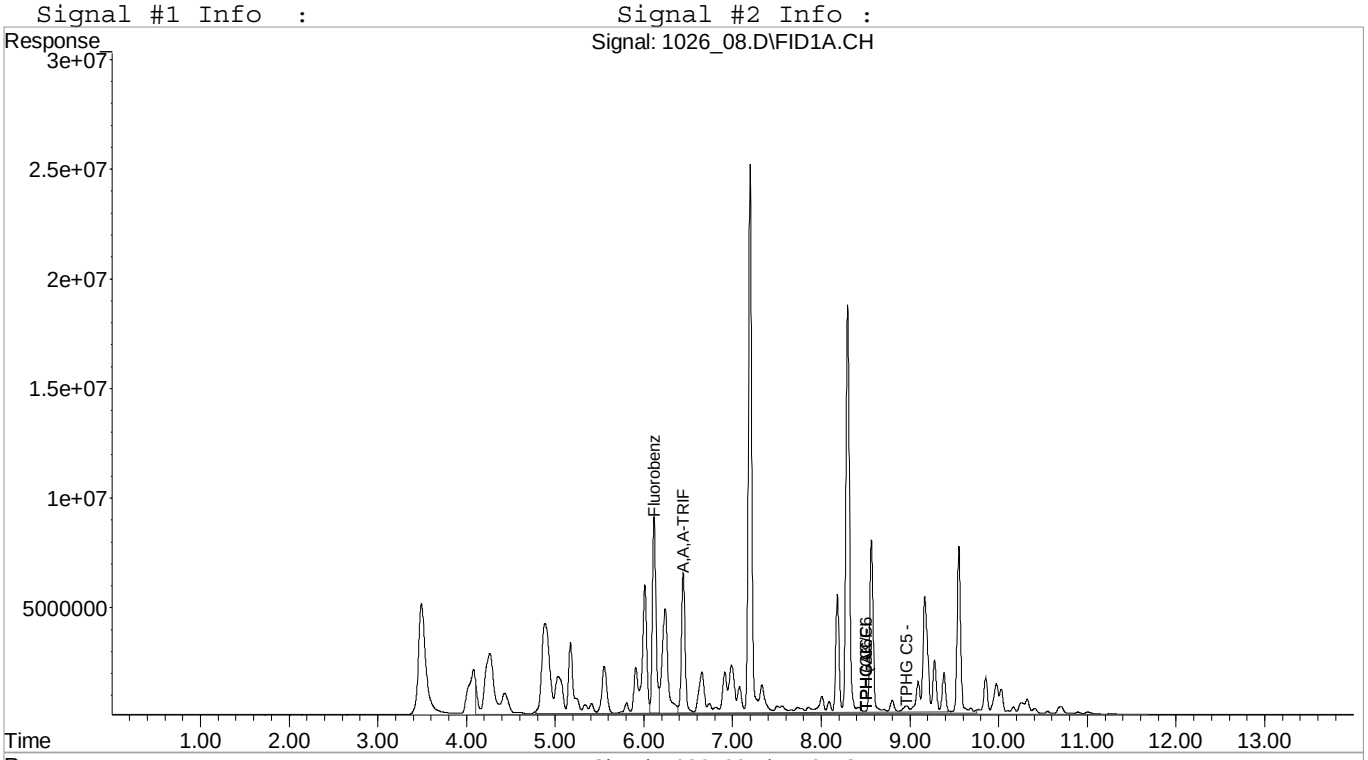
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	248843403	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1027789765	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	183503174	196.4299969	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 98.21%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	548266227	205.0536864	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 102.53%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	113494	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4425233476	4.3765247	ppm
4) H,M TPHG C6 - C12	8.50	4086247505	4.1958940	ppm
5) H,M TPHGAK C6 to C10	8.50	3415717438	4.3882200	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3756601823	4.4237009	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	347974697	135.9155174	ppb
12) T,M benzene	6.01	518878183	59.2593916	ppb
13) T,M toluene	7.19	2477802302	322.2086774	ppb
14) T,M ethylbenzene	8.18	612580313	91.3867141	ppb
15) T,M m&p-xylene	8.29	2165300966	278.6936848	ppb
16) T,M o-xylene	8.56	901326372	133.1889575	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	347700785	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	962433217	NoCal	ppb
19) T,M Naphthalene	11.49	731847	NoCal	ppb

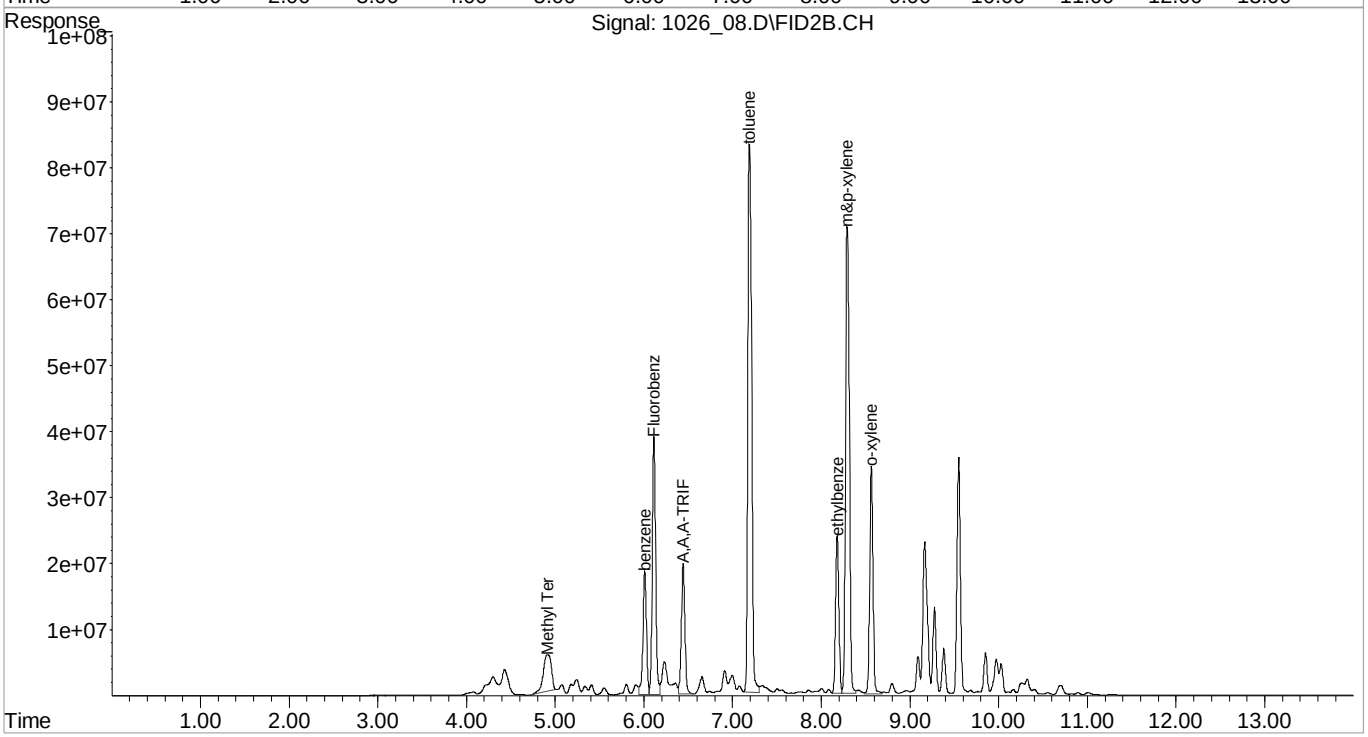
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 08.D\FID2B.CH
Acq On : 10-26-2014 03:29:09 PM Operator: 621
Sample : MSGRO 1x WG750876 L729802-09 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 09.D\FID2B.CH
Acq On : 10-26-2014 03:49:54 PM Operator: 621
Sample : MSDGRO 1x WG750876 L729802-09 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35:04 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

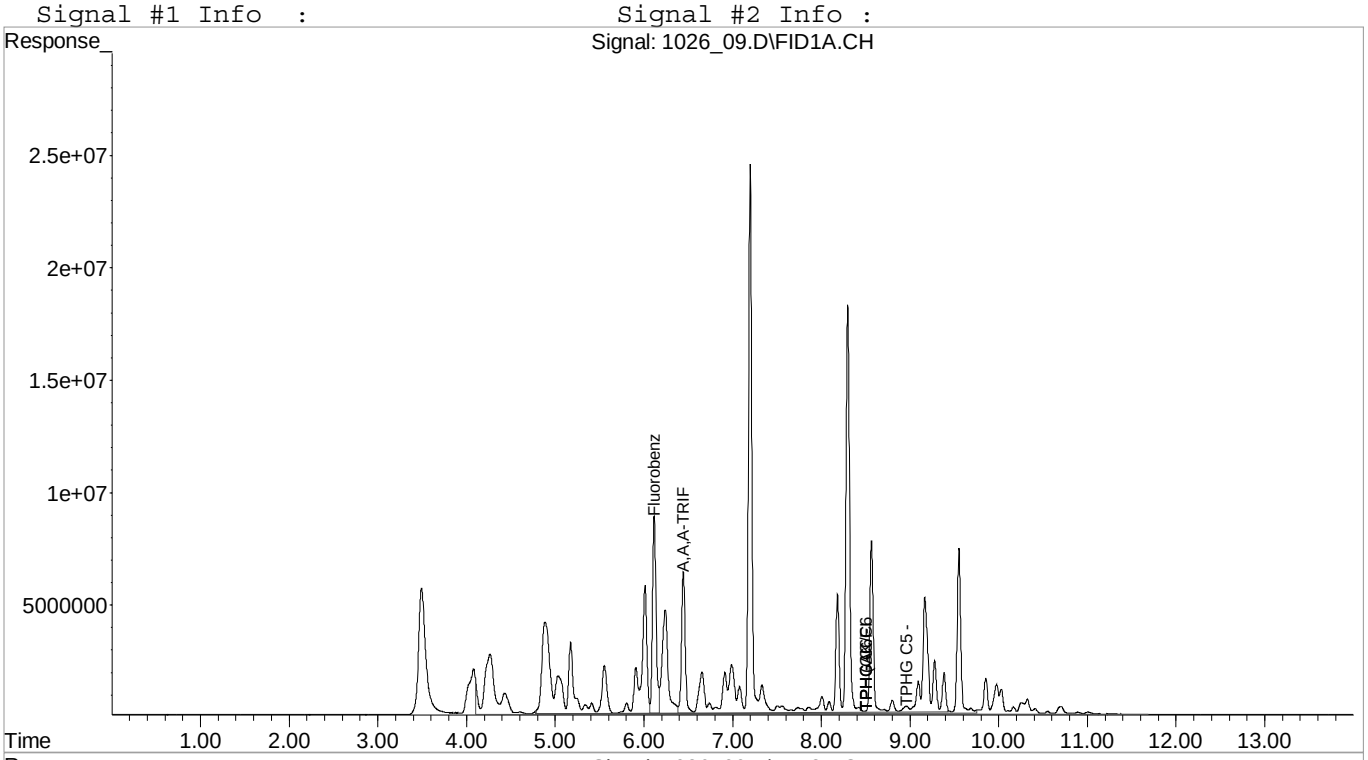
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	243990127	200.0000000	ppb
9) I Fluorobenzene #2	6.11	999719742	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	180693398	197.2697041	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 98.63%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	531519659	204.3720207	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 102.19%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	75885	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4313997477	4.3504174	ppm
4) H,M TPHG C6 - C12	8.50	3985306201	4.1727769	ppm
5) H,M TPHGAK C6 to C10	8.50	3341881220	4.3784723	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3669351025	4.4064737	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	341680010	137.2040618	ppb
12) T,M benzene	6.01	502291422	58.9757618	ppb
13) T,M toluene	7.19	2434019598	325.4023395	ppb
14) T,M ethylbenzene	8.18	592442532	90.8640889	ppb
15) T,M m&p-xylene	8.29	2119521461	280.4611410	ppb
16) T,M o-xylene	8.56	867755346	131.8285451	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	334533530	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	922887050	NoCal	ppb
19) T,M Naphthalene	11.49	419886	NoCal	ppb

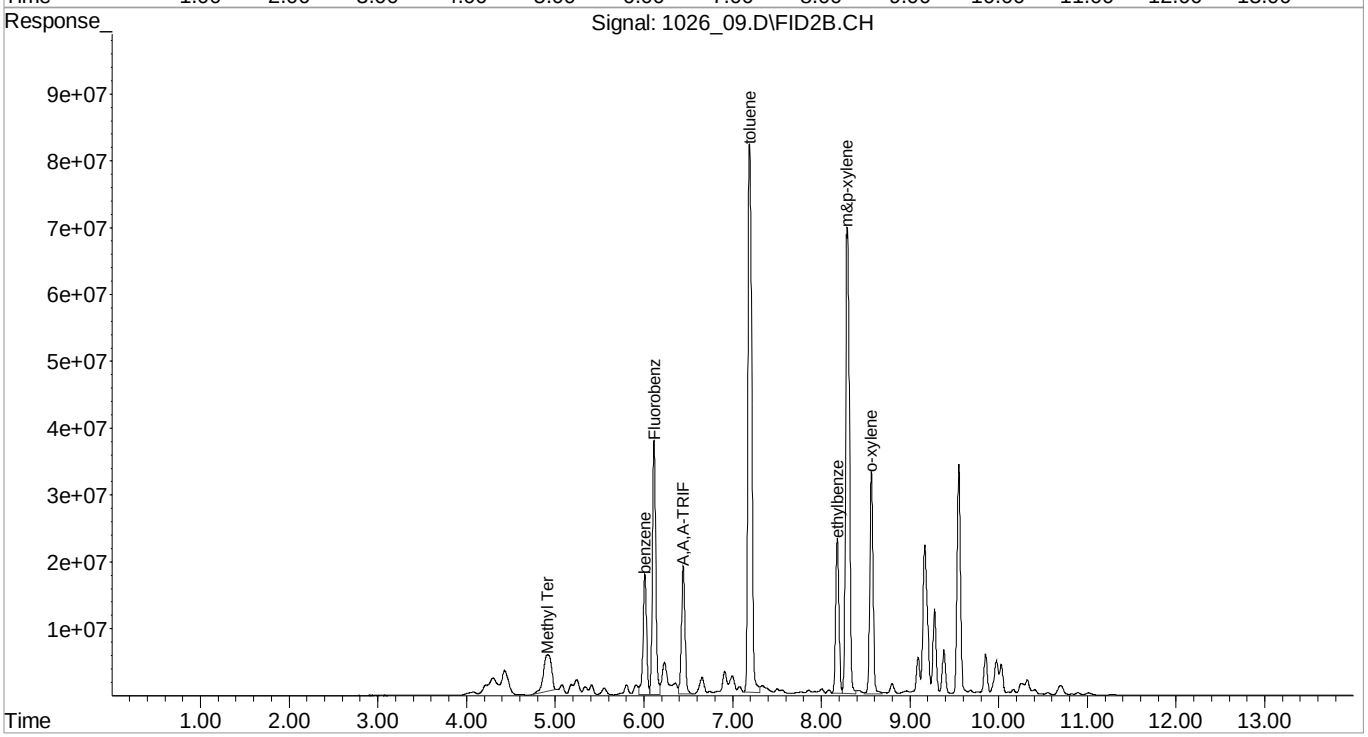
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 09.D\FID2B.CH
Acq On : 10-26-2014 03:49:54 PM Operator: 621
Sample : MSDGRO 1x WG750876 L729802-09 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 11.D\FID2B.CH
Acq On : 10-26-2014 04:31:38 PM Operator: 621
Sample : BLANK 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35:27 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

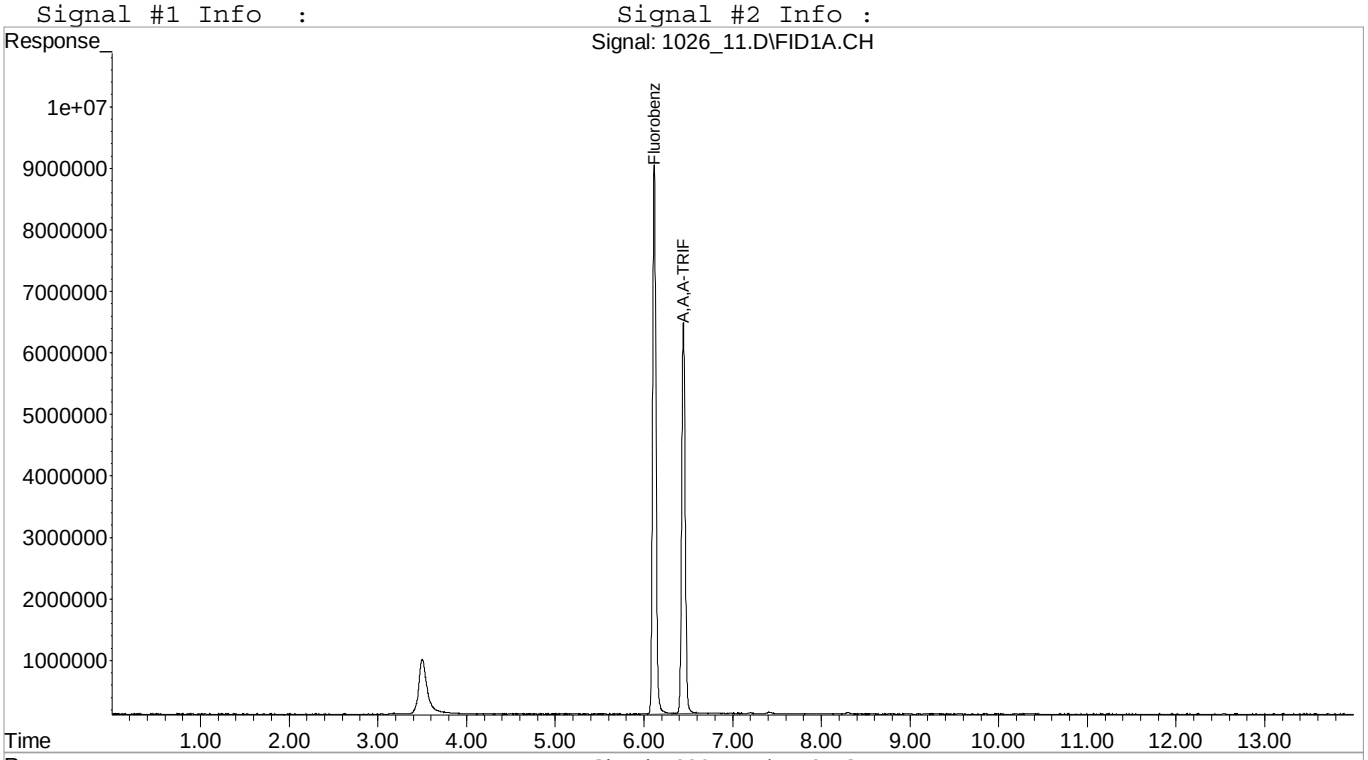
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	231005456	200.0000000	ppb
9) I Fluorobenzene #2	6.11	999348269	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	173125463	199.6315008	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 99.82%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	523843626	201.4954181	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 100.75%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	3566	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	46075245	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	42449702	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	33615210	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	35047750	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.86	6837	0.0027464	ppb
12) T,M benzene	6.02	364378	0.0427988	ppb
13) T,M toluene	7.20	1449416	0.1938434	ppb
14) T,M ethylbenzene	8.18	643236	0.0986911	ppb
15) T,M m&p-xylene	8.30	3244891	0.4295328	ppb
16) T,M o-xylene	8.57	846905	0.1287088	ppb
17) T,M 1,3,5-Trimethylbenzene	9.29	604309	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	943162	NoCal	ppb
19) T,M Naphthalene	11.50	26837	NoCal	ppb

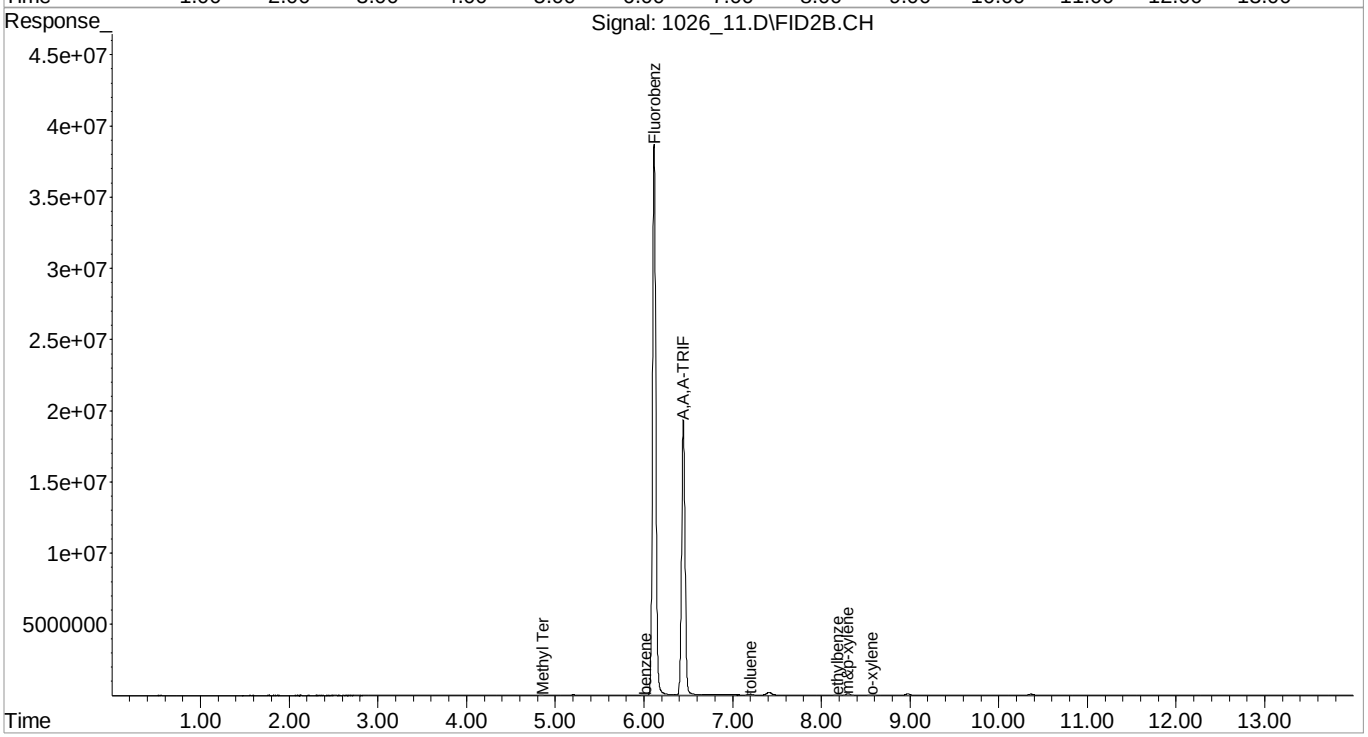
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 11.D\FID2B.CH
Acq On : 10-26-2014 04:31:38 PM Operator: 621
Sample : BLANK 1x WG750876 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 12.D\FID1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 12.D\FID2B.CH
Acq On : 10-26-2014 04:52:28 PM Operator: 621
Sample : MSDGRO 1x WG750876 L729559-02 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35:45 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

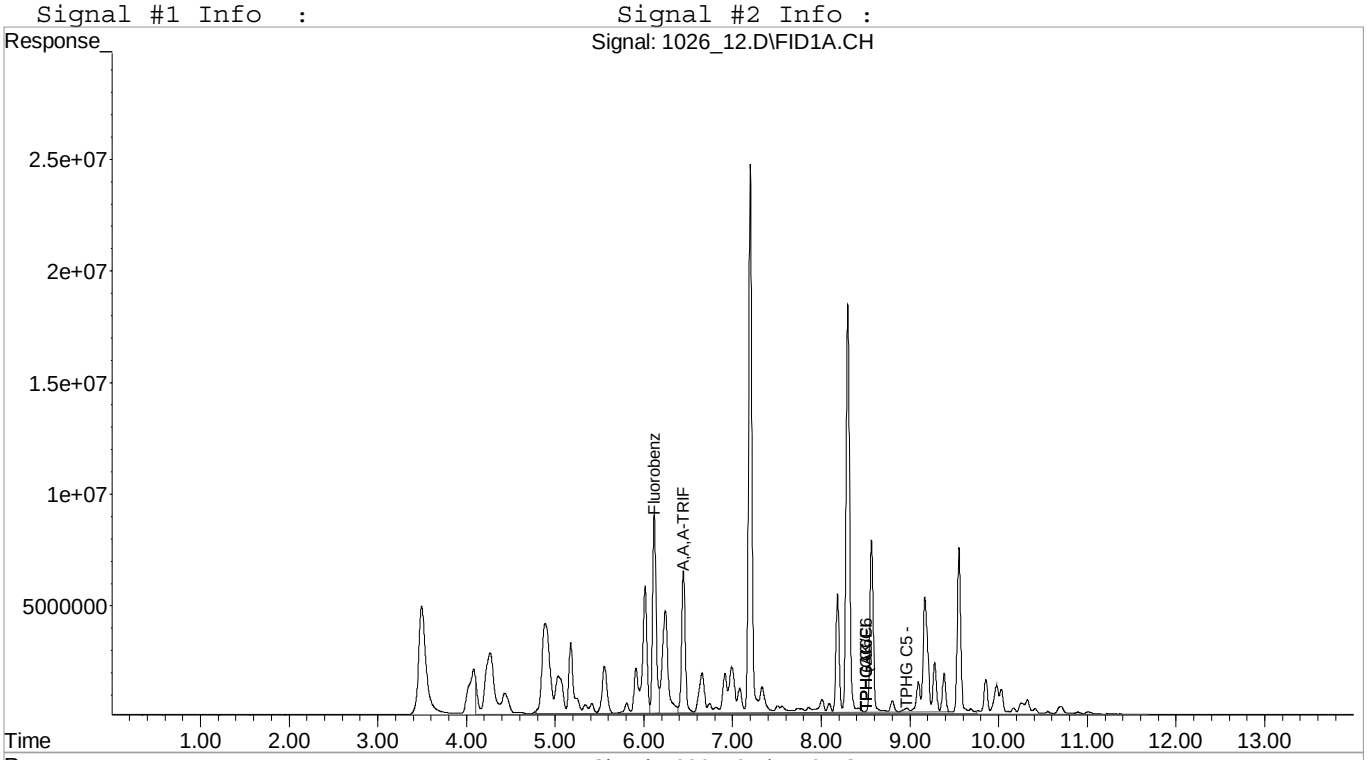
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	247126737	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1009975183	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	183826835	198.1433662	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 99.07%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	545260786	207.5266799	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 103.76%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	71301	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	4261124510	4.2384063	ppm
4) H,M TPHG C6 - C12	8.50	3929595513	4.0578910	ppm
5) H,M TPHGAK C6 to C10	8.50	3330894733	4.3065451	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	3632580278	4.3043798	ppm
11) T,M Methyl Tert-Butyl Ether	4.91	336667240	133.8183963	ppb
12) T,M benzene	6.01	505242988	58.7199476	ppb
13) T,M toluene	7.19	2479546519	328.1228135	ppb
14) T,M ethylbenzene	8.18	597222421	90.6670982	ppb
15) T,M m&p-xylene	8.29	2149265277	281.5091182	ppb
16) T,M o-xylene	8.57	875885483	131.7125190	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	335374592	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	930165263	NoCal	ppb
19) T,M Naphthalene	11.49	765227	NoCal	ppb

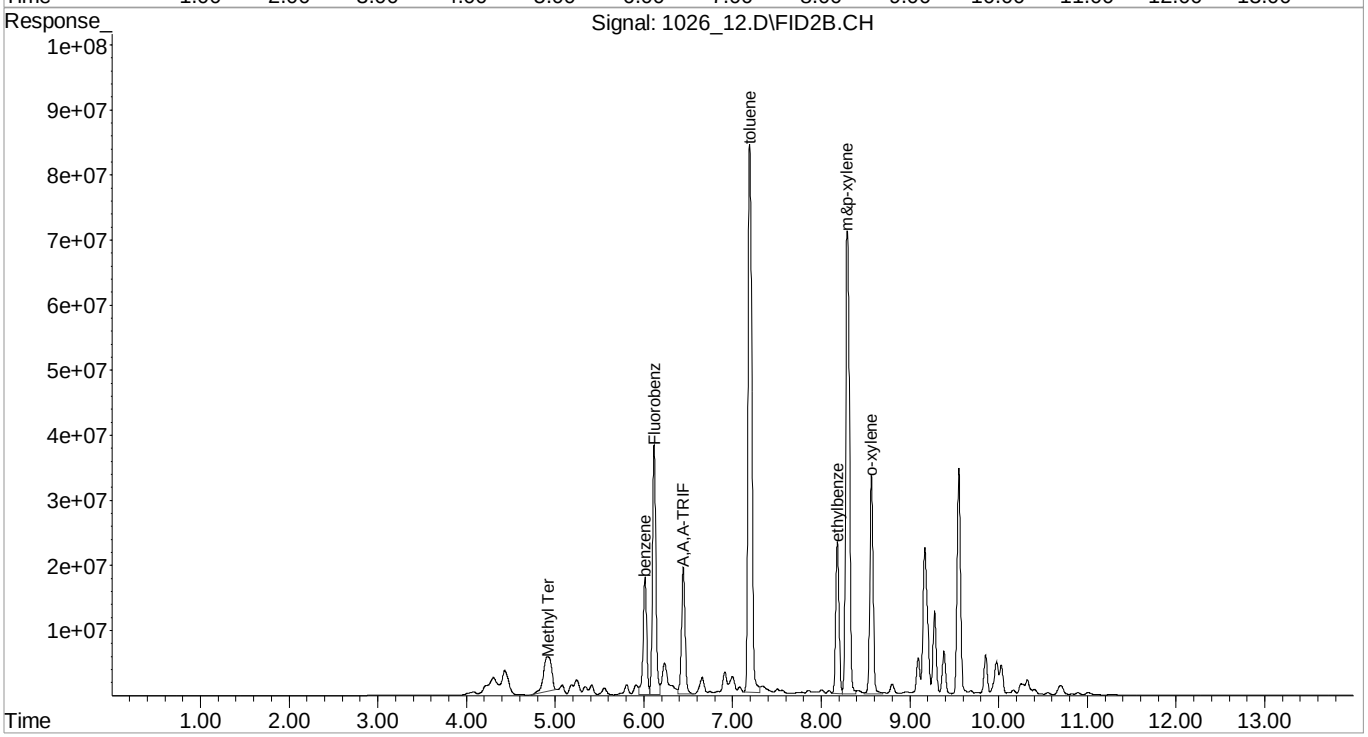
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 12.D\FID1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 12.D\FID2B.CH
Acq On : 10-26-2014 04:52:28 PM Operator: 621
Sample : MSDGRO 1x WG750876 L729559-02 Inst : VOCGC12
Misc : water SURIS14F10114/SPK14J20194 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:35 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 15.D\FID1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 15.D\FID2B.CH
Acq On : 10-26-2014 06:21:54 PM Operator: 621
Sample : L729802-09 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:36:06 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

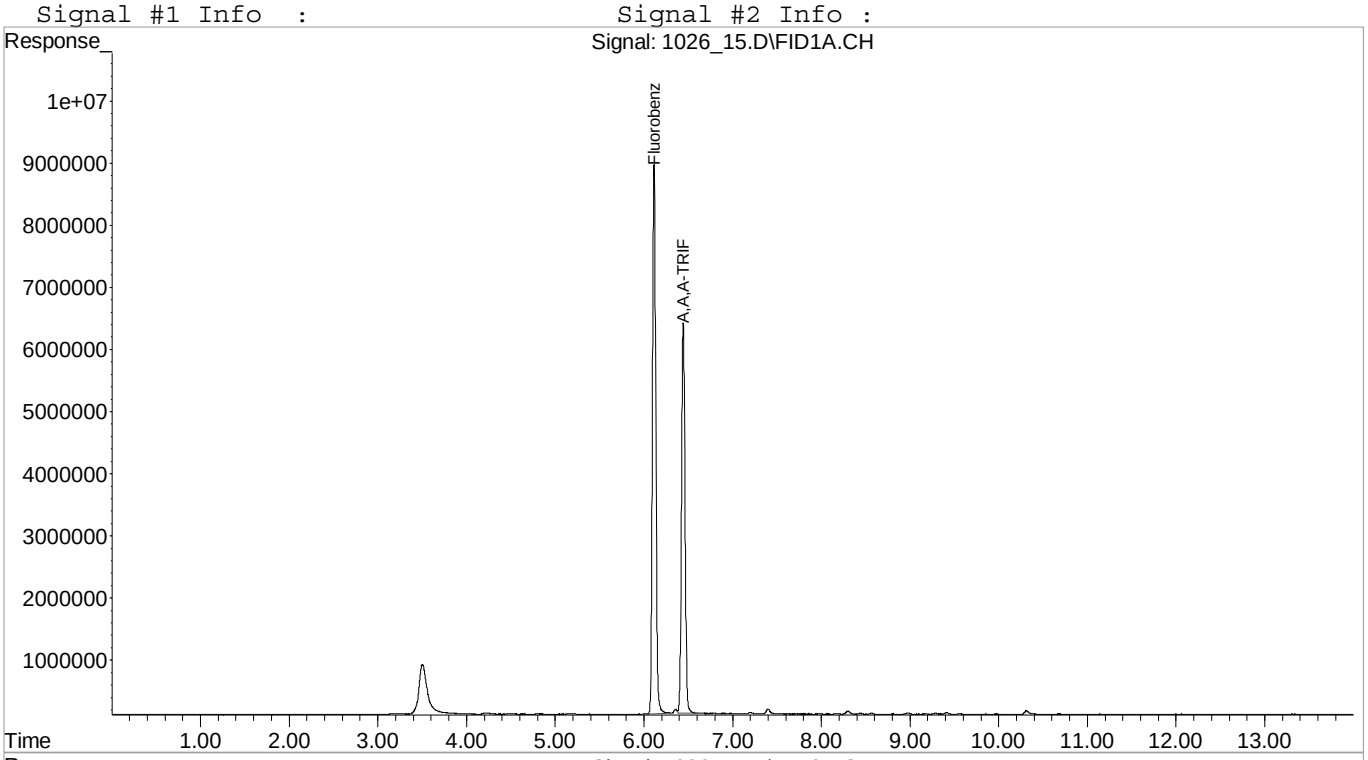
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	228286522	200.0000000	ppb
9) I Fluorobenzene #2	6.11	995847336	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	170963290	199.4862456	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 99.74%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	526828246	203.3558456	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 101.68%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	5904	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	56038716	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	51495516	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	40260928	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	41789655	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.95	297466	0.1199141	ppb
12) T,M benzene	6.01	1305624	0.1538939	ppb
13) T,M toluene	7.20	2868517	0.3849812	ppb
14) T,M ethylbenzene	8.18	1377382	0.2120733	ppb
15) T,M m&p-xylene	8.30	6899219	0.9164743	ppb
16) T,M o-xylene	8.57	1623876	0.2476569	ppb
17) T,M 1,3,5-Trimethylbenzene	9.29	1524767	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1022202	NoCal	ppb
19) T,M Naphthalene	11.49	59774	NoCal	ppb

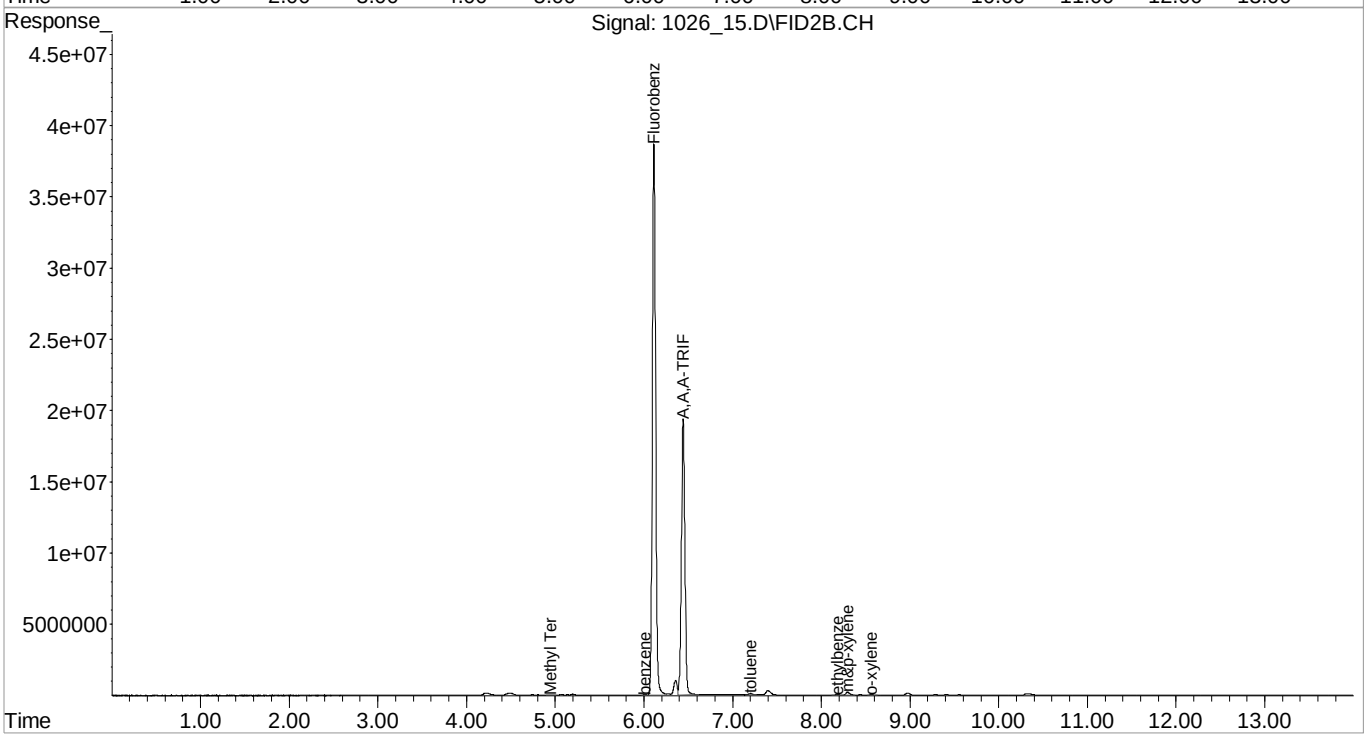
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 15.D\FID1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 15.D\FID2B.CH
Acq On : 10-26-2014 06:21:54 PM Operator: 621
Sample : L729802-09 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 26.D\FID1A.CH Vial: 26
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 26.D\FID2B.CH
Acq On : 26 Oct 2014 11:38 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:38:14 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

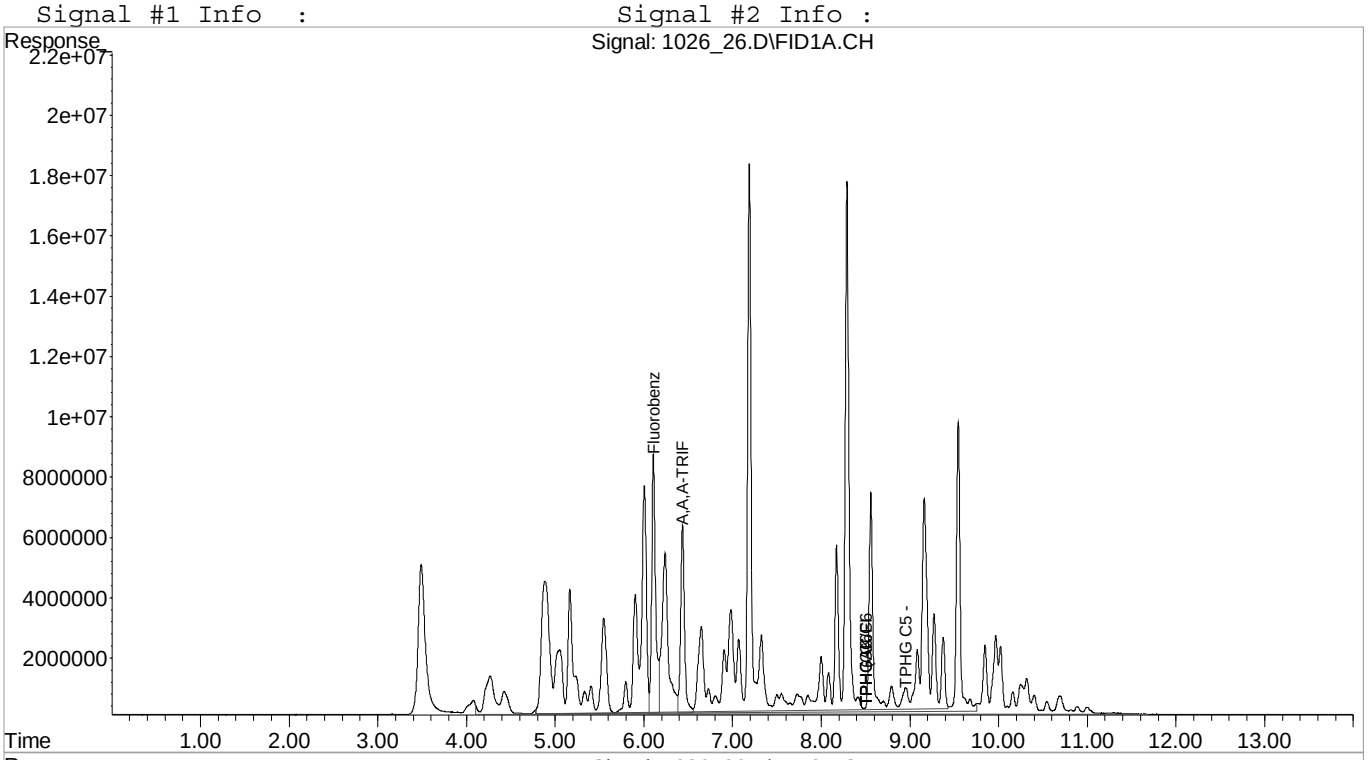
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	261059305	200.0000000	ppb
9) I Fluorobenzene #2	6.10	1041520966	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	188660434	192.5005672	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 96.25%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.43	574943496	212.1961619	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 106.10%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	51545	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	5309848860	5.0297437	ppm
4) H,M TPHG C6 - C12	8.50	5124981538	5.0482234	ppm
5) H,M TPHGAK C6 to C10	8.50	4078553690	5.0131638	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	4488659368	5.0542207	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	400361042	154.3154678	ppb
12) T,M benzene	6.00	557600991	62.8422298	ppb
13) T,M toluene	7.18	2007619340	257.6251293	ppb
14) T,M ethylbenzene	8.17	644646259	94.9025245	ppb
15) T,M m&p-xylene	8.28	2163474603	274.7874737	ppb
16) T,M o-xylene	8.56	873015426	127.3046686	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	473847326	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.54	1274507125	NoCal	ppb
19) T,M Naphthalene	11.48	1027400	NoCal	ppb

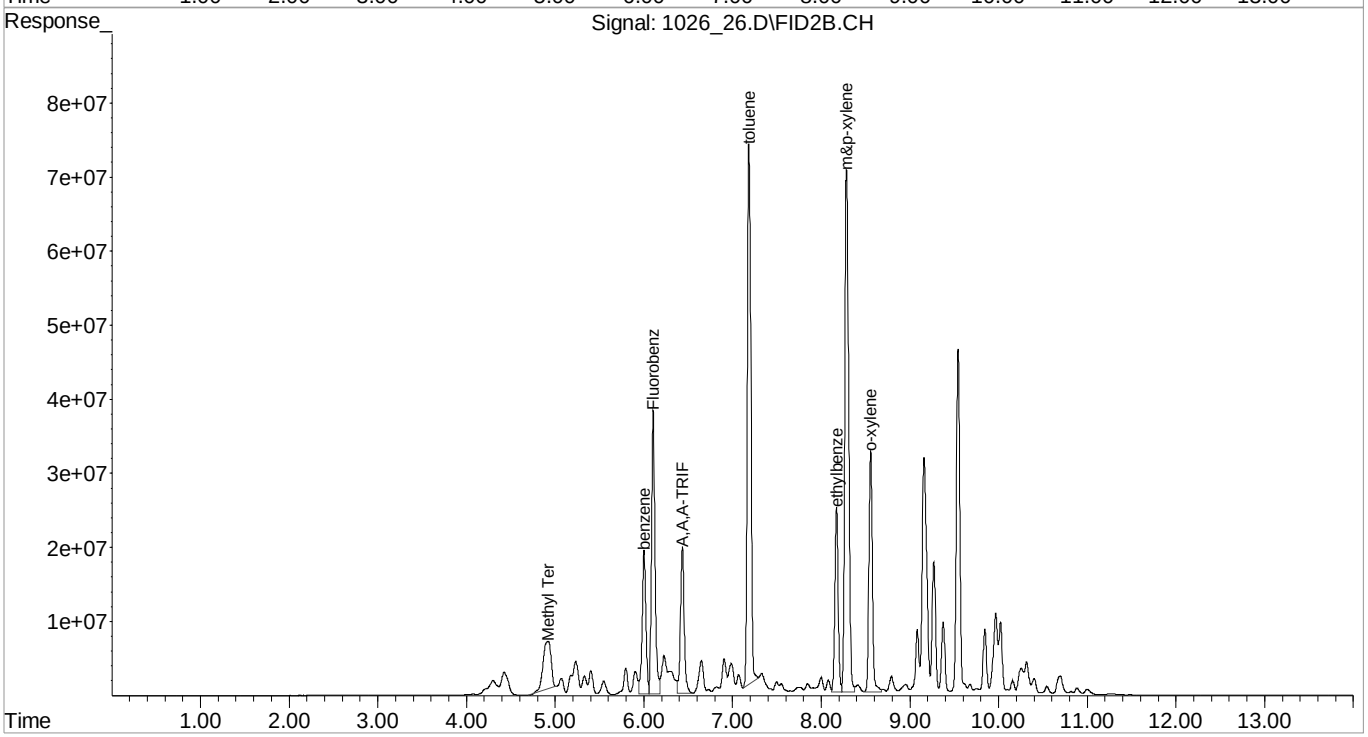
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 26.D\FID1A.CH Vial: 26
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 26.D\FID2B.CH
Acq On : 26 Oct 2014 11:38 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J20195 Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:38 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 28.D\FID1A.CH Vial: 27
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 28.D\FID2B.CH
Acq On : 27 Oct 2014 12:30 am Operator: 621
Sample : L729802-02 1x WG750876 GRO tb Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:38:35 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

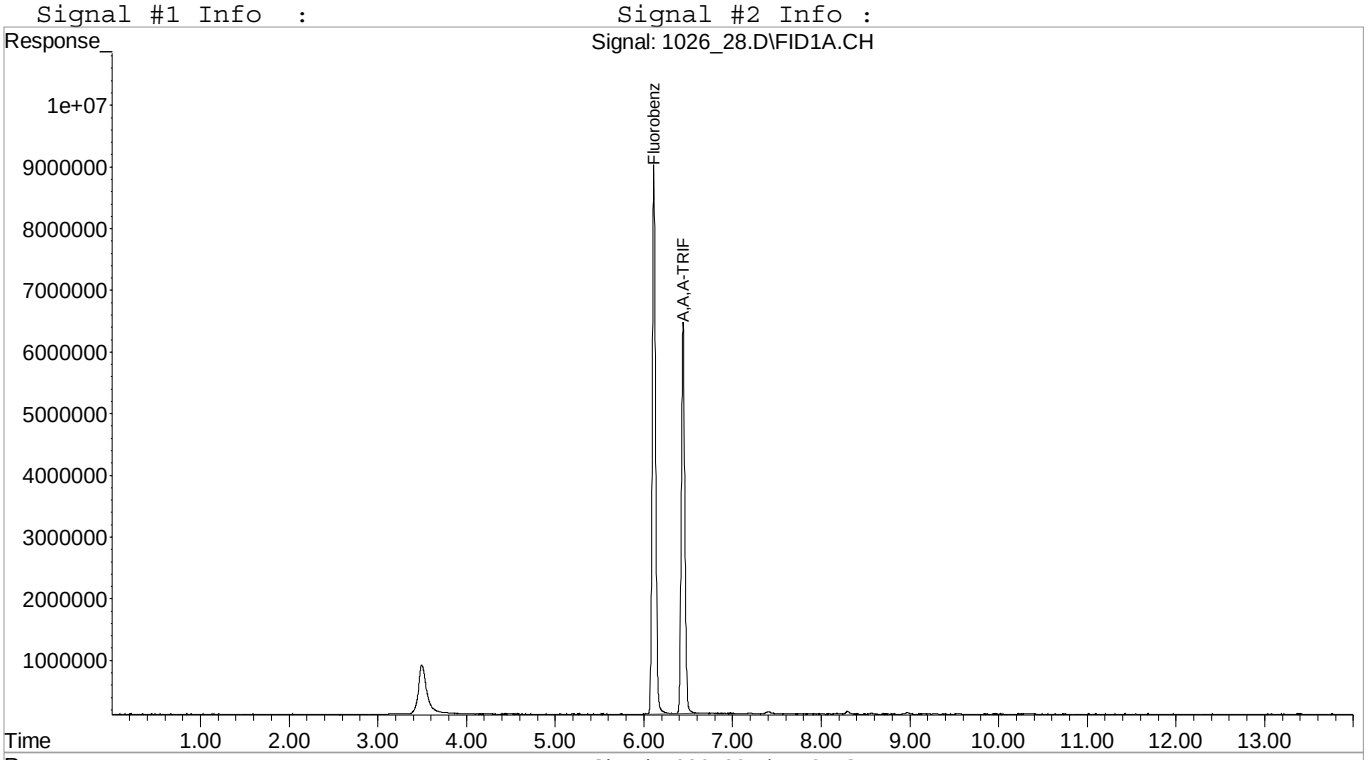
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	230690412	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1009569100	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	172963662	199.7173017	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 99.86%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	530749400	202.0848879	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 101.04%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	5000	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	40612551	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	37712627	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28448801	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	31151626	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	4583	0.0018222	ppb
12) T,M benzene	6.01	318857	0.0370728	ppb
13) T,M toluene	7.20	1248131	0.1652338	ppb
14) T,M ethylbenzene	8.18	1303343	0.1979461	ppb
15) T,M m&p-xylene	8.30	6320954	0.8282468	ppb
16) T,M o-xylene	8.56	1604159	0.2413248	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	641994	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1029847	NoCal	ppb
19) T,M Naphthalene	11.49	11563	NoCal	ppb

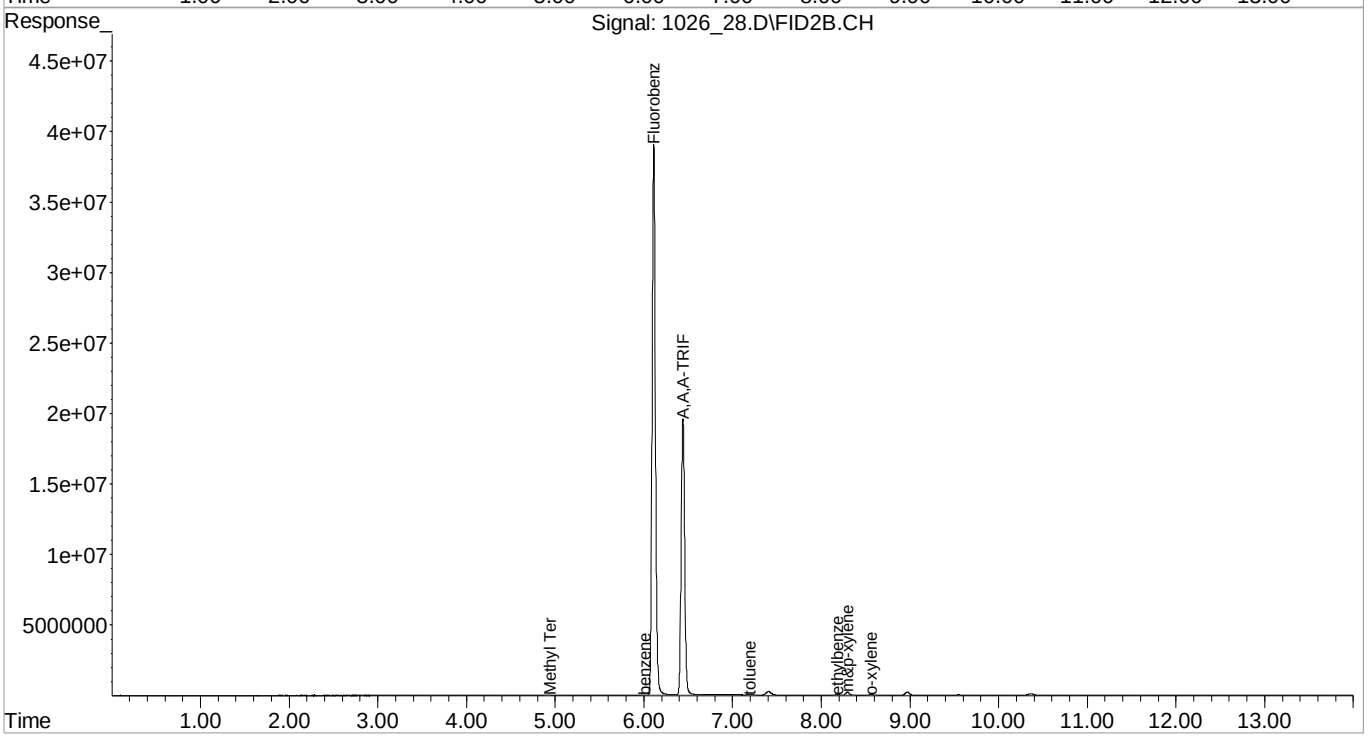
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 28.D\FID1A.CH Vial: 27
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 28.D\FID2B.CH
Acq On : 27 Oct 2014 12:30 am Operator: 621
Sample : L729802-02 1x WG750876 GRO tb Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:38 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 33.D\FID1A.CH Vial: 32
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 33.D\FID2B.CH
Acq On : 10-27-2014 02:13:50 AM Operator: 621
Sample : L729802-06 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:39:23 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

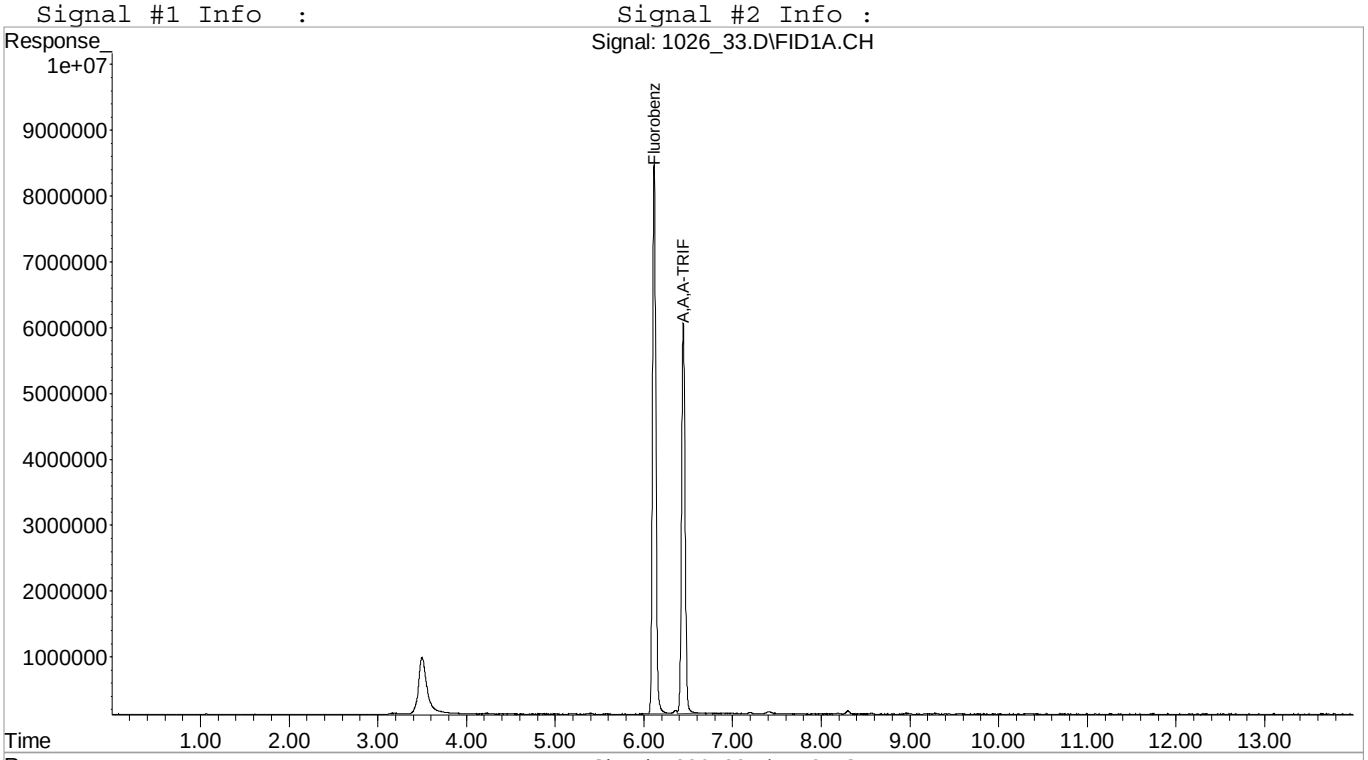
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	215344812	200.0000000	ppb
9) I Fluorobenzene #2	6.11	932459219	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	161904315	200.2692964	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 100.13%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	488783032	201.4961020	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 100.75%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7270	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	51687482	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	47429482	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	37079732	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	38609410	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.95	14273	0.0061448	ppb
12) T,M benzene	6.01	1521953	0.1915876	ppb
13) T,M toluene	7.20	1902932	0.2727522	ppb
14) T,M ethylbenzene	8.18	1278745	0.2102705	ppb
15) T,M m&p-xylene	8.30	6747755	0.9572880	ppb
16) T,M o-xylene	8.57	1730071	0.2817893	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	845340	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	939915	NoCal	ppb
19) T,M Naphthalene	11.49	28596	NoCal	ppb

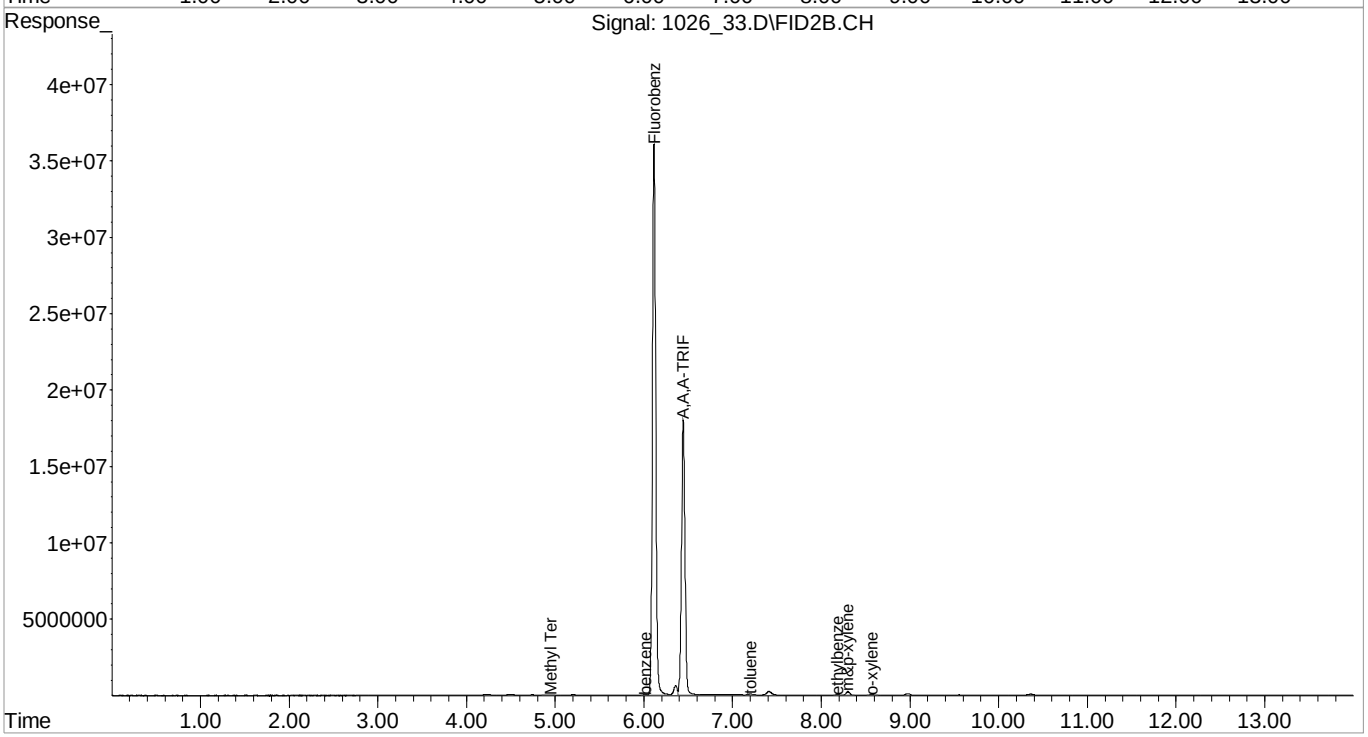
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 33.D\FID1A.CH Vial: 32
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 33.D\FID2B.CH
Acq On : 10-27-2014 02:13:50 AM Operator: 621
Sample : L729802-06 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:39 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 34.D\FID1A.CH Vial: 33
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 34.D\FID2B.CH
Acq On : 10-27-2014 02:34:30 AM Operator: 621
Sample : L729802-07 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:39:32 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

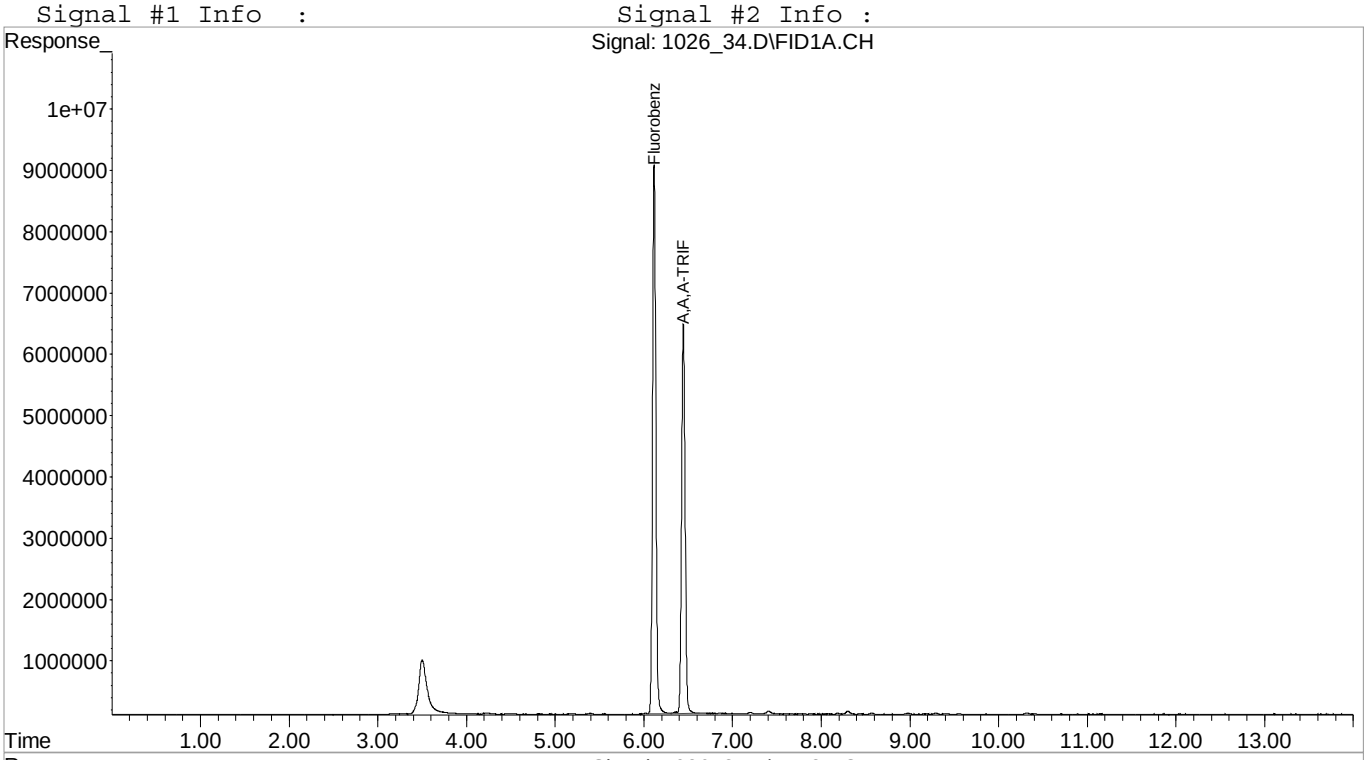
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	231423137	200.0000000	ppb
9) I Fluorobenzene #2	6.11	997209123	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	173882389	200.1424371	ppb
Spiked Amount 200.0000 Range 62 - 128		Recovery	= 100.07%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	523792397	201.9079051	ppb
Spiked Amount 200.0000 Range 55 - 122		Recovery	= 100.95%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	924	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	54028758	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	49220224	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	37772632	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	39292926	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	255522	0.1028652	ppb
12) T,M benzene	6.01	2148200	0.2528626	ppb
13) T,M toluene	7.20	2547401	0.3414177	ppb
14) T,M ethylbenzene	8.18	1369519	0.2105747	ppb
15) T,M m&p-xylene	8.30	7105184	0.9425453	ppb
16) T,M o-xylene	8.57	1877051	0.2858777	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	1312752	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	942512	NoCal	ppb
19) T,M Naphthalene	11.49	7020	NoCal	ppb

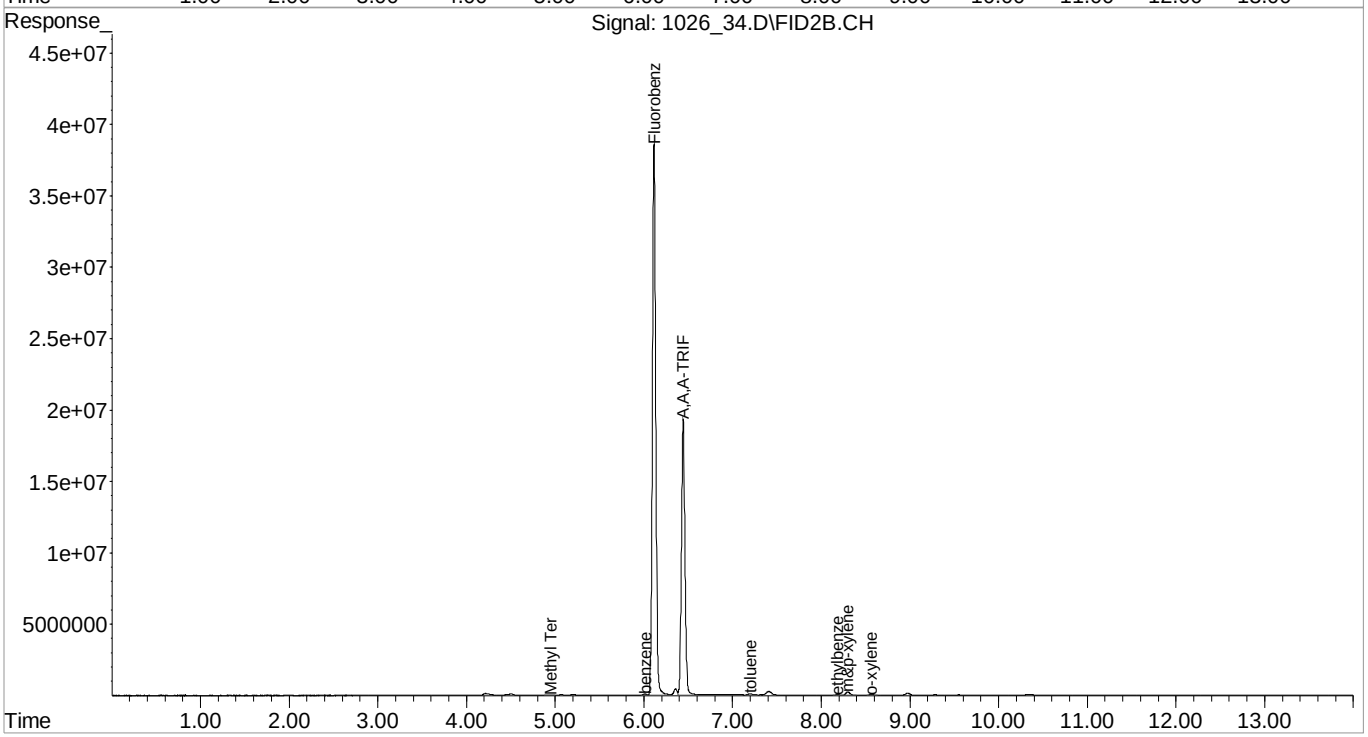
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\102614\1026 34.D\FID1A.CH Vial: 33
Signal #2 : C:\MSDCHEM\1\DATA\102614\1026 34.D\FID2B.CH
Acq On : 10-27-2014 02:34:30 AM Operator: 621
Sample : L729802-07 1x WG750876 GRO Inst : VOCGC12
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Oct 28 19:39 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE
Released By : Amy Green
Date Released : 10/31/2014 10:42:49 AM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	BG01J30N						1	1	10/31/14 0206	"soil SURIS14F10114"
2	1031_02	RT	BG01J30N						1	1	10/31/14 0228	"soil SURIS14F10114"
3	1031_03	ICV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 0251	"soil SURIS14F10114"
4	1031_04	LCSGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0342	"soil SURIS14F10114/SPK14J27633"
5	1031_05	LCSDGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0404	"soil SURIS14F10114/SPK14J27633"
6	1031_06	MSGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0438	"soil SURIS14F10114/SPK14J27633"
7	1031_07	MSDGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0501	"soil SURIS14F10114/SPK14J27633"
8	1031_08	INSTBLK	BG01J30N						1	1	10/31/14 0523	"soil SURIS14F10114"
9	1031_09	BLANK	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0545	"soil SURIS14F10114"
10	1031_10	L730246-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0629	"soil SURIS14F10114"
11	1031_11	L730264-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0651	"soil SURIS14F10114"
12	1031_12	L730264-02	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0713	"soil SURIS14F10114"
13	1031_13	L728733-11	BG01J30N	WG751571	NWTPHGX	SS	GEODESPOR	OR	1000	1000	10/31/14 0735	"soil SURIS14F10114"
14	1031_14	L729977-03	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0758	"soil SURIS14F10114"
15	1031_15	L729977-04	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0820	"soil SURIS14F10114"
16	1031_16	L729977-05	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0842	"soil SURIS14F10114"
17	1031_17	L729977-06	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0905	"soil SURIS14F10114"
18	1031_18	L729977-07	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0927	"soil SURIS14F10114"
19	1031_19	L729977-08	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0949	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE

Released By : Ben Baker
Date Released : 10/31/2014 3:33:47 PM

Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	BG01J30N						1	1	10/31/14 0206	"soil SURIS14F10114"
2	1031_02	RT	BG01J30N						1	1	10/31/14 0228	"soil SURIS14F10114"
3	1031_03	ICV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 0251	"soil SURIS14F10114"
4	1031_04	LCSGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0342	"soil SURIS14F10114/SPK14J27633"
5	1031_05	LCSDGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0404	"soil SURIS14F10114/SPK14J27633"
6	1031_06	MSGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0438	"soil SURIS14F10114/SPK14J27633"
7	1031_07	MSDGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0501	"soil SURIS14F10114/SPK14J27633"
8	1031_08	INSTBLK	BG01J30N						1	1	10/31/14 0523	"soil SURIS14F10114"
9	1031_09	BLANK	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0545	"soil SURIS14F10114"
10	1031_10	L730246-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0629	"soil SURIS14F10114"
11	1031_11	L730264-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0651	"soil SURIS14F10114"
12	1031_12	L730264-02	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0713	"soil SURIS14F10114"
13	1031_13	L728733-11	BG01J30N	WG751571	NWTPHGX	SS	GEODESPOR	OR	1000	1000	10/31/14 0735	"soil SURIS14F10114"
14	1031_14	L729977-03	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0758	"soil SURIS14F10114"
15	1031_15	L729977-04	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0820	"soil SURIS14F10114"
16	1031_16	L729977-05	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0842	"soil SURIS14F10114"
17	1031_17	L729977-06	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0905	"soil SURIS14F10114"
18	1031_18	L729977-07	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0927	"soil SURIS14F10114"
19	1031_19	L729977-08	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0949	"soil SURIS14F10114"
20	1031_21	RT	BG01J30N						1	1	10/31/14 1011	"soil SURIS14F10114"
21	1031_22	CCV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 1033	"soil SURIS14F10114"
22	1031_23	INSTBLK	BG01J30N						1	1	10/31/14 1122	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE
Released By : Ben Baker
Date Released : 10/31/2014 3:33:47 PM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1031_24	L729802-01	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.93	10/31/14 1144	"soil SURIS14F10114"
24	1031_25	L729802-03	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.8	10/31/14 1206	"soil SURIS14F10114"
25	1031_26	L729802-04	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.78	10/31/14 1230	"soil SURIS14F10114"
26	1031_27	L729802-05	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.7	10/31/14 1252	"soil SURIS14F10114"
27	1031_28	L729671-49	BG01J30N	WG751571	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 1315	"soil SURIS14F10114"
28	1031_29	L729819-02	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	46	46	10/31/14 1337	"soil SURIS14F10114"
29	1031_30	L729819-03	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	41.5	41.5	10/31/14 1359	"soil SURIS14F10114"
30	1031_31	L729819-04	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	1	0.95	10/31/14 1422	"soil SURIS14F10114"
31	1031_32	L729819-05	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	1	0.95	10/31/14 1444	"soil SURIS14F10114"
32	1031_33	DNR L729819-06	BG01J30N	WG751571					1	0.86	10/31/14 1506	"soil SURIS14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID2B.CH
Acq On : 31 Oct 2014 2:51 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7892530	200.0000000	ppb
8) I Fluorobenzene #2	6.10	13215363	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	6330379	212.0247981	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 106.01%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	8004482	238.5426043	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 119.27%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	202646639	4.8925336	ppm
3) H,M TPHG C6 - C12	5.70	196564819	4.8994004	ppm
4) h,m TPHGAK C6 to C10	5.70	156719952	4.8184999	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	166914236	4.8479892	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	6181101	159.4070108	ppb
11) T,M benzene	5.93	7906561	67.5031556	ppb
12) T,M toluene	7.73	34165230	296.2379694	ppb
13) T,M ethylbenzene	9.29	10310783	98.5209979	ppb
14) T,M m&p-xylene	9.48	36051623	313.2626996	ppb
15) T,M o-xylene	9.90	13140807	128.7005830	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	7331237	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	19779602	NoCal	ppb
18) T,M Naphthalene	14.59	649007	NoCal	ppb

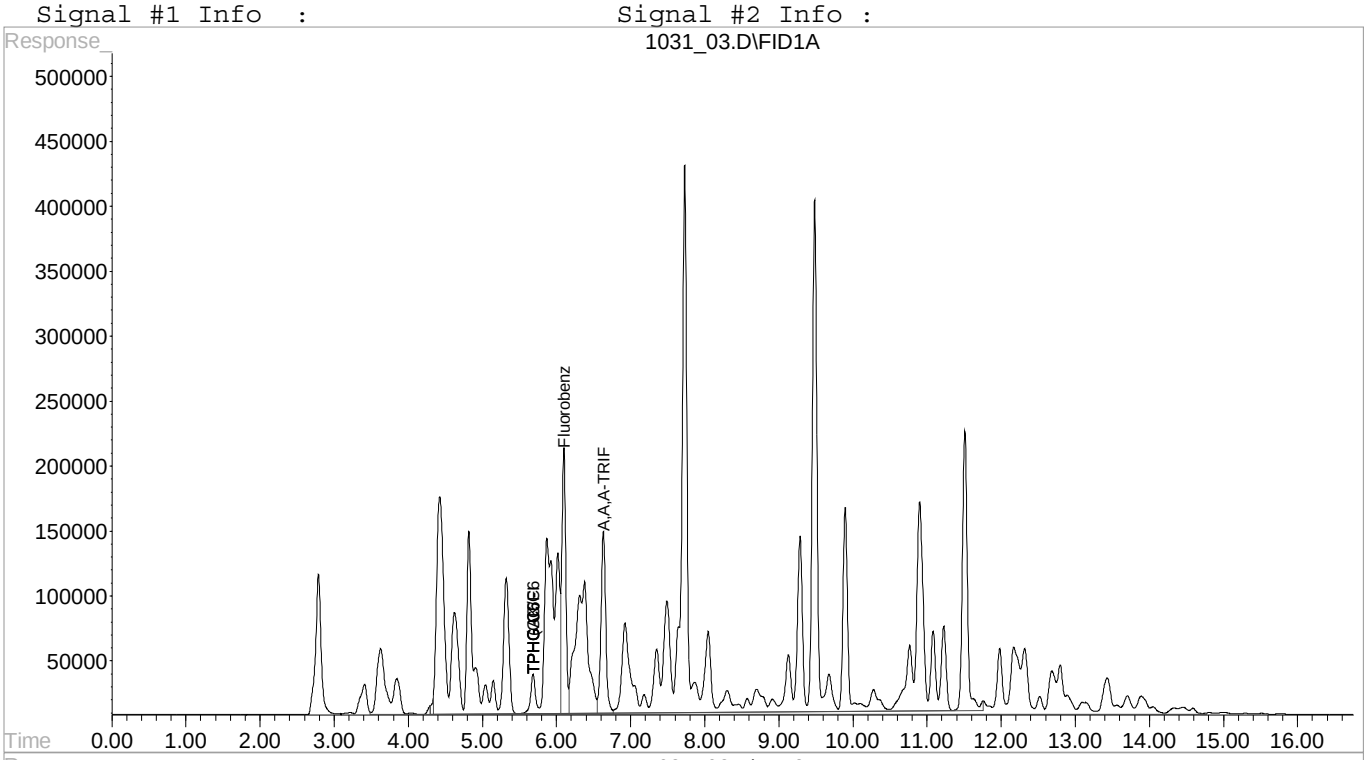
(f)=RT Delta > 1/2 Window (m)=manual int.

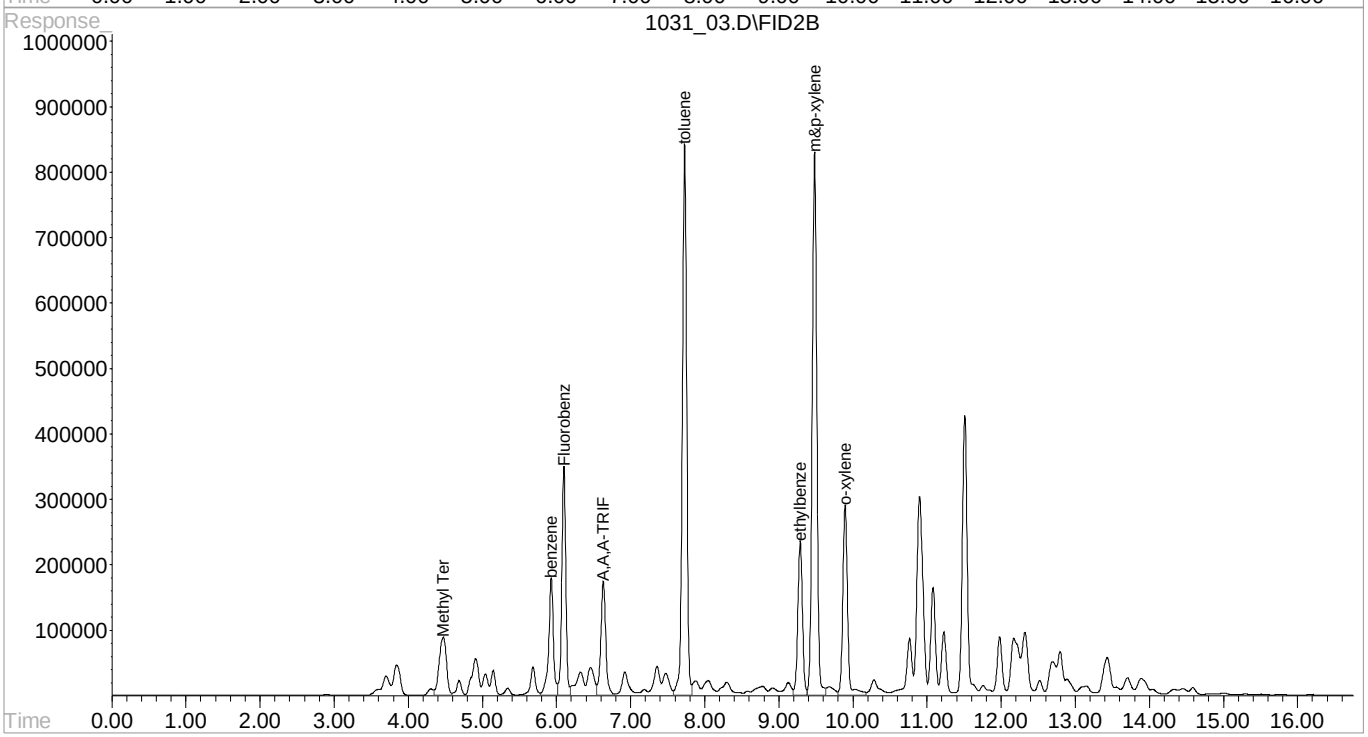
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID2B.CH
Acq On : 31 Oct 2014 2:51 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID2B.CH
Acq On : 31 Oct 2014 3:42 am Operator: 621
Sample : LCSGRO 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7712988	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12990681	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5759176	197.3834994	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 98.69%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	7482873	226.8549430	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 113.43%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	170356852	4.2086961	ppm
3) H,M TPHG C6 - C12	5.70	157447652	4.0157520	ppm
4) h,m TPHGAK C6 to C10	5.70	134391105	4.2281621	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	141965145	4.2193305	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	5268816	138.2298224	ppb
11) T,M benzene	5.93	7951817	69.0637168	ppb
12) T,M toluene	7.73	47778650	421.4416047	ppb
13) T,M ethylbenzene	9.29	9919882	96.4252566	ppb
14) T,M m&p-xylene	9.48	38209529	337.7557173	ppb
15) T,M o-xylene	9.90	13813628	137.6300931	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	5726251	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	15239084	NoCal	ppb
18) T,M Naphthalene	14.59	266753	NoCal	ppb

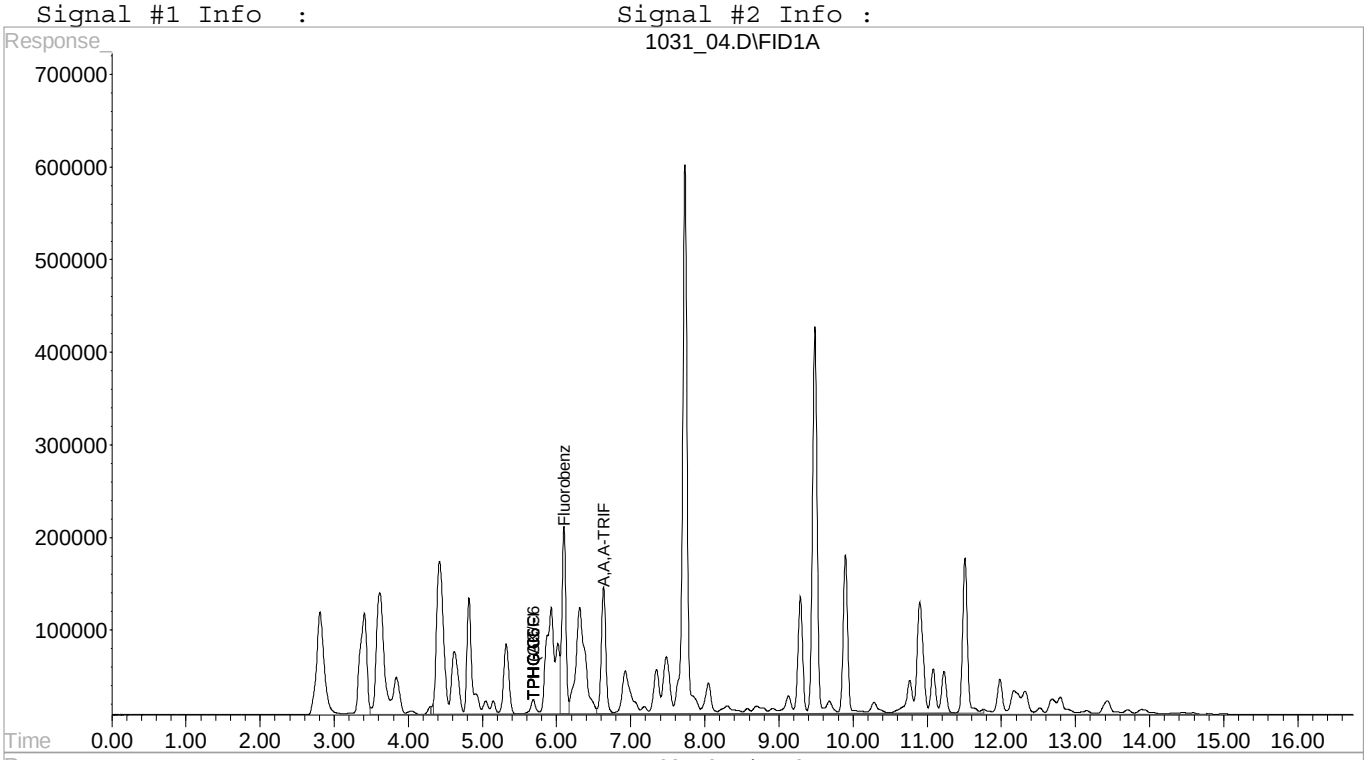
(f)=RT Delta > 1/2 Window (m)=manual int.

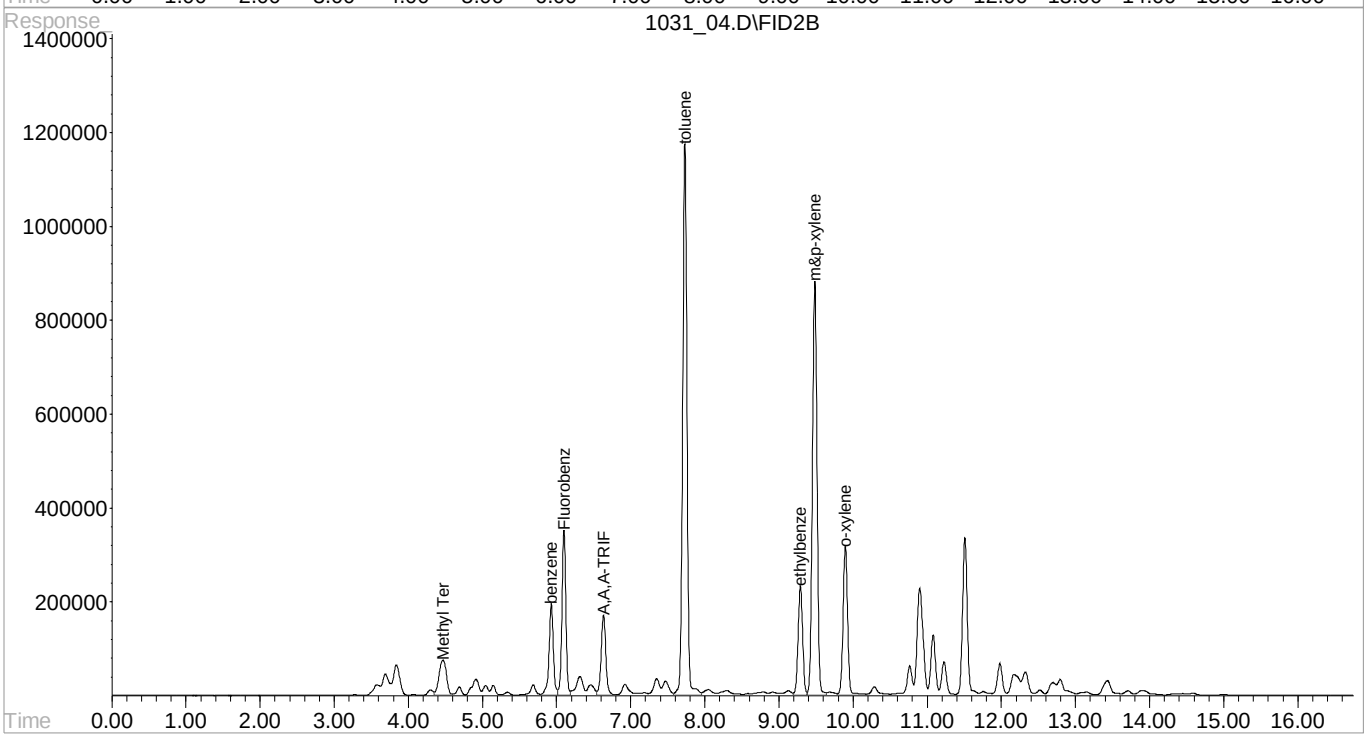
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID2B.CH
Acq On : 31 Oct 2014 3:42 am Operator: 621
Sample : LCSGRO 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID2B.CH
Acq On : 31 Oct 2014 4:04 am Operator: 621
Sample : LCSDGRO 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

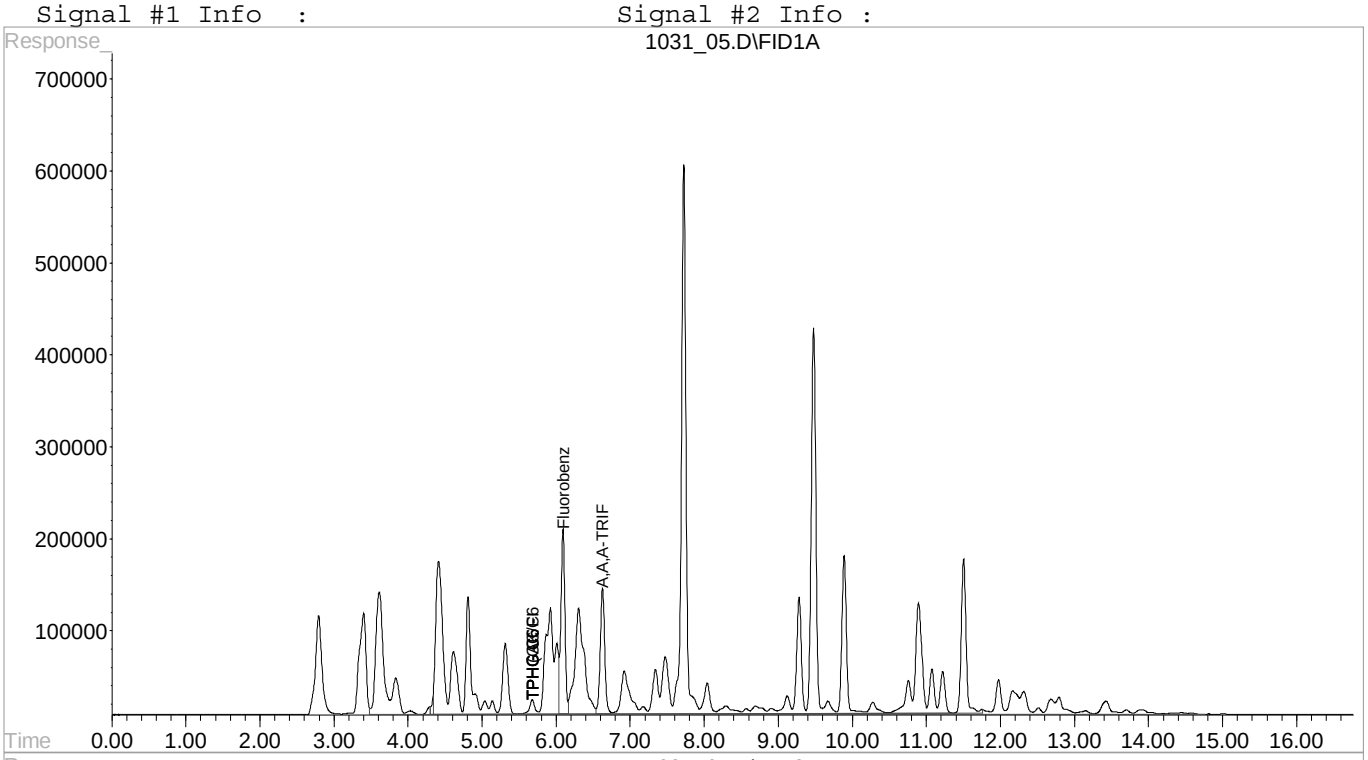
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7664214	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12929106	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5744288	198.1261274	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 99.06%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	7431960	226.3844741	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 113.19%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	170936323	4.2498870	ppm
3) H,M TPHG C6 - C12	5.70	158116758	4.0584824	ppm
4) h,m TPHGAK C6 to C10	5.70	135202885	4.2807724	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	142747515	4.2695828	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	5262898	138.7321474	ppb
11) T,M benzene	5.92	7974085	69.5869622	ppb
12) T,M toluene	7.72	47964790	425.0984292	ppb
13) T,M ethylbenzene	9.28	9930318	96.9864130	ppb
14) T,M m&p-xylene	9.48	38283983	340.0255596	ppb
15) T,M o-xylene	9.89	13788033	138.0293343	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	5718266	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	15237205	NoCal	ppb
18) T,M Naphthalene	14.58	234913	NoCal	ppb

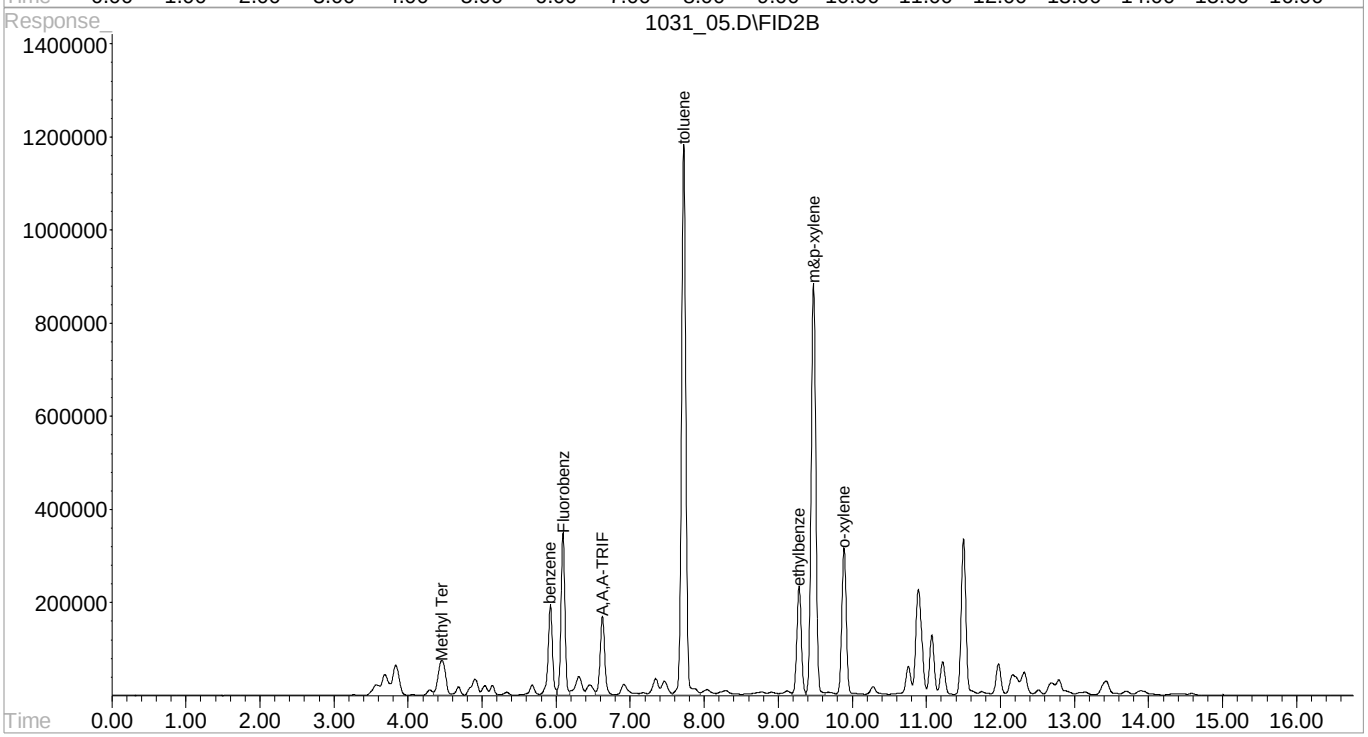
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID2B.CH
Acq On : 31 Oct 2014 4:04 am Operator: 621
Sample : LCSDGRO 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID2B.CH
Acq On : 31 Oct 2014 4:38 am Operator: 621
Sample : MSGRO 5x WG751571 L730246-01 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

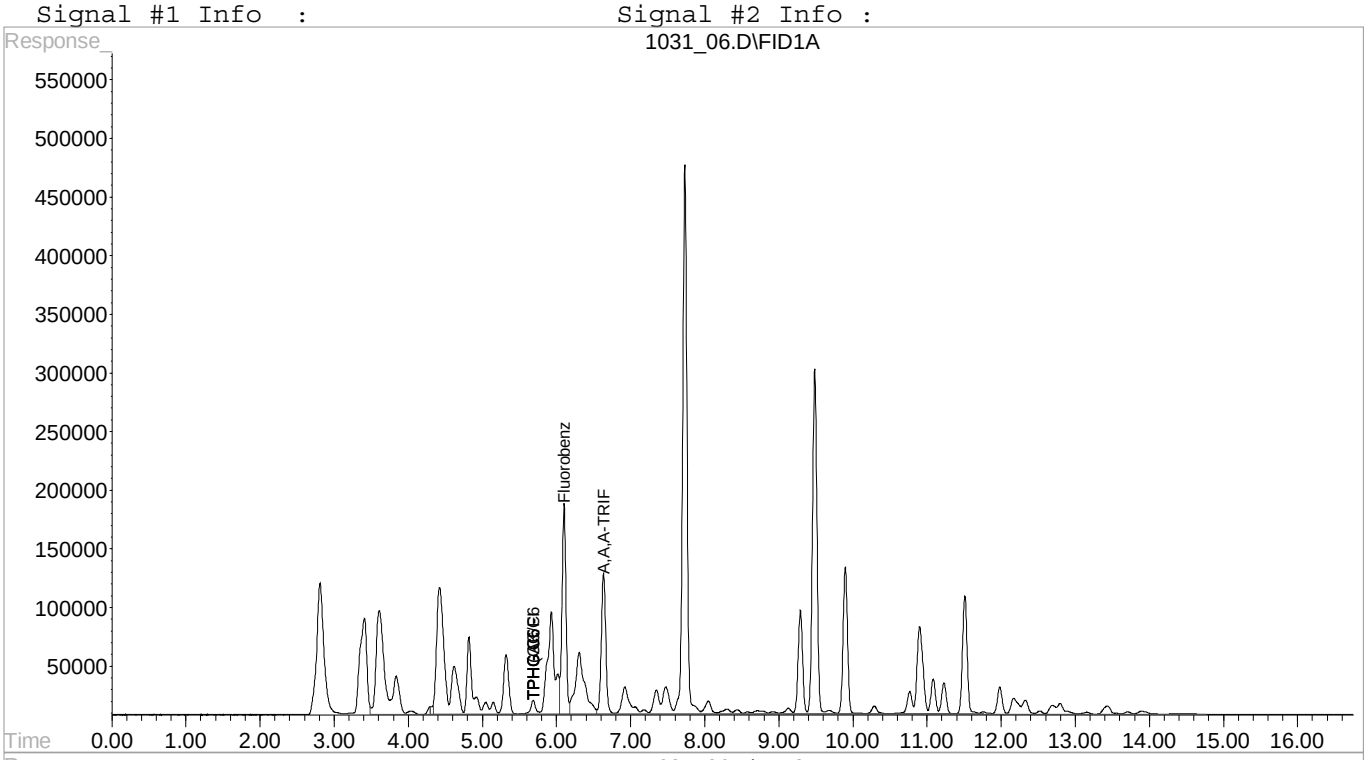
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	6794280	200.0000000	ppb
8) I Fluorobenzene #2	6.10	11457958	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5021720	195.3809204	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 97.69%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6311219	216.9291048	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 108.46%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	103488913	14.5121246	ppm
3) H,M TPHG C6 - C12	5.70	94287036	13.6499760	ppm
4) h,m TPHGAK C6 to C10	5.70	83415142	14.8961903	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	87765452	14.8058932	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	4549083	676.5614667	ppb
11) T,M benzene	5.93	6179545	304.2529140	ppb
12) T,M toluene	7.73	37245534	1862.3976603	ppb
13) T,M ethylbenzene	9.29	7048695	388.4075853	ppb
14) T,M m&p-xylene	9.48	27000270	1352.9876003	ppb
15) T,M o-xylene	9.90	9927223	560.6968533	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	3512547	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	9025539	NoCal	ppb
18) T,M Naphthalene	14.59	115744	NoCal	ppb

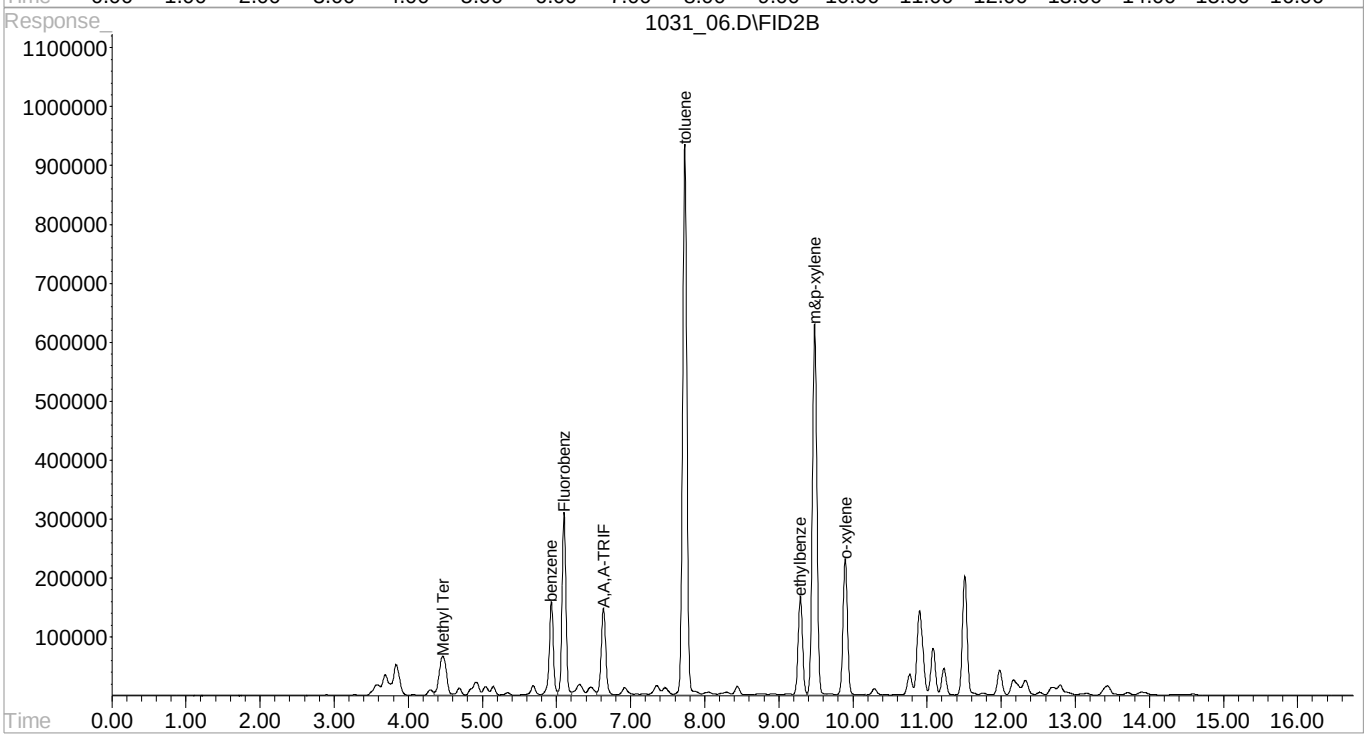
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID2B.CH
Acq On : 31 Oct 2014 4:38 am Operator: 621
Sample : MSGRO 5x WG751571 L730246-01 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID2B.CH
Acq On : 31 Oct 2014 5:01 am Operator: 621
Sample : MSDGRO 5x WG751571 L730246-01 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

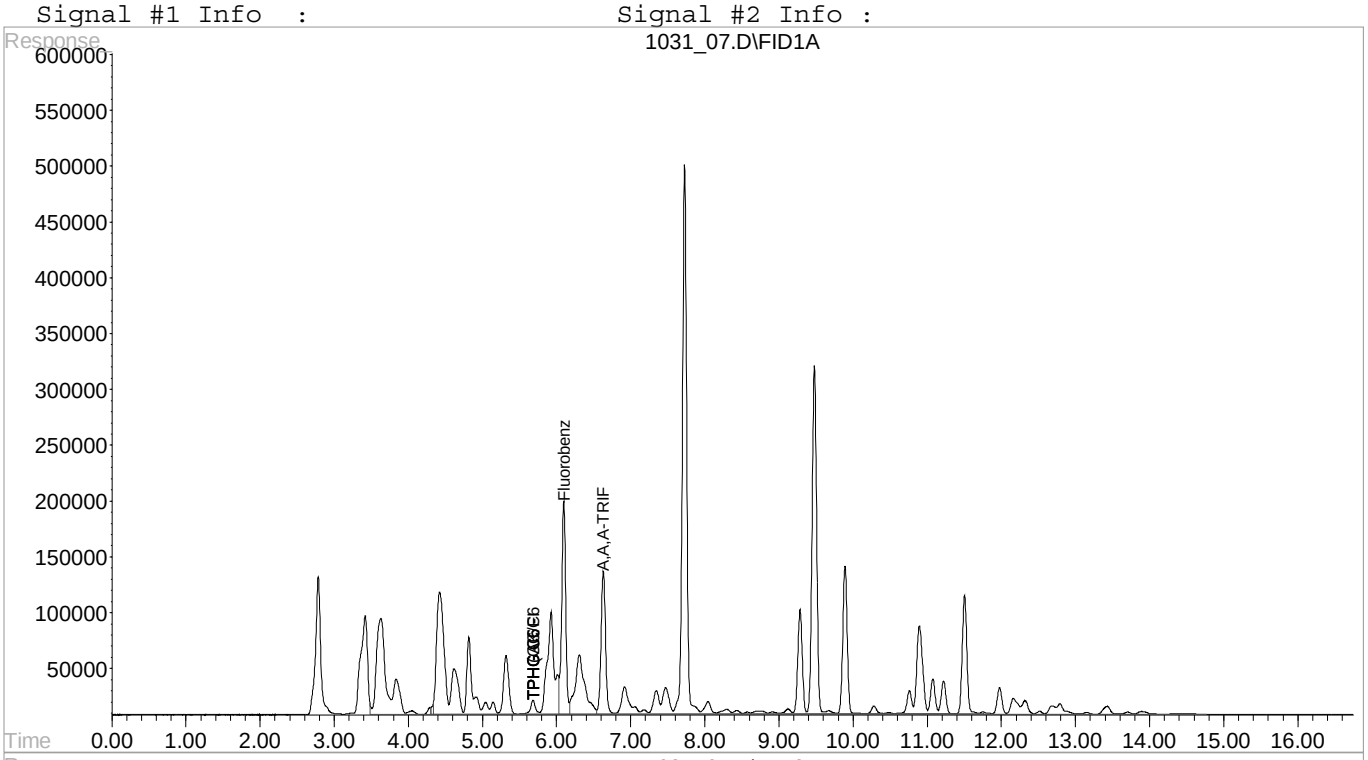
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7244178	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12234968	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5371835	196.0228508	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 98.01%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6752316	217.3510611	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 108.68%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	108540092	14.2751845	ppm
3) H,M TPHG C6 - C12	5.70	98863897	13.4236927	ppm
4) h,m TPHGAK C6 to C10	5.70	87666461	14.6831140	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	92258555	14.5972836	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	4781055	665.9039005	ppb
11) T,M benzene	5.93	6532478	301.2039614	ppb
12) T,M toluene	7.73	39032108	1827.7830296	ppb
13) T,M ethylbenzene	9.29	7440844	383.9773705	ppb
14) T,M m&p-xylene	9.48	28684343	1346.0929107	ppb
15) T,M o-xylene	9.89	10444248	552.4359205	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	3717143	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	9540435	NoCal	ppb
18) T,M Naphthalene	14.59	108645	NoCal	ppb

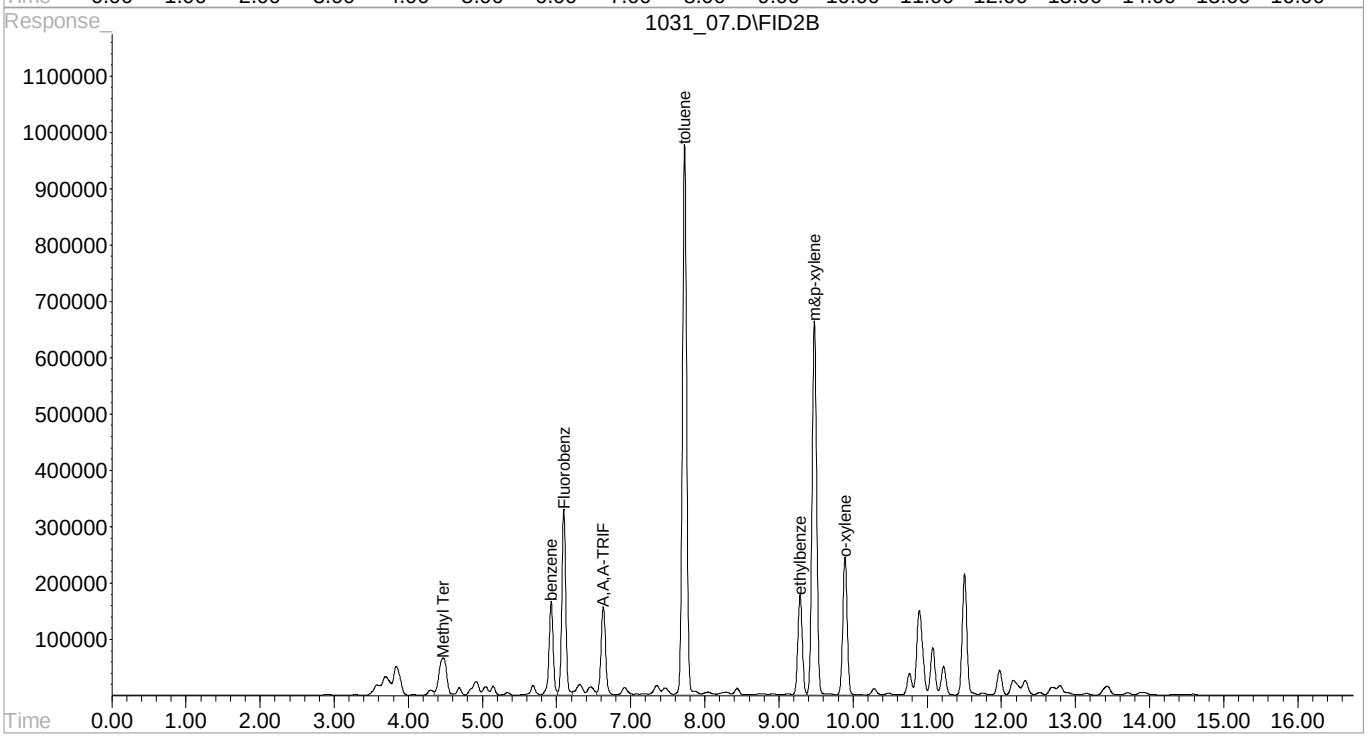
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID2B.CH
Acq On : 31 Oct 2014 5:01 am Operator: 621
Sample : MSDGRO 5x WG751571 L730246-01 Inst : VOCGC1
Misc : soil SURIS14F10114/SPK14J27633 Multiplr: 5.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:35 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID2B.CH
Acq On : 31 Oct 2014 5:45 am Operator: 621
Sample : BLANK 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:36 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

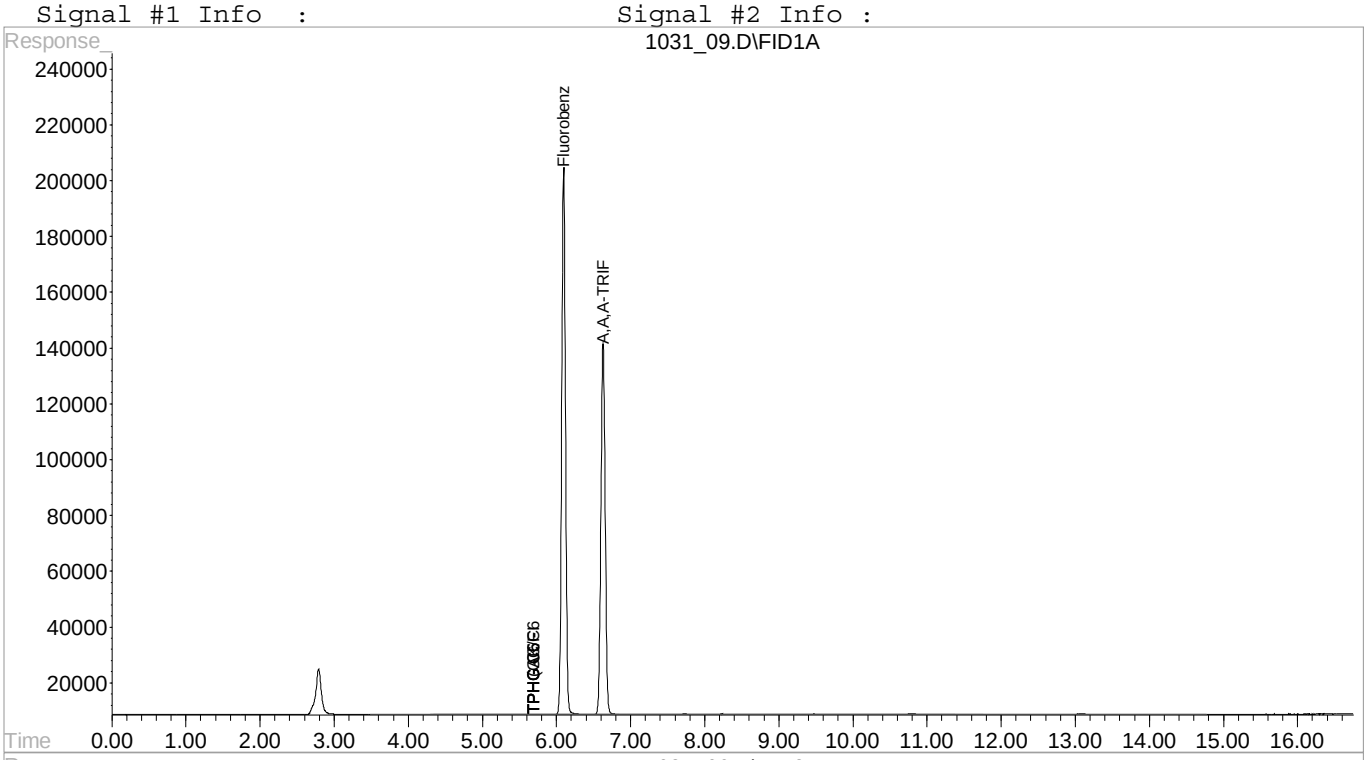
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7015964	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12191633	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5304885	199.8764967	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 99.94%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6523114	210.7195886	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 105.36%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	509407	0.0138353	ppm
3) H,M TPHG C6 - C12	5.70	491017	0.0137677	ppm
4) h,m TPHGAK C6 to C10	5.70	266200	0.0092072	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	285959	0.0093433	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
11) T,M benzene	5.93	6869	0.0635698	ppb
12) T,M toluene	7.73	24725	0.2323831	ppb
13) T,M ethylbenzene	9.29	6454	0.0668508	ppb
14) T,M m&p-xylene	9.48	24436	0.2301561	ppb
15) T,M o-xylene	9.88	14843	0.1575748	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	3991	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	10287	NoCal	ppb
18) T,M Naphthalene	0.00	0	N.D.	ppb

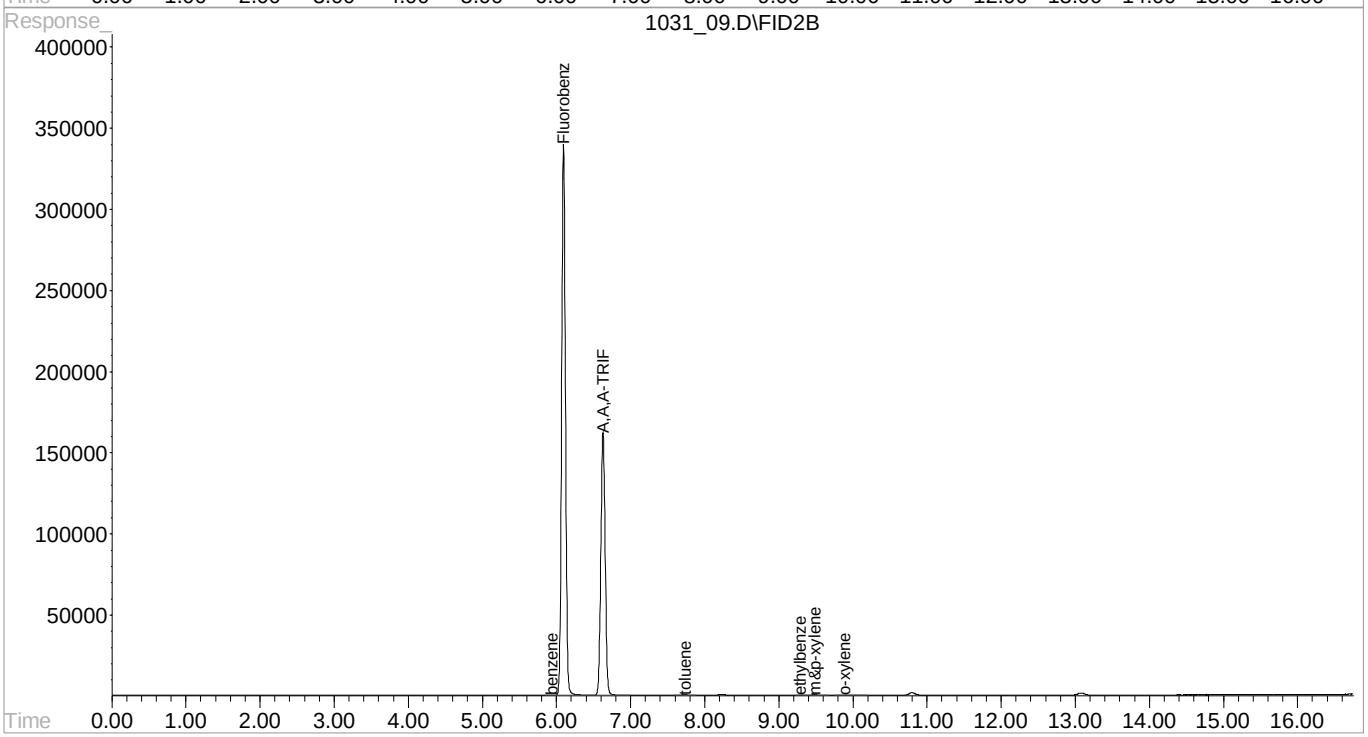
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID2B.CH
Acq On : 31 Oct 2014 5:45 am Operator: 621
Sample : BLANK 1x WG751571 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 10:36 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID2B.CH
Acq On : 31 Oct 2014 10:33 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:58 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

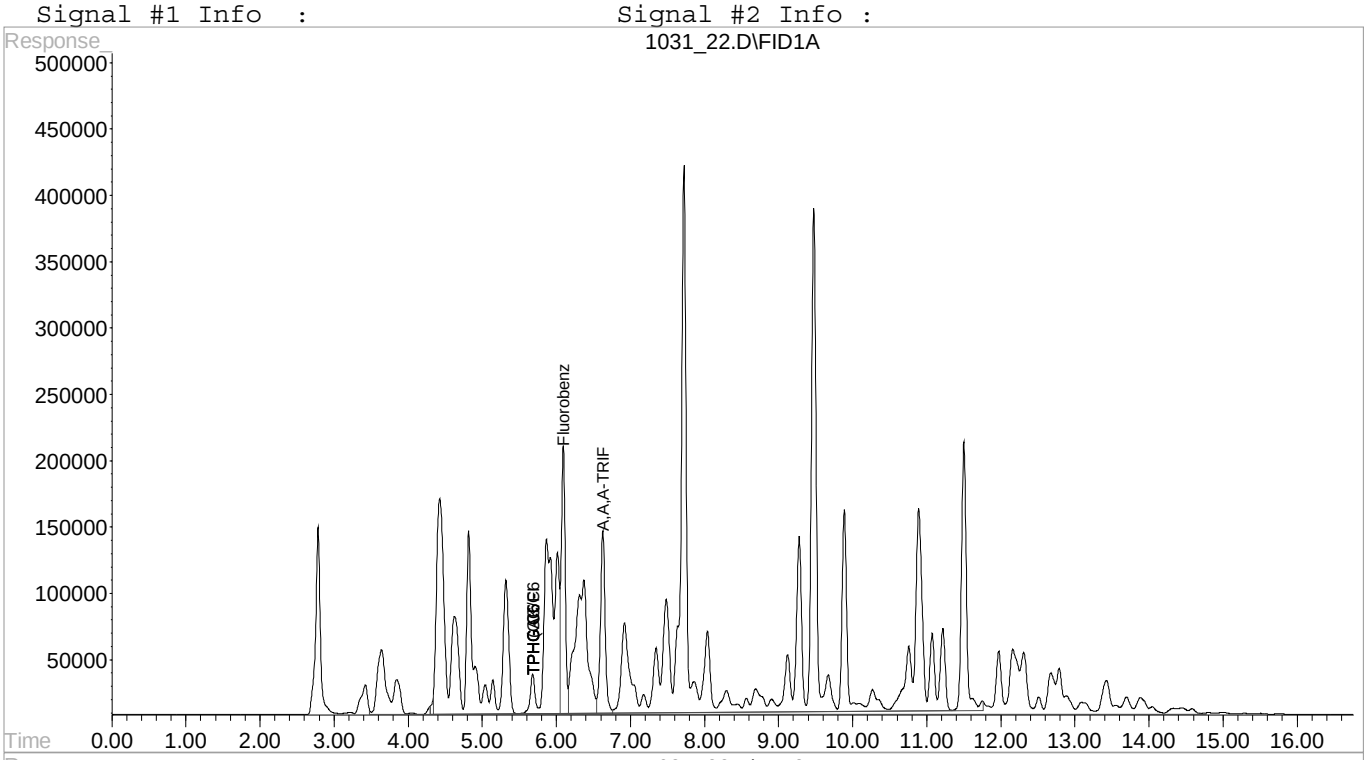
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7796277	200.0000000	ppb
8) I Fluorobenzene #2	6.10	13097936	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	6214860	210.7255621	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 105.36%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	7953495	239.1481050	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 119.57%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	196763809	4.8091530	ppm
3) H,M TPHG C6 - C12	5.70	191023778	4.8200721	ppm
4) h,m TPHGAK C6 to C10	5.70	153119624	4.7659269	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	162801759	4.7869216	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	6189398	161.0520382	ppb
11) T,M benzene	5.93	7892749	67.9893643	ppb
12) T,M toluene	7.72	33788492	295.5979490	ppb
13) T,M ethylbenzene	9.28	10162352	97.9732690	ppb
14) T,M m&p-xylene	9.48	35383079	310.2099467	ppb
15) T,M o-xylene	9.89	12221997	120.7749544	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	7104248	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	18970892	NoCal	ppb
18) T,M Naphthalene	14.58	588925	NoCal	ppb

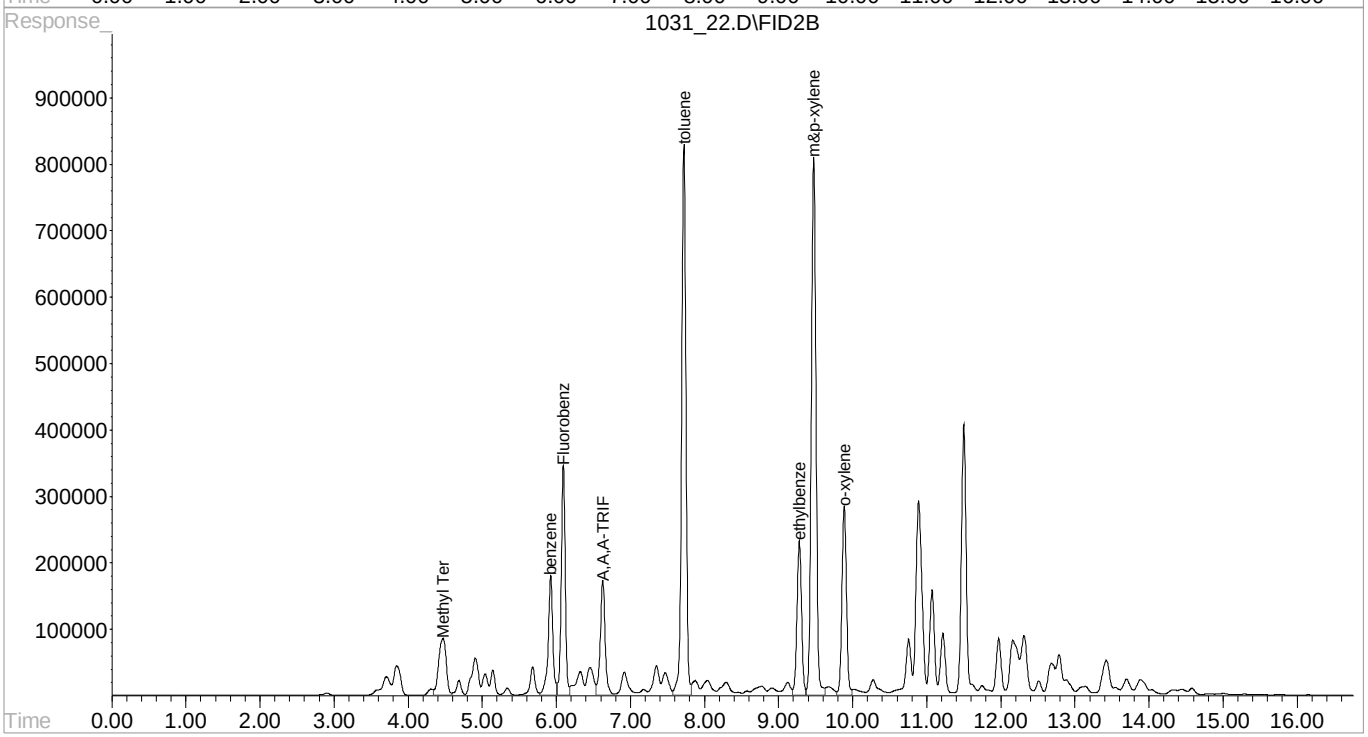
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID2B.CH
Acq On : 31 Oct 2014 10:33 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:58 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID2B.CH
Acq On : 31 Oct 2014 11:44 am Operator: 621
Sample : L729802-01 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.93
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

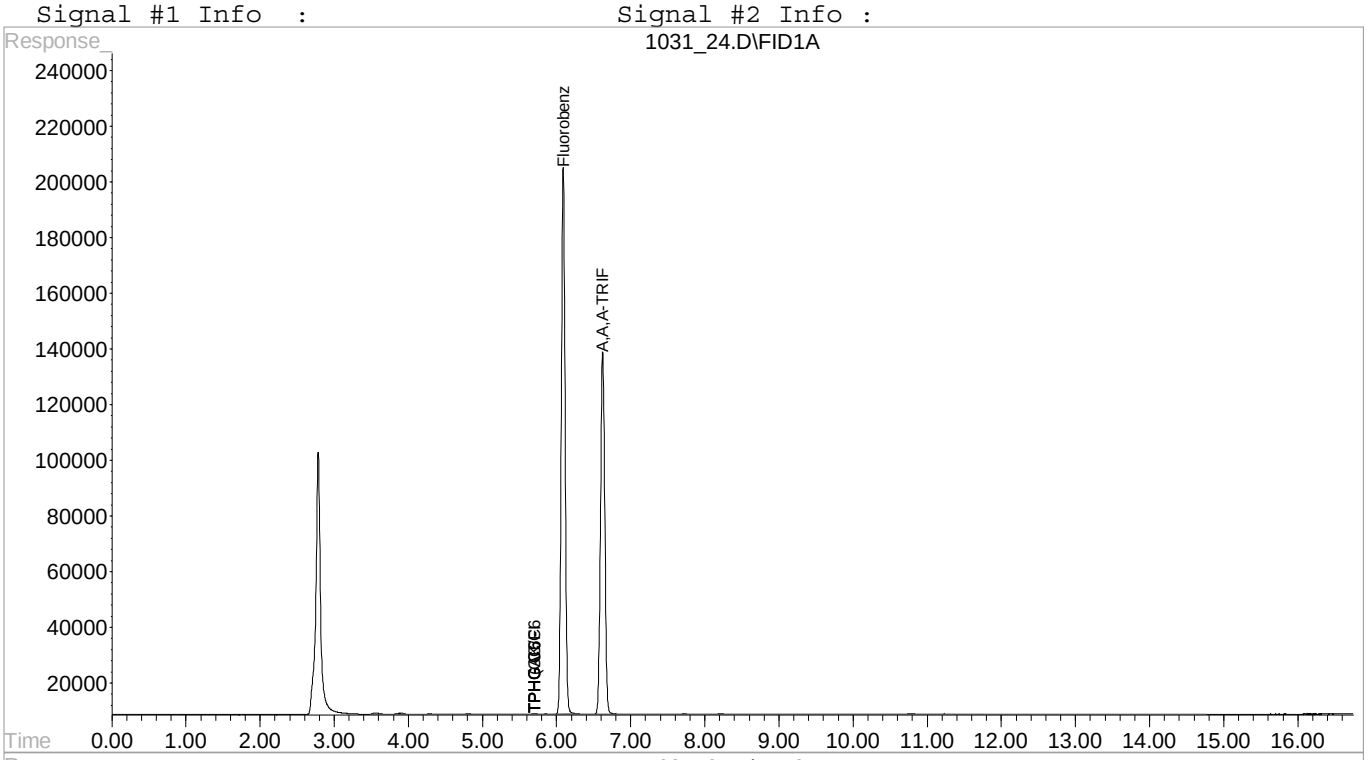
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7037391	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12539362	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5192464	195.0450685	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 97.52%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	6529490	205.0763801	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 102.54%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	659629	0.0166105	ppm
3) H,M TPHG C6 - C12	5.70	563825	0.0146578	ppm
4) h,m TPHGAK C6 to C10	5.70	348152	0.0111646	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	363907	0.0110242	ppm
10) T,M Methyl Tert-Butyl Ether	4.49	7339	0.1855005	ppb
11) T,M benzene	5.92	11822	0.0989235	ppb
12) T,M toluene	7.72	31434	0.2671402	ppb
13) T,M ethylbenzene	9.28	10418	0.0975637	ppb
14) T,M m&p-xylene	9.50	20360	0.1734008	ppb
15) T,M o-xylene	9.93	14144	0.1357700	ppb
16) T,M 1,3,5-Trimethylbenzene	11.03f	27999	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	15153	NoCal	ppb
18) T,M Naphthalene	14.67f	9323	NoCal	ppb

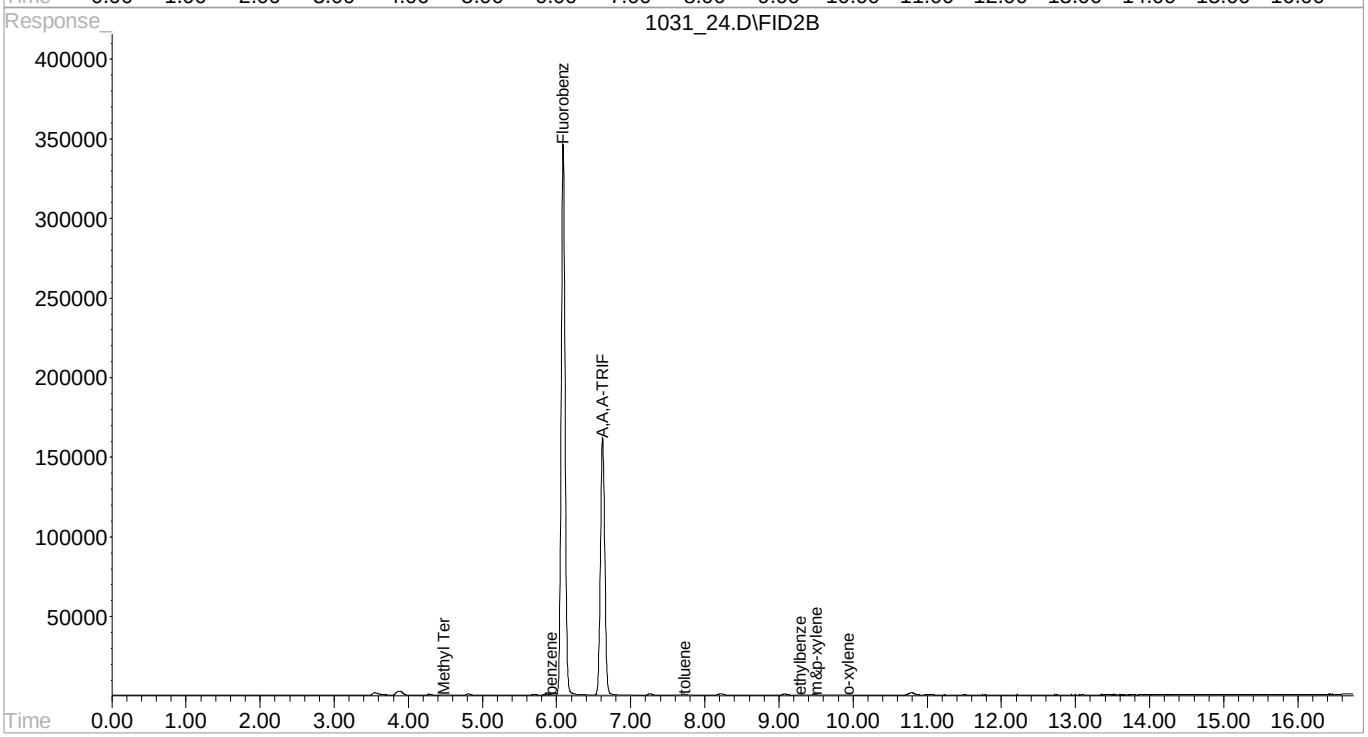
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID2B.CH
Acq On : 31 Oct 2014 11:44 am Operator: 621
Sample : L729802-01 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.93
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 25.D\FID2B.CH
Acq On : 31 Oct 2014 12:06 pm Operator: 621
Sample : L729802-03 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.80
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

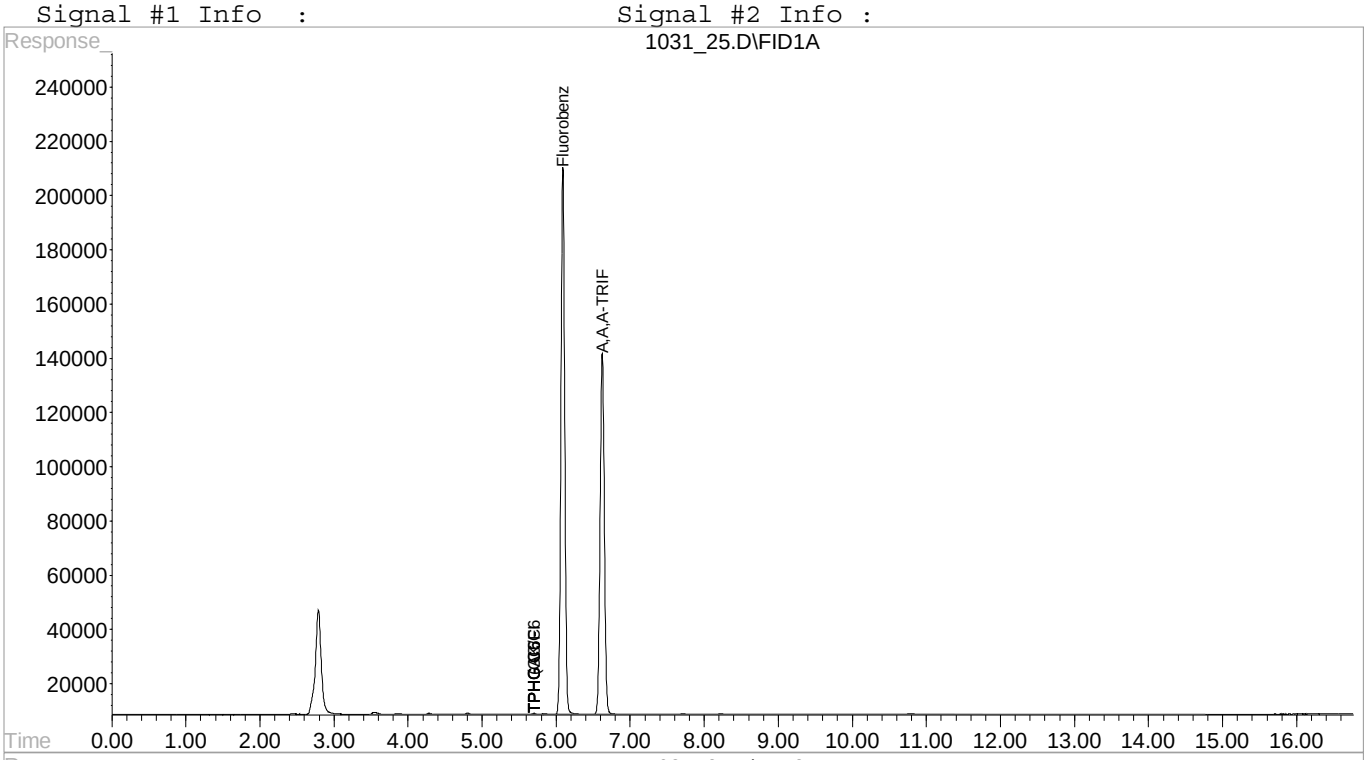
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7212798	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12773977	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5303735	194.3798121	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 97.19%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	6647044	204.9341117	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 102.47%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	582922	0.0123199	ppm
3) H,M TPHG C6 - C12	5.70	503077	0.0109768	ppm
4) h,m TPHGAK C6 to C10	5.70	349950	0.0094188	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	336183	0.0085477	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	15965	0.3407703	ppb
11) T,M benzene	5.85f	37759	0.2668099	ppb
12) T,M toluene	7.72	35829	0.2571158	ppb
13) T,M ethylbenzene	9.33	8462	0.0669176	ppb
14) T,M m&p-xylene	9.48	23692	0.1703866	ppb
15) T,M o-xylene	9.92	13940	0.1129989	ppb
16) T,M 1,3,5-Trimethylbenzene	11.05	20549	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.49	9422	NoCal	ppb
18) T,M Naphthalene	14.62	3328	NoCal	ppb

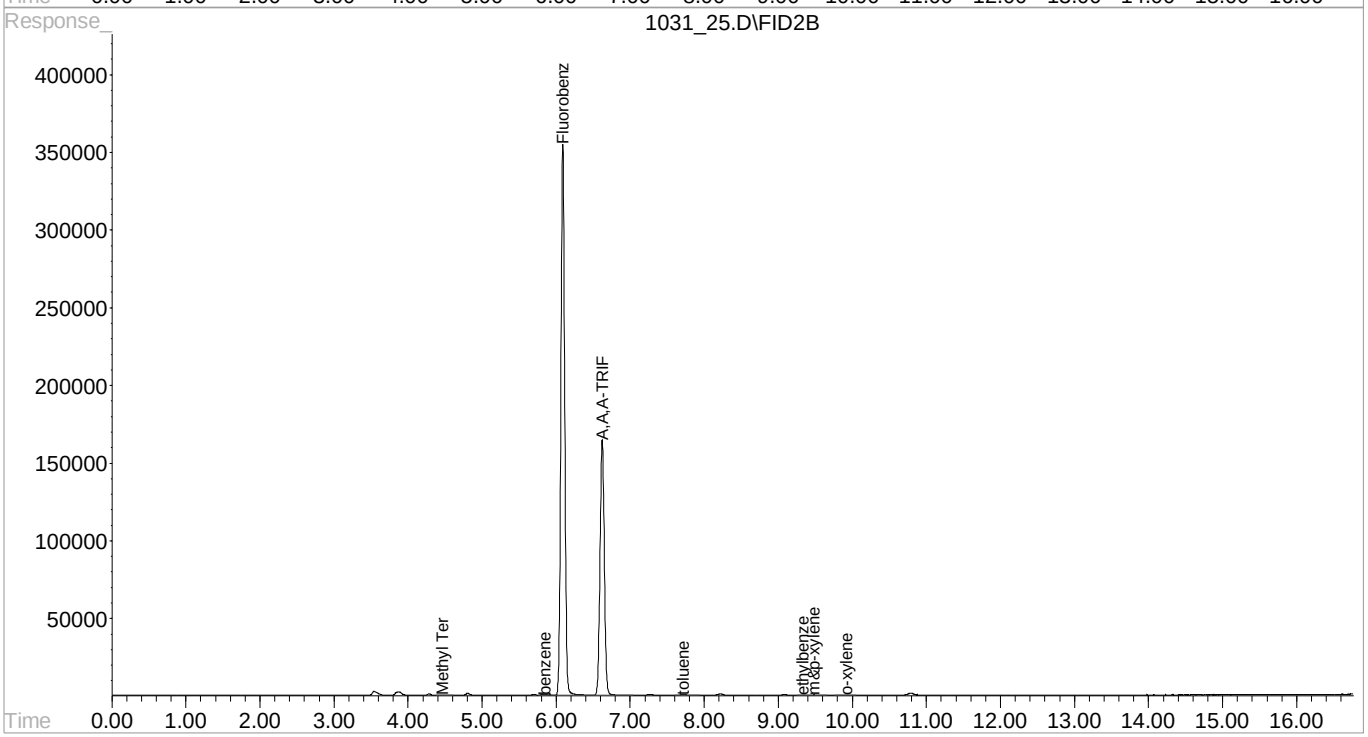
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 25.D\FID2B.CH
Acq On : 31 Oct 2014 12:06 pm Operator: 621
Sample : L729802-03 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.80
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 26.D\FID2B.CH
Acq On : 31 Oct 2014 12:30 pm Operator: 621
Sample : L729802-04 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.78
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7443139	200.0000000	ppb
8) I Fluorobenzene #2	6.09	13183292	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5476365	194.4954106	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 97.25%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6849362	204.6152701	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.31%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	840272	0.0167791	ppm
3) H,M TPHG C6 - C12	5.70	757710	0.0156205	ppm
4) h,m TPHGAK C6 to C10	5.70	482407	0.0122675	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	507430	0.0121899	ppm
10) T,M Methyl Tert-Butyl Ether	4.48	18846	0.3800320	ppb
11) T,M benzene	5.93	52288	0.3490510	ppb
12) T,M toluene	7.72	56883	0.3856429	ppb
13) T,M ethylbenzene	9.29	14847	0.1109231	ppb
14) T,M m&p-xylene	9.47	26476	0.1798789	ppb
15) T,M o-xylene	9.90	18607	0.1424890	ppb
16) T,M 1,3,5-Trimethylbenzene	11.04f	23160	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	11406	NoCal	ppb
18) T,M Naphthalene	0.00	0	N.D.	ppb

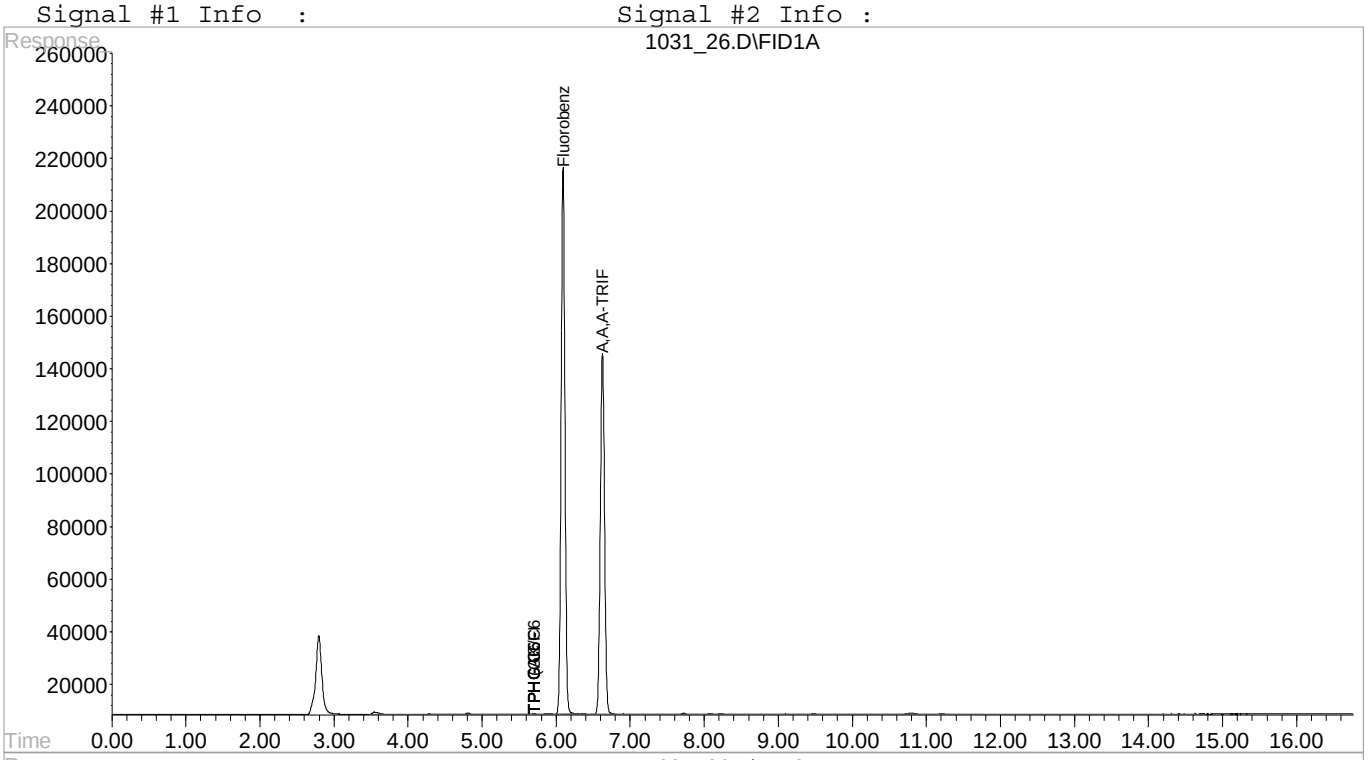
(f)=RT Delta > 1/2 Window (m)=manual int.

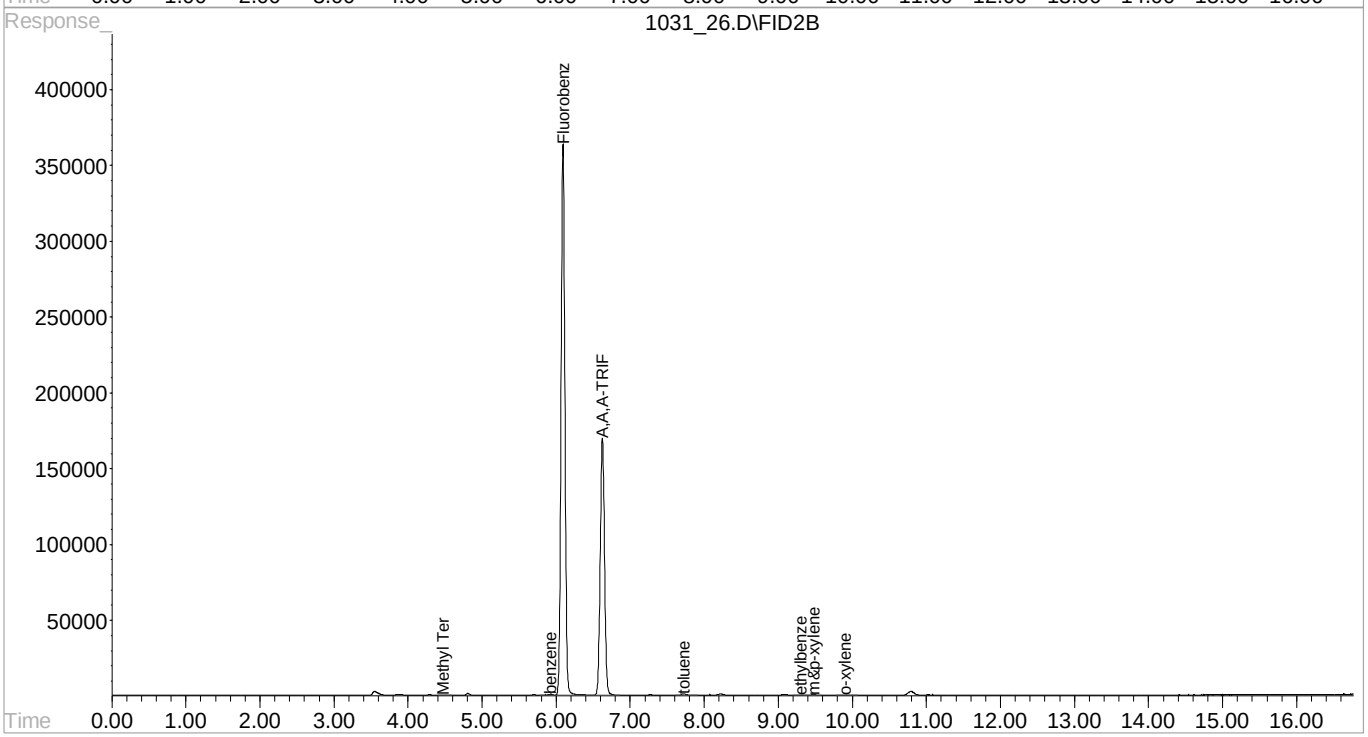
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 26.D\FID2B.CH
Acq On : 31 Oct 2014 12:30 pm Operator: 621
Sample : L729802-04 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.78
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 27.D\FID2B.CH
Acq On : 31 Oct 2014 12:52 pm Operator: 621
Sample : L729802-05 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.70
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

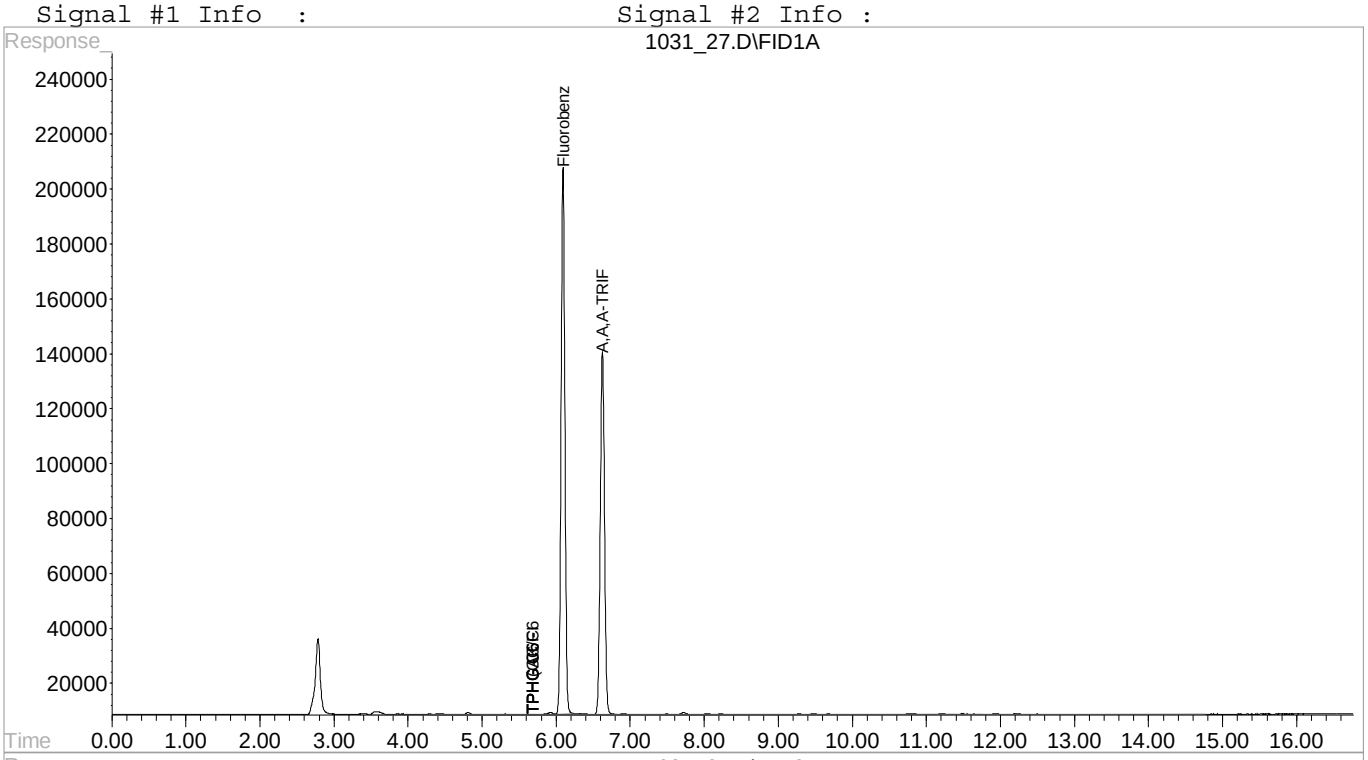
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7125225	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12739229	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5246422	194.6425571	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 97.32%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6614163	204.4765755	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 102.24%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	932514	0.0174568	ppm
3) H,M TPHG C6 - C12	5.70	831841	0.0160766	ppm
4) h,m TPHGAK C6 to C10	5.70	601375	0.0143367	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	635168	0.0143045	ppm
10) T,M Methyl Tert-Butyl Ether	4.48	30361	0.5685746	ppb
11) T,M benzene	5.93	77544	0.4807494	ppb
12) T,M toluene	7.72	70532	0.4440954	ppb
13) T,M ethylbenzene	9.29	14449	0.1002539	ppb
14) T,M m&p-xylene	9.48	31225	0.1970246	ppb
15) T,M o-xylene	9.89	10527	0.0748670	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	17533	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	11250	NoCal	ppb
18) T,M Naphthalene	14.60	4753	NoCal	ppb

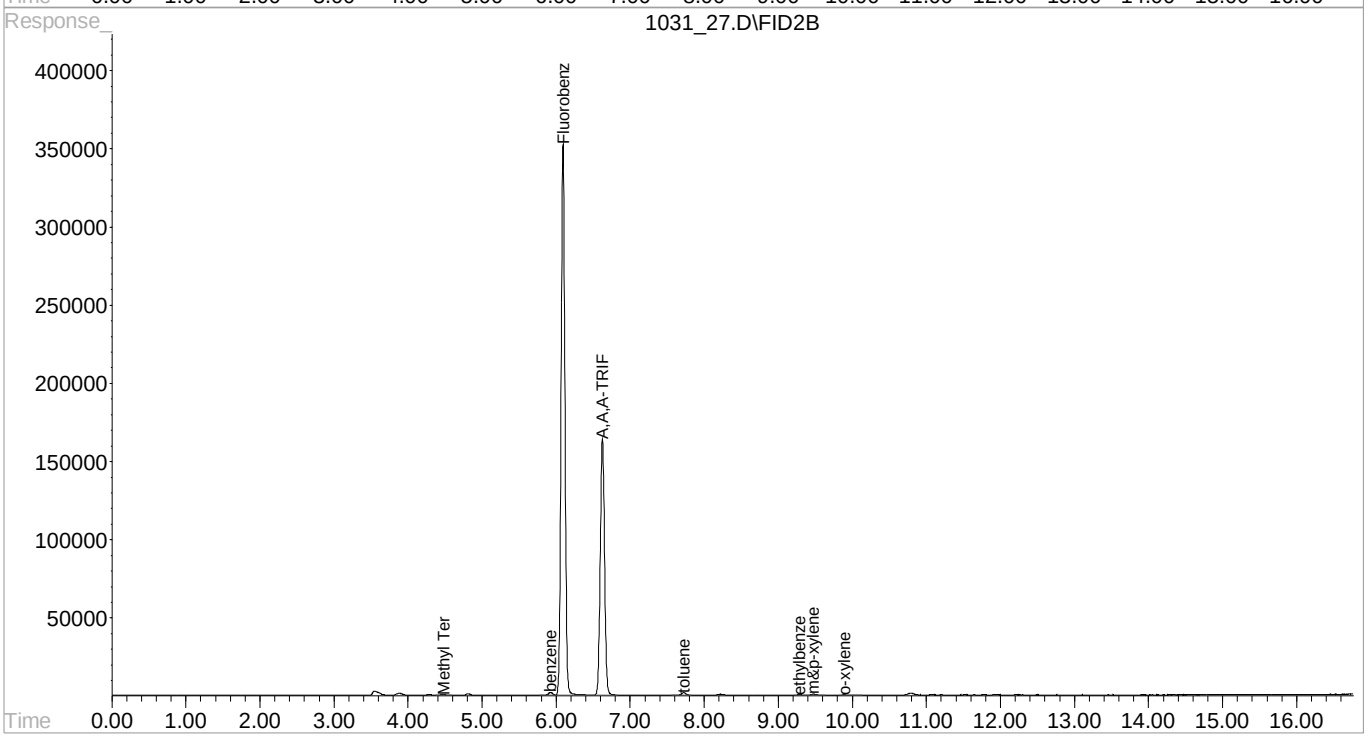
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 27.D\FID2B.CH
Acq On : 31 Oct 2014 12:52 pm Operator: 621
Sample : L729802-05 1x WG751571 GRO Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 0.70
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:59 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 36.D\FID2B.CH
Acq On : 31 Oct 2014 4:13 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 2 9:26 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

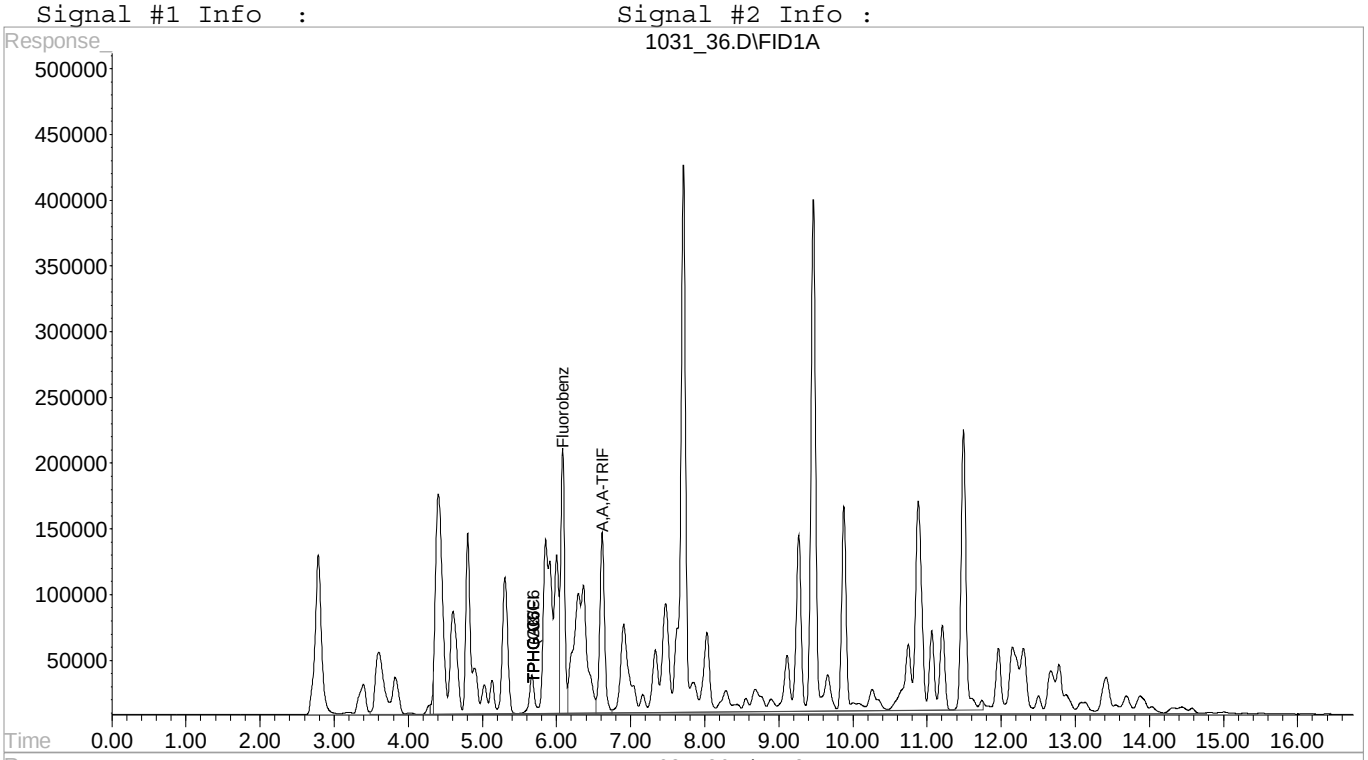
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.08	7729970	200.0000000	ppb
8) I Fluorobenzene #2	6.08	12940267	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	6224579	212.8655082	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 106.43%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	7848525	238.8672577	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 119.43%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	199338636	4.9138774	ppm
3) H,M TPHG C6 - C12	5.70	193689594	4.9292614	ppm
4) h,m TPHGAK C6 to C10	5.70	154214705	4.8411860	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	164268475	4.8714798	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	6138064	161.6623489	ppb
11) T,M benzene	5.91	7770060	67.7480282	ppb
12) T,M toluene	7.71	33796491	299.2704536	ppb
13) T,M ethylbenzene	9.27	10190367	99.4403857	ppb
14) T,M m&p-xylene	9.47	35783959	317.5470705	ppb
15) T,M o-xylene	9.88	12316200	123.1887574	ppb
16) T,M 1,3,5-Trimethylbenzene	11.06	7289413	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.49	19699071	NoCal	ppb
18) T,M Naphthalene	14.58	638880	NoCal	ppb

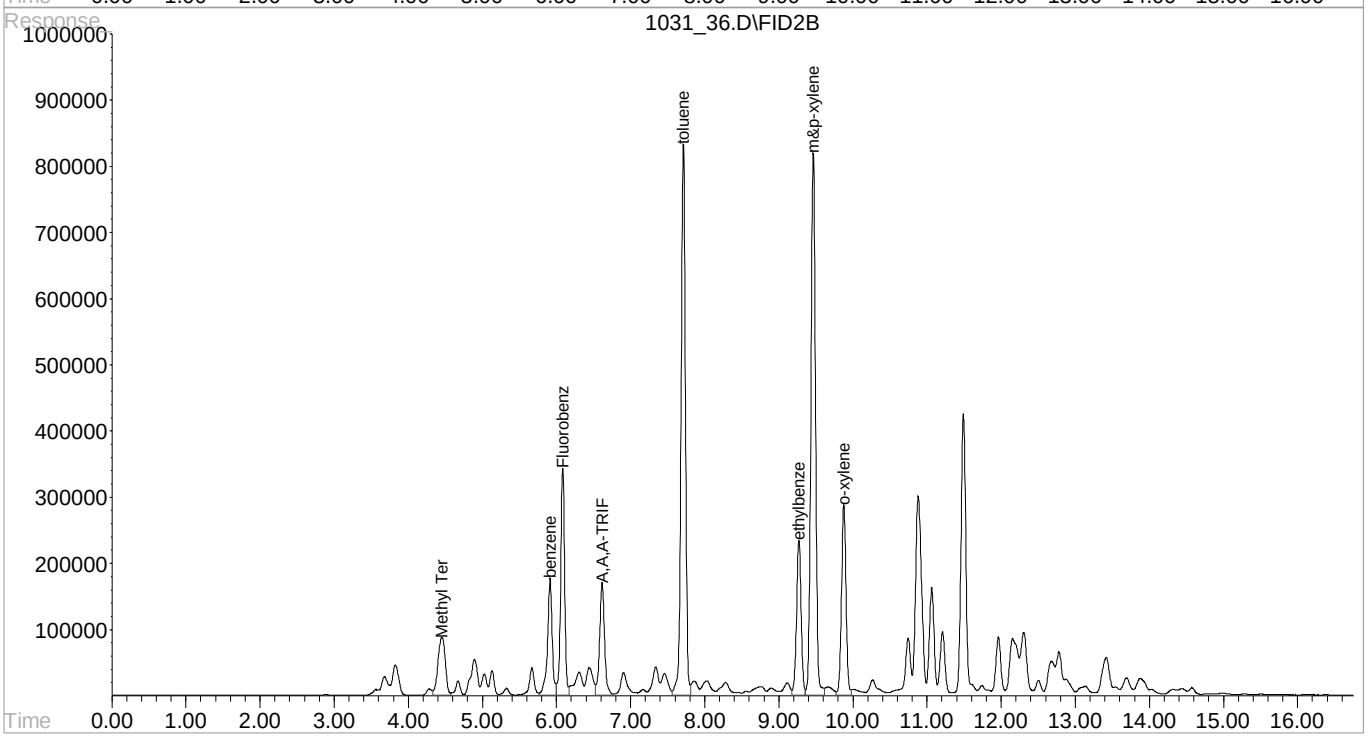
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 36.D\FID2B.CH
Acq On : 31 Oct 2014 4:13 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 2 9:26 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 55.D\FID1A.CH Vial: 55
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 55.D\FID2B.CH
Acq On : 31 Oct 2014 11:30 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 2 9:31 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

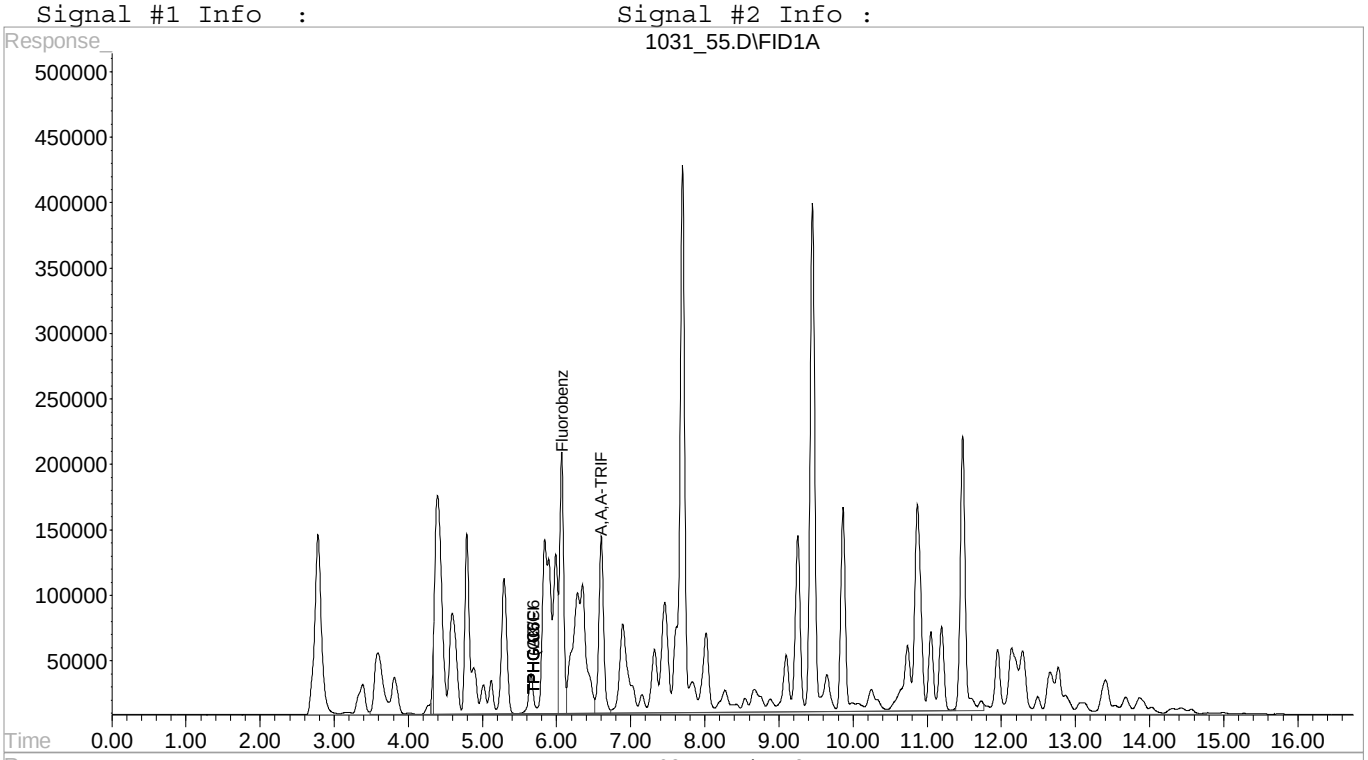
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.07	7704729	200.0000000	ppb
8) I Fluorobenzene #2	6.07	12911855	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.60	6168048	211.6233132	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 105.81%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.60	7812197	238.2848126	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 119.14%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	200219272	4.9517551	ppm
3) H,M TPHG C6 - C12	5.70	194216870	4.9588727	ppm
4) h,m TPHGAK C6 to C10	5.70	155209252	4.8883696	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	164853382	4.9048416	ppm
10) T,M Methyl Tert-Butyl Ether	4.44	6403895	169.0348337	ppb
11) T,M benzene	5.90	7900372	69.0358062	ppb
12) T,M toluene	7.70	34098952	302.6131776	ppb
13) T,M ethylbenzene	9.26	10270526	100.4431347	ppb
14) T,M m&p-xylene	9.45	35826087	318.6204783	ppb
15) T,M o-xylene	9.86	12373115	124.0303456	ppb
16) T,M 1,3,5-Trimethylbenzene	11.05	7258270	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.48	19467441	NoCal	ppb
18) T,M Naphthalene	14.57	546954	NoCal	ppb

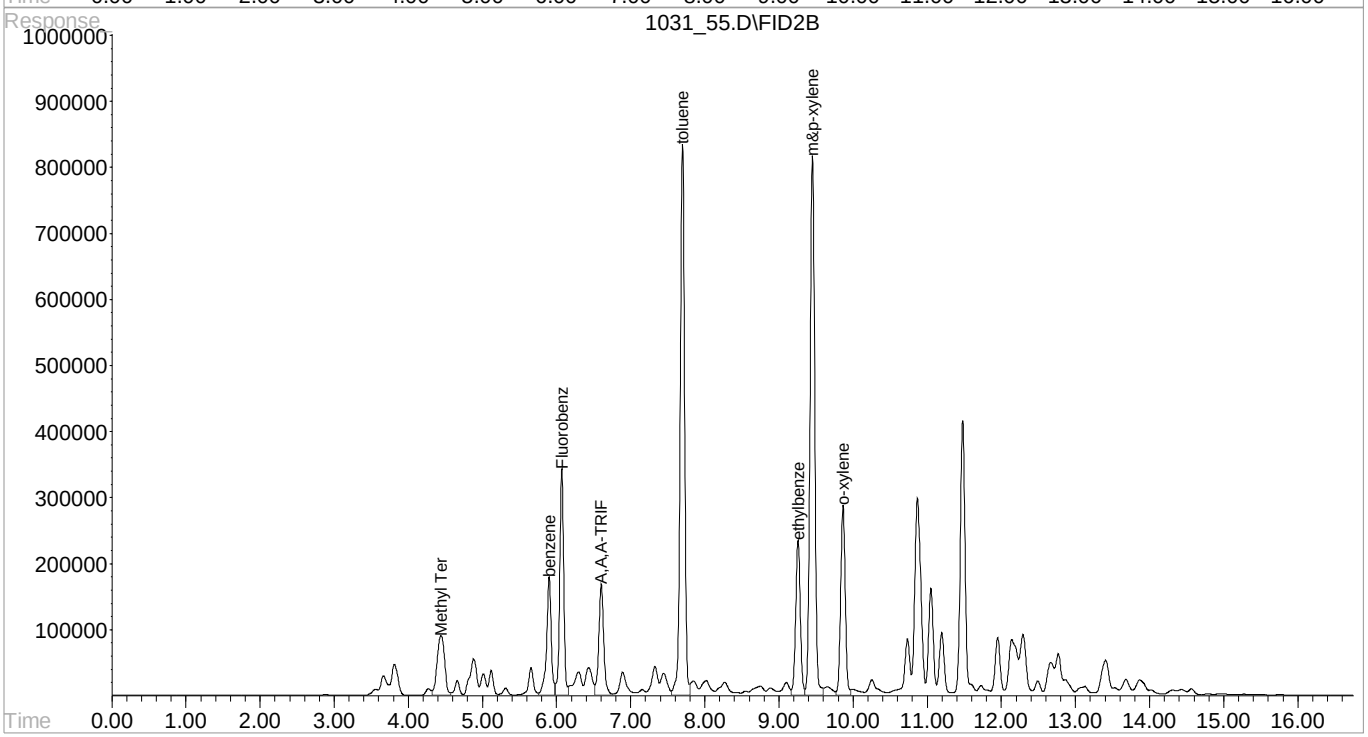
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 55.D\FID1A.CH Vial: 55
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 55.D\FID2B.CH
Acq On : 31 Oct 2014 11:30 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 2 9:31 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE

Released By : Ben Baker
Date Released : 11/2/2014 9:35:23 AM

Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	BG01J30N						1	1	10/31/14 0206	"soil SURIS14F10114"
2	1031_02	RT	BG01J30N						1	1	10/31/14 0228	"soil SURIS14F10114"
3	1031_03	ICV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 0251	"soil SURIS14F10114"
4	1031_04	LCSGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0342	"soil SURIS14F10114/SPK14J27633"
5	1031_05	LCSDGRO	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0404	"soil SURIS14F10114/SPK14J27633"
6	1031_06	MSGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0438	"soil SURIS14F10114/SPK14J27633"
7	1031_07	MSDGRO	BG01J30N	WG751571	GRO	SS			5	5	10/31/14 0501	"soil SURIS14F10114/SPK14J27633"
8	1031_08	INSTBLK	BG01J30N						1	1	10/31/14 0523	"soil SURIS14F10114"
9	1031_09	BLANK	BG01J30N	WG751571	GRO	SS			1	1	10/31/14 0545	"soil SURIS14F10114"
10	1031_10	L730246-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0629	"soil SURIS14F10114"
11	1031_11	L730264-01	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0651	"soil SURIS14F10114"
12	1031_12	L730264-02	BG01J30N	WG751571	GROCA	SS	ERMWCCA	CA	5	5	10/31/14 0713	"soil SURIS14F10114"
13	1031_13	L728733-11	BG01J30N	WG751571	NWTPHGX	SS	GEODESPOR	OR	1000	1000	10/31/14 0735	"soil SURIS14F10114"
14	1031_14	L729977-03	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0758	"soil SURIS14F10114"
15	1031_15	L729977-04	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0820	"soil SURIS14F10114"
16	1031_16	L729977-05	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0842	"soil SURIS14F10114"
17	1031_17	L729977-06	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0905	"soil SURIS14F10114"
18	1031_18	L729977-07	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0927	"soil SURIS14F10114"
19	1031_19	L729977-08	BG01J30N	WG751571	GRO	SS	XTOSMT	MT	5	5	10/31/14 0949	"soil SURIS14F10114"
20	1031_21	RT	BG01J30N						1	1	10/31/14 1011	"soil SURIS14F10114"
21	1031_22	CCV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 1033	"soil SURIS14F10114"
22	1031_23	INSTBLK	BG01J30N						1	1	10/31/14 1122	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE

Released By : Ben Baker
Date Released : 11/2/2014 9:35:23 AM

Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1031_24	L729802-01	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.93	10/31/14 1144	"soil SURIS14F10114"
24	1031_25	L729802-03	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.8	10/31/14 1206	"soil SURIS14F10114"
25	1031_26	L729802-04	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.78	10/31/14 1230	"soil SURIS14F10114"
26	1031_27	L729802-05	BG01J30N	WG751571	GRO	SS	URSTAZ	NM	1	0.7	10/31/14 1252	"soil SURIS14F10114"
27	1031_28	L729671-49	BG01J30N	WG751571	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 1315	"soil SURIS14F10114"
28	1031_29	L729819-02	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	46	46	10/31/14 1337	"soil SURIS14F10114"
29	1031_30	L729819-03	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	41.5	41.5	10/31/14 1359	"soil SURIS14F10114"
30	1031_31	L729819-04	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	1	0.95	10/31/14 1422	"soil SURIS14F10114"
31	1031_32	L729819-05	BG01J30N	WG751571	GRO	SS	BNSF4TRC	CA	1	0.95	10/31/14 1444	"soil SURIS14F10114"
32	1031_33	DNR L729819-06	BG01J30N	WG751571					1	0.86	10/31/14 1506	"soil SURIS14F10114"
33	1031_34	INSTBLK	BG01J30N						1	1	10/31/14 1528	"soil SURIS14F10114"
34	1031_35	RT	BG01J30N						1	1	10/31/14 1550	"soil SURIS14F10114"
35	1031_36	ICV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 1613	"soil SURIS14F10114"
36	1031_37	LCSGRO	BG01J30N	WG751266	GROCA	SS			1	1	10/31/14 1652	"soil SURIS14F10114/SPK14J27633"
37	1031_38	LCSDGRO	BG01J30N	WG751266	GROCA	SS			1	1	10/31/14 1714	"soil SURIS14F10114/SPK14J27633"
38	1031_39	MSGRO	BG01J30N	WG751266	GROCA	SS			5	5	10/31/14 1736	"soil SURIS14F10114/SPK14J27633"
39	1031_40	MSDGRO	BG01J30N	WG751266	GROCA	SS			5	5	10/31/14 1758	"soil SURIS14F10114/SPK14J27633"
40	1031_41	INSTBLK	BG01J30N						1	1	10/31/14 1821	"soil SURIS14F10114"
41	1031_42	BLANK	BG01J30N	WG751266	GROCA	SS			1	1	10/31/14 1842	"soil SURIS14F10114"
42	1031_43	L729671-70	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 1904	"soil SURIS14F10114"
43	1031_44	L729671-71	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 1926	"soil SURIS14F10114"
44	1031_45	L729671-72	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 1948	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPE
Released By : Ben Baker
Date Released : 11/2/2014 9:35:23 AM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
45	1031_46	L729671-73	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2011	"soil SURIS14F10114"
46	1031_47	L729671-74	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2033	"soil SURIS14F10114"
47	1031_48	L729671-75	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2055	"soil SURIS14F10114"
48	1031_49	L729671-76	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2117	"soil SURIS14F10114"
49	1031_50	L729671-77	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2139	"soil SURIS14F10114"
50	1031_51	L729671-78	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2202	"soil SURIS14F10114"
51	1031_52	L729671-79	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	10/31/14 2224	"soil SURIS14F10114"
52	1031_53	INSTBLK	BG01J30N						1	1	10/31/14 2246	"soil SURIS14F10114"
53	1031_54	RT	BG01J30N						1	1	10/31/14 2308	"soil SURIS14F10114"
54	1031_55	CCV GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/31/14 2330	"soil SURIS14F10114"
55	1031_56	INSTBLK	BG01J30N						1	1	10/31/14 2352	"soil SURIS14F10114"
56	1031_57	L729671-80	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0014	"soil SURIS14F10114"
57	1031_58	L729671-81	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0036	"soil SURIS14F10114"
58	1031_59	L729671-82	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0059	"soil SURIS14F10114"
59	1031_60	L729671-83	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0121	"soil SURIS14F10114"
60	1031_61	L729671-84	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0143	"soil SURIS14F10114"
61	1031_62	L729671-85	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0205	"soil SURIS14F10114"
62	1031_63	L729671-86	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0227	"soil SURIS14F10114"
63	1031_64	L729671-87	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0249	"soil SURIS14F10114"
64	1031_65	L729671-88	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0311	"soil SURIS14F10114"
65	1031_66	L729671-89	BG01J30N	WG751266	GROCA	SS	TETRAHTX	CA	5	5	11/01/14 0333	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : Derek Ramey
Date Released : 10/31/2014 4:44:50 PM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_01	INSTBLK	BG07I09N						1	1	10/31/14 0205	"soil ISSURR14C12923"
2	1031_02	RT	BG07I09N						1	1	10/31/14 0230	"water ISSURR14C12923"
3	1031_03	ICV GRO 5.5G PPM 14J27632	BG07I09N						1	1	10/31/14 0255	"water ISSURR14C12923"
4	1031_04	LCSGRO	BG07I09N	WG751567	GRO	GW			1	1	10/31/14 0342	"water ISSURR14C12923/spk14J27633"
5	1031_05	LCSDGRO	BG07I09N	WG751567	GRO	GW			1	1	10/31/14 0407	"water ISSURR14C12923/spk14J27633"
6	1031_06	MSGRO	BG07I09N	WG751567	GRO	GW			1	1	10/31/14 0440	"water ISSURR14C12923/spk14J27633"
7	1031_07	MSDGRO	BG07I09N	WG751567	GRO	GW			1	1	10/31/14 0505	"water ISSURR14C12923/spk14J27633"
8	1031_08	INSTBLK	BG07I09N						1	1	10/31/14 0530	"water ISSURR14C12923"
9	1031_09	BLANK	BG07I09N	WG751567	GRO	GW			1	1	10/31/14 0555	"water ISSURR14C12923"
10	1031_10	L730246-03 (TB)	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	1	1	10/31/14 0629	"water ISSURR14C12923"
11	1031_11	L729542-17	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	1	1	10/31/14 0654	"water ISSURR14C12923"
12	1031_12	L730246-02	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	1	1	10/31/14 0719	"water ISSURR14C12923"
13	1031_13	L730264-03	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	1	1	10/31/14 0744	"water ISSURR14C12923"
14	1031_14	L730264-04	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	1	1	10/31/14 0809	"water ISSURR14C12923"
15	1031_15	L729542-13	BG07I09N	WG751567	GROCA	GW	ERMWCCA	CA	50	50	10/31/14 0834	"water ISSURR14C12923"
16	1031_16	L729801-02	BG07I09N	WG751567	GRO	GW	ABTECHSAZ	AZ	1	1	10/31/14 0859	"water ISSURR14C12923"
17	1031_17	DNR L729801-04	BG07I09N	WG751567					10	10	10/31/14 0924	"water ISSURR14C12923"
18	1031_18	DNR L729801-06	BG07I09N	WG751567					25	25	10/31/14 0948	"water ISSURR14C12923"
19	1031_19	DNR L729801-08	BG07I09N	WG751567					50	50	10/31/14 1013	"water ISSURR14C12923"
20	1031_20	INSTBLK	BG07I09N						1	1	10/31/14 1038	"water ISSURR14C12923"
21	1031_21	RT	BG07I09N						1	1	10/31/14 1103	"water ISSURR14C12923"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : Derek Ramey
Date Released : 10/31/2014 4:44:50 PM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1031_22	CCV GRO 5.5G PPM 14J27632	BG07I09N						1	1	10/31/14 1128	"water ISSURR14C12923"
23	1031_23	INSTBLK	BG07I09N						1	1	10/31/14 1215	"water ISSURR14C12923"
24	1031_24	L729802-08	BG07I09N	WG751567	GRO	GW	URSTAZ	NM	1	1	10/31/14 1239	"water ISSURR14C12923"
25	1031_25	L730147-33	BG07I09N	WG751567	GRO	GW	URSTAZ	NM	1	1	10/31/14 1304	"water ISSURR14C12923"
26	1031_26	L730147-34	BG07I09N	WG751567	GRO	GW	URSTAZ	NM	1	1	10/31/14 1329	"water ISSURR14C12923"
27	1031_27	L730147-35	BG07I09N	WG751567	GRO	GW	URSTAZ	NM	1	1	10/31/14 1354	"water ISSURR14C12923"
28	1031_28	DNR L729801-10	BG07I09N	WG751567					10	10	10/31/14 1419	"water ISSURR14C12923"
29	1031_29	DNR L729801-12	BG07I09N	WG751567					25	25	10/31/14 1444	"water ISSURR14C12923"
30	1031_30	DNR L729801-14	BG07I09N	WG751567					200	200	10/31/14 1508	"water ISSURR14C12923"
31	1031_31	L729801-16	BG07I09N	WG751567	GRO	GW	ABTECHSAZ	AZ	100	100	10/31/14 1533	"water ISSURR14C12923"
32	1031_32	L729801-04	BG07I09N	WG751567	GRO	GW	ABTECHSAZ	AZ	1	1	10/31/14 1558	"water ISSURR14C12923"
33	1031_33	L729801-06	BG07I09N	WG751567	GRO	GW	ABTECHSAZ	AZ	1	1	10/31/14 1622	"water ISSURR14C12923"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID2B.CH
Acq On : 31 Oct 2014 2:55 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 3:27 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

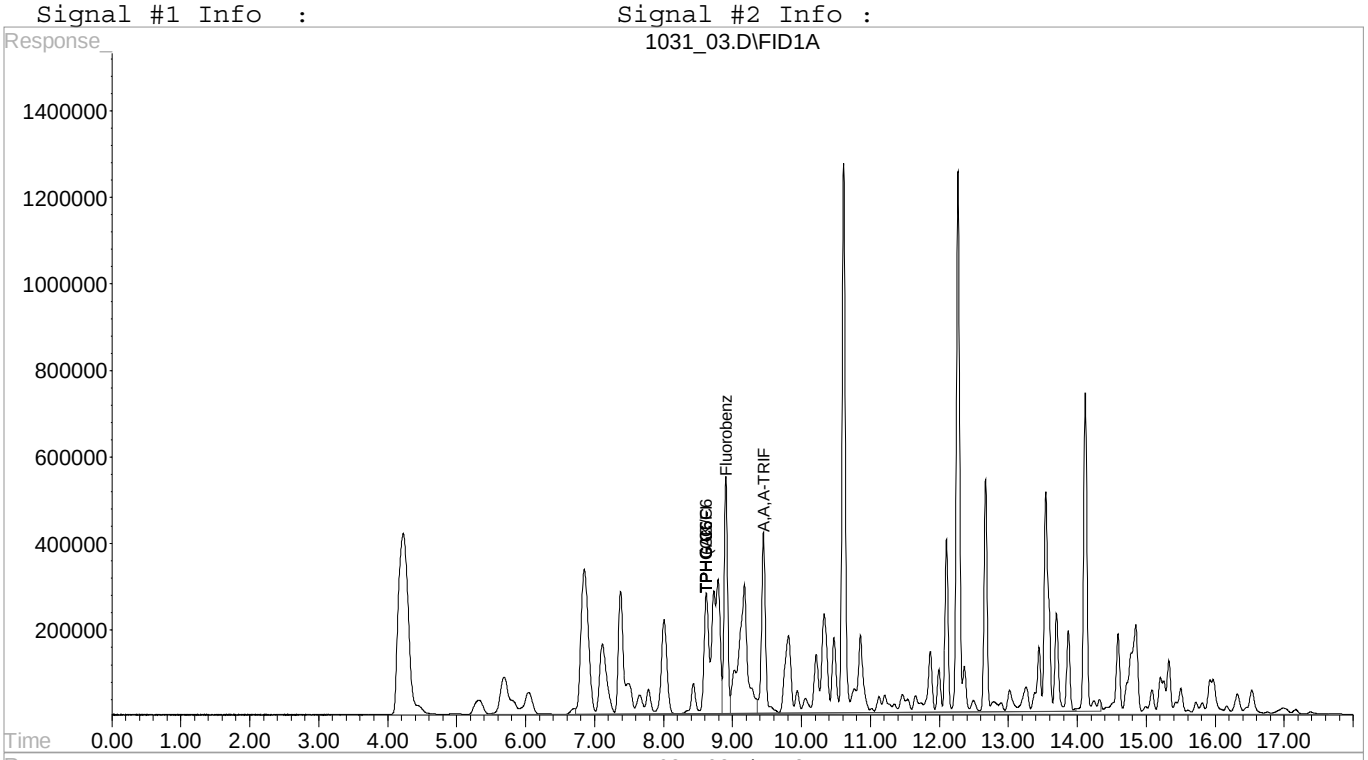
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	19171469	200.0000000	ppb
9) I Fluorobenzene #2	8.90	12676180	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	17274034	230.7356000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 115.37%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7995918	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	17750	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	492358591	5.3712216	ppm
4) H,M TPHG C6 - C12	8.61	478844348	5.3764332	ppm
5) H,M TPHGAK C6 to C10	8.61	374840955	5.3505037	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	401288617	5.3590456	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	5313531	NoCal	ppb
12) T,M benzene	8.73	7243641	NoCal	ppb
13) T,M toluene	10.61	28721054	NoCal	ppb
14) T,M ethylbenzene	12.10	8484022	NoCal	ppb
15) T,M m&p-xylene	12.27	30971259	NoCal	ppb
16) T,M o-xylene	12.67	10905376	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6589214	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	17074121	NoCal	ppb
19) T,M Naphthalene	17.39	274405	NoCal	ppb

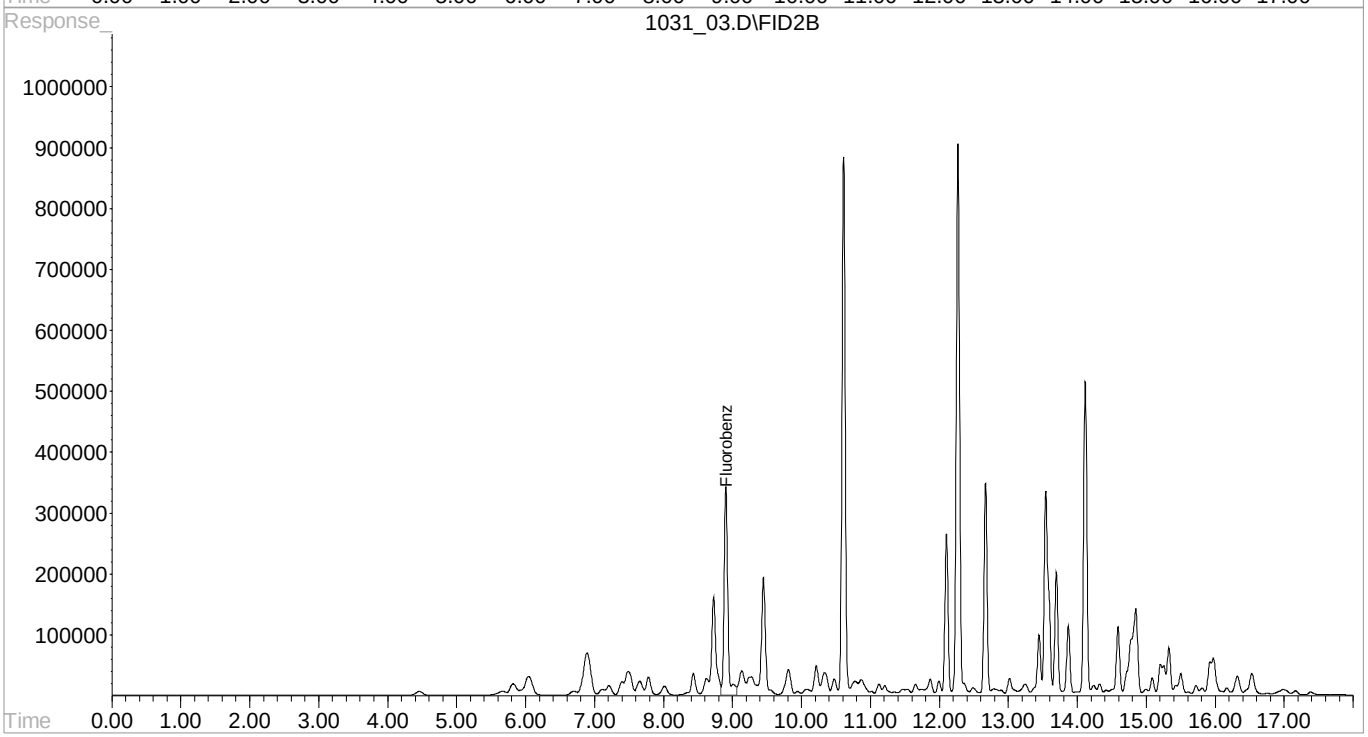
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 03.D\FID2B.CH
Acq On : 31 Oct 2014 2:55 am Operator: 621
Sample : ICV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 3:27 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID2B.CH
Acq On : 31 Oct 2014 3:42 am Operator: 621
Sample : LCSGRO 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 4:24 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

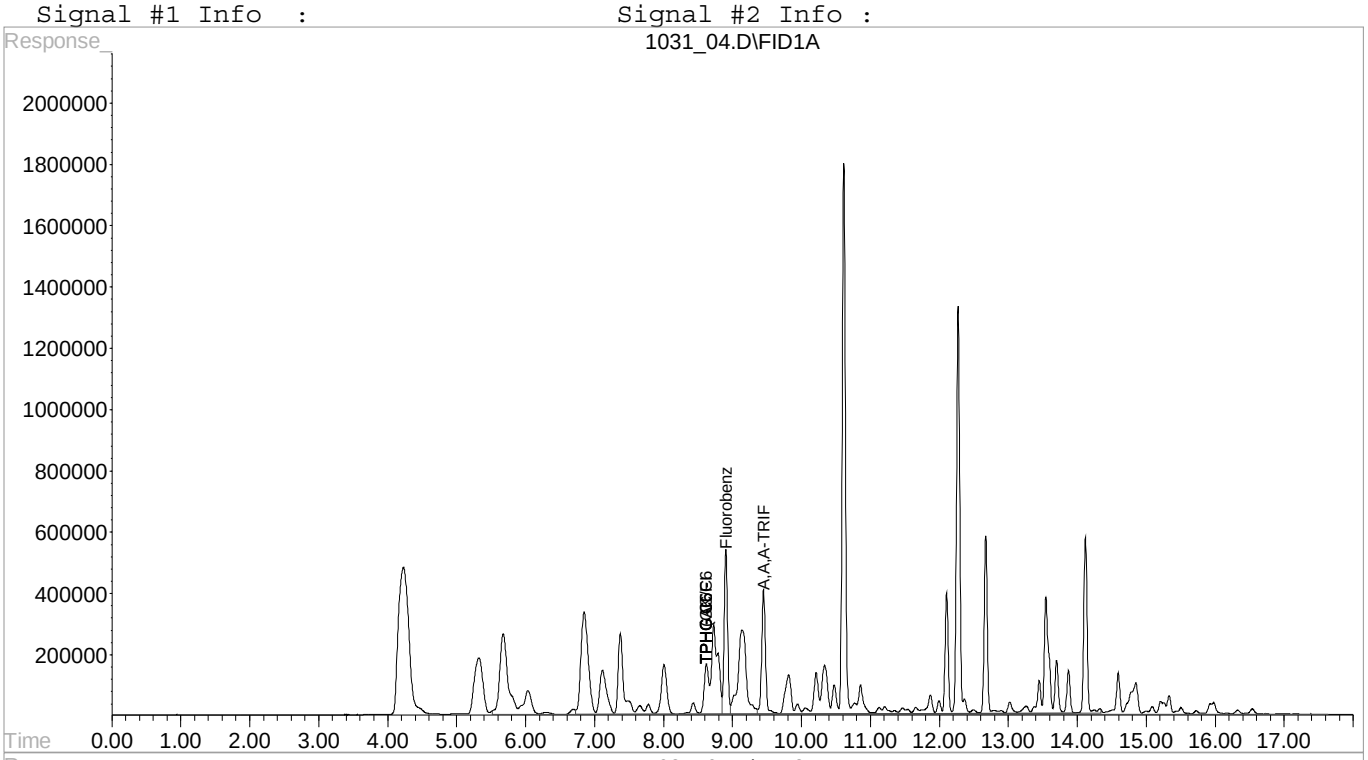
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18522718	200.0000000	ppb
9) I Fluorobenzene #2	8.90	11977482	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	15793305	218.3456349	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 109.17%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7349586	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	17027	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	414035548	4.6749809	ppm
4) H,M TPHG C6 - C12	8.61	384280280	4.4657936	ppm
5) H,M TPHGAK C6 to C10	8.61	324110937	4.7884172	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	343894990	4.7534302	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4718997	NoCal	ppb
12) T,M benzene	8.73	8037733	NoCal	ppb
13) T,M toluene	10.61	39293440	NoCal	ppb
14) T,M ethylbenzene	12.11	8304875	NoCal	ppb
15) T,M m&p-xylene	12.27	32373801	NoCal	ppb
16) T,M o-xylene	12.67	11764381	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	5080543	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	13251754	NoCal	ppb
19) T,M Naphthalene	17.39	55256	NoCal	ppb

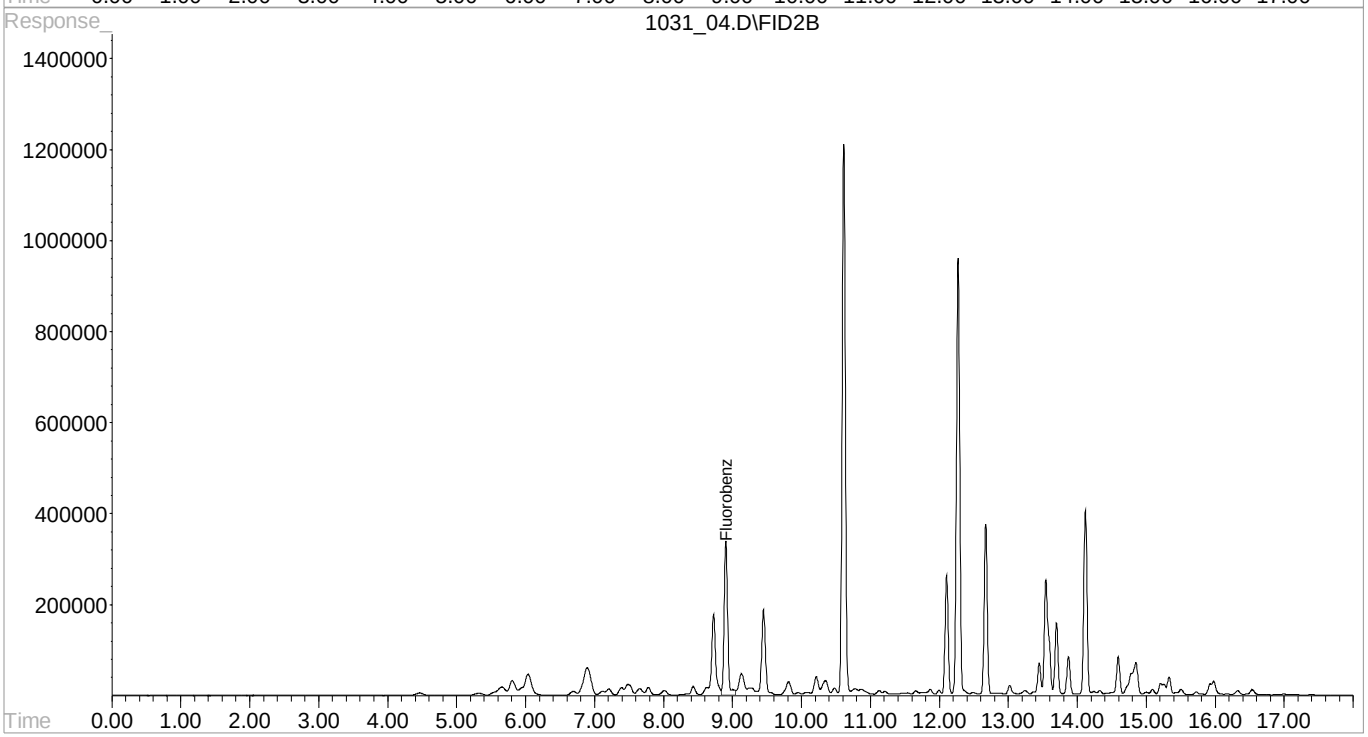
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 04.D\FID2B.CH
Acq On : 31 Oct 2014 3:42 am Operator: 621
Sample : LCSGRO 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 4:24 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID2B.CH
Acq On : 31 Oct 2014 4:07 am Operator: 621
Sample : LCSDGRO 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 4:25 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

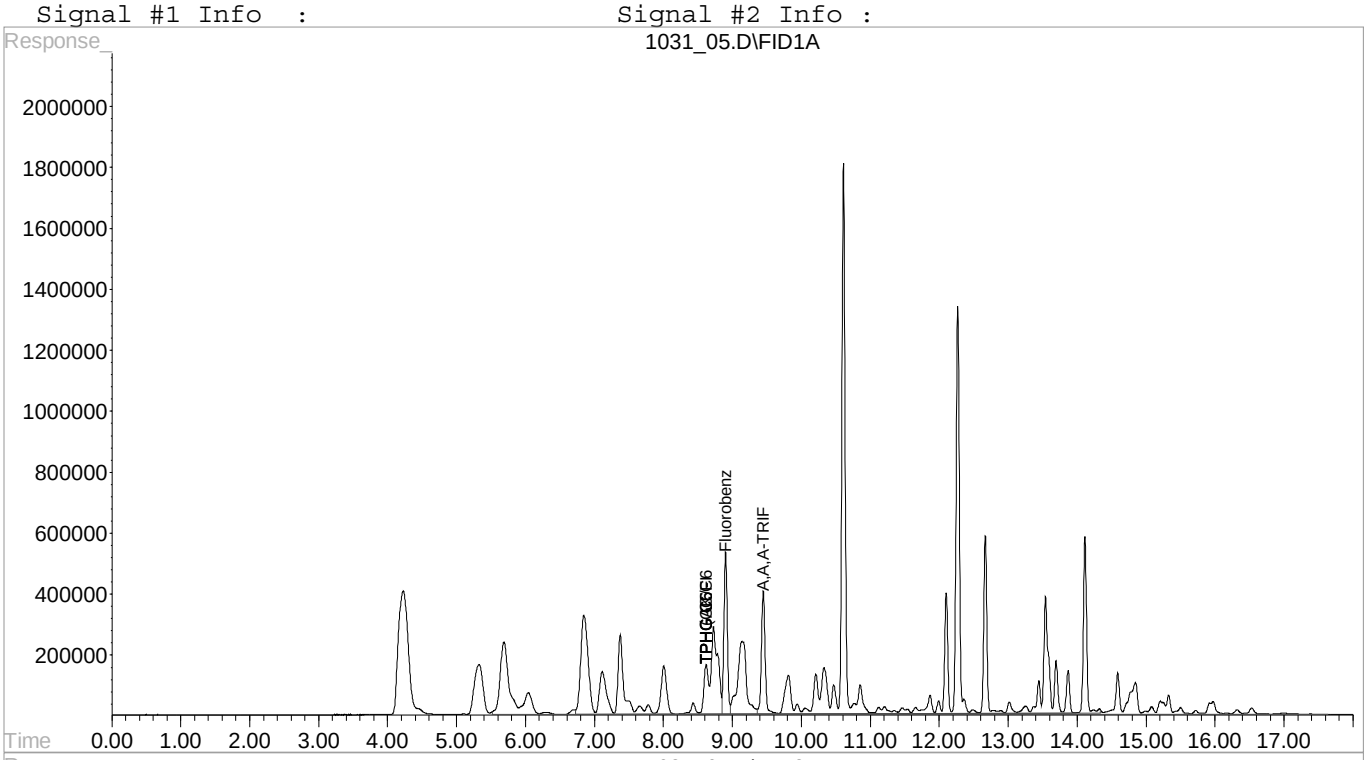
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.90	18361788	200.0000000	ppb
9)	I Fluorobenzene #2	8.90	11879879	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.45	15648737	218.2431056	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery = 109.12%			
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7227156	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery = 0.00%#			
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	13011	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	411438064	4.6863684	ppm
4)	H,M TPHG C6 - C12	8.61	382798413	4.4875616	ppm
5)	H,M TPHGAK C6 to C10	8.61	321417454	4.7902425	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	341363740	4.7597967	ppm
11)	T,M Methyl Tert-Butyl Ether	6.89	4527275	NoCal	ppb
12)	T,M benzene	8.73	7943071	NoCal	ppb
13)	T,M toluene	10.61	39265589	NoCal	ppb
14)	T,M ethylbenzene	12.10	8303376	NoCal	ppb
15)	T,M m&p-xylene	12.27	32352311	NoCal	ppb
16)	T,M o-xylene	12.67	11737485	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.69	5079769	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.11	13267152	NoCal	ppb
19)	T,M Naphthalene	17.39	63224	NoCal	ppb

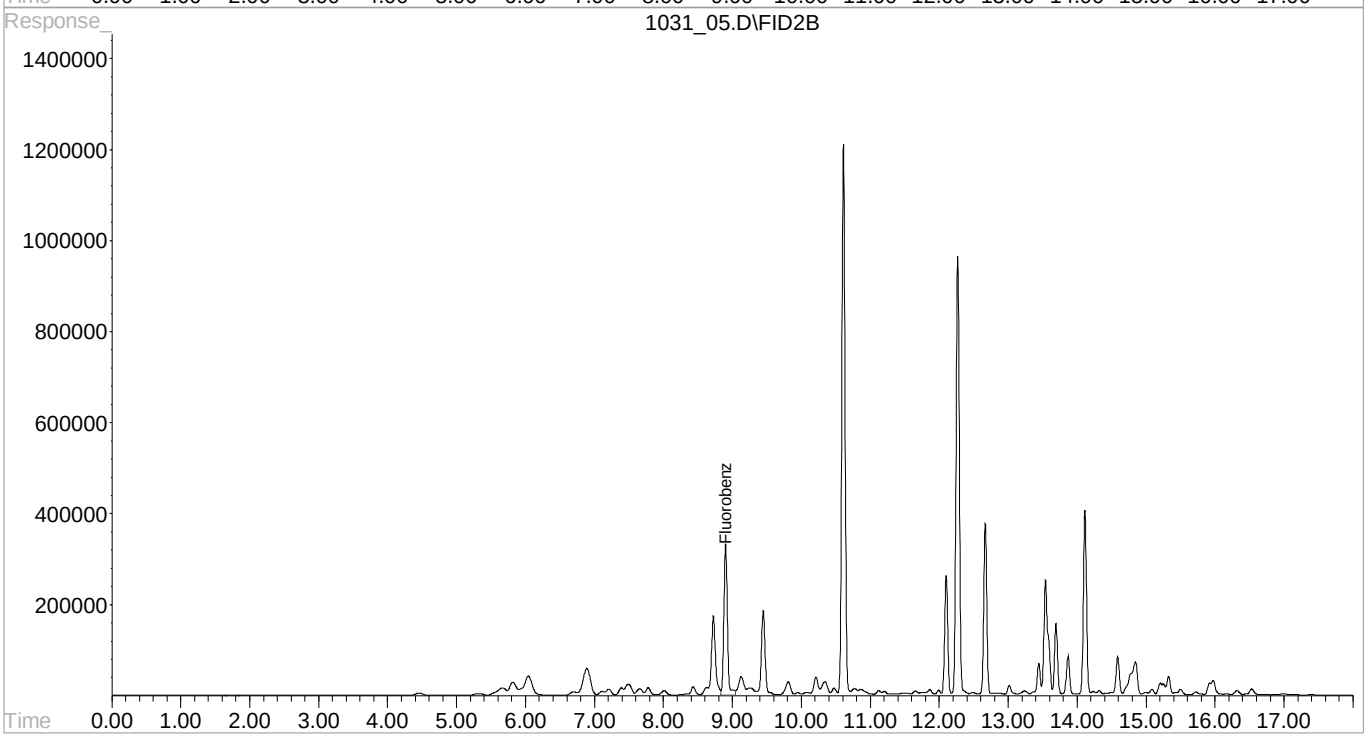
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 05.D\FID2B.CH
Acq On : 31 Oct 2014 4:07 am Operator: 621
Sample : LCSDGRO 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 4:25 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID2B.CH
Acq On : 31 Oct 2014 4:40 am Operator: 621
Sample : MSGRO 1x WG751567 L729542-17 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:13 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

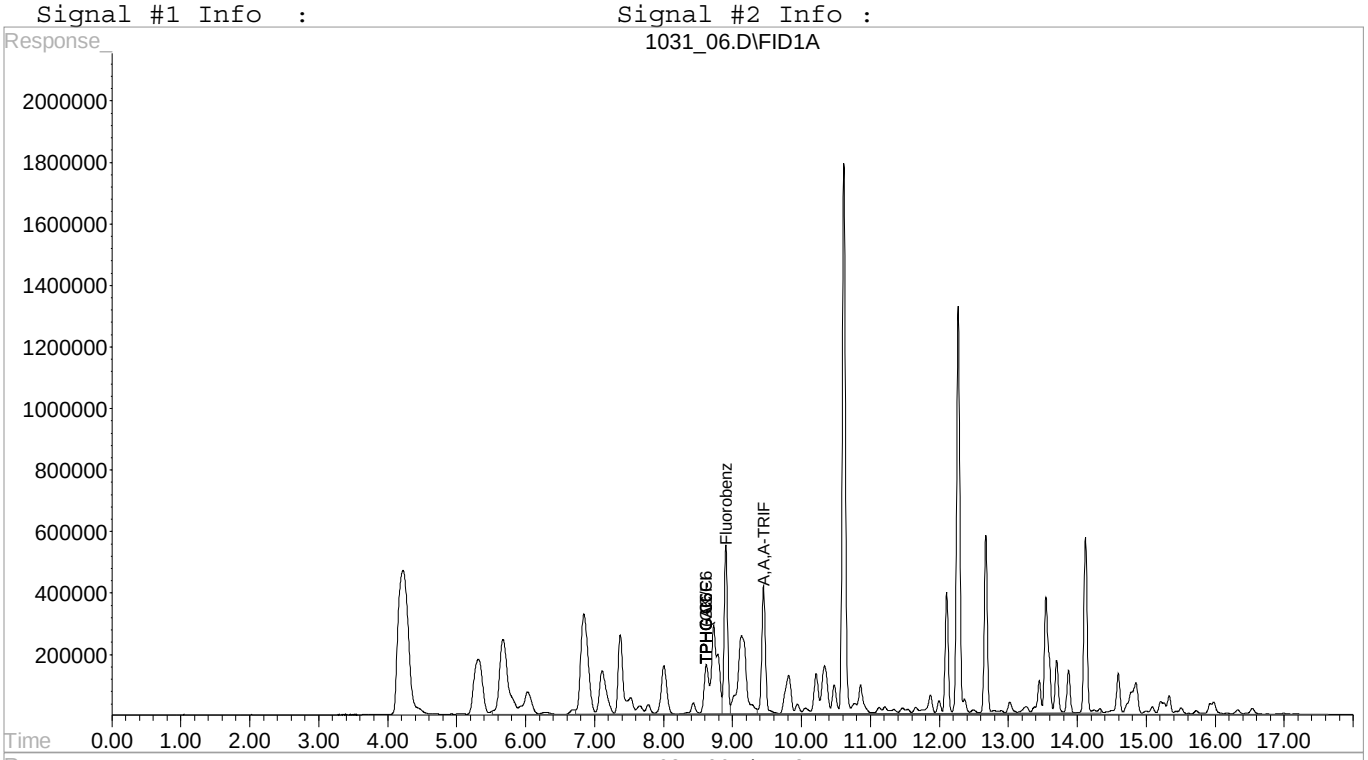
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18909474	200.0000000	ppb
9) I Fluorobenzene #2	8.90	12095912	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16063559	217.5397126	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 108.77%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7380329	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	17637	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	410220248	4.5371650	ppm
4) H,M TPHG C6 - C12	8.61	381139032	4.3386963	ppm
5) H,M TPHGAK C6 to C10	8.61	321873912	4.6581058	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	341516778	4.6240082	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4701909	NoCal	ppb
12) T,M benzene	8.73	7873217	NoCal	ppb
13) T,M toluene	10.62	38989850	NoCal	ppb
14) T,M ethylbenzene	12.11	8231136	NoCal	ppb
15) T,M m&p-xylene	12.27	32106286	NoCal	ppb
16) T,M o-xylene	12.67	11651409	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	5022085	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	13104741	NoCal	ppb
19) T,M Naphthalene	17.39	53659	NoCal	ppb

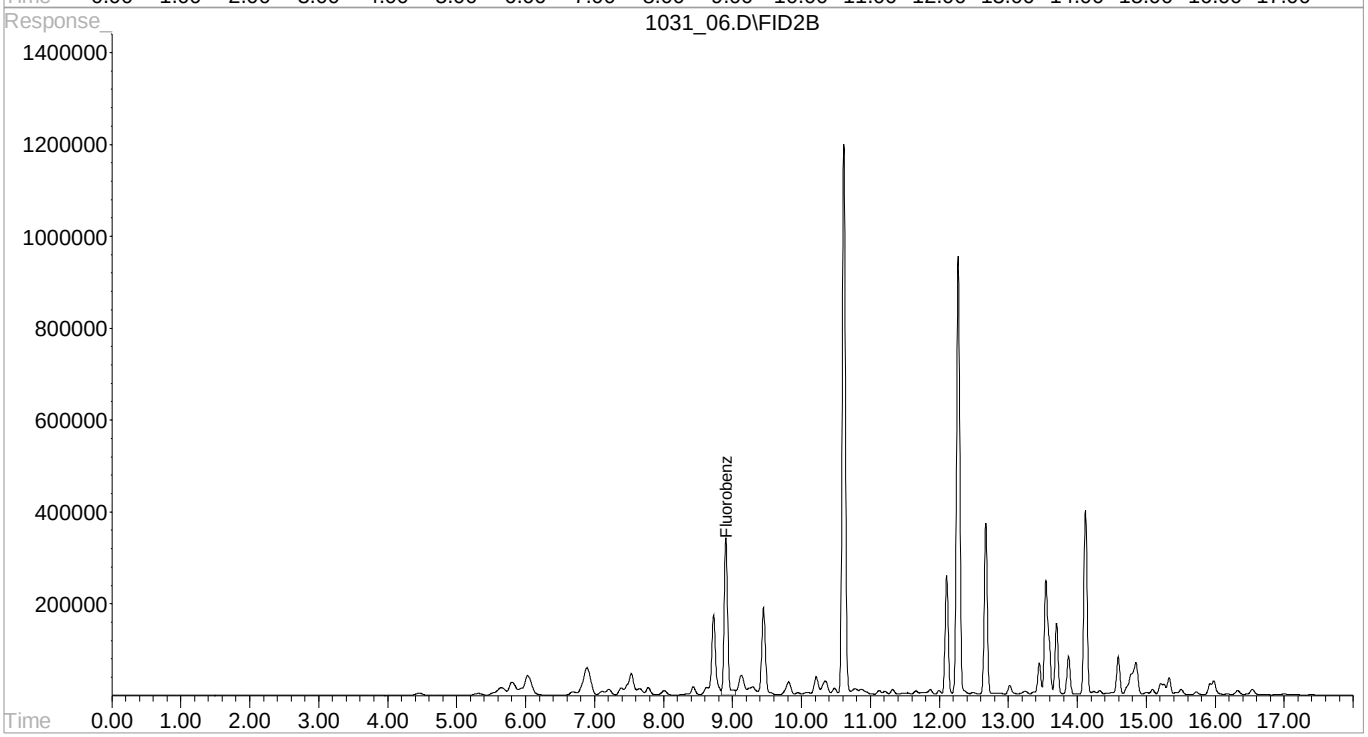
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 06.D\FID2B.CH
Acq On : 31 Oct 2014 4:40 am Operator: 621
Sample : MSGRO 1x WG751567 L729542-17 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:13 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID2B.CH
Acq On : 31 Oct 2014 5:05 am Operator: 621
Sample : MSDGRO 1x WG751567 L729542-17 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:13 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

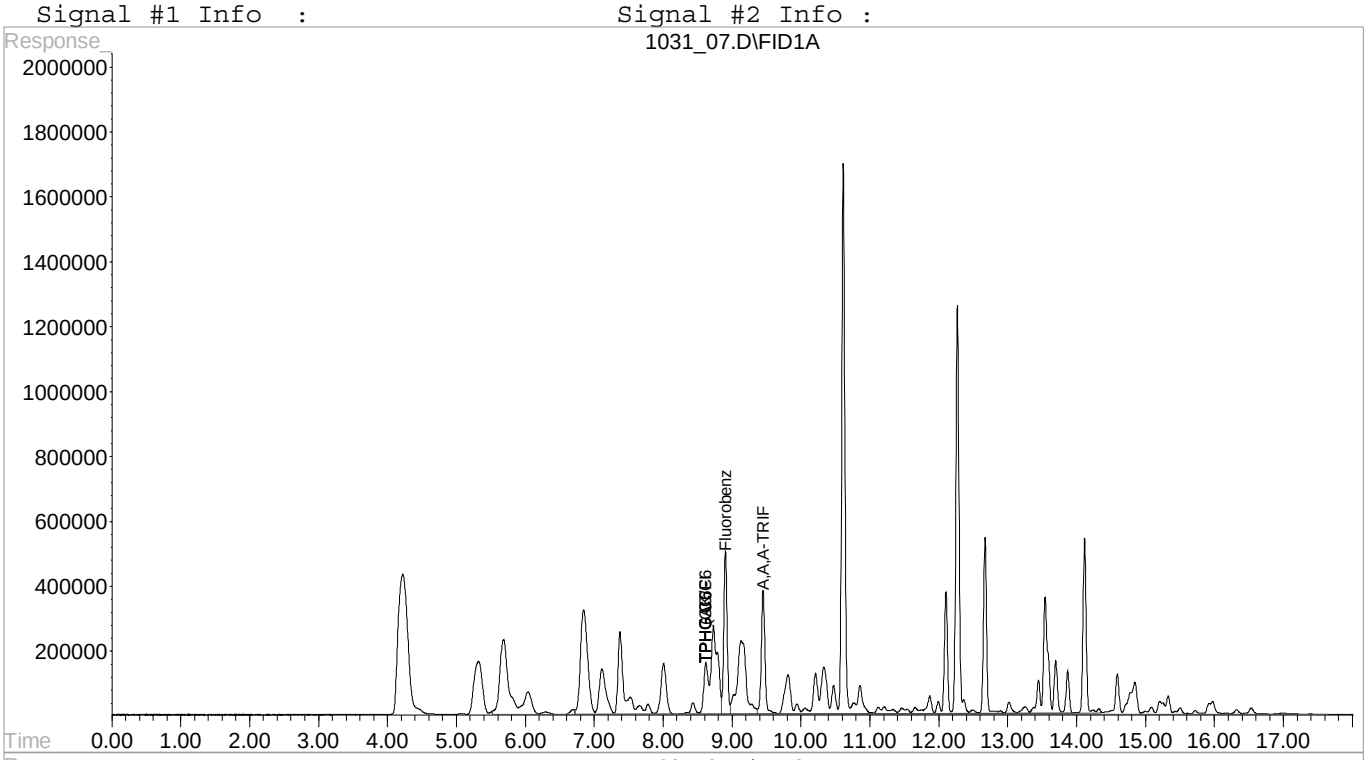
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	17271030	200.0000000	ppb
9) I Fluorobenzene #2	8.91	11083938	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14772674	219.0368135	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 109.52%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6764050	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	11941	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	387558934	4.6931718	ppm
4) H,M TPHG C6 - C12	8.61	360106953	4.4881623	ppm
5) H,M TPHGAK C6 to C10	8.61	304834514	4.8300200	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	323233469	4.7916390	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4377170	NoCal	ppb
12) T,M benzene	8.73	7476671	NoCal	ppb
13) T,M toluene	10.61	36996638	NoCal	ppb
14) T,M ethylbenzene	12.10	7774472	NoCal	ppb
15) T,M m&p-xylene	12.27	30406053	NoCal	ppb
16) T,M o-xylene	12.67	10914398	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	4721223	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	12268321	NoCal	ppb
19) T,M Naphthalene	17.39	64490	NoCal	ppb

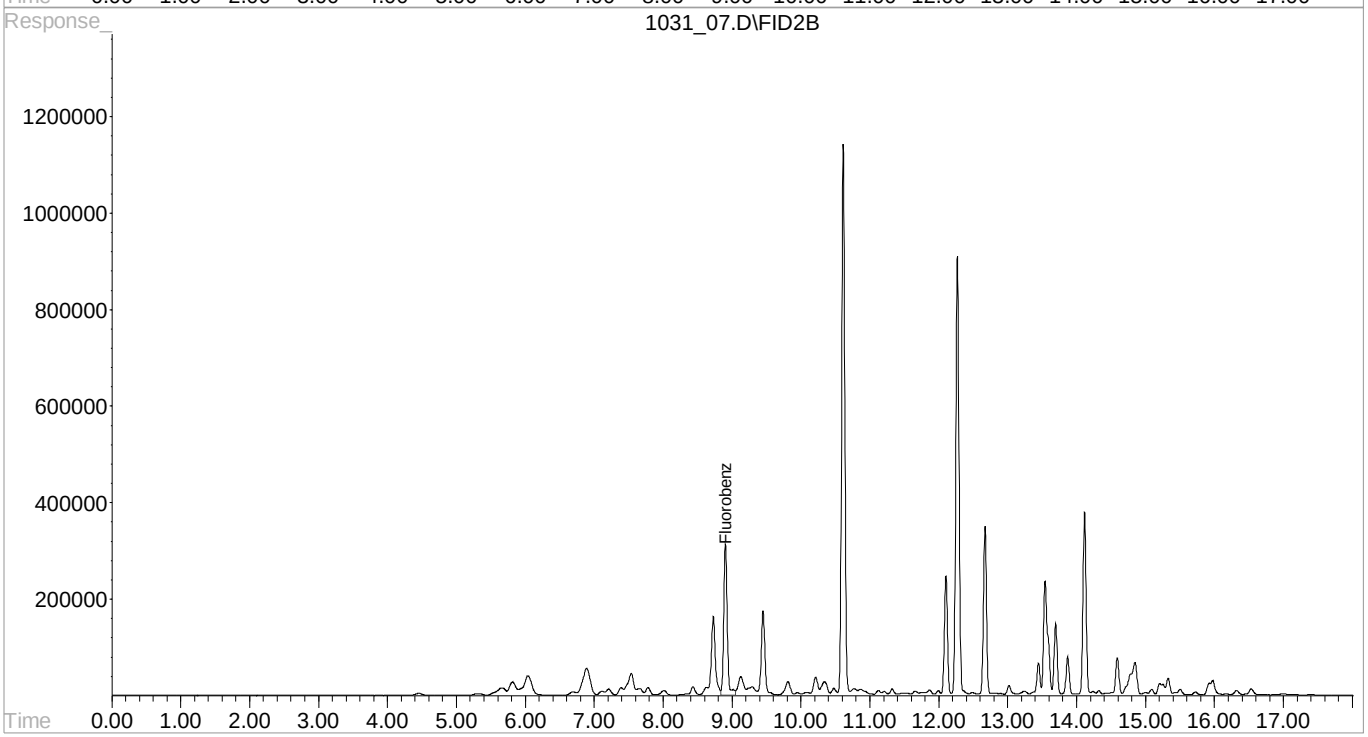
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 07.D\FID2B.CH
Acq On : 31 Oct 2014 5:05 am Operator: 621
Sample : MSDGRO 1x WG751567 L729542-17 Inst : VOCGC7
Misc : water ISSURR14C12923/spk14J27633 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:13 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID2B.CH
Acq On : 31 Oct 2014 5:55 am Operator: 621
Sample : BLANK 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:14 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

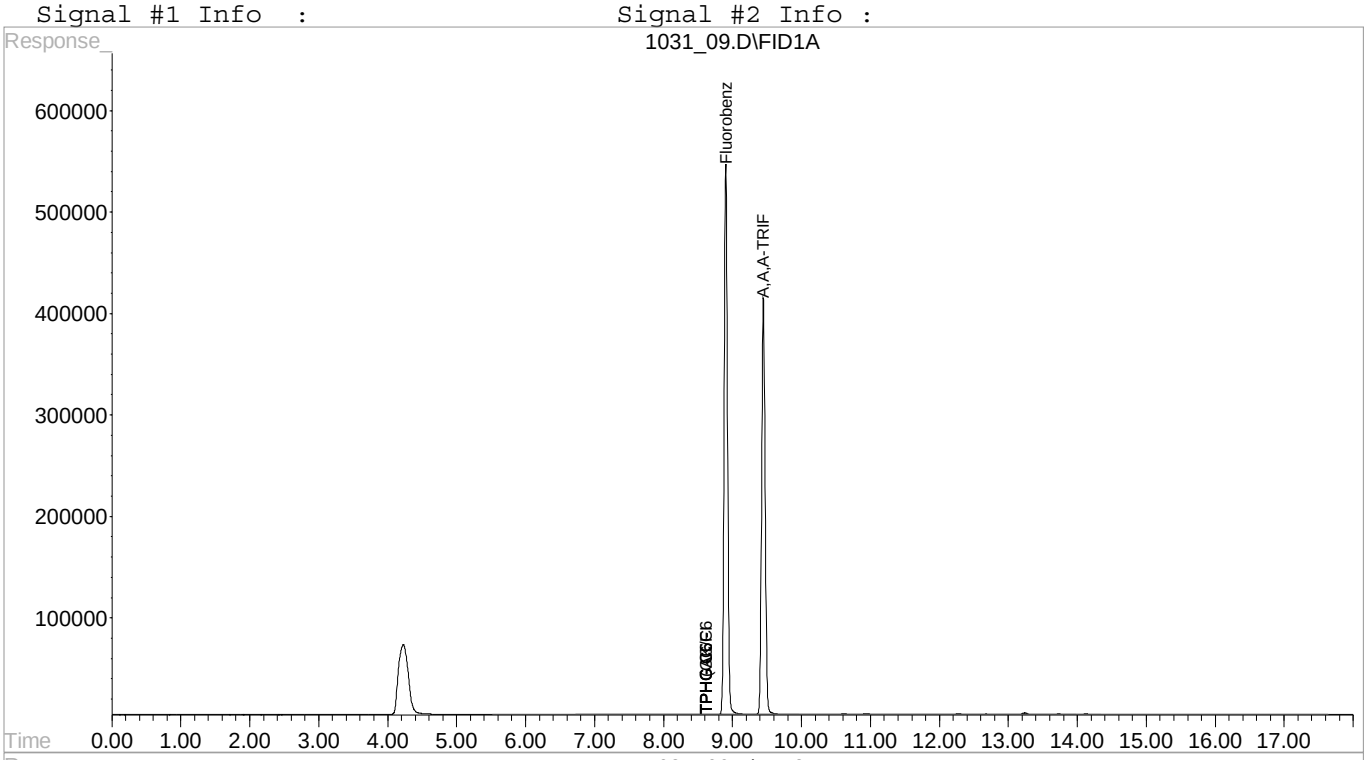
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18267139	200.0000000	ppb
9) I Fluorobenzene #2	8.90	11252764	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14441173	202.4455241	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 101.22%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6525064	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	14761	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1249673	0.0143078	ppm
4) H,M TPHG C6 - C12	8.61	1092578	0.0128747	ppm
5) H,M TPHGAK C6 to C10	8.61	622610	0.0093271	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	676521	0.0094819	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	10.62	21090	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.28	21578	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

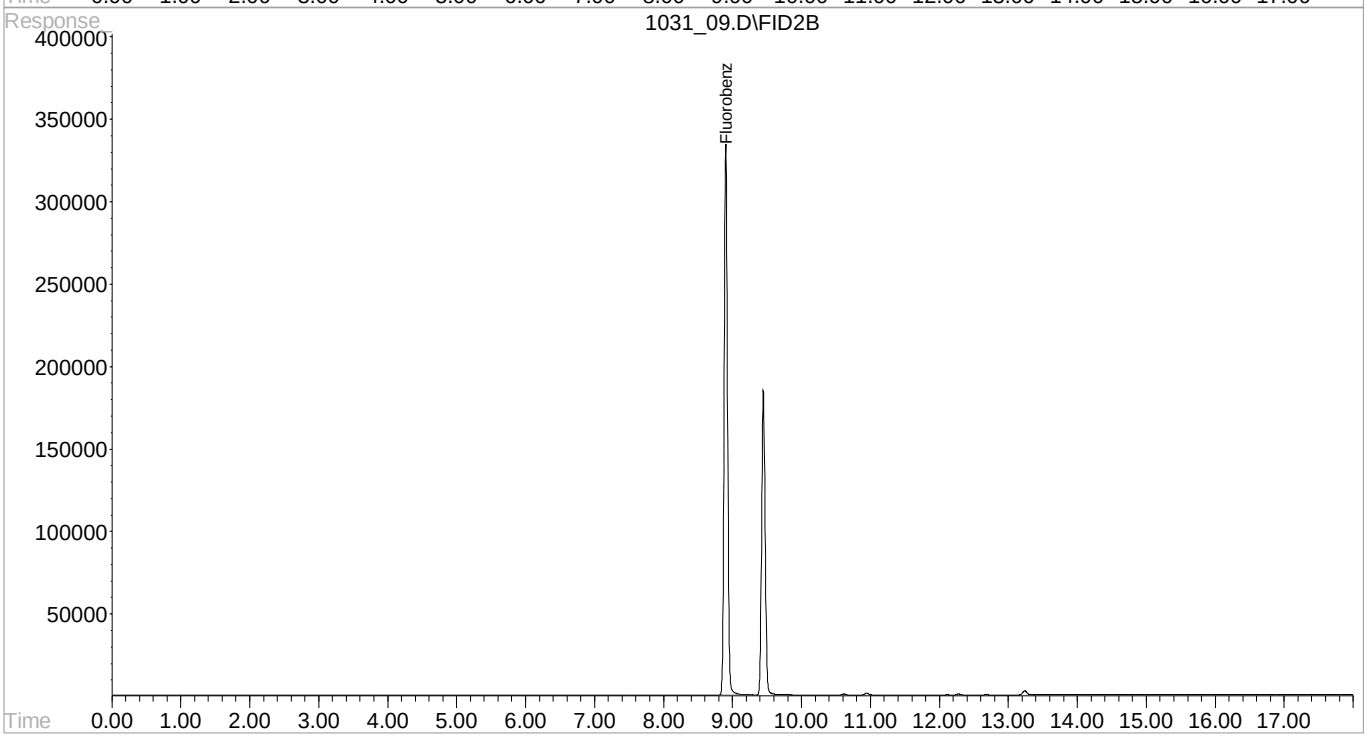
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 09.D\FID2B.CH
Acq On : 31 Oct 2014 5:55 am Operator: 621
Sample : BLANK 1x WG751567 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 6:14 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID2B.CH
Acq On : 31 Oct 2014 11:28 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 12:00 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

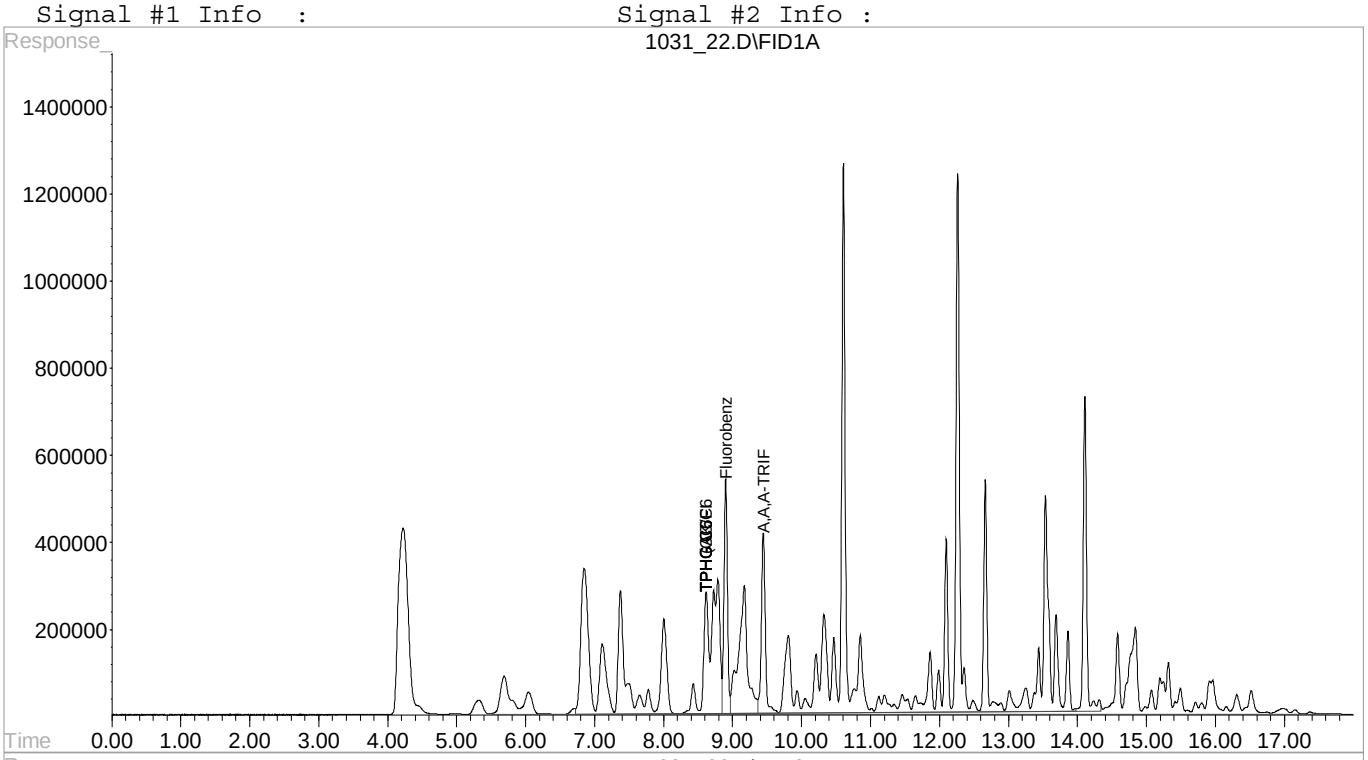
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.90	18923766	200.0000000	ppb
9) I	Fluorobenzene #2	8.90	11677878	200.0000000	ppb
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.45	16966444	229.5934449	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery = 114.80%			
10) S	A,A,A-TRIFLUOROTOLUENE(PID	9.45	7849628	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery = 0.00%#			
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	16358	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	486260801	5.3741356	ppm
4) H,M	TPHG C6 - C12	8.61	472788717	5.3779257	ppm
5) H,M	TPHGAK C6 to C10	8.61	371002466	5.3650310	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	396974722	5.3708284	ppm
11) T,M	Methyl Tert-Butyl Ether	6.89	5297261	NoCal	ppb
12) T,M	benzene	8.72	7139777	NoCal	ppb
13) T,M	toluene	10.61	28437361	NoCal	ppb
14) T,M	ethylbenzene	12.10	8338818	NoCal	ppb
15) T,M	m&p-xylene	12.26	30408259	NoCal	ppb
16) T,M	o-xylene	12.66	10749261	NoCal	ppb
17) T,M	1,3,5-Trimethylbenzene	13.69	6404626	NoCal	ppb
18) T,M	1,2,4-Trimethylbenzene	14.11	16599723	NoCal	ppb
19) T,M	Naphthalene	17.37	209447	NoCal	ppb

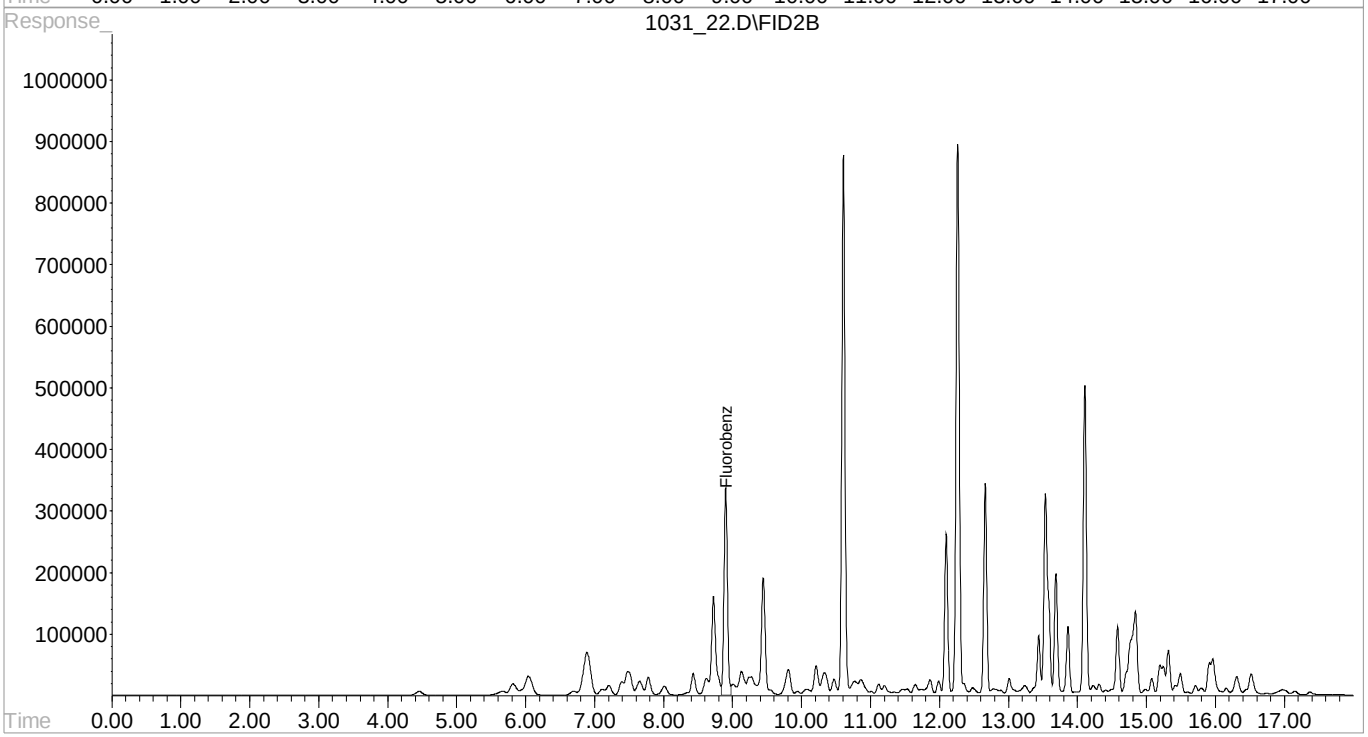
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 22.D\FID2B.CH
Acq On : 31 Oct 2014 11:28 am Operator: 621
Sample : CCV GRO 5.5g ppm 14J27632 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 12:00 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID2B.CH
Acq On : 31 Oct 2014 12:39 pm Operator: 621
Sample : L729802-08 1x WG751567 GRO Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:15 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

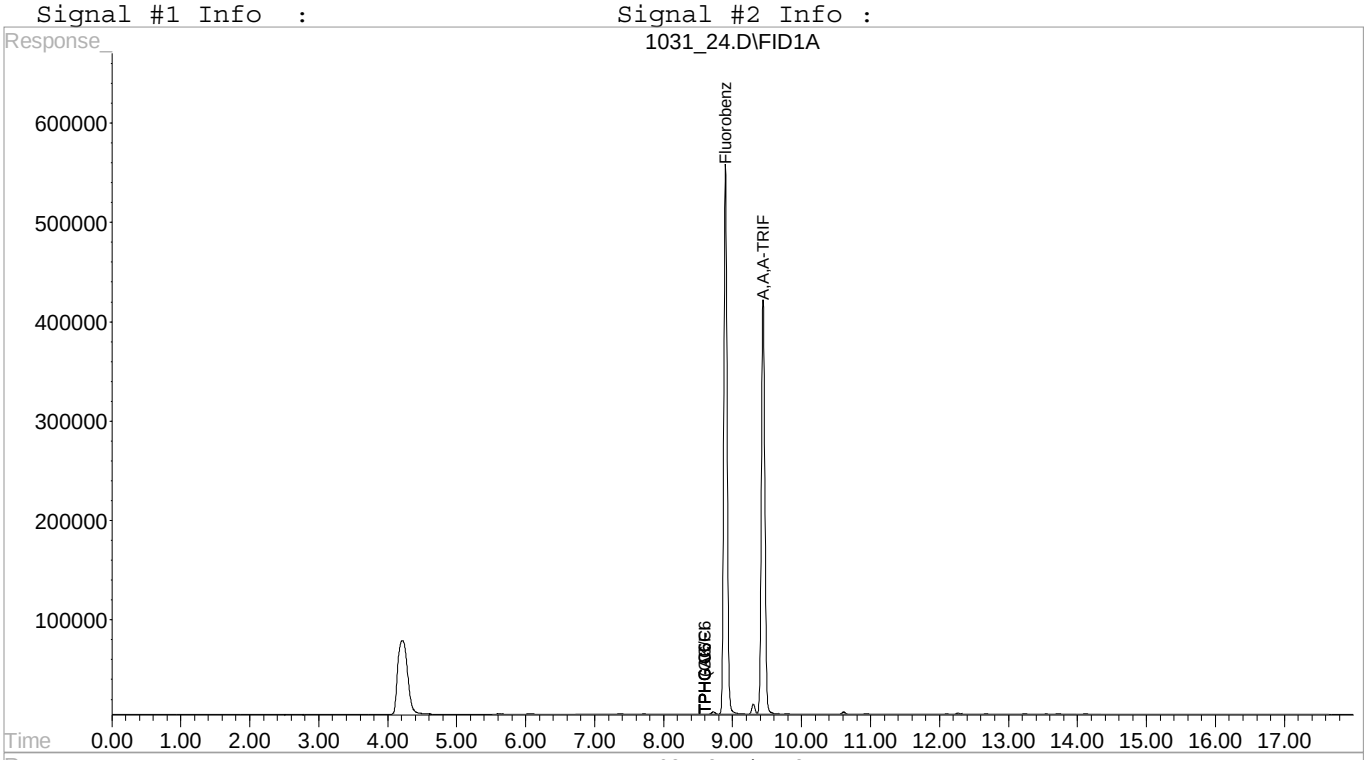
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18542640	200.0000000	ppb
9) I Fluorobenzene #2	8.90	11517879	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	14622204	201.9377428	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 100.97%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	6696929	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	13748	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	2231289	0.0251670	ppm
4) H,M TPHG C6 - C12	8.61	1783135	0.0206999	ppm
5) H,M TPHGAK C6 to C10	8.61	1304359	0.0192499	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	1358100	0.0187519	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	8.72	67029	NoCal	ppb
13) T,M toluene	10.61	60067	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.27	39182	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

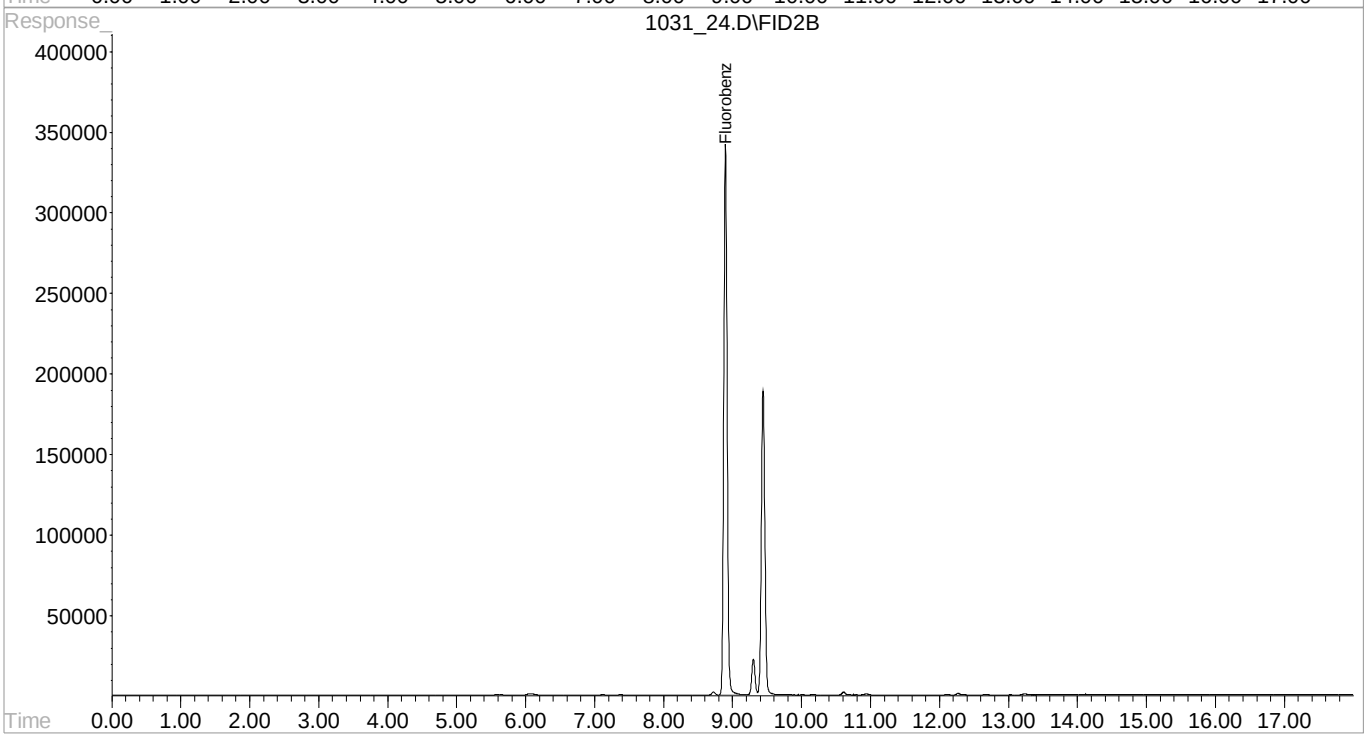
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\103114\1031 24.D\FID2B.CH
Acq On : 31 Oct 2014 12:39 pm Operator: 621
Sample : L729802-08 1x WG751567 GRO Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 31 14:15 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration

Instrument: VOCGC12
Method: BG12H09N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0708_02A.D	0.5	7/8/2014 8:06:00 PM
0708_03A.D	1	7/8/2014 8:27:00 PM
0708_04A.D	5	7/8/2014 8:48:00 PM
0708_05A.D	10	7/8/2014 9:09:00 PM
0708_06A.D	25	7/8/2014 9:30:00 PM
0708_07A.D	50	7/8/2014 9:51:00 PM
0708_08A.D	100	7/8/2014 10:12:00 PM
0708_09A.D	150	7/8/2014 10:33:00 PM
0708_10A.D	200	7/8/2014 10:54:00 PM
0708_11A.D	250	7/8/2014 11:15:00 PM
0809_03.D	.05G	8/9/2014 10:53:00 PM
0809_04.D	.11G	8/9/2014 11:14:00 PM
0809_05.D	.55G	8/9/2014 11:35:00 PM
0809_06.D	1.1G	8/9/2014 11:55:00 PM
0809_07.D	2.7G	8/10/2014 12:16:00 AM
0809_08.D	5.5G	8/10/2014 12:37:00 AM
0809_09.D	11G	8/10/2014 12:58:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 8/11/2014 12:53:10 PM
Run ID : 070814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0708_01A	INSTBLK	BG12G08N						1	1	07/08/14 1945	"soil SURIS14F10114"
2	0708_02a	STD BTEX 0.5 PPB 14B19652	BG12G08N						1	1	07/08/14 2006	"soil SURIS14F10114"
3	0708_03a	STD BTEX 1 PPB 14B19652	BG12G08N						1	1	07/08/14 2027	"soil SURIS14F10114"
4	0708_04a	STD BTEX 5 PPB 14B19652	BG12G08N						1	1	07/08/14 2048	"soil SURIS14F10114"
5	0708_05a	STD BTEX 10 PPB 14B19652	BG12G08N						1	1	07/08/14 2109	"soil SURIS14F10114"
6	0708_06a	STD BTEX 25 PPB 14B19652	BG12G08N						1	1	07/08/14 2130	"soil SURIS14F10114"
7	0708_07A	MSTD BTEX 50 PPB 14B19652	BG12G08N						1	1	07/08/14 2151	"soil SURIS14F10114"
8	0708_08a	STD BTEX 100 PPB 14B19652	BG12G08N						1	1	07/08/14 2212	"soil SURIS14F10114"
9	0708_09a	STD BTEX 150 PPB 14B19652	BG12G08N						1	1	07/08/14 2233	"soil SURIS14F10114"
10	0708_10a	STD BTEX 200 PPB 14B19652	BG12G08N						1	1	07/08/14 2254	"soil SURIS14F10114"
11	0708_11a	STD BTEX 250 PPB 14B19652	BG12G08N						1	1	07/08/14 2315	"soil SURIS14F10114"
12	0809_01	INSTBLK	BG12H09N						1	1	08/09/14 2211	"soil SURIS14F10114"
13	0809_03	STD GRO .055 PPM 14G07650	BG12H09N						1	1	08/09/14 2253	"soil SURIS14F10114"
14	0809_04	STD GRO .11 PPM 14G07650	BG12H09N						1	1	08/09/14 2314	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX
Released By : Ben Baker
Date Released : 8/11/2014 12:53:10 PM
Run ID : 070814A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0809_05	STD GRO .55 PPM 14G07650	BG12H09N						1	1	08/09/14 2335	"soil SURIS14F10114"
16	0809_06	STD GRO 1.1 PPM 14G07650	BG12H09N						1	1	08/09/14 2355	"soil SURIS14F10114"
17	0809_07	STD GRO 2.75 PPM 14G07650	BG12H09N						1	1	08/10/14 0016	"soil SURIS14F10114"
18	0809_08	MSTD GRO 5.5G PPM 14G07650	BG12H09N						1	1	08/10/14 0037	"soil SURIS14F10114"
19	0809_09	STD GRO 11 PPM 14G07650	BG12H09N						1	1	08/10/14 0058	"soil SURIS14F10114"
20	0809_11	SSCV GRO 5.5G PPM 14G07651	BG12H09N						1	1	08/10/14 0140	"soil SURIS14F10114"

Mint Miner 2.03 (80118) Directory Scan: y:\080914

11 Aug 2014 13:16

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\080914\0809_01.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_01a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: y:\080914\0809_02.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_02a.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: y:\080914\0809_03.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_03a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .055 ppm 14G07650 (soil SURIS14
Scan File Path: y:\080914\0809_04.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_04a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .11 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_05.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_05a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO .55 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_06.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_06a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 1.1 ppm 14G07650 (soil SURIS14F
Scan File Path: y:\080914\0809_07.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_07a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 2.75 ppm 14G07650 (soil SURIS14
Scan File Path: y:\080914\0809_08.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_08a.D\FID1A.CH					
16	Scanned	D(12), DK(2), DC(2)	621	VOCGC12	STD GRO 5.5 ppm 14G07650 (soil SURIS14F
Scan File Path: y:\080914\0809_09.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_09a.D\FID1A.CH					
18	Scanned	D(12), DK(2), DC(2), MQ(1), M(1)	621	VOCGC12	STD GRO 11 ppm 14G07650 (soil SURIS14F1
Scan File Path: y:\080914\0809_10.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_10a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: y:\080914\0809_11.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_11a.D\FID1A.CH					
0	Scanned		621	VOCGC12	SSCV GRO 5.5 ppm 14G07651 (soil SURIS14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\080914\0809_12.D					
Original Path: C:\MSDchem\1\DATA\080914\0809_12a.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)

D = Deletion of any analyte
DK = Deletion of a spike compound
MQ = Manual integration and deletion of the same analyte
DC = Deletion of a CCC
M = Manual integration (non-specific)

ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

Distinct Method Last Updated count
Operators Intruments

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: IN	Released On	: 8/11/2014 12:53:10 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: AK101	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: AK	Released On	: 8/11/2014 12:52:08 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: AZ	Released On	: 8/11/2014 12:52:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 08/11/2014 - By: Ben Baker

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

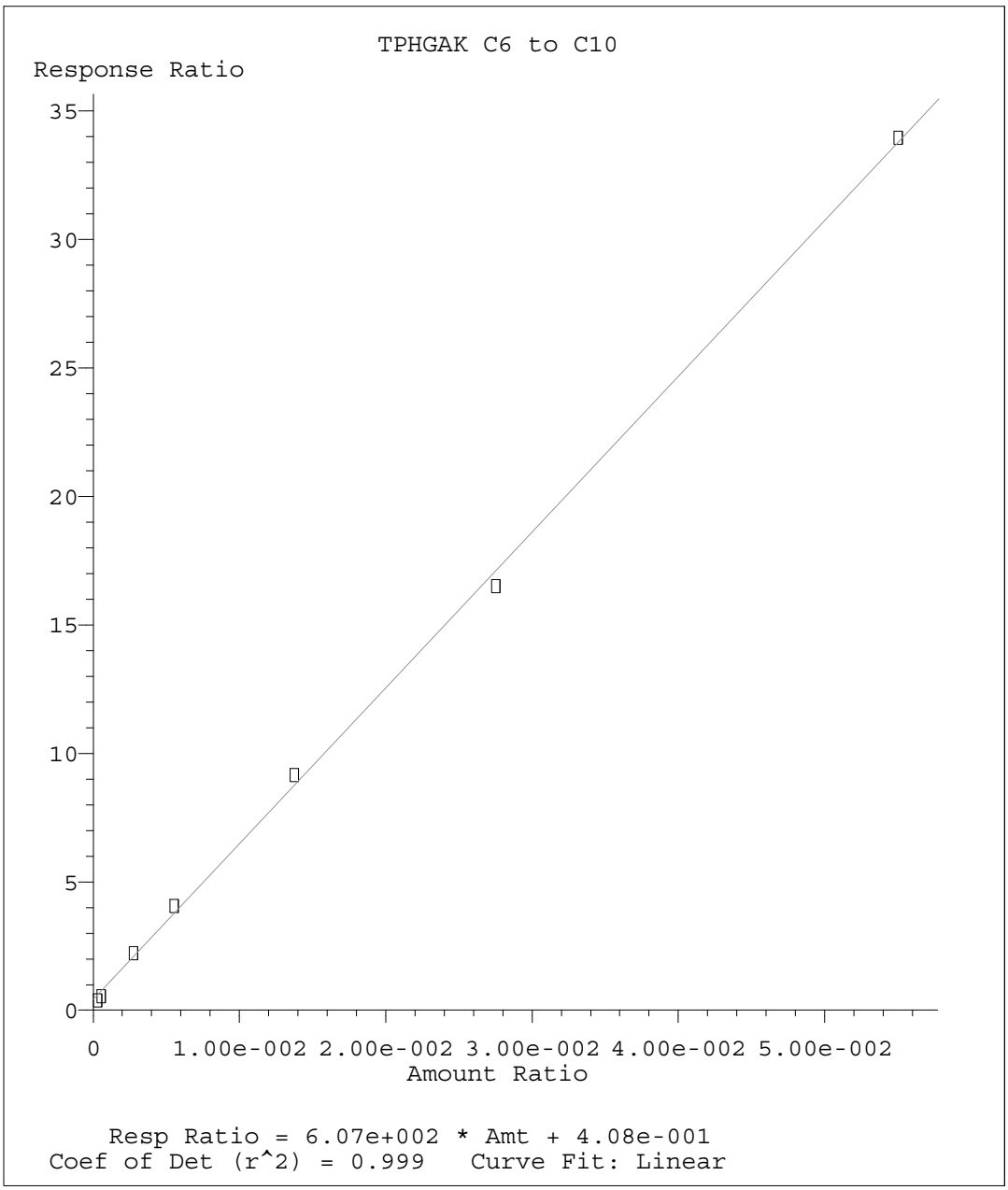
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG12H09N	Review Protocol	: SW846	Released On	: 8/11/2014 12:52:51 PM

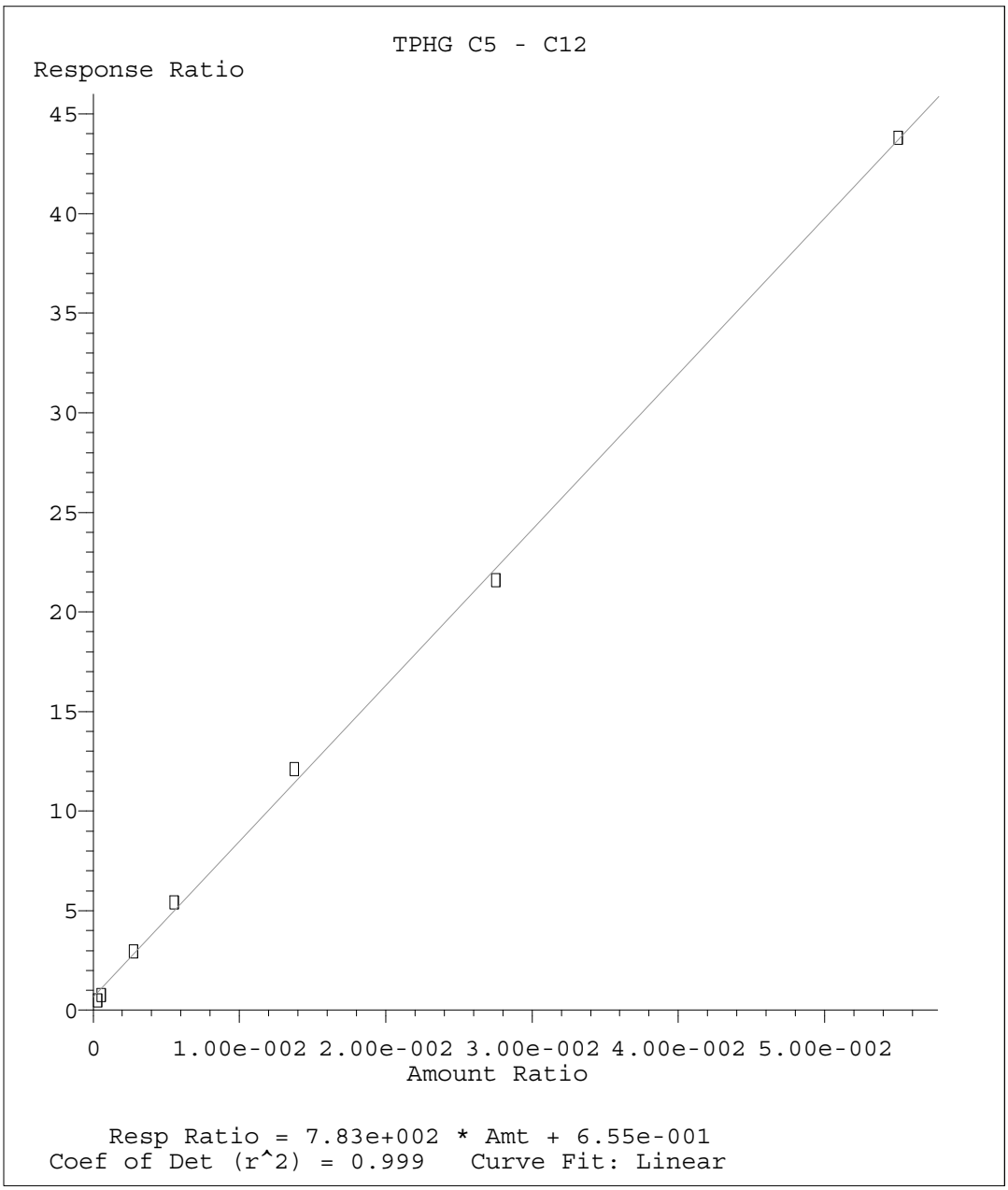
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H09N -- ICal Updated Time: Mon Aug 11 12:45:27 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1	1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1	1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1	1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

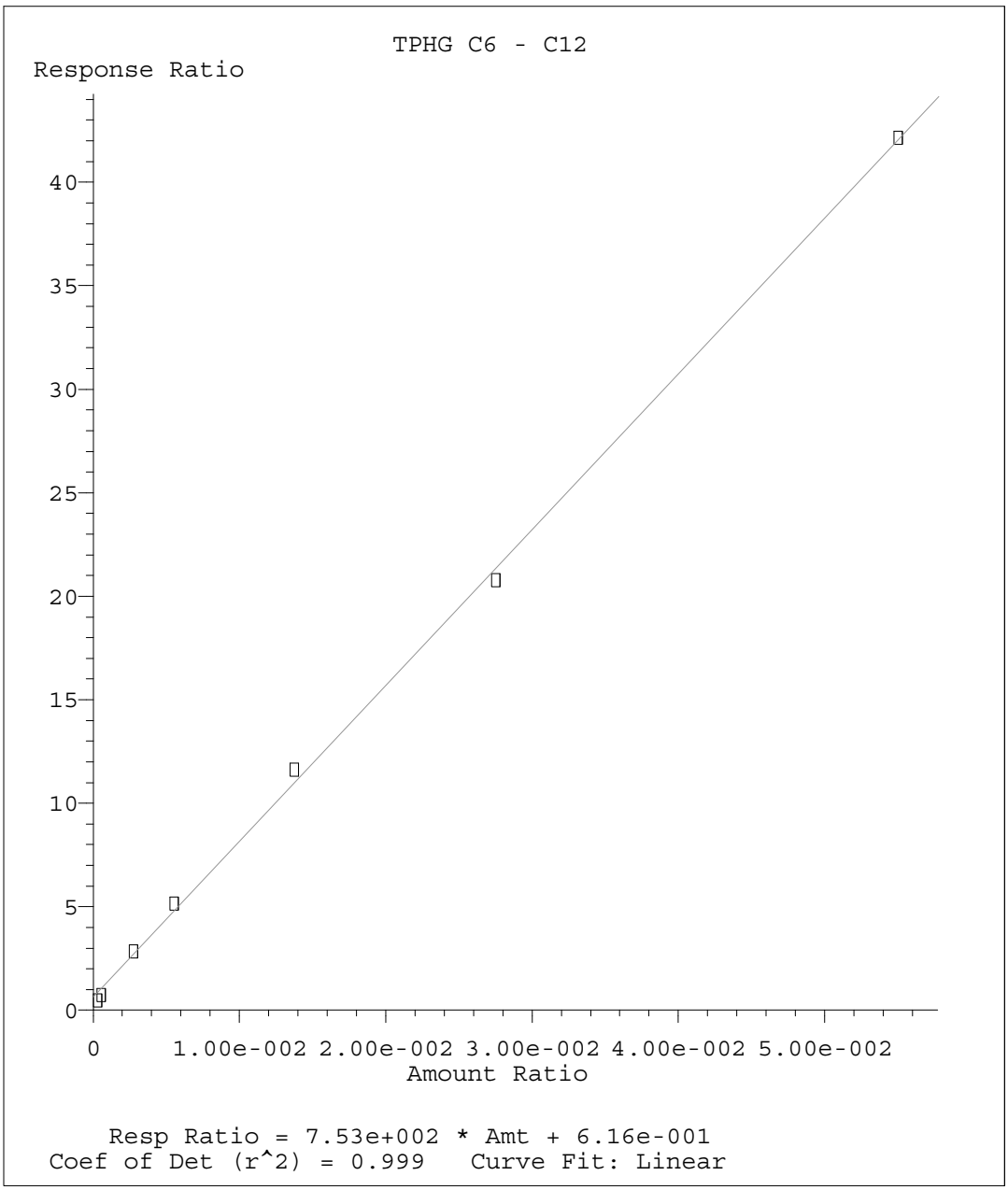
PDF Generated On: 08/11/2014 - By: Ben Baker



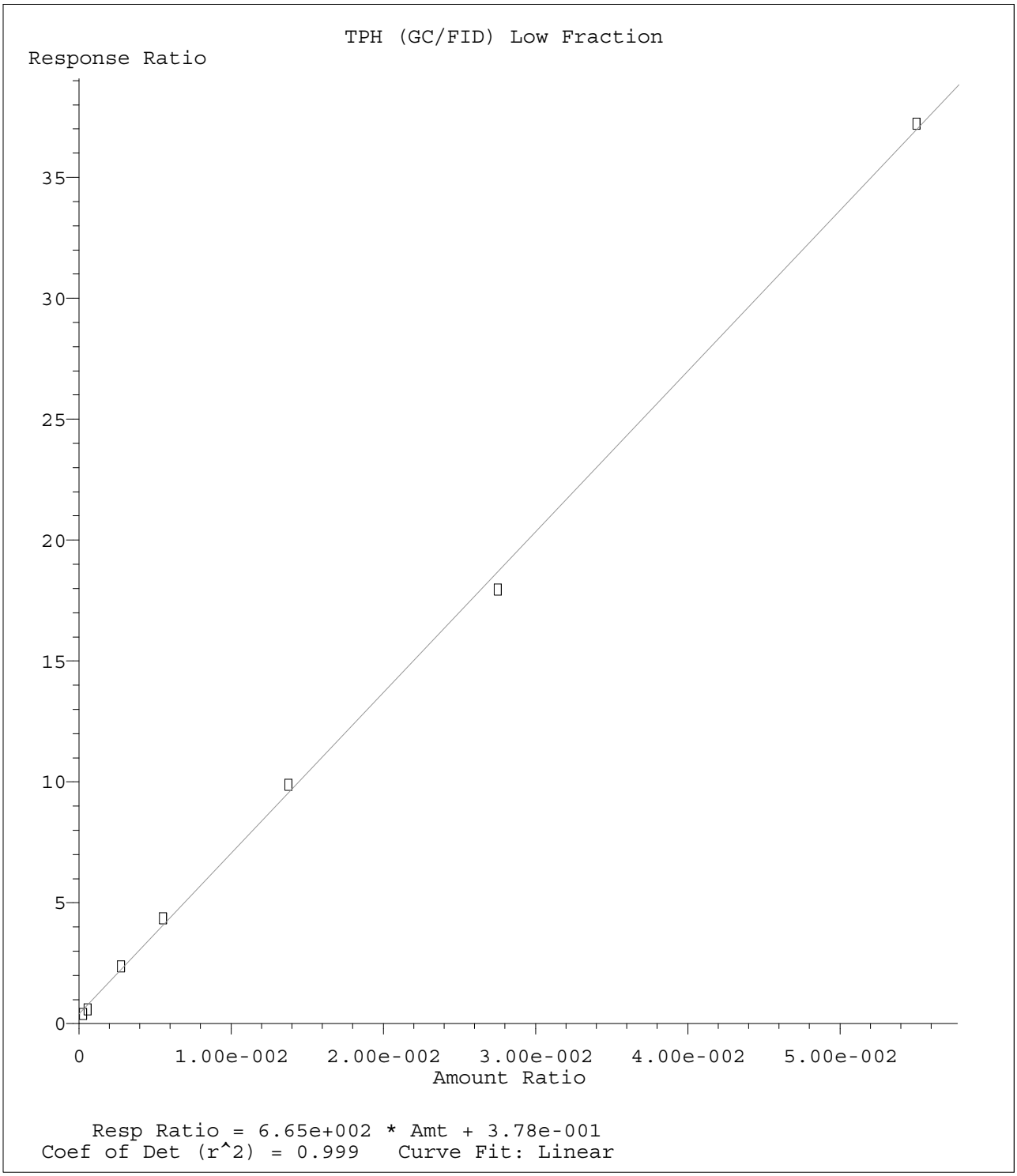
Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H09N.M
Calibration Table Last Updated: Mon Aug 11 12:45:27 2014

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

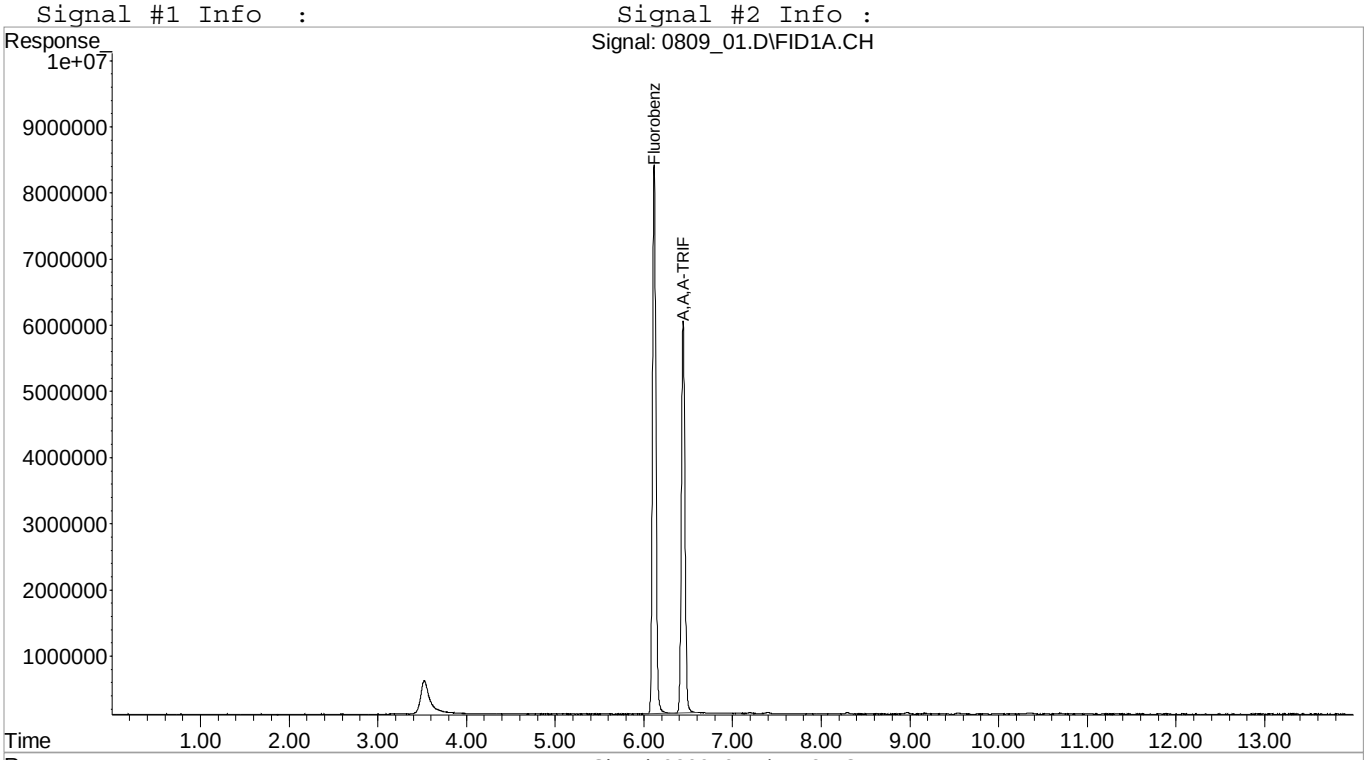
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

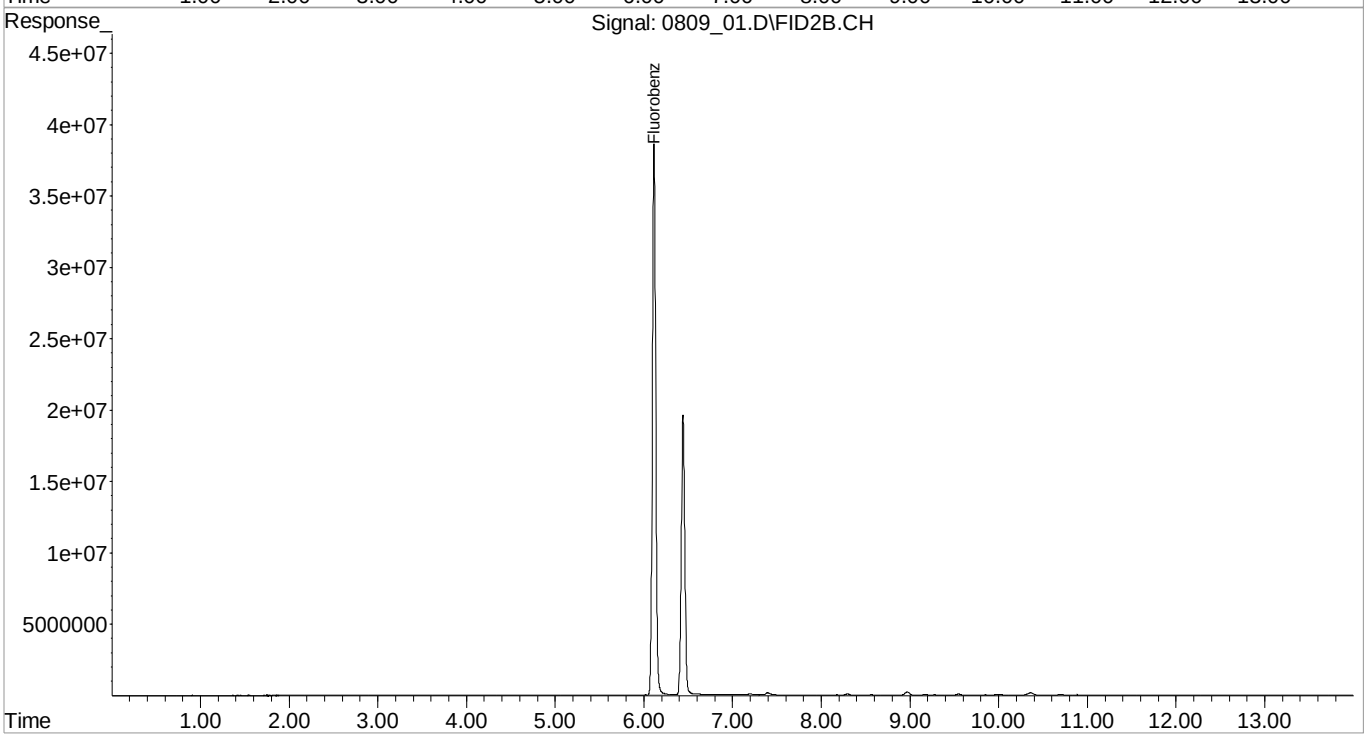
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

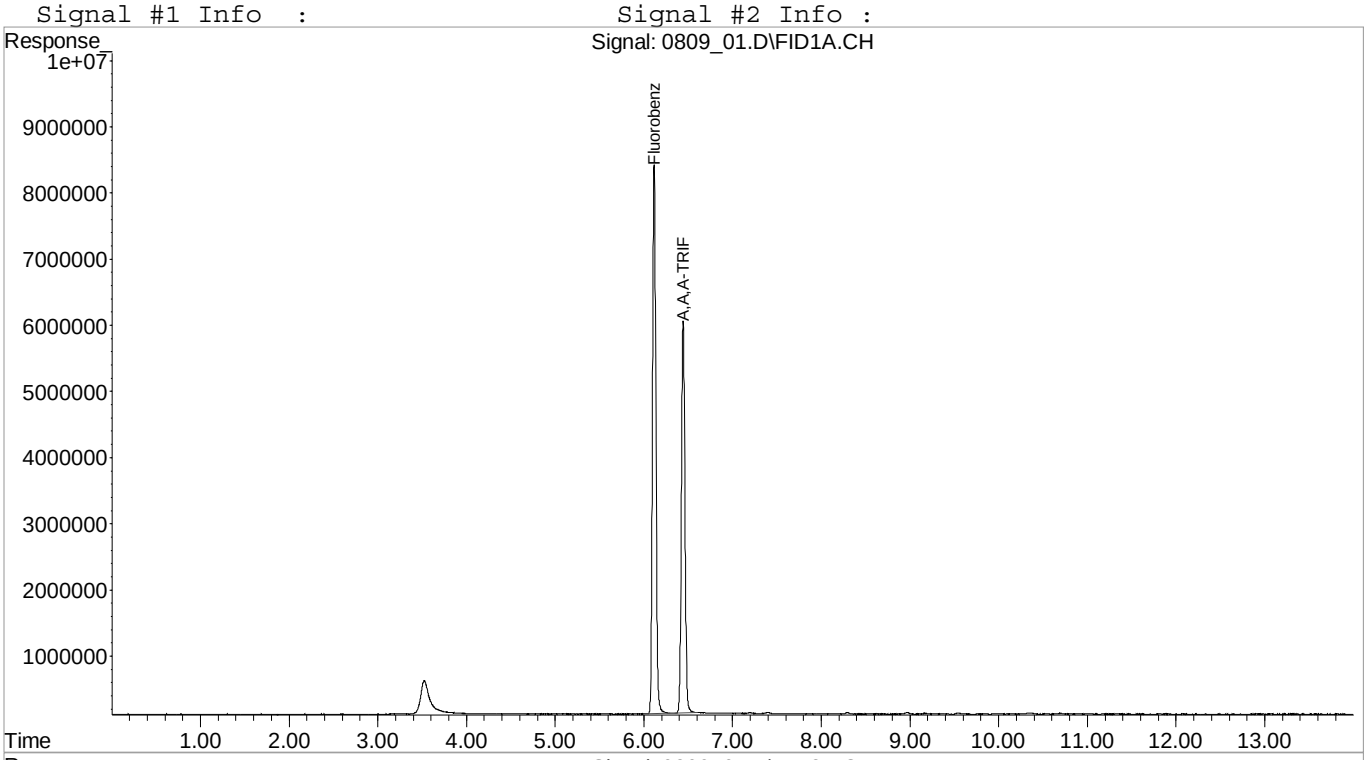
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

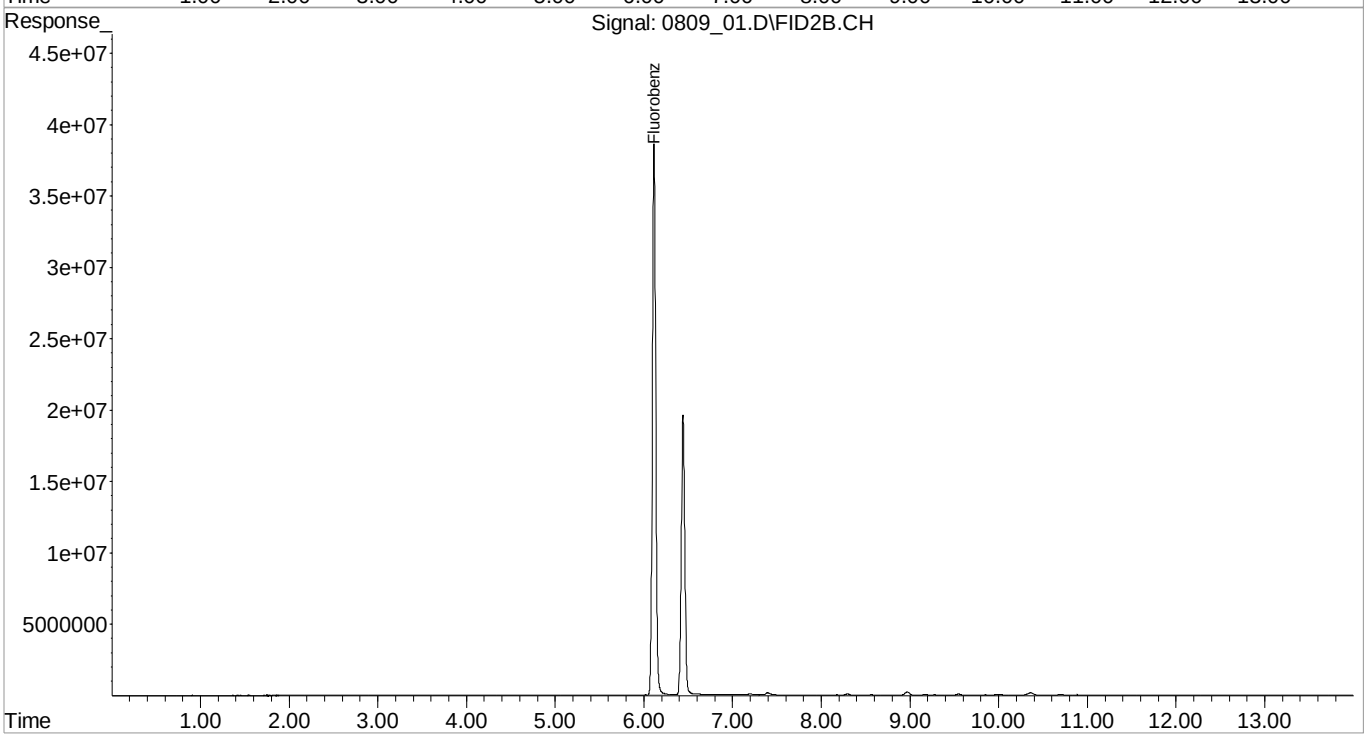
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45:38 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

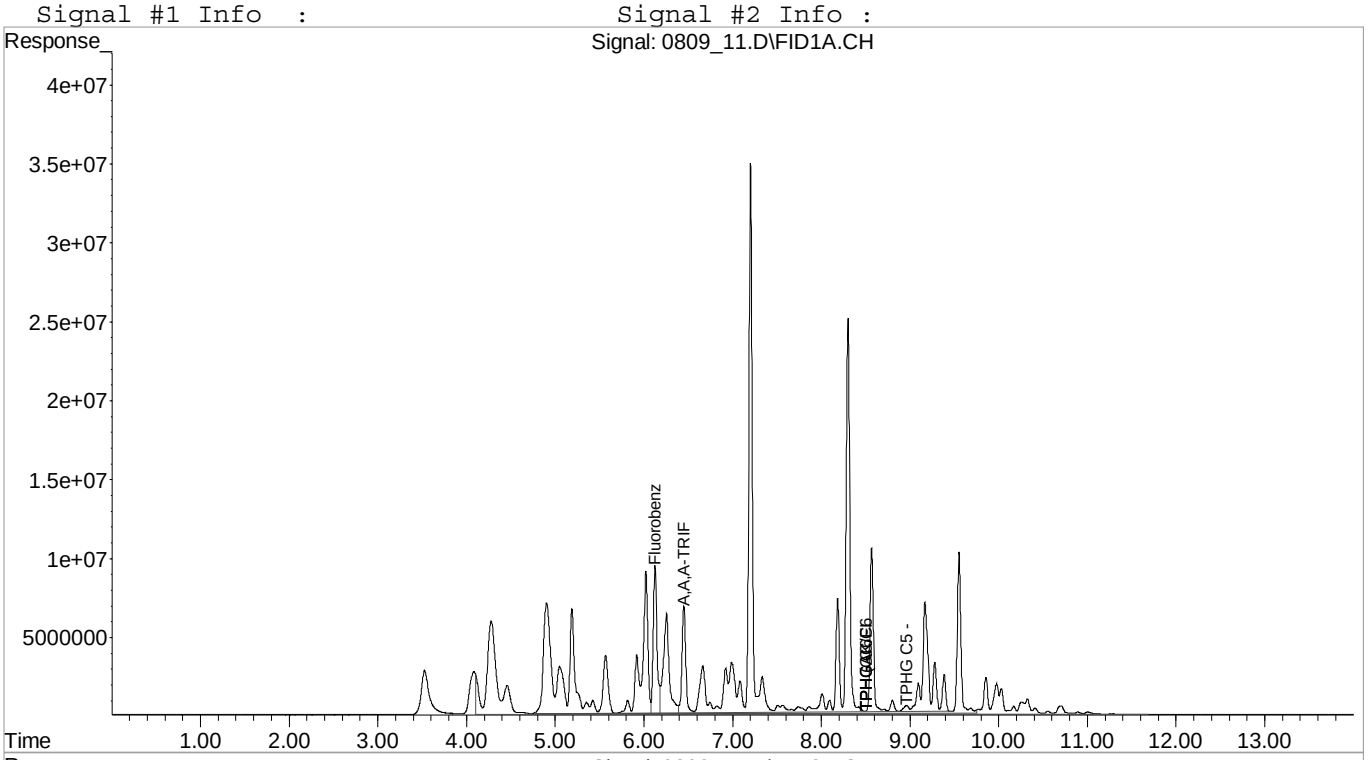
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	6.12	280421578	200.0000000 ppb
9) I Fluorobenzene #2	6.12	1115167773	200.0000000 ppb
System Monitoring Compounds			
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207255010	196.8720071 ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.44%
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	599969730	NoCal ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#
Target Compounds			
2) H,M TPHG C4 - C12	8.96	103932	NoCal ppm
3) H,M TPHG C5 - C12	8.96	6594455652	5.8414297 ppm
4) H,M TPHG C6 - C12	8.50	5909096844	5.4307018 ppm
5) H,M TPHGAK C6 to C10	8.50	4984973596	5.7227528 ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5442743965	5.7200127 ppm
11) T,M Methyl Tert-Butyl Ether	4.92	431198480	NoCal ppb
12) T,M benzene	6.02	757833402	NoCal ppb
13) T,M toluene	7.19	2869393011	NoCal ppb
14) T,M ethylbenzene	8.18	832940116	NoCal ppb
15) T,M m&p-xylene	8.29	2617035917	NoCal ppb
16) T,M o-xylene	8.57	1216805432	NoCal ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	478596269	NoCal ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1317254901	NoCal ppb
19) T,M Naphthalene	11.48	143611	NoCal ppb

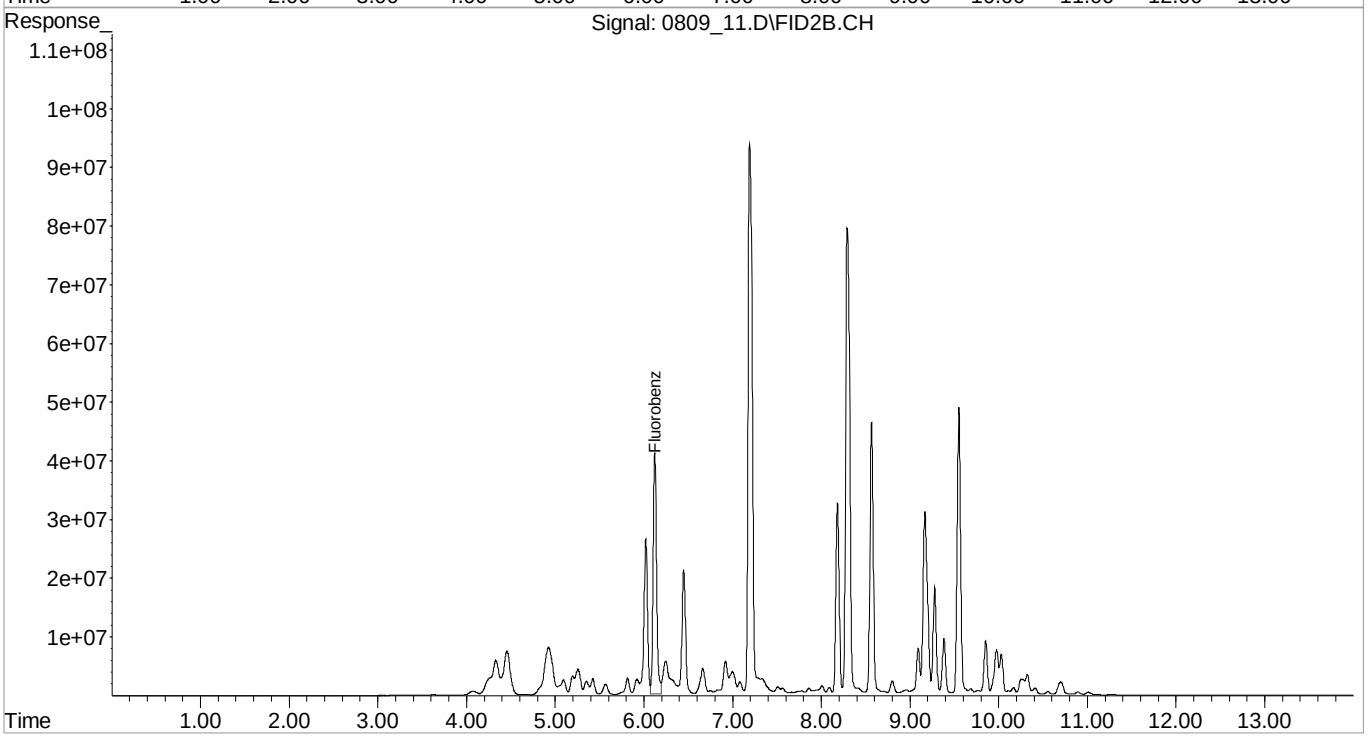
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:12 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

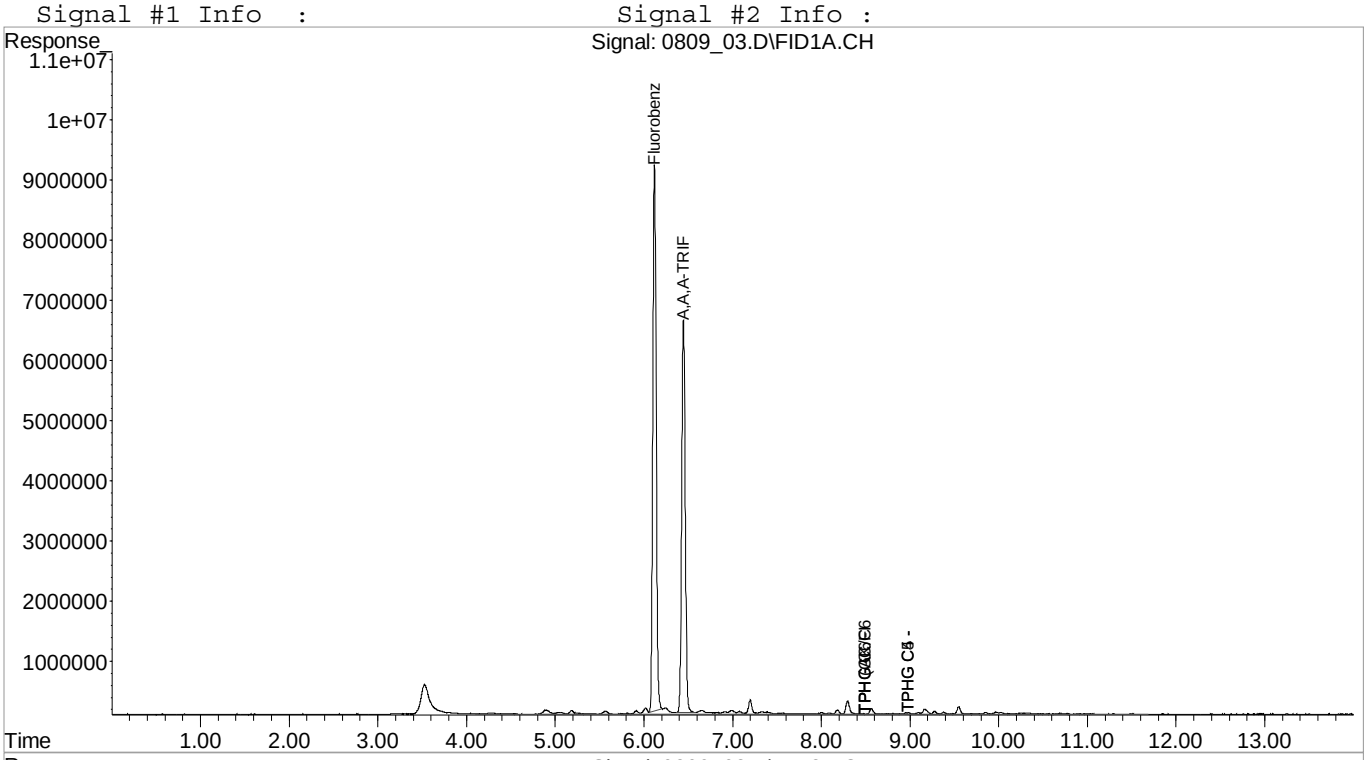
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234322129	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	178932820	217.0441350	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.52%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	10255	0.1857925	ppm
3) H,M TPHG C5 - C12	8.96	113171901	0.1231745	ppm
4) H,M TPHG C6 - C12	8.50	108536177	0.1226809	ppm
5) H,M TPHGAK C6 to C10	8.50	86352501	0.1228076	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	91153067	0.1192024	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

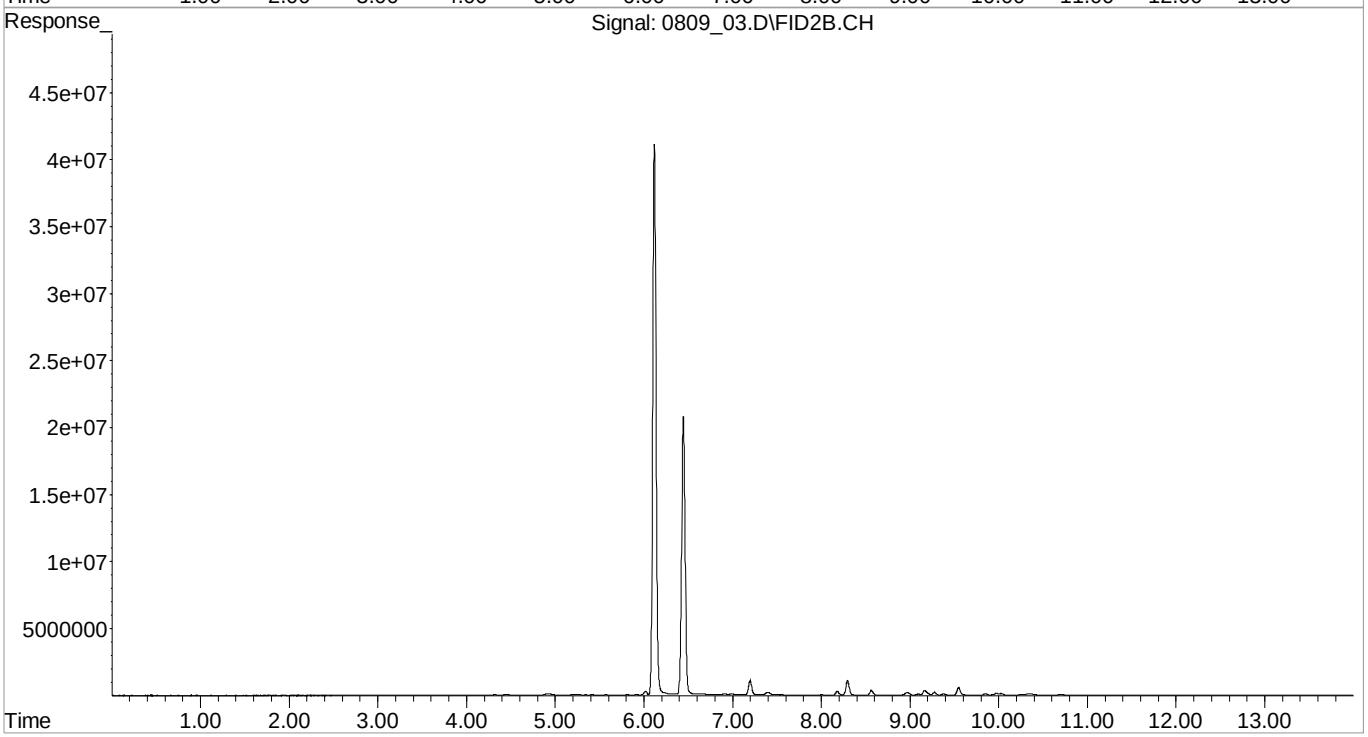
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:14 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

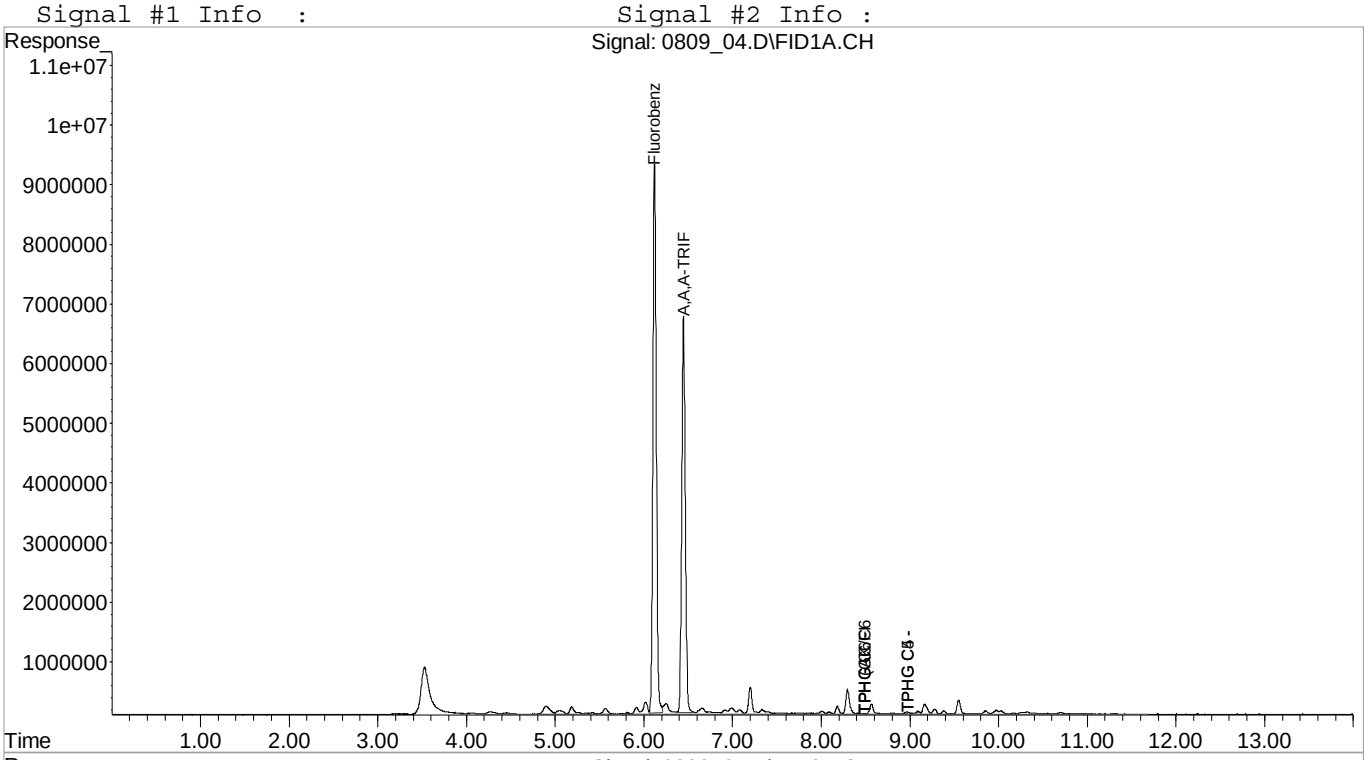
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	240284165	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	181552000	214.7569557	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.38%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	6827	0.1206260	ppm
3) H,M TPHG C5 - C12	8.96	181780058	0.1929374	ppm
4) H,M TPHG C6 - C12	8.50	172020893	0.1896146	ppm
5) H,M TPHGAK C6 to C10	8.50	131071375	0.1817801	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	141993391	0.1810798	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

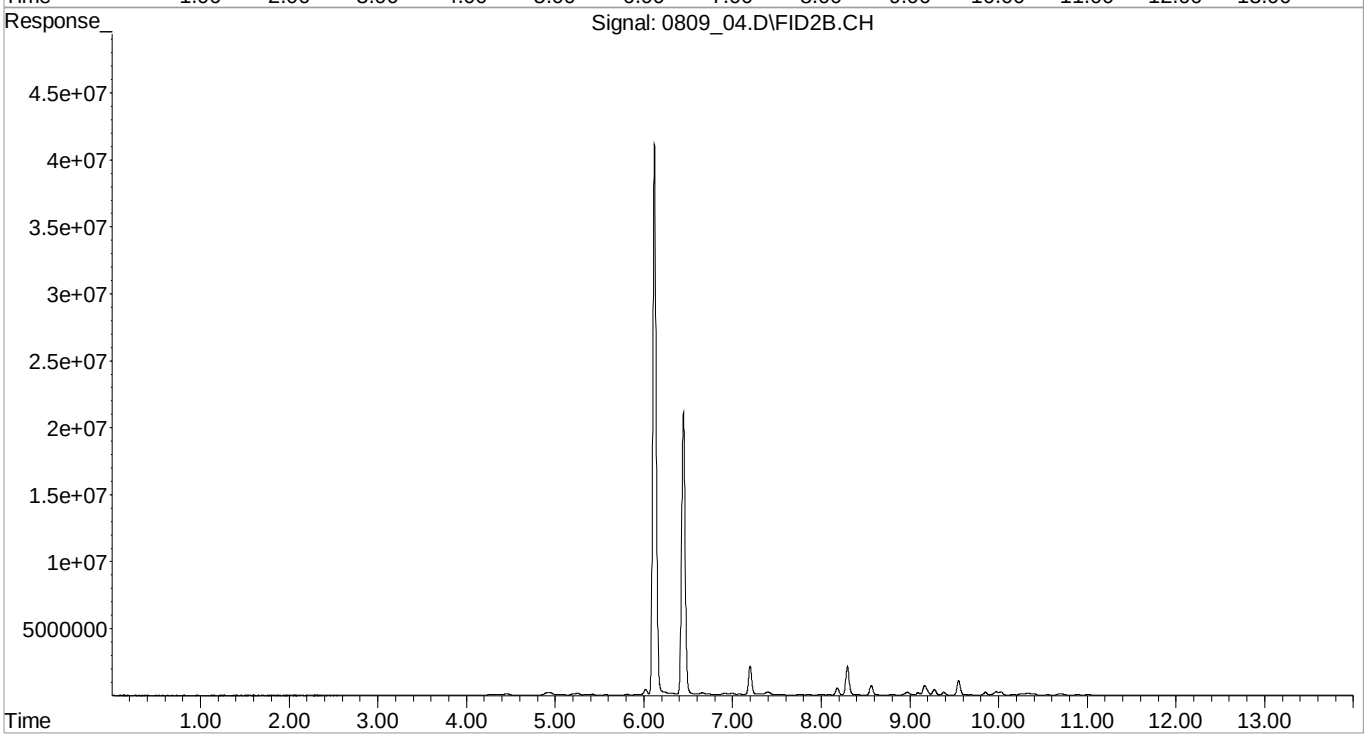
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

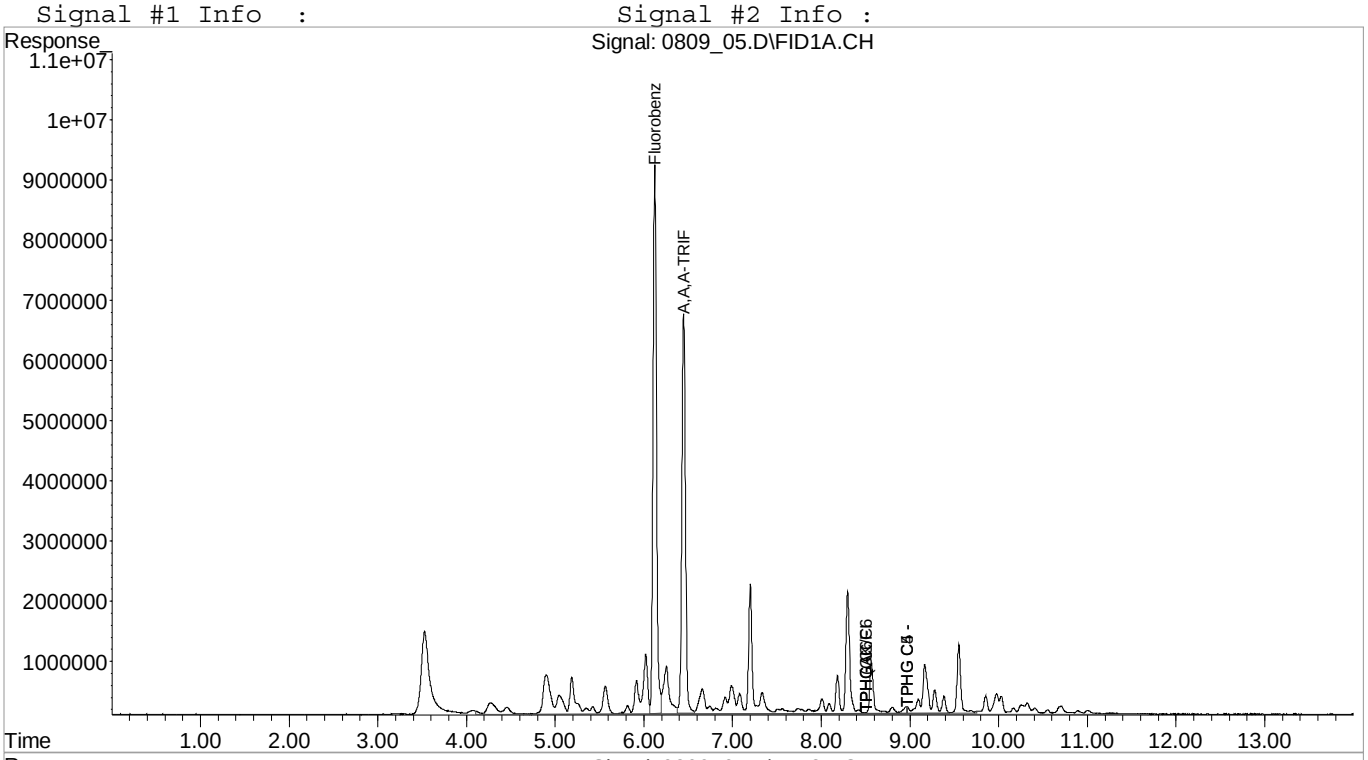
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	243679685	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	185581024	216.4639587	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.23%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	51880	0.9038655	ppm	
3) H,M TPHG C5 - C12	8.96	717313773	0.7507325	ppm	
4) H,M TPHG C6 - C12	8.50	689086400	0.7489798	ppm	
5) H,M TPHGAK C6 to C10	8.50	540260369	0.7388351	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	576935853	0.7254964	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

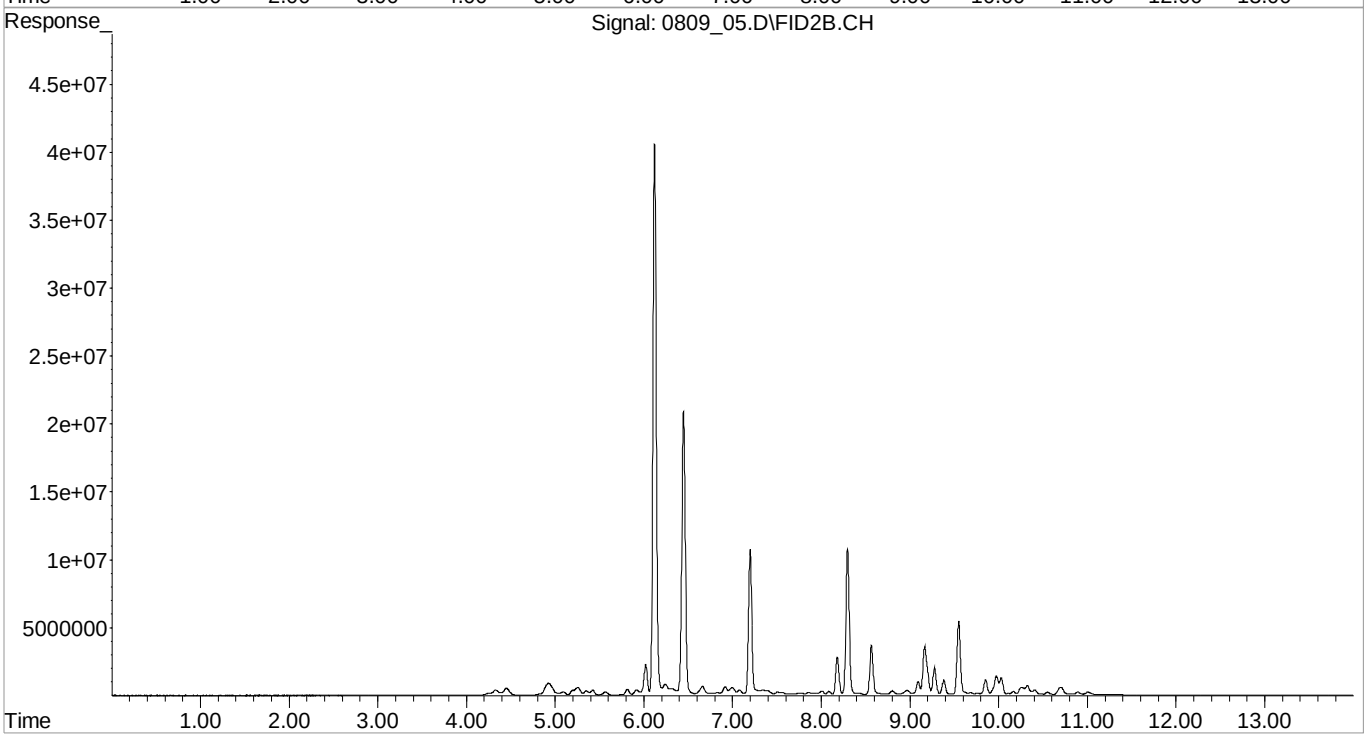
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:19 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

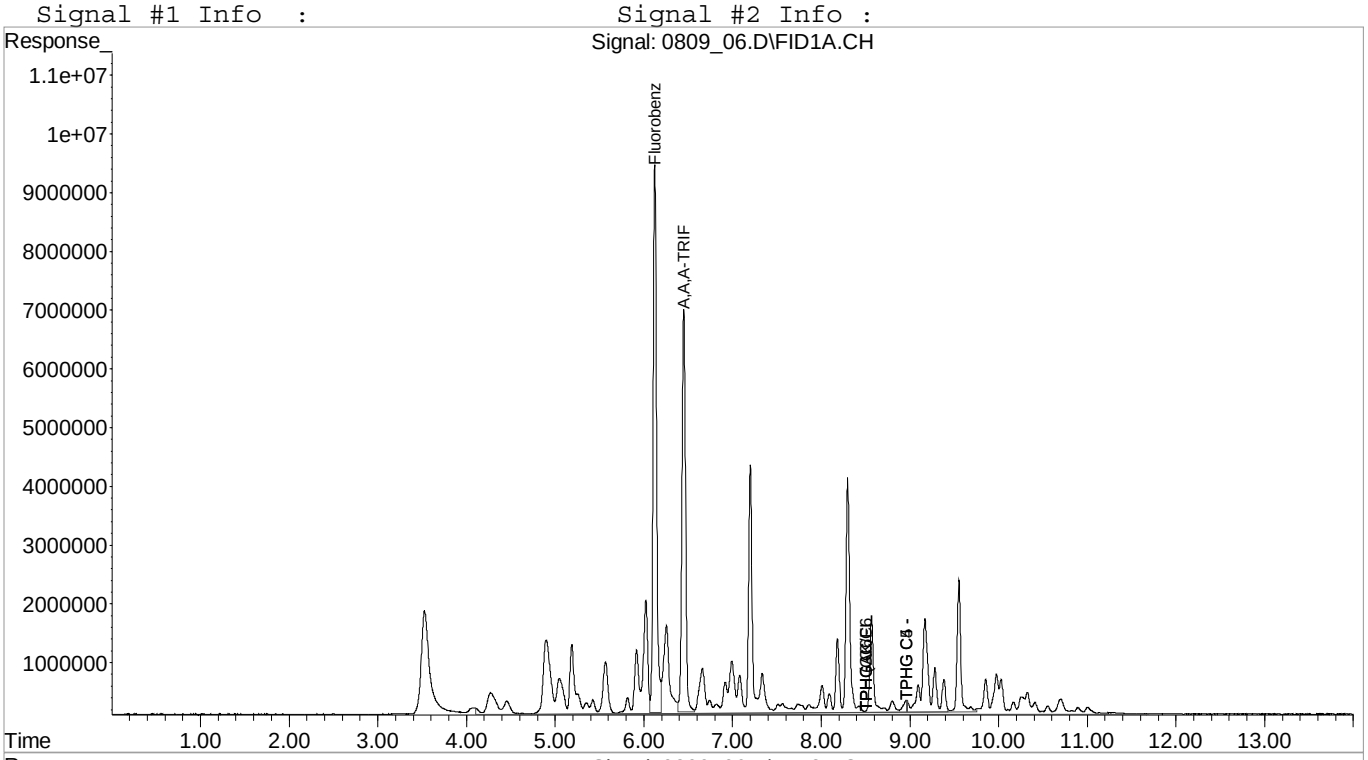
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	254408496	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	193255467	215.9093901	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.95%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	1913	0.0319237	ppm
3) H,M TPHG C5 - C12	8.96	1371375356	1.3747385	ppm
4) H,M TPHG C6 - C12	8.50	1309339442	1.3631273	ppm
5) H,M TPHGAK C6 to C10	8.50	1032490316	1.3524403	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1105235256	1.3312210	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

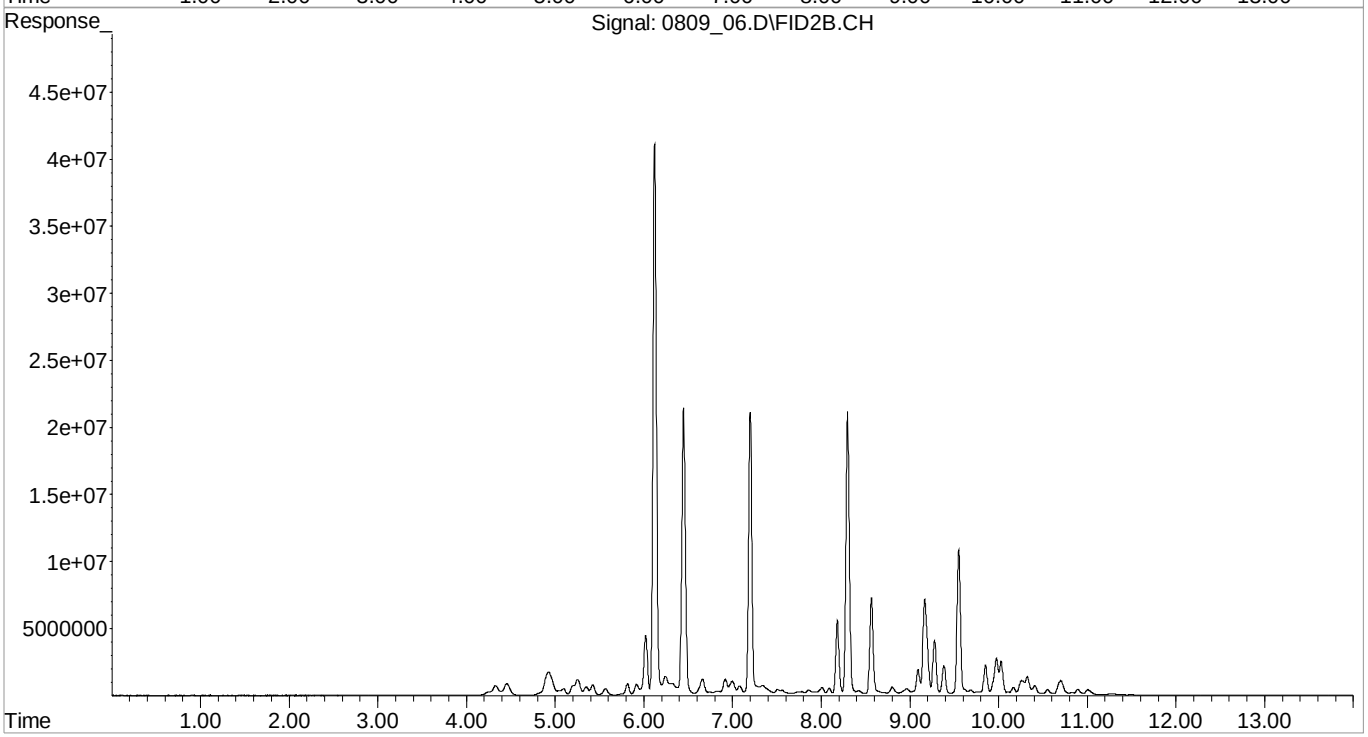
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:22 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

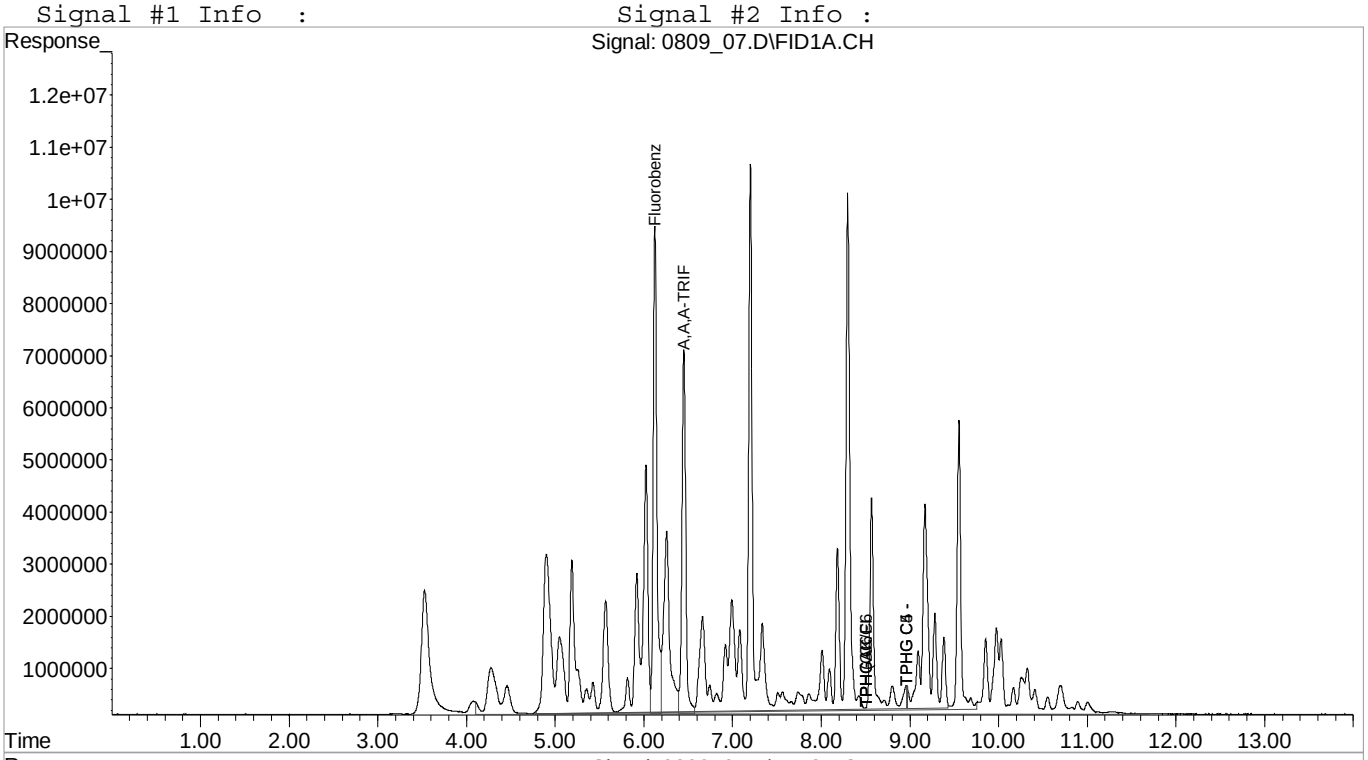
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	271919527	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207673249	217.0758524	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.54%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	30458	0.4755398	ppm	
3) H,M TPHG C5 - C12	8.96	3286899164	3.0827717	ppm	
4) H,M TPHG C6 - C12	8.50	3155240040	3.0733200	ppm	
5) H,M TPHGAK C6 to C10	8.50	2483616948	3.0437428	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	2685233088	3.0259980	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

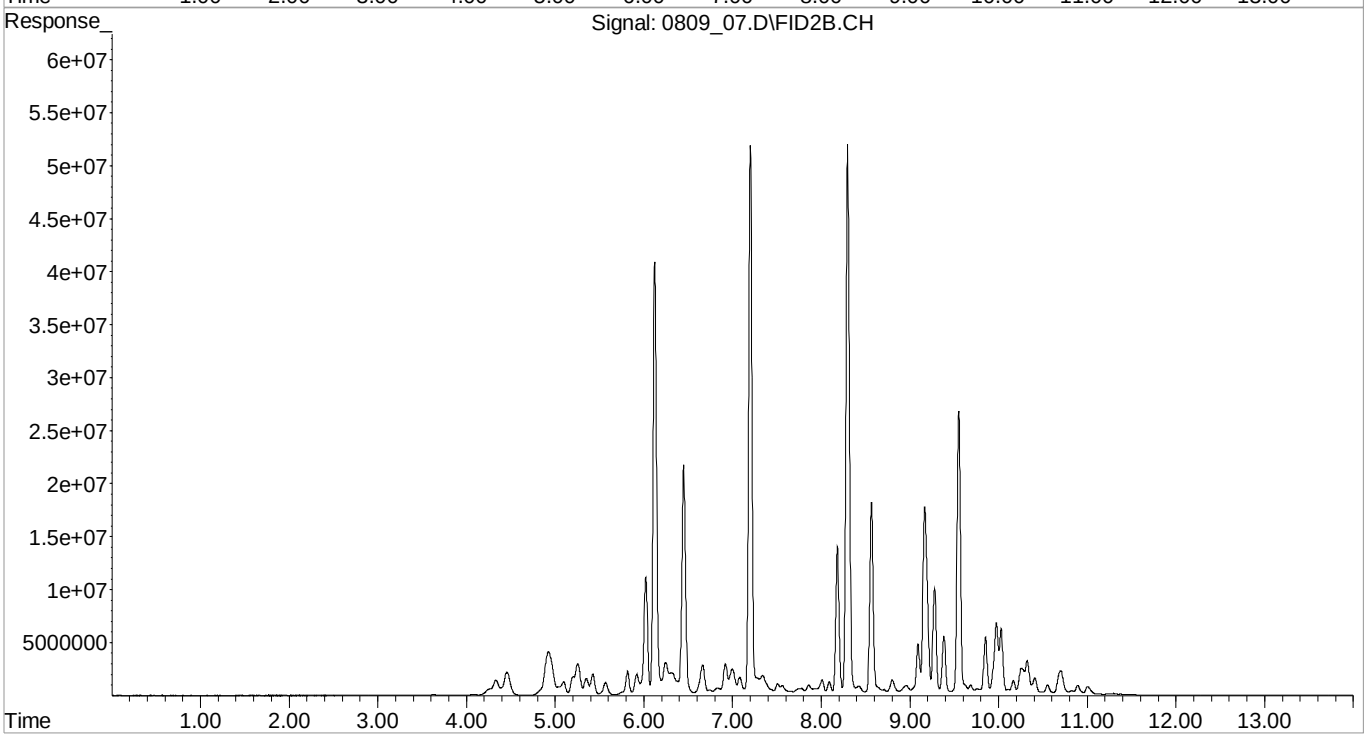
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On : 10 Aug 2014 12:37 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:24 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

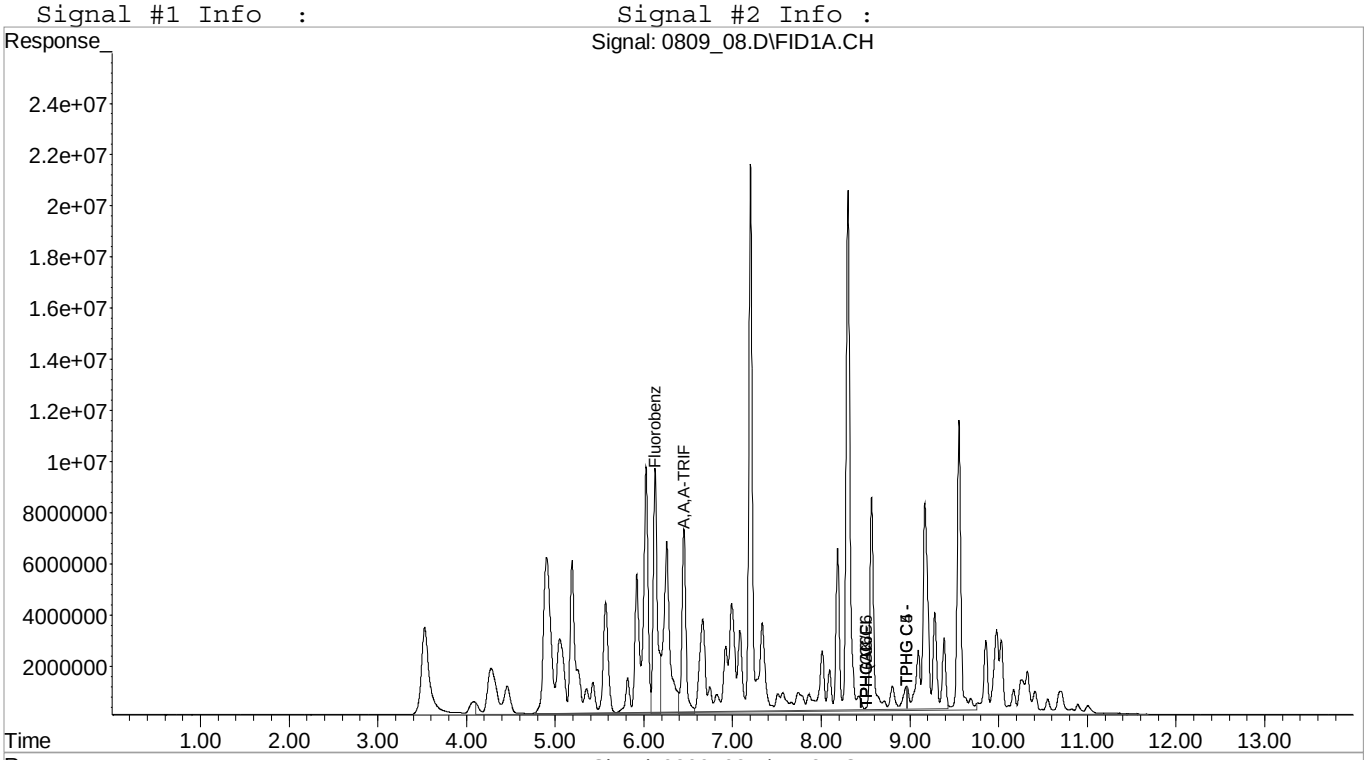
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	305641610	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	225818969	210.0000000	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	395963	5.5000000	ppm	
3) H,M TPHG C5 - C12	8.96	6591432236	5.5000000	ppm	
4) H,M TPHG C6 - C12	8.50	6346867019	5.5000000	ppm	
5) H,M TPHGAK C6 to C10	8.50	5044422289	5.5000000	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	5485902937	5.5000000	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

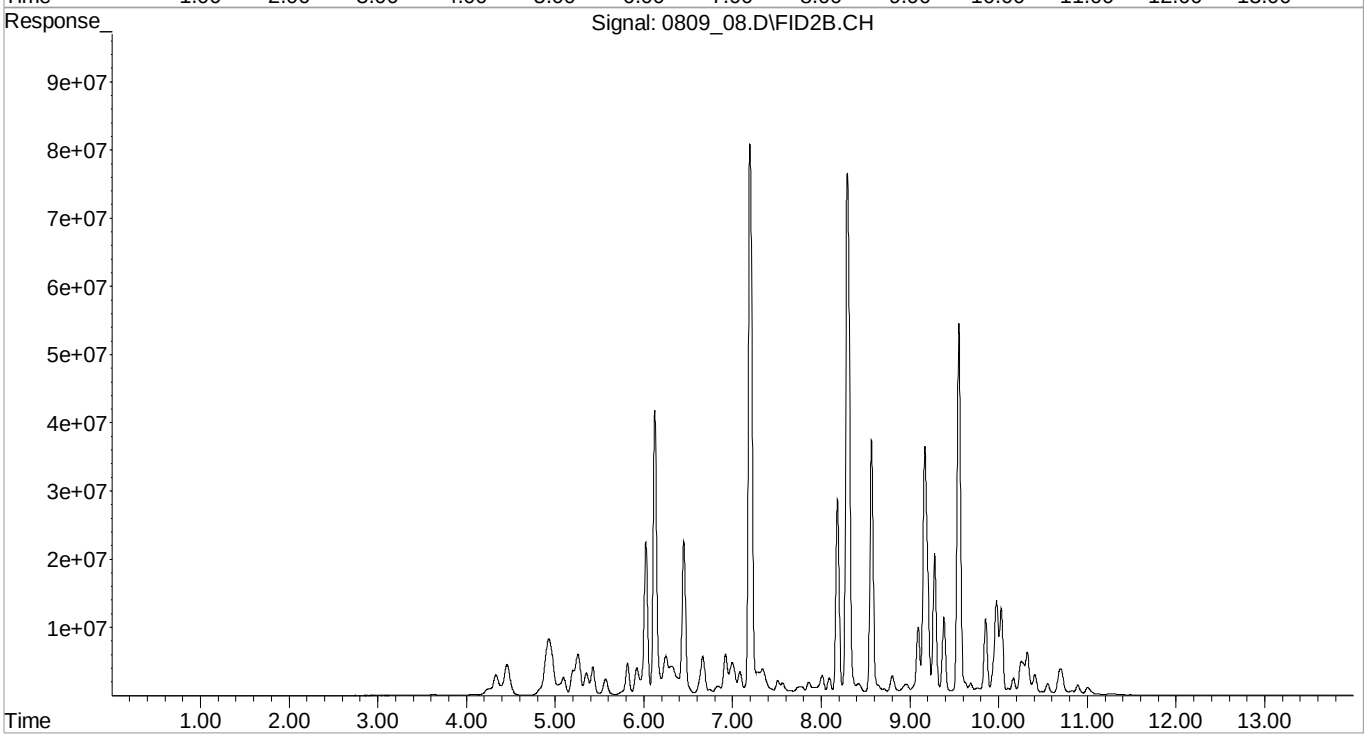
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH  Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On    : 10 Aug 2014  12:37 am                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14G07650               Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:27 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

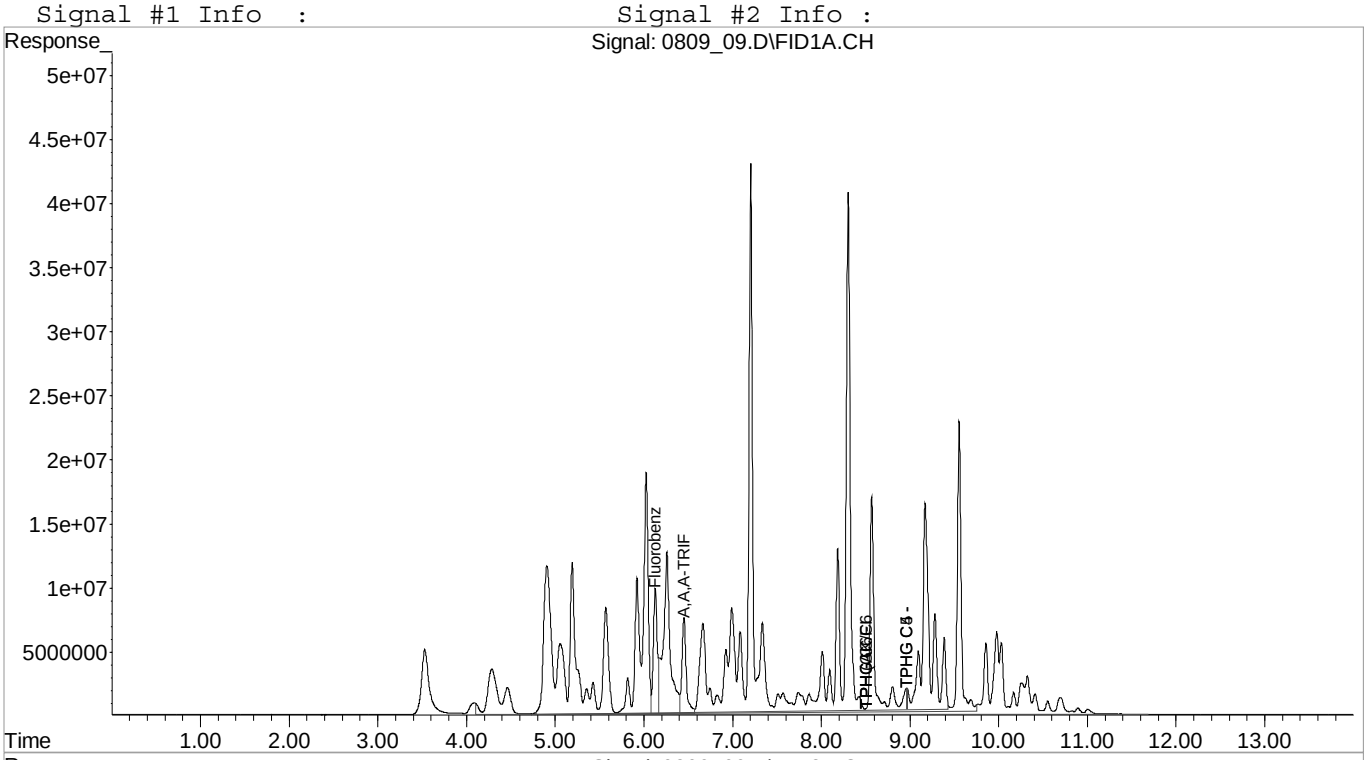
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.13	293554262	200.0000000	ppb	m
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	255754816	247.6320110	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 123.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	494161	7.1466121	ppm	
3) H,M TPHG C5 - C12	8.96	12857568528	11.1703256	ppm	
4) H,M TPHG C6 - C12	8.50	12369250024	11.1601684	ppm	
5) H,M TPHGAK C6 to C10	8.50	9969518391	11.3174744	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	10925236486	11.4043229	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

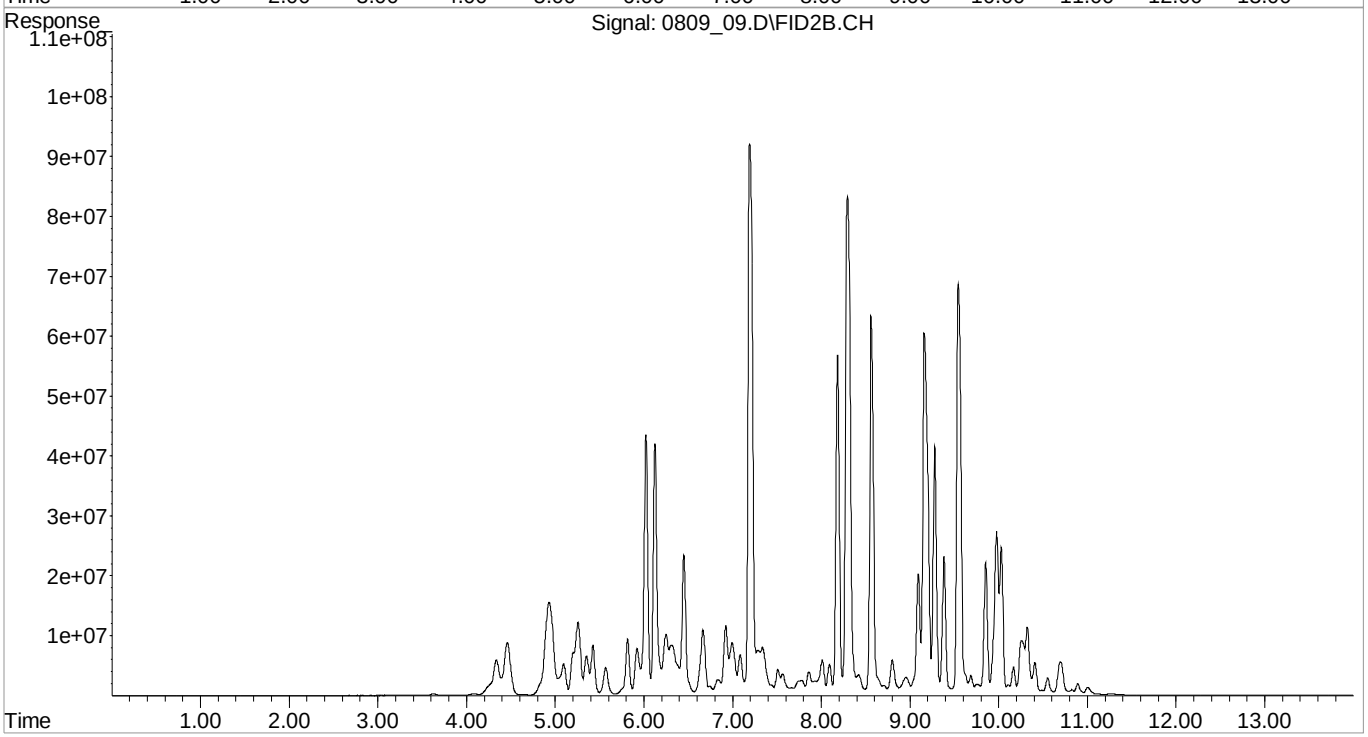
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:44 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

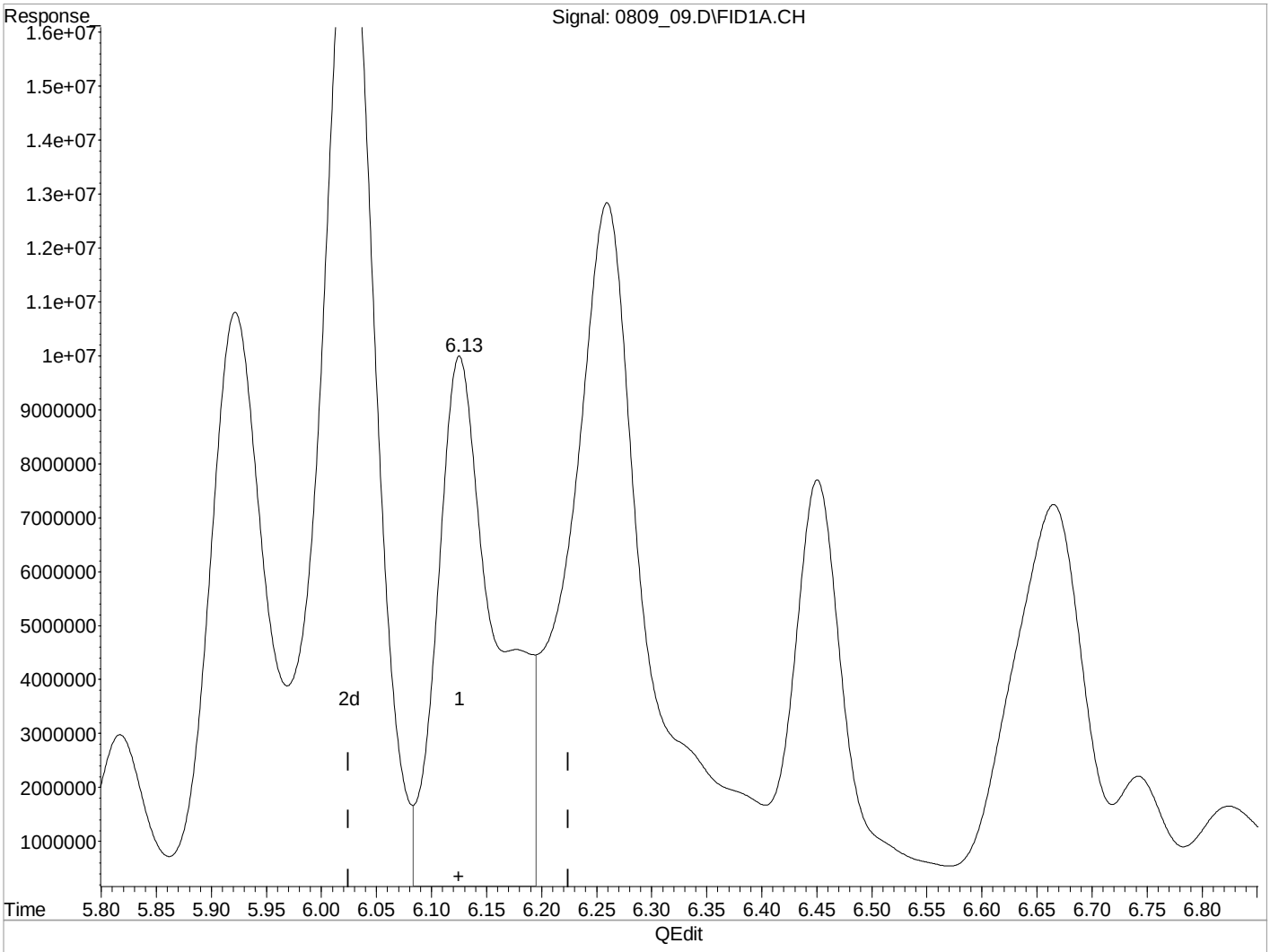




Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH  Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On    : 10 Aug 2014  12:58 am                    Operator: 621
Sample    : STD GRO 11 ppm 14G07650                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES


Method       : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration
```



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb

response 370717583

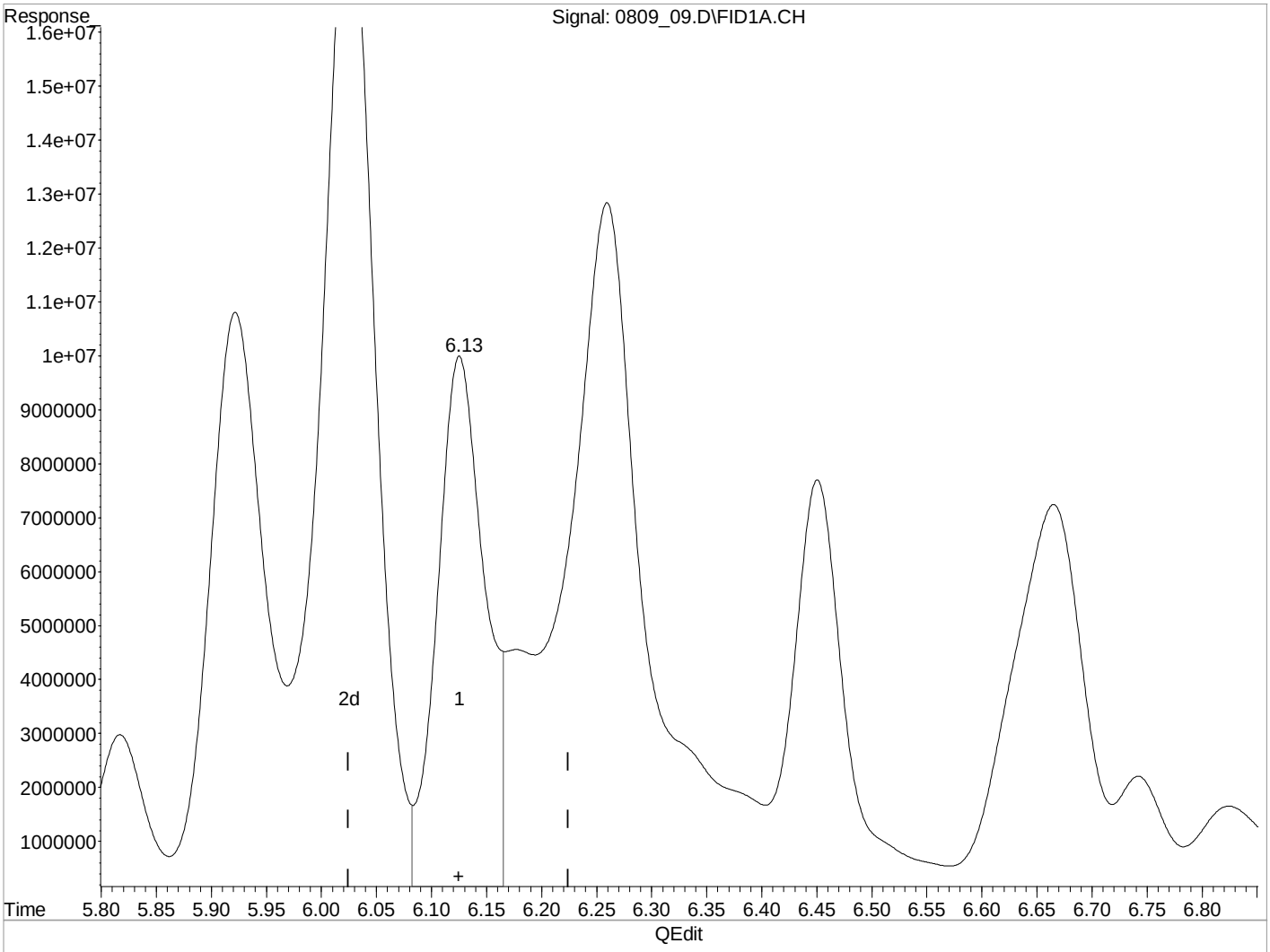
(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:06 2014

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH  Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On    : 10 Aug 2014  12:58 am                    Operator: 621
Sample    : STD GRO 11 ppm 14G07650                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES


Method       : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration
```



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb m

response 293554262

(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:14 2014

Instrument: VOCGC12
Method: BG12H21N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0821_37.D	0.5	8/21/2014 1:05:00 PM
0821_38.D	1	8/21/2014 1:26:00 PM
0821_39.D	5	8/21/2014 1:47:00 PM
0821_40.D	10	8/21/2014 2:08:00 PM
0821_41.D	25	8/21/2014 2:29:00 PM
0821_42.D	50	8/21/2014 2:50:00 PM
0821_43.D	100	8/21/2014 3:11:00 PM
0821_44.D	150	8/21/2014 3:32:00 PM
0821_45.D	200	8/21/2014 3:54:00 PM
0821_46.D	250	8/21/2014 4:15:00 PM
0809_03.D	.05G	8/9/2014 10:53:00 PM
0809_04.D	.11G	8/9/2014 11:14:00 PM
0809_05.D	.55G	8/9/2014 11:35:00 PM
0809_06.D	1.1G	8/9/2014 11:55:00 PM
0809_07.D	2.7G	8/10/2014 12:16:00 AM
0809_08.D	5.5G	8/10/2014 12:37:00 AM
0809_09.D	11G	8/10/2014 12:58:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX

Released By : John A. Heath Jr.
Date Released : 8/22/2014 10:47:29 AM

Run ID : 080914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0809_01	INSTBLK	BG12H09N						1	1	08/09/14 2211	"soil SURIS14F10114"
2	0809_03	STD GRO .055 PPM 14G07650	BG12H09N						1	1	08/09/14 2253	"soil SURIS14F10114"
3	0809_04	STD GRO .11 PPM 14G07650	BG12H09N						1	1	08/09/14 2314	"soil SURIS14F10114"
4	0809_05	STD GRO .55 PPM 14G07650	BG12H09N						1	1	08/09/14 2335	"soil SURIS14F10114"
5	0809_06	STD GRO 1.1 PPM 14G07650	BG12H09N						1	1	08/09/14 2355	"soil SURIS14F10114"
6	0809_07	STD GRO 2.75 PPM 14G07650	BG12H09N						1	1	08/10/14 0016	"soil SURIS14F10114"
7	0809_08	MSTD GRO 5.5G PPM 14G07650	BG12H09N						1	1	08/10/14 0037	"soil SURIS14F10114"
8	0809_09	STD GRO 11 PPM 14G07650	BG12H09N						1	1	08/10/14 0058	"soil SURIS14F10114"
9	0809_11	SSCV GRO 5.5G PPM 14G07651	BG12H09N						1	1	08/10/14 0140	"soil SURIS14F10114"
10	0821_01	INSTBLK	BG12H09N						1	1	08/20/14 2301	"soil SURIS14F10114"
11	0821_08	INSTBLK	BG12H09N						1	1	08/21/14 0153	"soil SURIS14F10114"
12	0821_20	INSTBLK	BG12H09N						1	1	08/21/14 0606	"soil SURIS14F10114"
13	0821_23	INSTBLK	BG12H09N						1	1	08/21/14 0759	"soil SURIS14F10114"
14	0821_37	STD BTEX .5 PPB 14G09861	BG12H21N						1	1	08/21/14 1305	"soil SURIS14F10114"
15	0821_38	STD BTEX 1 PPB 14G09861	BG12H21N						1	1	08/21/14 1326	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC12
Computer Name : VOCCOMPX

Released By : John A. Heath Jr.
Date Released : 8/22/2014 10:47:29 AM

Run ID : 080914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0821_39	STD BTEX 5 PPB 14G09861	BG12H21N						1	1	08/21/14 1347	"soil SURIS14F10114"
17	0821_40	STD BTEX 10 PPB 14G09861	BG12H21N						1	1	08/21/14 1408	"soil SURIS14F10114"
18	0821_41	STD BTEX 25 PPB 14G09861	BG12H21N						1	1	08/21/14 1429	"soil SURIS14F10114"
19	0821_42	MSTD BTEX 50 PPB 14G09861	BG12H21N						1	1	08/21/14 1450	"soil SURIS14F10114"
20	0821_43	STD BTEX 100 PPB 14G09861	BG12H21N						1	1	08/21/14 1511	"soil SURIS14F10114"
21	0821_44	STD BTEX 150 PPB 14G09861	BG12H21N						1	1	08/21/14 1532	"soil SURIS14F10114"
22	0821_45	STD BTEX 200 PPB 14G09861	BG12H21N						1	1	08/21/14 1554	"soil SURIS14F10114"
23	0821_46	STD BTEX 250 PPB 14G09861	BG12H21N						1	1	08/21/14 1615	"soil SURIS14F10114"
24	0821_47	INSTBLK	BG12H09N						1	1	08/21/14 1636	"soil SURIS14F10114"
25	0821_48	SSCV BTEX 50 PPB 14G09864	BG12H21N						1	1	08/21/14 1657	"soil SURIS14F10114"
26	0821_58	INSTBLK	BG12H09N						1	1	08/22/14 0037	"soil SURIS14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015-8021	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: SW846	Released On	: 8/22/2014 10:47:30 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C4 - C12	1																		0	0	0	1
TPHG C5 - C12	1											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	1
1,3,5-Trimethylbenzene	2																		0	0	0	1
1,2,4-Trimethylbenzene	2																		0	0	0	1
Naphthalene	2																		0	0	0	1

PDF Generated On: 08/22/2014 - By: John A. Heath Jr.

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: AK101	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: AK	Released On	: 8/22/2014 10:46:27 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C4 - C12	1																		0	0	0	1
TPHG C5 - C12	1											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	1
1,3,5-Trimethylbenzene	2																		0	0	0	1
1,2,4-Trimethylbenzene	2																		0	0	0	1
Naphthalene	2																		0	0	0	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: GROAZ	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: AZ	Released On	: 8/22/2014 10:46:54 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C4 - C12	1																		0	0	0	1
TPHG C5 - C12	1											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	1
1,3,5-Trimethylbenzene	2																		0	0	0	1
1,2,4-Trimethylbenzene	2																		0	0	0	1
Naphthalene	2																		0	0	0	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC12	Review Method	: 8015D	Released By	: John A. Heath Jr.
Method	: BG12H21N	Review Protocol	: IN	Released On	: 8/22/2014 10:47:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG12H21N -- ICal Updated Time: Fri Aug 22 10:39:59 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C4 - C12	1																		0	0	0	1
TPHG C5 - C12	1											1756	1375	1070	980	879	784	796	1091.708	32.65	0.999	0
TPHG C6 - C12	1											1684	1302	1028	936	844	755	766	1045.023	32.43	0.999	0
TPHGAK C6 to C10	1											1340	992	806	738	664	600	617	822.554	32.18	0.999	0
TPH (GC/FID) Low Fraction	1											1415	1074	861	790	718	653	677	883.911	31.02	0.999	0
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.764	0.748	0.747	0.738	0.734	0.704	0.822	0.750827	4.84	0.048	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.53	0.532	0.532	0.532	0.528	0.519	0.508	0.519	0.506	0.497								0.520295	2.45	0.024	1
Methyl Tert-Butyl Ether	2	0.479	0.659	0.559	0.584	0.488	0.463	0.467	0.435	0.431	0.416								0.498201	15.68	0.157	1
benzene	2	1.666	2.293	1.679	1.657	1.6	1.657	1.684	1.665	1.612	1.524								1.70386	12.48	0.125	1
toluene	2	1.204	1.68	1.465	1.553	1.501	1.553	1.574	1.551	1.485	1.399								1.496426	8.5	0.085	1
ethylbenzene	2	1.022	1.438	1.265	1.35	1.309	1.353	1.372	1.353	1.306	1.276								1.304385	8.53	0.085	1
m&p-xylene	2	1.227	1.72	1.503	1.597	1.532	1.57	1.577	1.368										1.511878	10.02	0.1	1
o-xylene	2	1.06	1.462	1.277	1.362	1.316	1.369	1.389	1.366	1.322	1.244								1.31686	8.25	0.082	1
1,3,5-Trimethylbenzene	2																		0	0	0	1
1,2,4-Trimethylbenzene	2																		0	0	0	1
Naphthalene	2																		0	0	0	1

PDF Generated On: 08/22/2014 - By: John A. Heath Jr.

Mint Miner 2.03 (80118) Directory Scan: z:\082114

22 Aug 2014 11:40

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_01.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_01.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_02.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_02.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: z:\082114\0821_03.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_03.D\FID1A.CH					
0	Scanned		621	VOCGC12	ICV (soil SURIS14F10114)
Scan File Path: z:\082114\0821_04.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_04.D\FID1A.CH					
0	Scanned		621	VOCGC12	LCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_05.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_05.D\FID1A.CH					
0	Scanned		621	VOCGC12	LCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_06.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_06.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_07.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_07.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_08.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_08.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_09.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_09.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLANK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_10.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_10.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-01 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_11.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_11.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716430-01 25x WG738473 GRO (soil SURIS1

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_12.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_12.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716624-02 25x WG738473 GRO (soil SURIS1
Scan File Path: z:\082114\0821_13.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_13.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-01 25x WG738473 GROOH (soil SUR
Scan File Path: z:\082114\0821_14.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_14.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-02 100x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_15.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_15.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-03 500x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_16.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_16.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716709-04 500x WG738473 GROOH (soil SU
Scan File Path: z:\082114\0821_17.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_17.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-02 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_18.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_18.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-03 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_19.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_19.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-04 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_20.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_20.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_21.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_21.D\FID1A.CH					
0	Scanned		621	VOCGC12	RT (soil SURIS14F10114)
Scan File Path: z:\082114\0821_22.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_22.D\FID1A.CH					
0	Scanned		621	VOCGC12	CCV (soil SURIS14F10114)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_23.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_23.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_24.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_24.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716797-05 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_25.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_25.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716805-01 125x WG738473 GRO (soil SURIS
Scan File Path: z:\082114\0821_26.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_26.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716832-02 5x WG738473 GRO (soil SURIS14
Scan File Path: z:\082114\0821_27.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_27.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716834-01 50x WG738473 GRO (soil SURIS1
Scan File Path: z:\082114\0821_28.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_28.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-01 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_29.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_29.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-02 25x WG738473 GROOH (soil SUR
Scan File Path: z:\082114\0821_30.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_30.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-05 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_31.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_31.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-06 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_32.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_32.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-09 5x WG738473 GROOH (soil SURI
Scan File Path: z:\082114\0821_33.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_33.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717011-10 5x WG738473 GROOH (soil SURI

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_34.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_34.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_35.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_35.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_36.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_36.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_37.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_37.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX .5 ppm 14G09861 (soil SURIS14F
Scan File Path: z:\082114\0821_38.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_38.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 1 ppm 14G09861 (soil SURIS14F1
Scan File Path: z:\082114\0821_39.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_39.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 5 ppm 14G09861 (soil SURIS14F1
Scan File Path: z:\082114\0821_40.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_40.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 10 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_41.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_41.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 25 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_42.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_42.D\FID1A.CH					
27	Scanned	D(27)	621	VOCGC12	STD BTEX 50 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_43.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_43.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 100 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_44.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_44.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 150 ppm 14G09861 (soil SURIS14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_45.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_45.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 200 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_46.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_46.D\FID1A.CH					
17	Scanned	D(17)	621	VOCGC12	STD BTEX 250 ppm 14G09861 (soil SURIS14
Scan File Path: z:\082114\0821_47.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_47.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_48.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_48.D\FID1A.CH					
2	Scanned	QM(1)	621	VOCGC12	SSCV BTEX 50 ppm 14G09864 (soil SURIS1
Scan File Path: z:\082114\0821_49.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_49.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_50.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_50.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_51.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_51.D\FID1A.CH					
0	Scanned		621	VOCGC12	GICV (soil SURIS14F10114)
Scan File Path: z:\082114\0821_52.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_52.D\FID1A.CH					
0	Scanned		621	VOCGC12	GLCS (soil SURIS14F10114)
Scan File Path: z:\082114\0821_53.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_53.D\FID1A.CH					
0	Scanned		621	VOCGC12	GLCSD (soil SURIS14F10114)
Scan File Path: z:\082114\0821_54.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_54.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS 1x WG738802 LXXXXXX-XX (water SUR
Scan File Path: z:\082114\0821_55.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_55.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD (soil SURIS14F10114)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_56.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_56.D\FID1A.CH					
0	Scanned		621	VOCGC12	MS gro (soil SURIS14F10114)
Scan File Path: z:\082114\0821_57.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_57.D\FID1A.CH					
0	Scanned		621	VOCGC12	MSD gro (soil SURIS14F10114)
Scan File Path: z:\082114\0821_58.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_58.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_59.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_59.D\FID1A.CH					
0	Scanned		621	VOCGC12	BLANK (soil SURIS14F10114)
Scan File Path: z:\082114\0821_60.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_60.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-01 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_61.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_61.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717219-04 1x WG738802 BTEXM (water SUF
Scan File Path: z:\082114\0821_62.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_62.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716156-26 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_63.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_63.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-02 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_64.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_64.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-09 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_65.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_65.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716459-14 1x WG738802 GROWY (water SU
Scan File Path: z:\082114\0821_66.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_66.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716466-10 1x WG738802 GRO (water SURIS

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_67.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_67.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716224-06 20x WG738802 BTEXM (water SU
Scan File Path: z:\082114\0821_68.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_68.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716689-04 10x WG738802 BTEXGROM (wa
Scan File Path: z:\082114\0821_69.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_69.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-01 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_70.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_70.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (water SURIS14F10114)
Scan File Path: z:\082114\0821_71.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_71.D\FID1A.CH					
0	Scanned		621	VOCGC12	BCCV (water SURIS14F10114)
Scan File Path: z:\082114\0821_72.D					
Original Path: C:\MSDCHEM\1\DATA\082114\0821_72.D\FID1A.CH					
0	Scanned		621	VOCGC12	GCCV (water SURIS14F10114)
Scan File Path: z:\082114\0821_73.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_73.D\FID1A.CH					
0	Scanned		621	VOCGC12	INSTBLK (water SURIS14F10114)
Scan File Path: z:\082114\0821_74.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_74.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-02 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_75.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_75.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-03 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_76.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_76.D\FID1A.CH					
0	Scanned		621	VOCGC12	L716820-04 1x WG738802 BTEXGROM (wat
Scan File Path: z:\082114\0821_77.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_77.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717348-15 500x WG738802 BTEXGROM (w

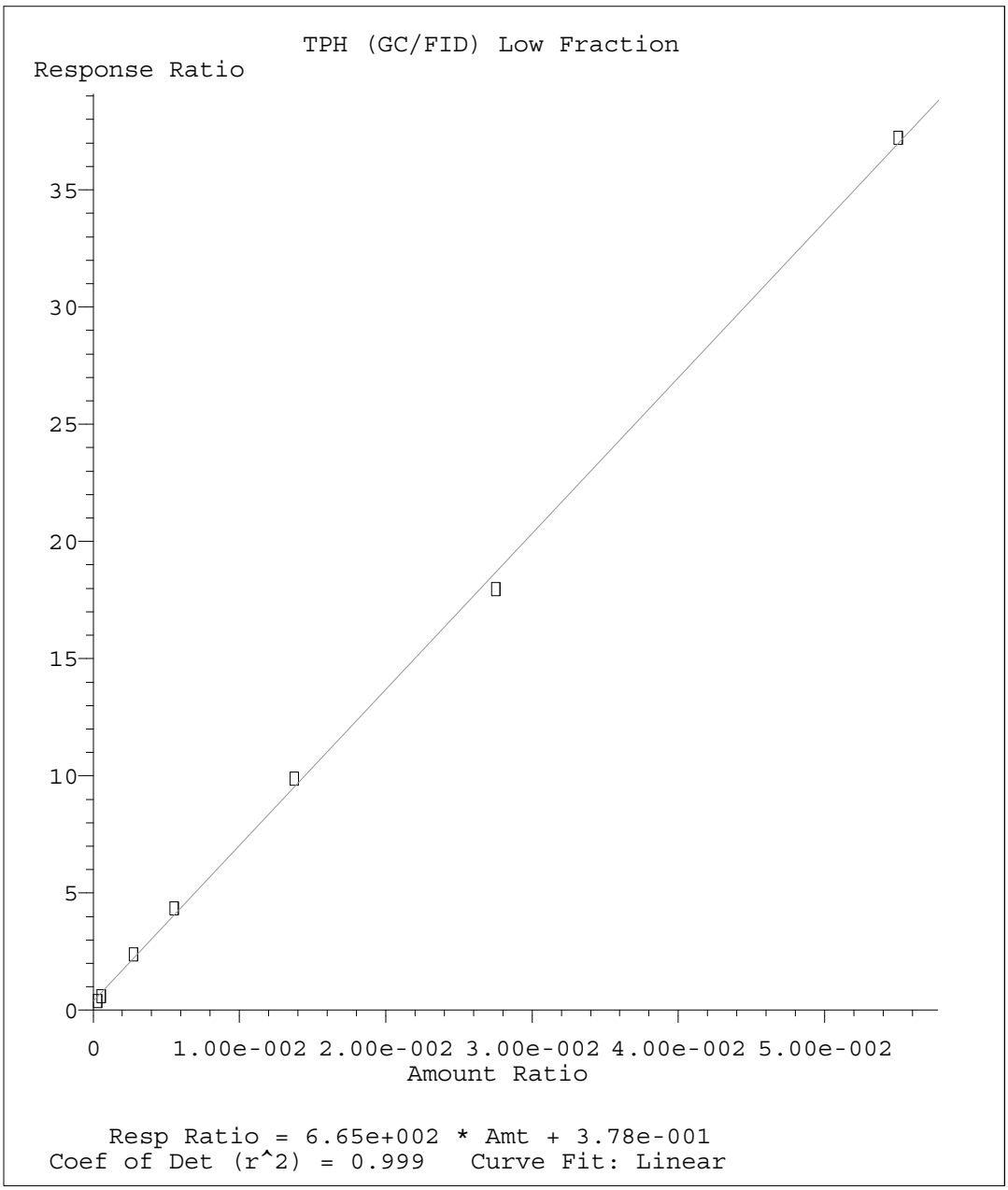
Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\082114\0821_78.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_78.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-02 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_79.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_79.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-03 1x WG738802 BTEXGRO (water S
Scan File Path: z:\082114\0821_80.D					
Original Path: C:\MSDchem\1\DATA\082114\0821_80.D\FID1A.CH					
0	Scanned		621	VOCGC12	L717401-04 20x WG738802 BTEXGRO (water

D = Deletion of any analyte QM = Processed >3 times using the same method

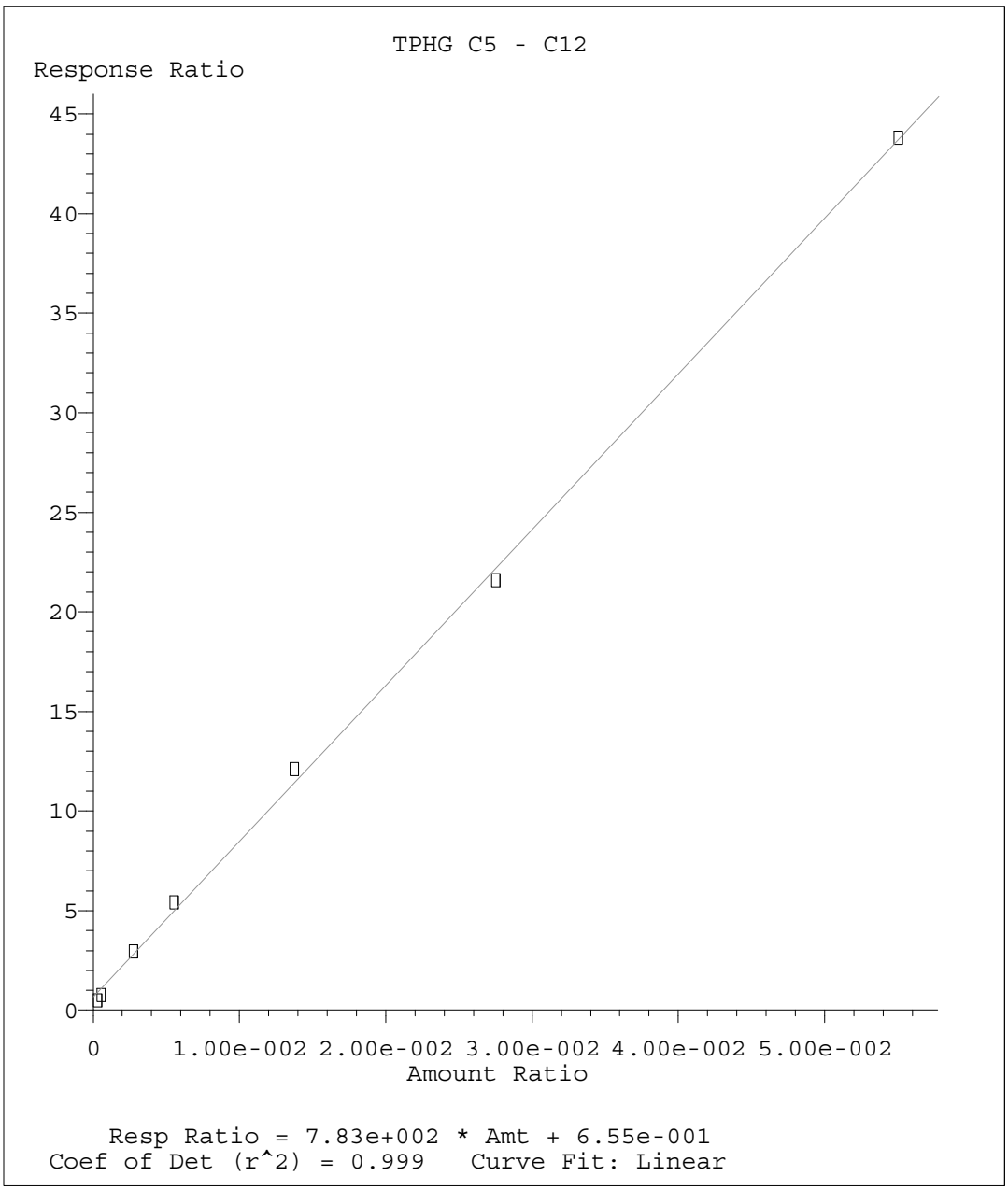
ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

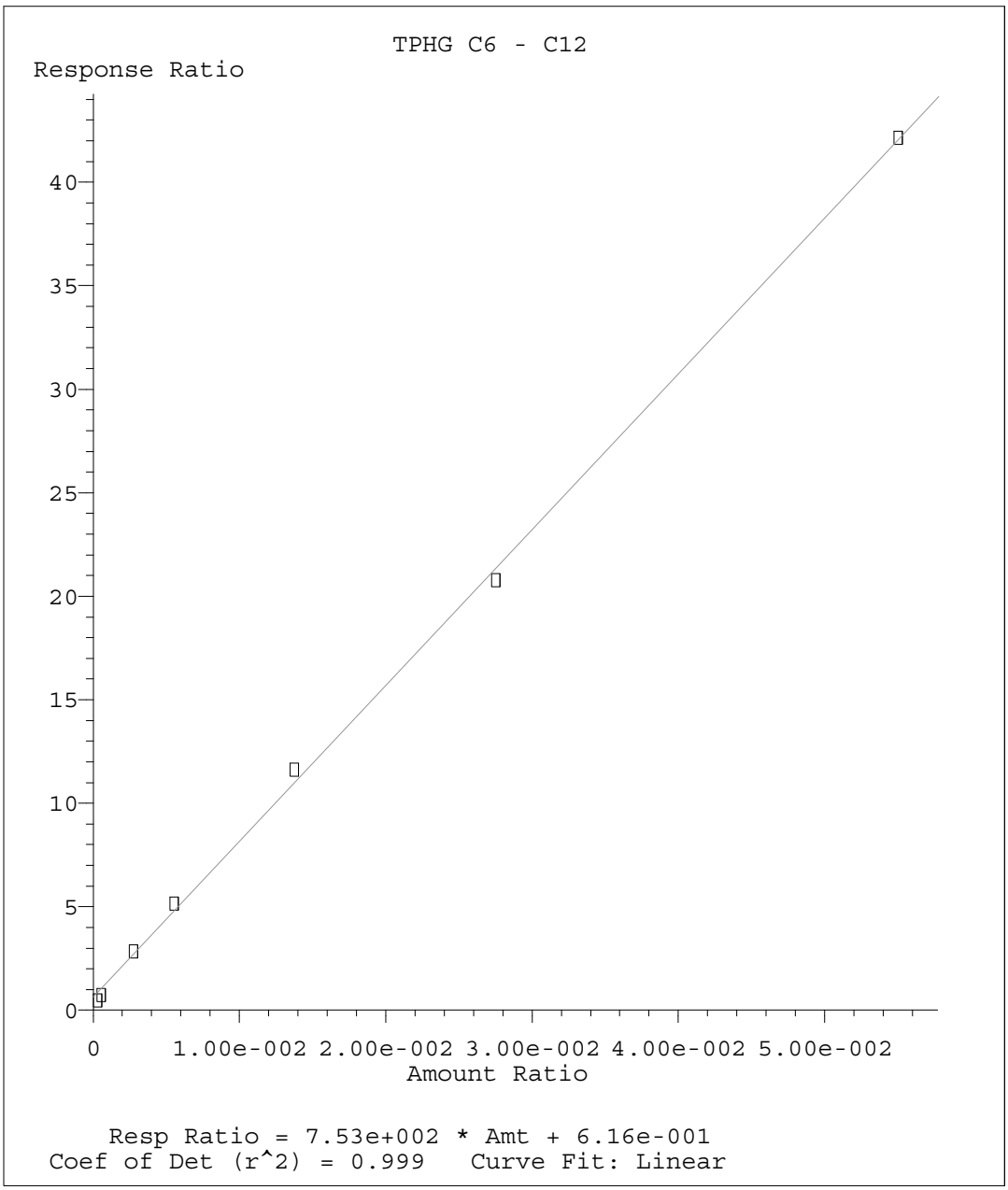
Distinct Method Last Updated count
Operators Intruments



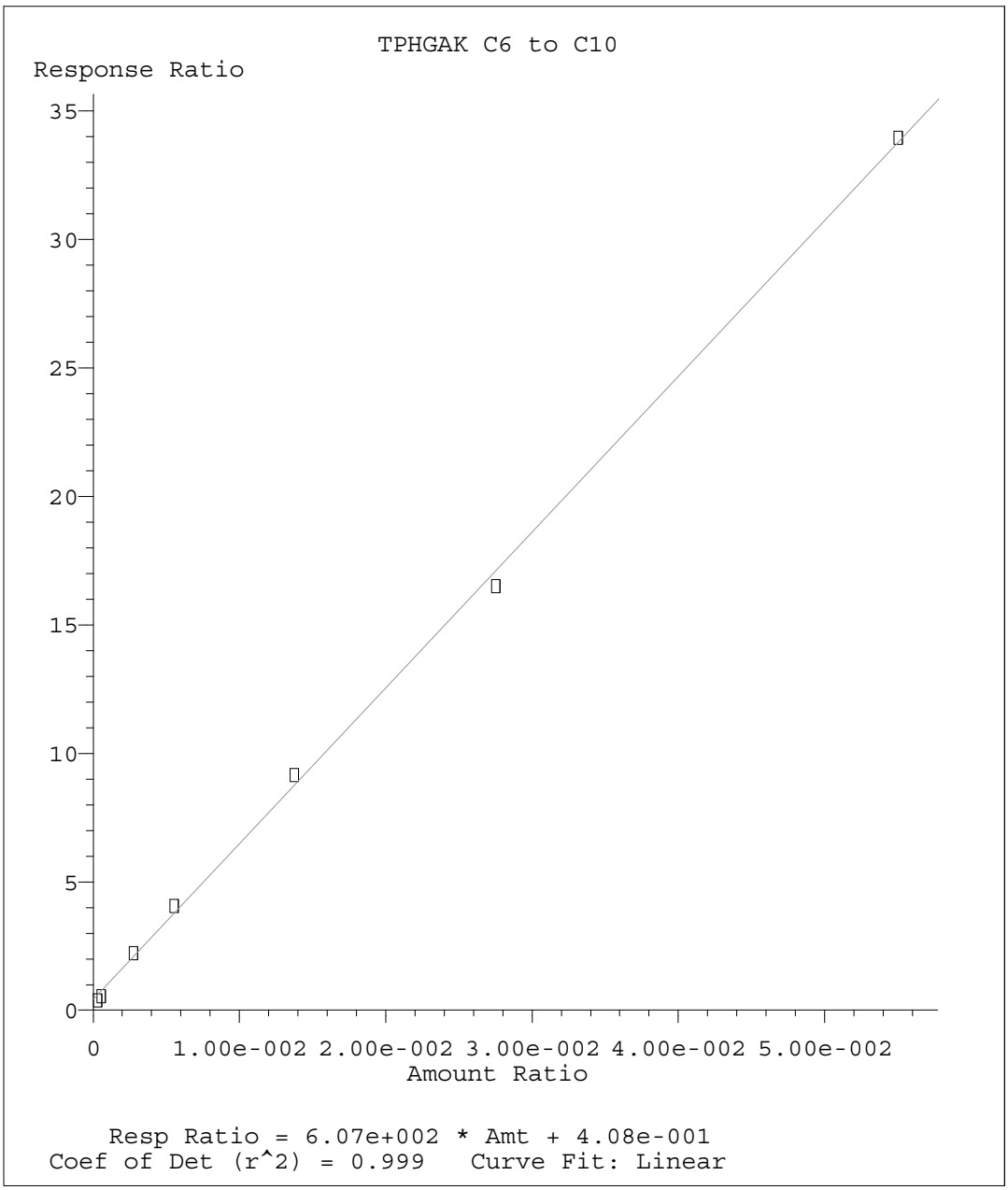
Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M



Method Name: C:\MSDCHEM\1\METHODS\BG12H21N.M

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

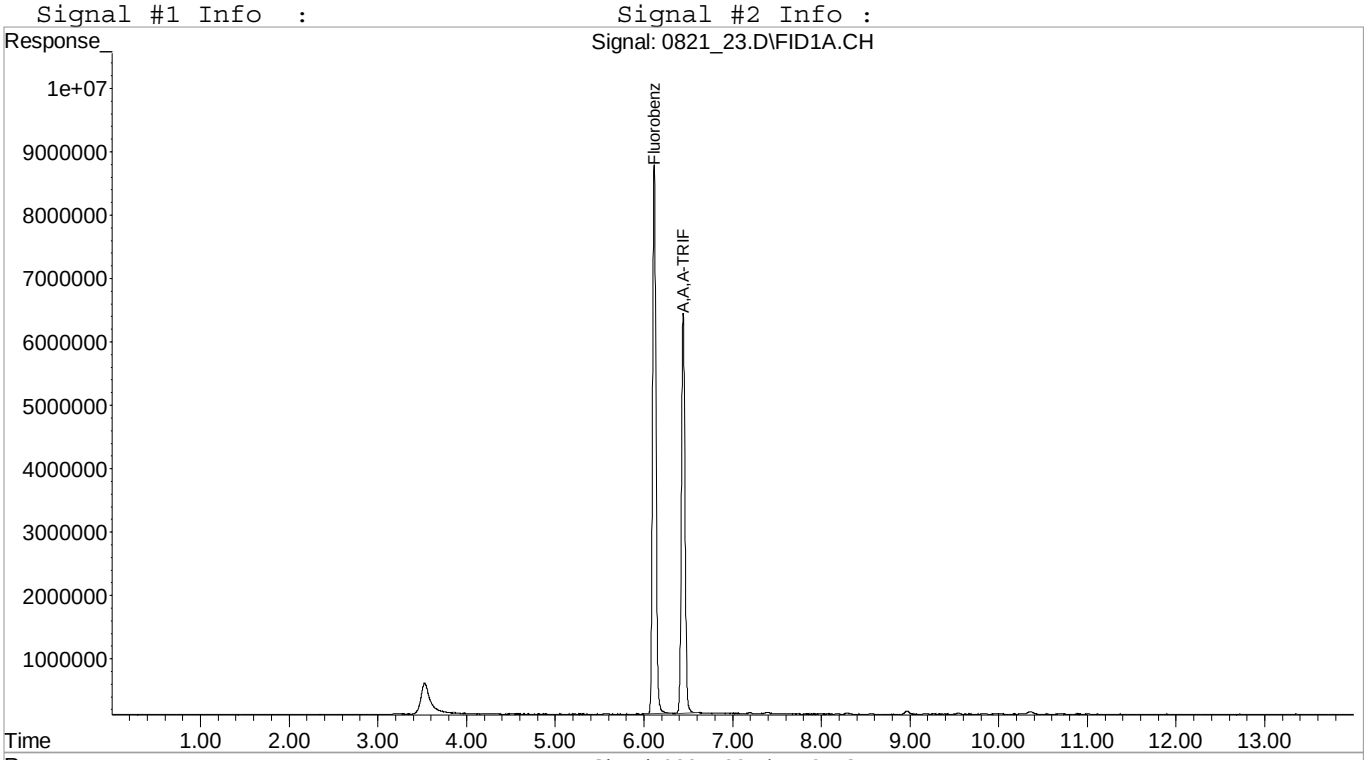
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	226496280	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1052737689	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	174235195	204.9109527	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.46%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	573236439	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	18050	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47063952	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	43659936	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	32160792	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	33516231	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	6.02	648075	NoCal	ppb
13) T,M toluene	7.19	1927034	NoCal	ppb
14) T,M ethylbenzene	8.18	648370	NoCal	ppb
15) T,M m&p-xylene	8.29	2562703	NoCal	ppb
16) T,M o-xylene	8.56	911106	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	888970	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2523367	NoCal	ppb
19) T,M Naphthalene	11.49	44356	NoCal	ppb

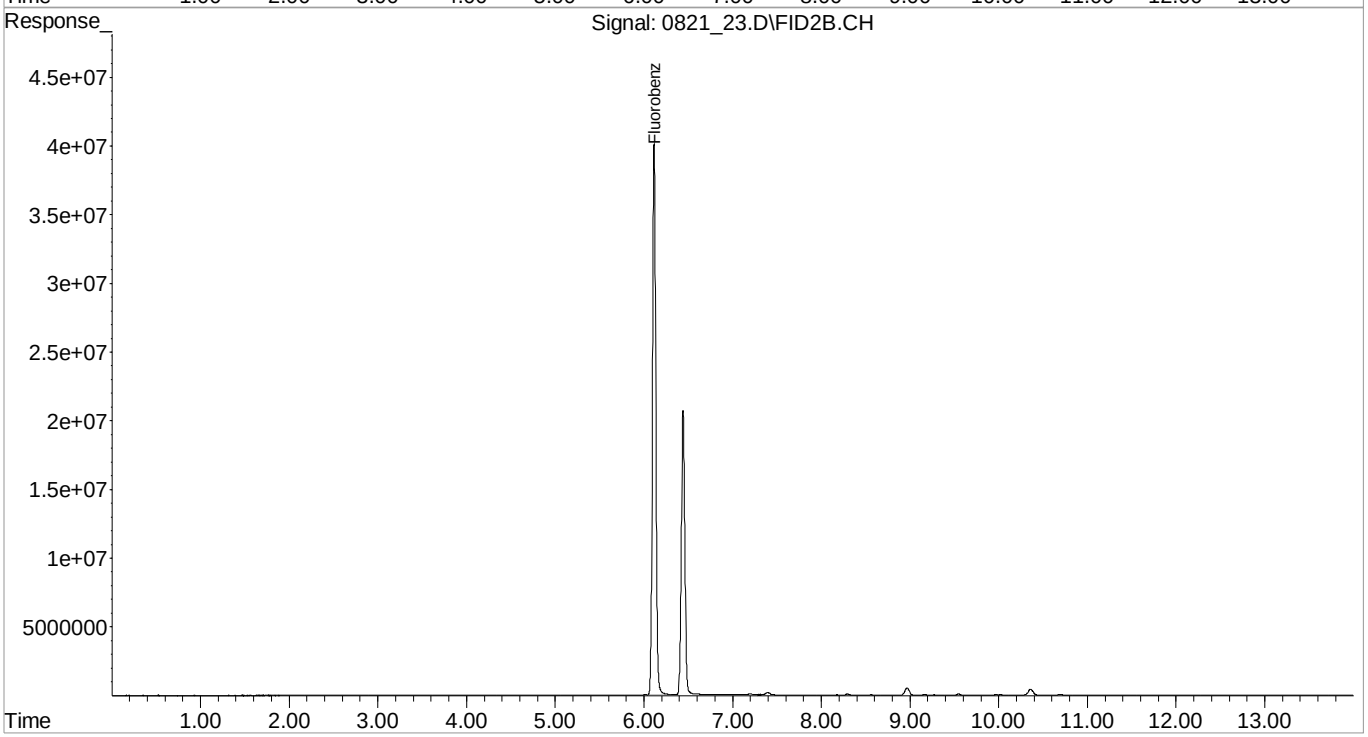
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

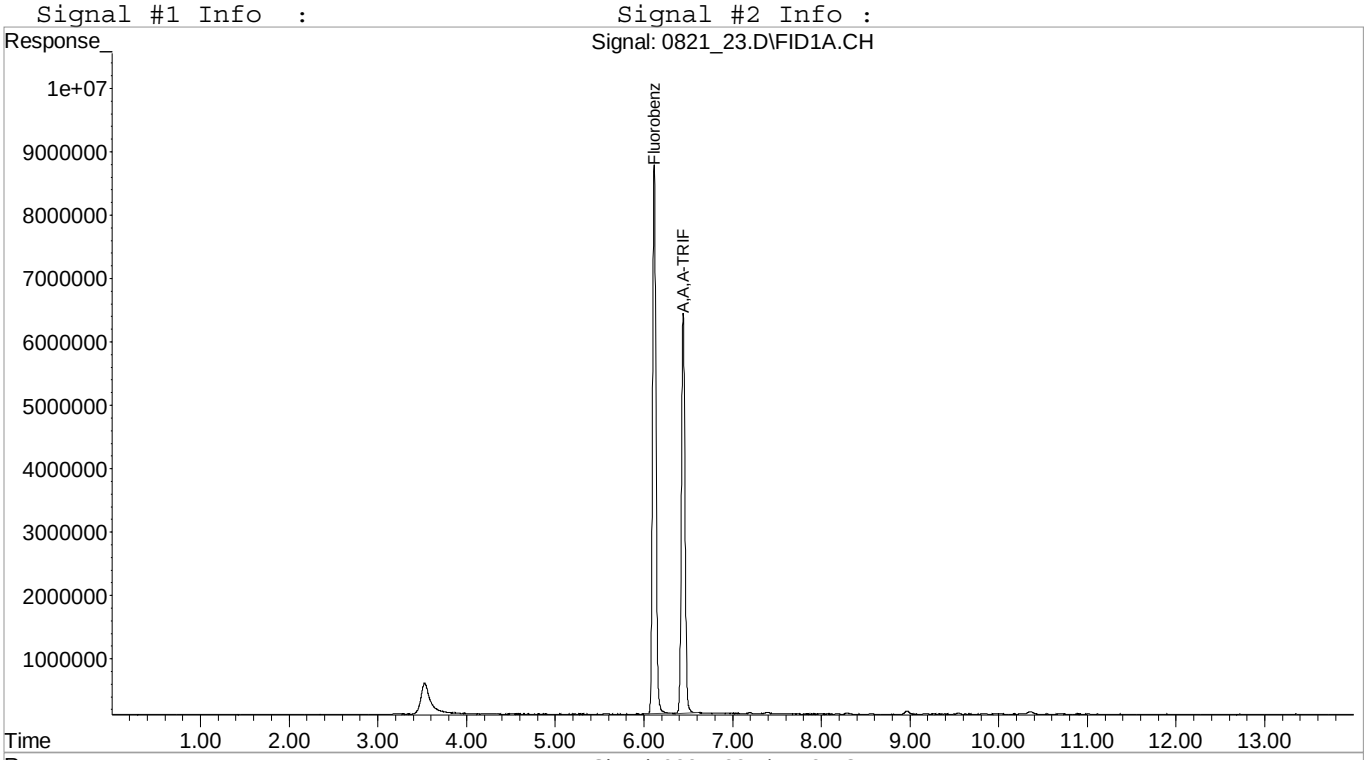
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	226496280	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1052737689	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	174235195	204.9109527	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.46%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	573236439	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	18050	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47063952	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	43659936	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	32160792	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	33516231	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	6.02	648075	NoCal	ppb
13) T,M toluene	7.19	1927034	NoCal	ppb
14) T,M ethylbenzene	8.18	648370	NoCal	ppb
15) T,M m&p-xylene	8.29	2562703	NoCal	ppb
16) T,M o-xylene	8.56	911106	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	888970	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2523367	NoCal	ppb
19) T,M Naphthalene	11.49	44356	NoCal	ppb

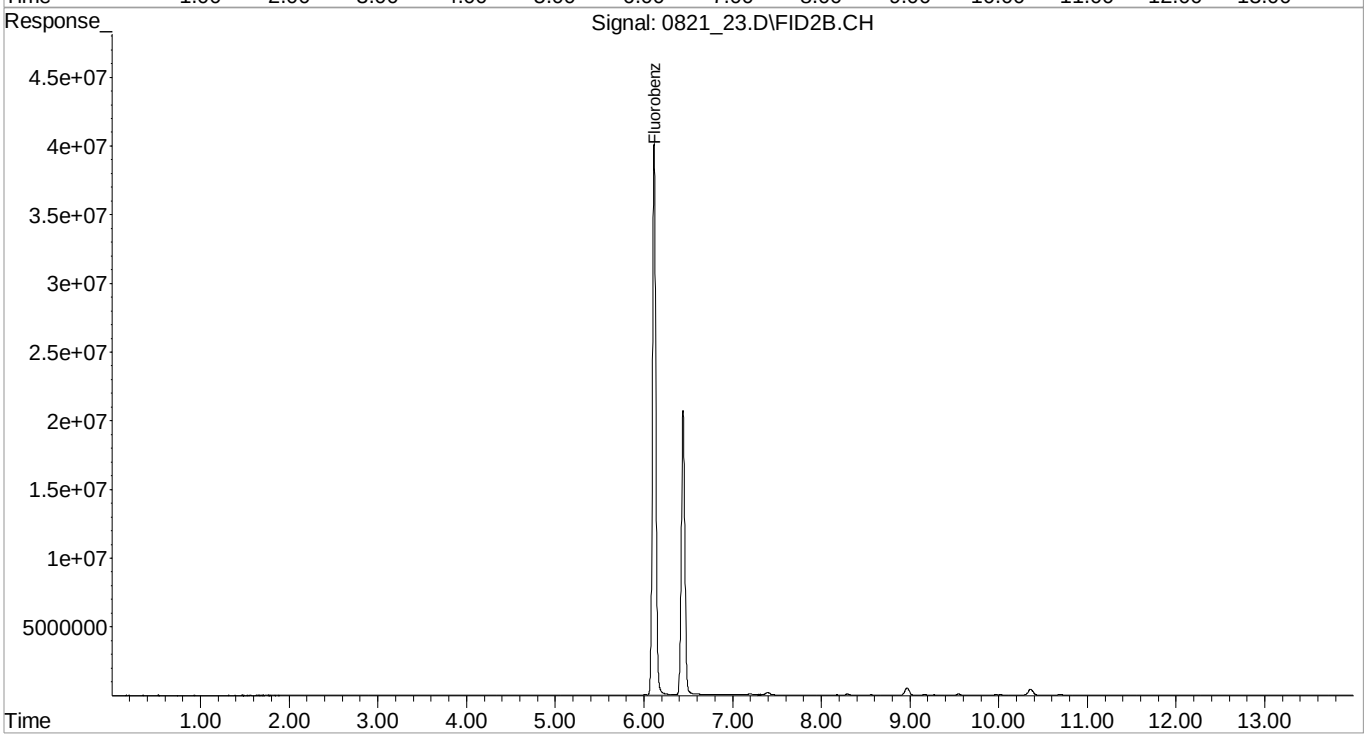
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 23.D\FID2B.CH
Acq On : 8-21-2014 07:59:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45:38 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

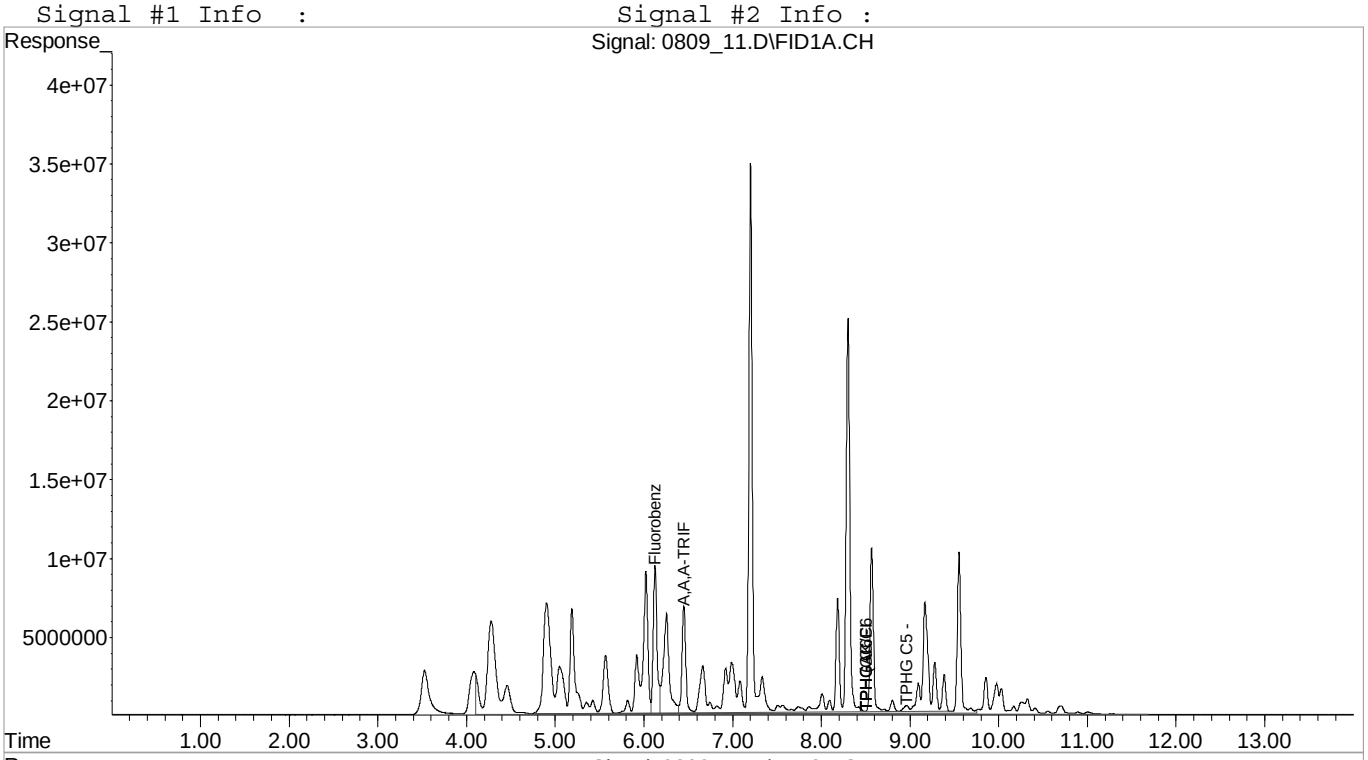
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	280421578	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1115167773	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207255010	196.8720071	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 98.44%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	599969730	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	103932	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	6594455652	5.8414297	ppm
4) H,M TPHG C6 - C12	8.50	5909096844	5.4307018	ppm
5) H,M TPHGAK C6 to C10	8.50	4984973596	5.7227528	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	5442743965	5.7200127	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	431198480	NoCal	ppb
12) T,M benzene	6.02	757833402	NoCal	ppb
13) T,M toluene	7.19	2869393011	NoCal	ppb
14) T,M ethylbenzene	8.18	832940116	NoCal	ppb
15) T,M m&p-xylene	8.29	2617035917	NoCal	ppb
16) T,M o-xylene	8.57	1216805432	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	478596269	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	1317254901	NoCal	ppb
19) T,M Naphthalene	11.48	143611	NoCal	ppb

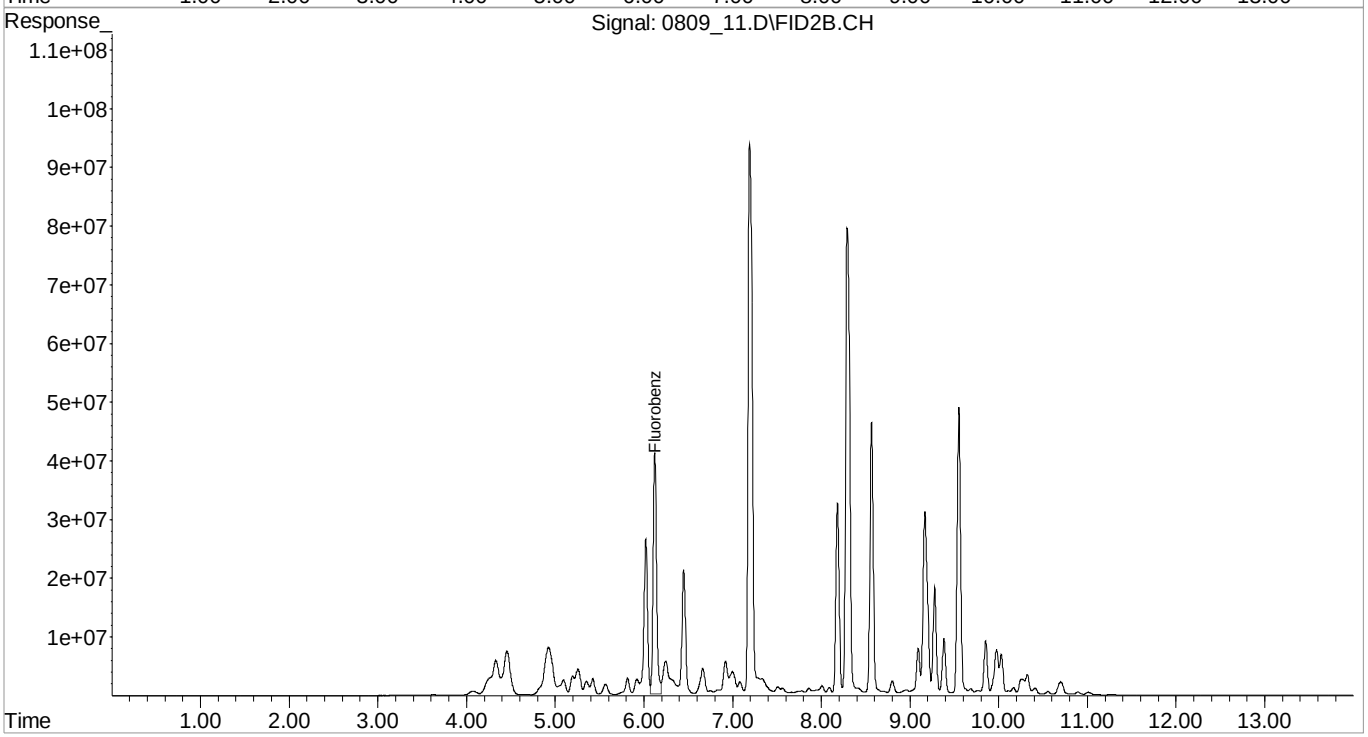
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 11.D\FID2B.CH
Acq On : 8-10-2014 01:40:48 AM Operator: 621
Sample : SSCV GRO 5.5g ppm 14G07651 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:45 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID1A.CH Vial: 48
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID2B.CH
Acq On : 8-21-2014 04:57:11 PM Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:40:03 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:39:59 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

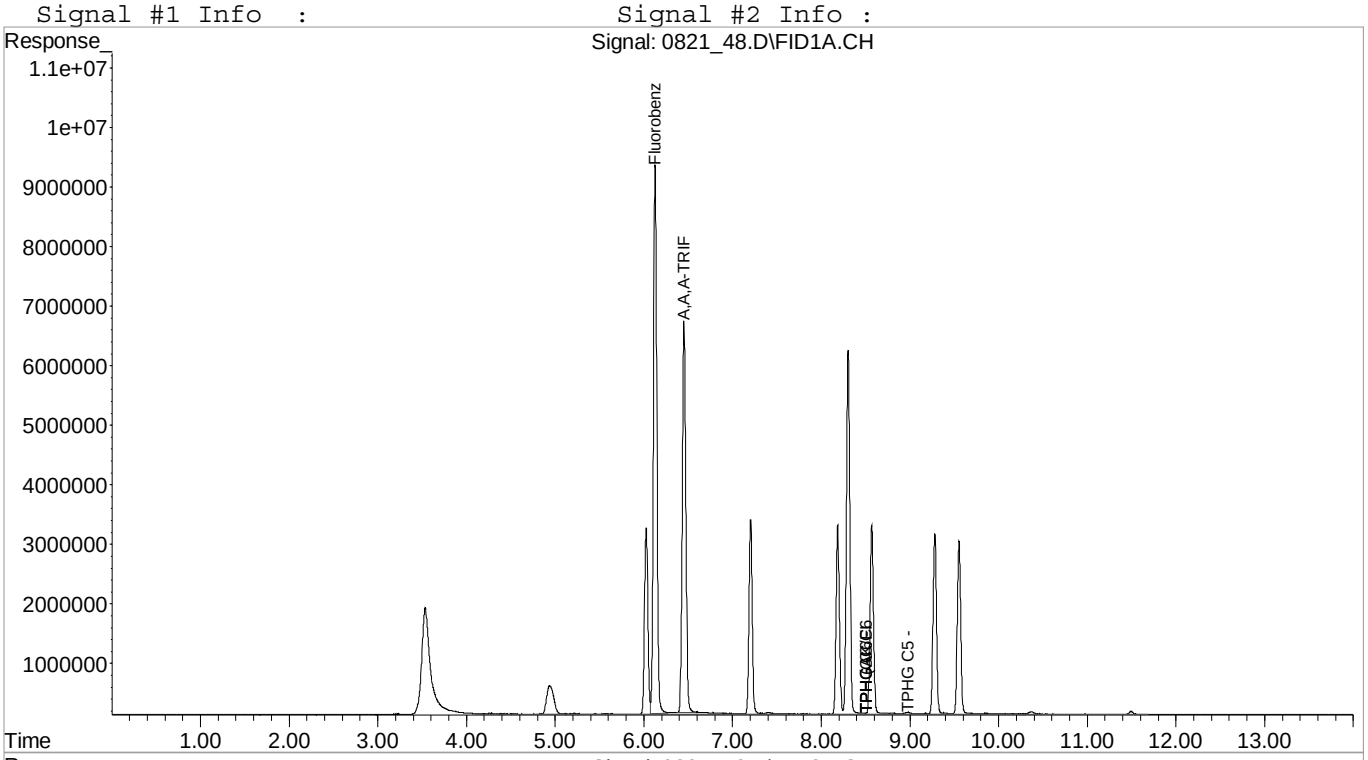
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.13	239612075	200.0000000	ppb
9) I Fluorobenzene #2	6.13	1072730540	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	180142184	200.2613248	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.13%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	568952494	203.8758272	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 101.94%	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7782	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	733157403	0.6143788	ppm
4) H,M TPHG C6 - C12	8.50	726074267	0.6409197	ppm
5) H,M TPHGAK C6 to C10	8.50	630854767	0.7330405	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	711197014	0.7783953	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	118678775	44.4127920	ppb
12) T,M benzene	6.02	445791829	48.7795203	ppb
13) T,M toluene	7.20	413849164	51.5615907	ppb
14) T,M ethylbenzene	8.18	361670225	51.6947484	ppb
15) T,M m&p-xylene	8.30	863884856	106.5315787	ppb
16) T,M o-xylene	8.57	366531857	51.8933267	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	490500469	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	369854814	NoCal	ppb
19) T,M Naphthalene	11.49	8818560	NoCal	ppb

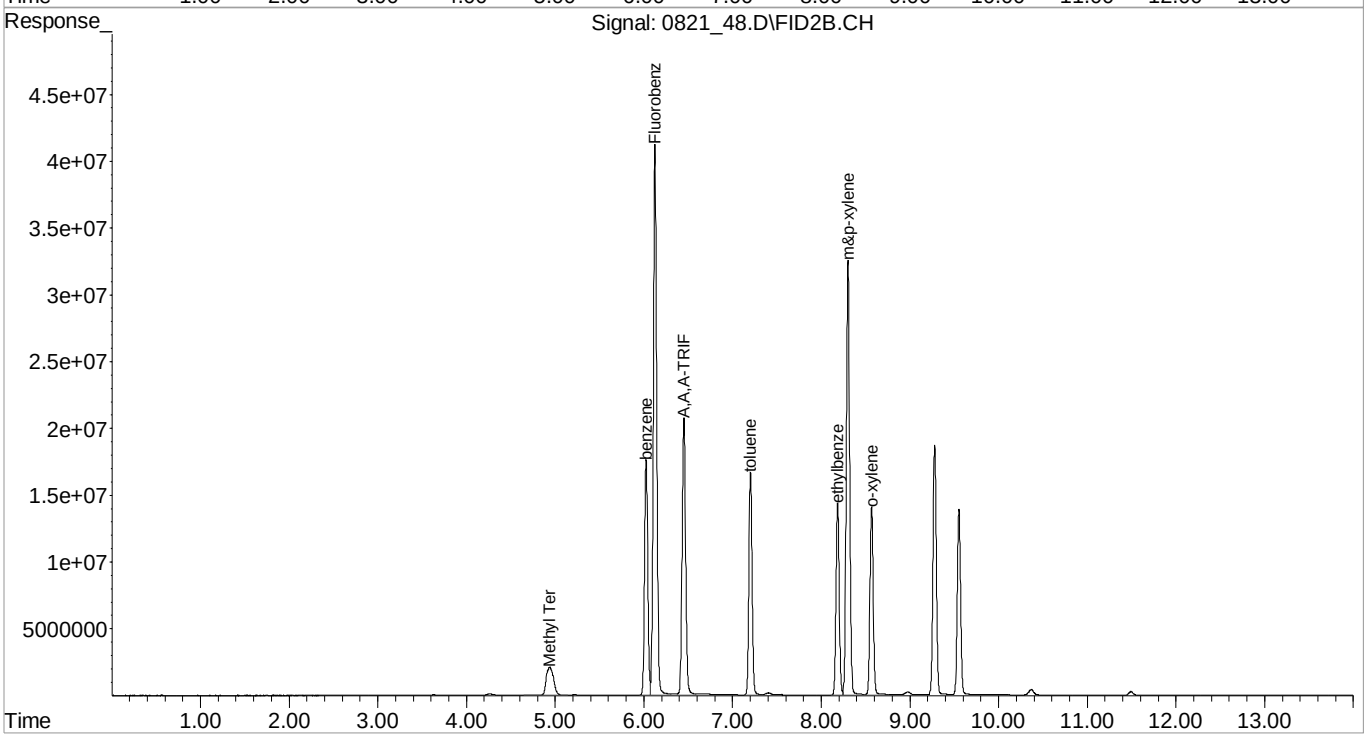
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID1A.CH  Vial: 48
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 48.D\FID2B.CH
Acq On    : 8-21-2014 04:57:11 PM                    Operator: 621
Sample    : SSCV BTEX 50 ppb 14G09864                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:40 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:39:59 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:12 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

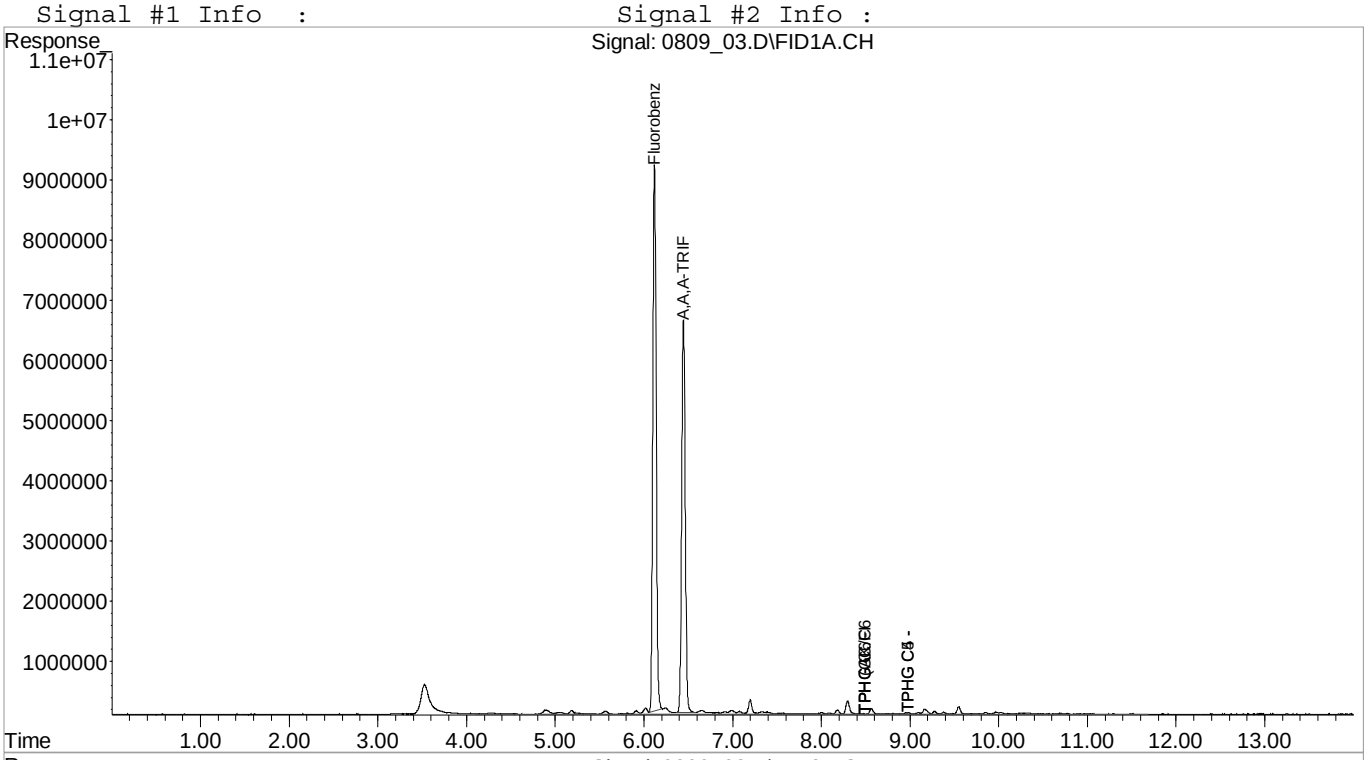
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234322129	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	178932820	217.0441350	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.52%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	10255	0.1857925	ppm
3) H,M TPHG C5 - C12	8.96	113171901	0.1231745	ppm
4) H,M TPHG C6 - C12	8.50	108536177	0.1226809	ppm
5) H,M TPHGAK C6 to C10	8.50	86352501	0.1228076	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	91153067	0.1192024	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

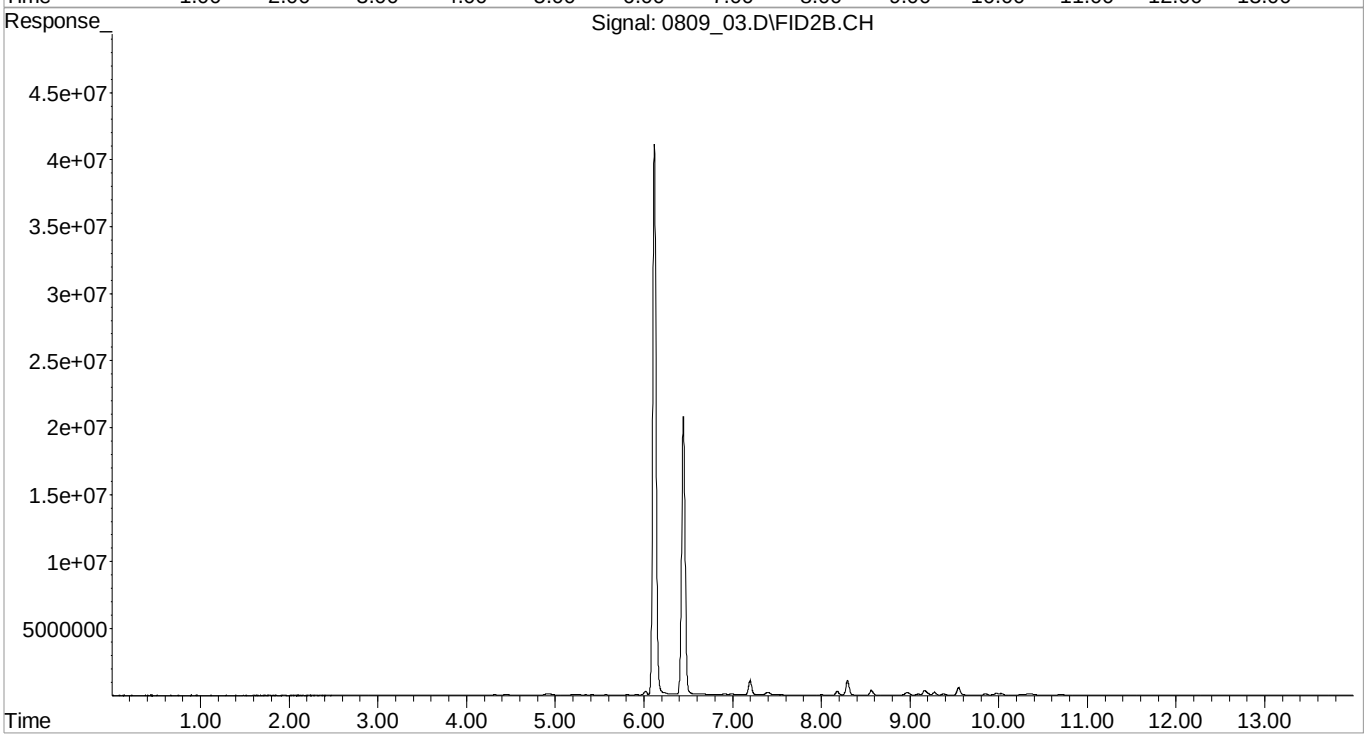
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 03.D\FID2B.CH
Acq On : 09 Aug 2014 10:53 pm Operator: 621
Sample : STD GRO .055 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH  Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On    : 09 Aug 2014  11:14 pm                    Operator: 621
Sample    : STD GRO .11 ppm 14G07650                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:14 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

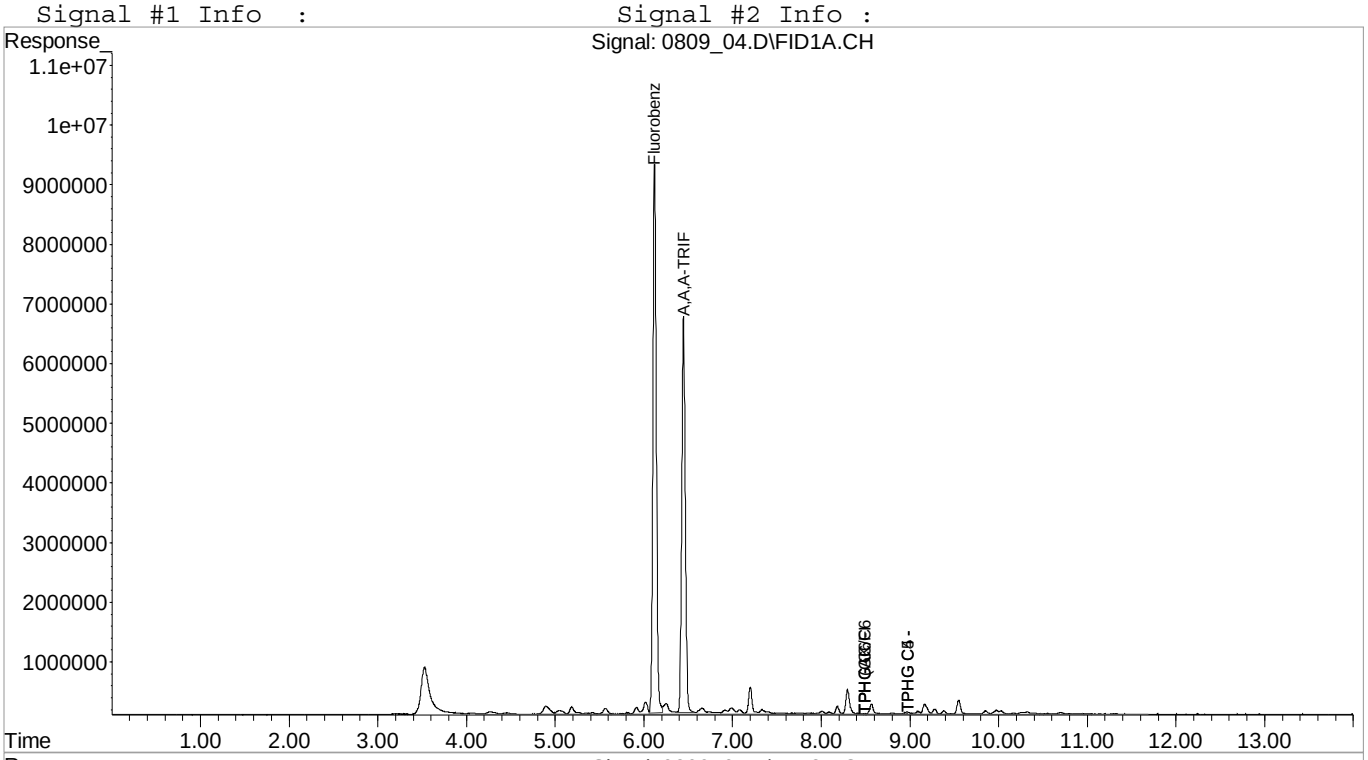
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	240284165	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	181552000	214.7569557	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.38%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	6827	0.1206260	ppm
3) H,M TPHG C5 - C12	8.96	181780058	0.1929374	ppm
4) H,M TPHG C6 - C12	8.50	172020893	0.1896146	ppm
5) H,M TPHGAK C6 to C10	8.50	131071375	0.1817801	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	141993391	0.1810798	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

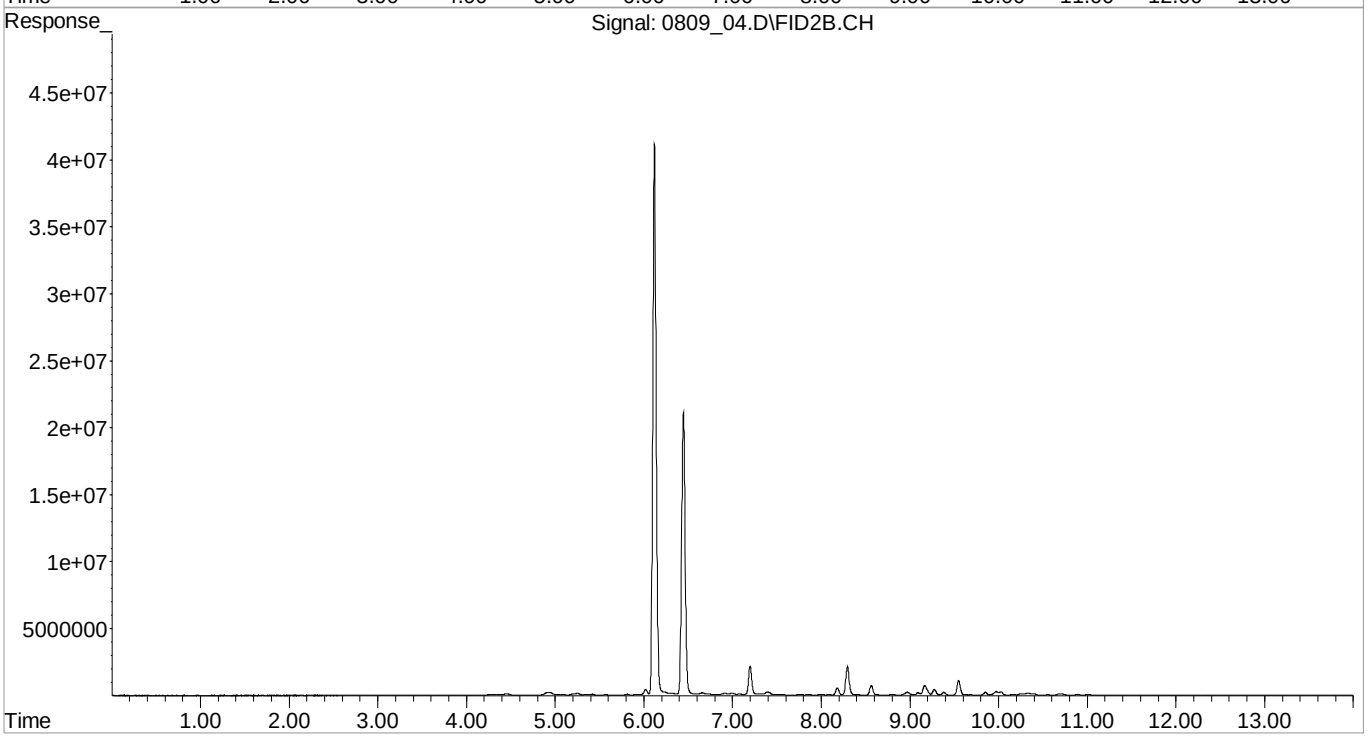
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 04.D\FID2B.CH
Acq On : 09 Aug 2014 11:14 pm Operator: 621
Sample : STD GRO .11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On : 09 Aug 2014 11:35 pm Operator: 621
Sample : STD GRO .55 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:17 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

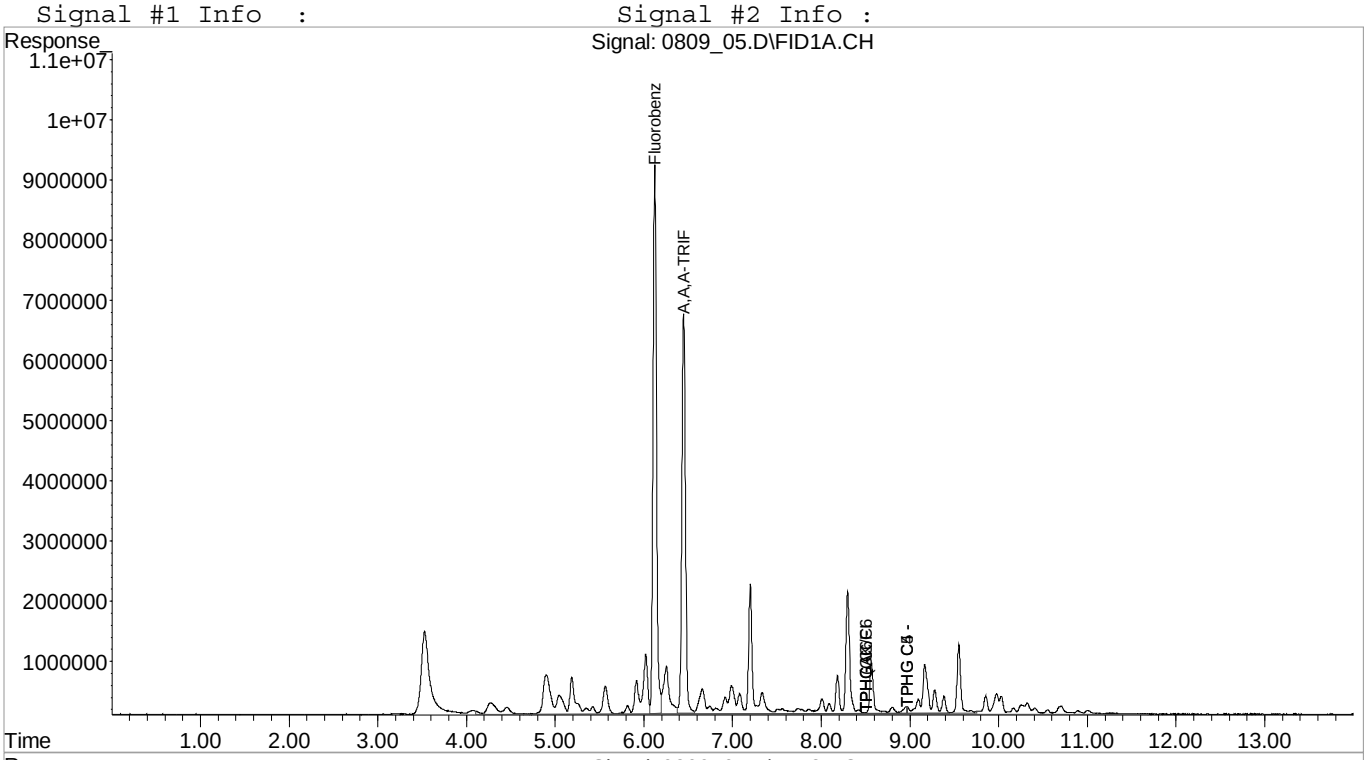
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	243679685	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	185581024	216.4639587	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.23%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	51880	0.9038655	ppm	
3) H,M TPHG C5 - C12	8.96	717313773	0.7507325	ppm	
4) H,M TPHG C6 - C12	8.50	689086400	0.7489798	ppm	
5) H,M TPHGAK C6 to C10	8.50	540260369	0.7388351	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	576935853	0.7254964	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

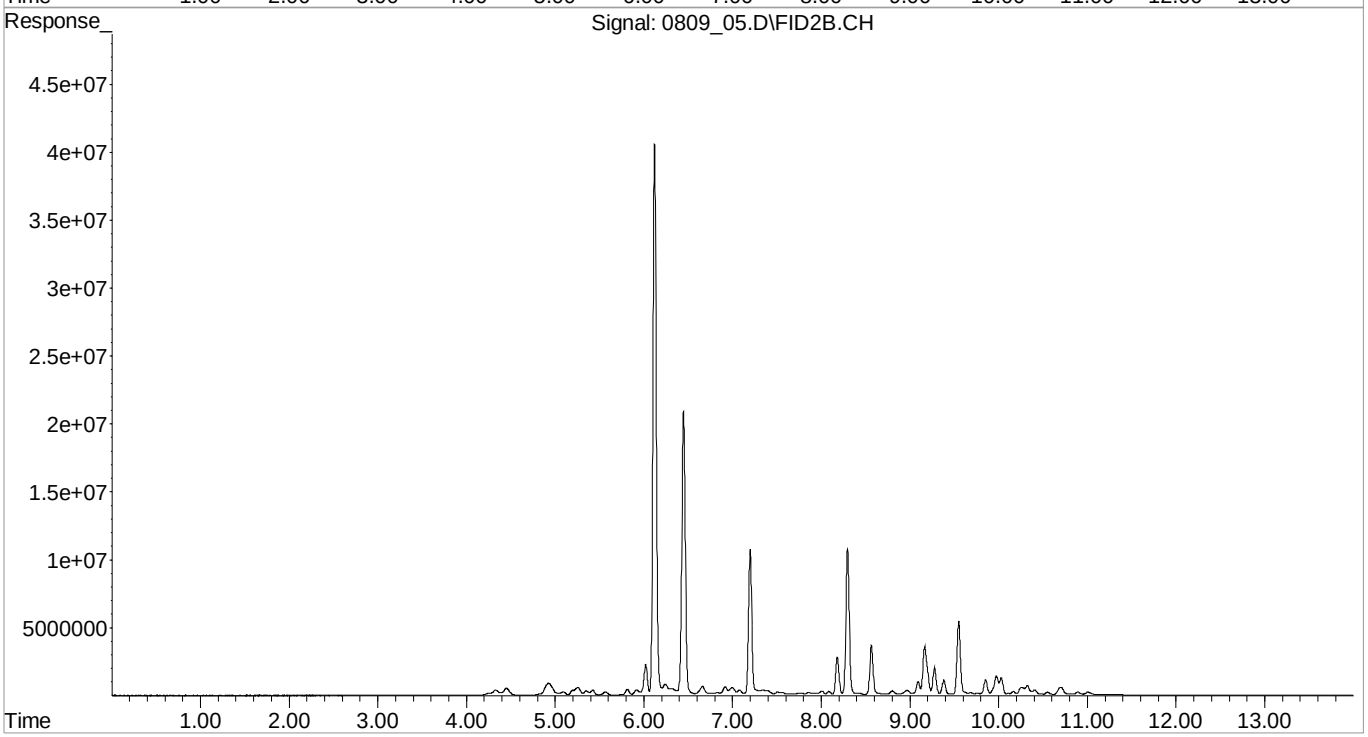
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID1A.CH  Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 05.D\FID2B.CH
Acq On    : 09 Aug 2014  11:35 pm                    Operator: 621
Sample    : STD GRO .55 ppm 14G07650                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:19 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

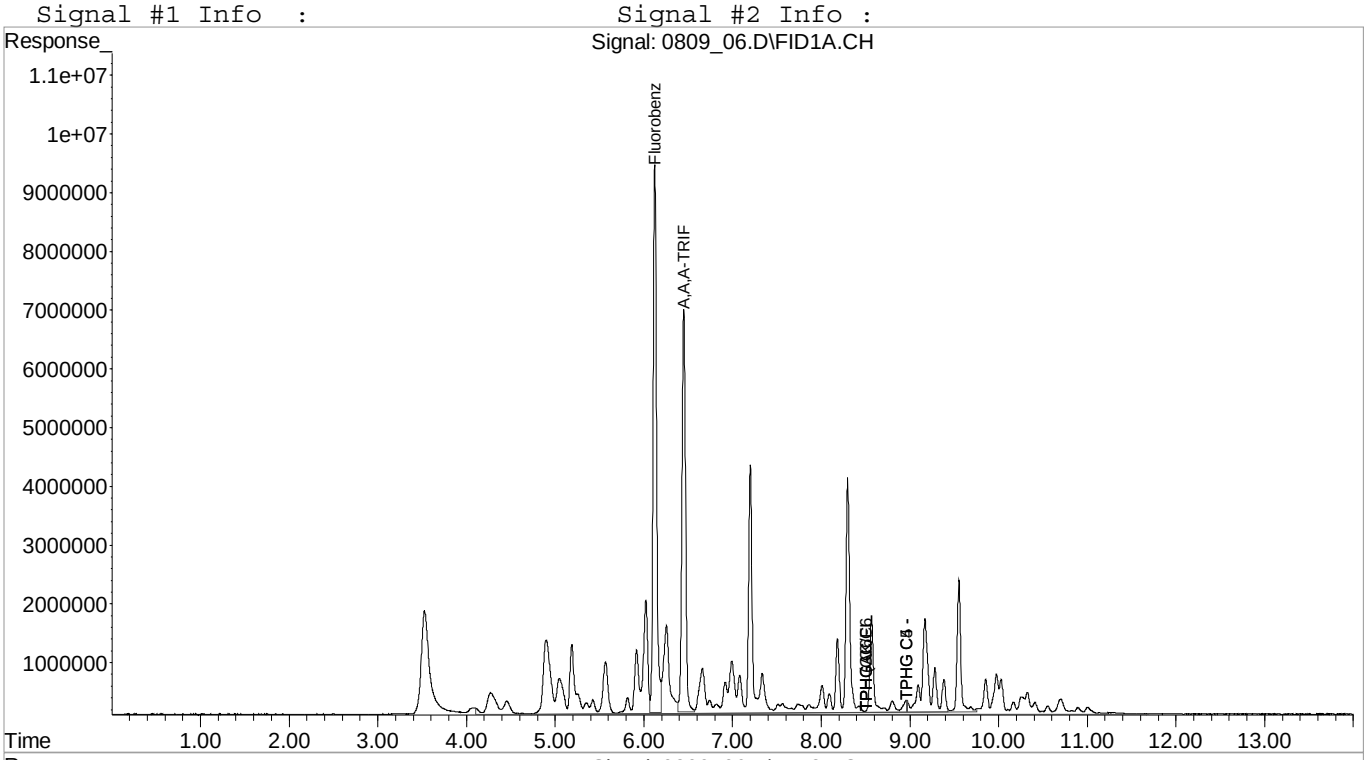
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	254408496	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	193255467	215.9093901	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 107.95%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	1913	0.0319237	ppm
3) H,M TPHG C5 - C12	8.96	1371375356	1.3747385	ppm
4) H,M TPHG C6 - C12	8.50	1309339442	1.3631273	ppm
5) H,M TPHGAK C6 to C10	8.50	1032490316	1.3524403	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	1105235256	1.3312210	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

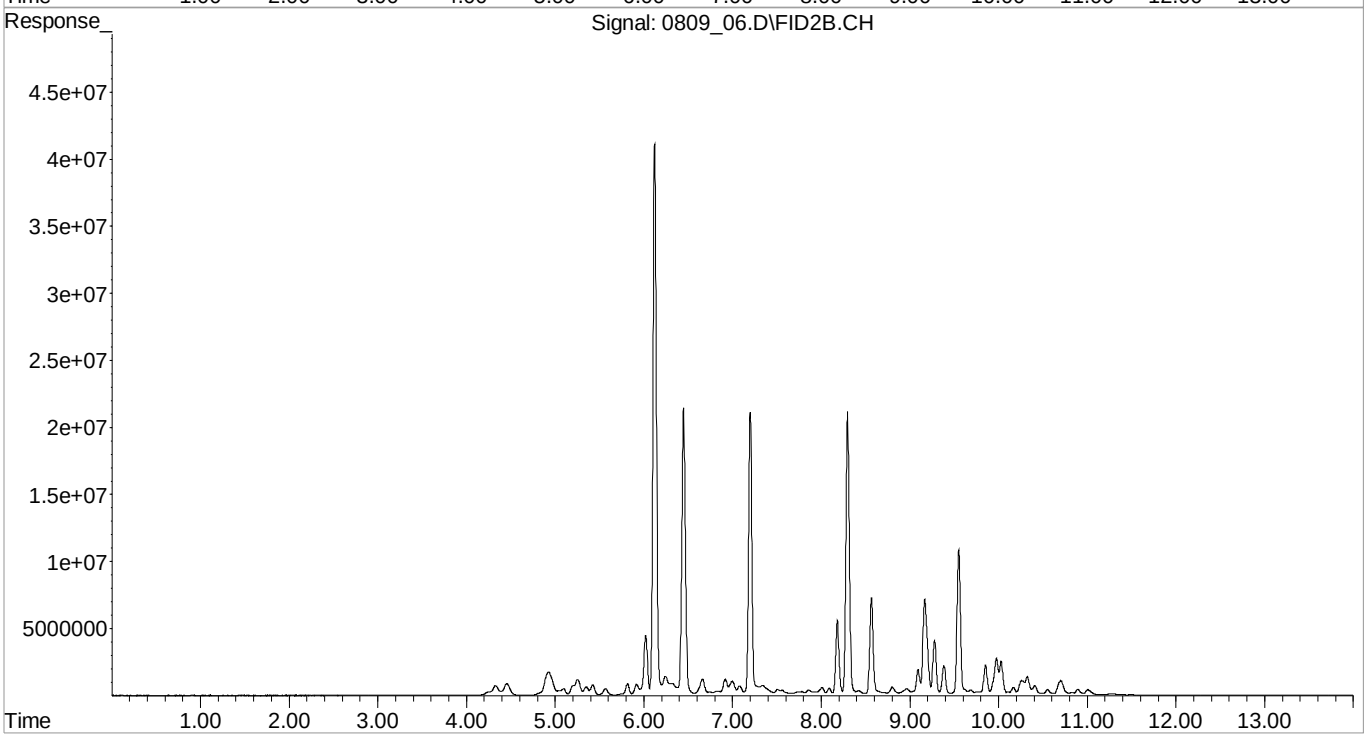
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 06.D\FID2B.CH
Acq On : 09 Aug 2014 11:55 pm Operator: 621
Sample : STD GRO 1.1 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:22 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

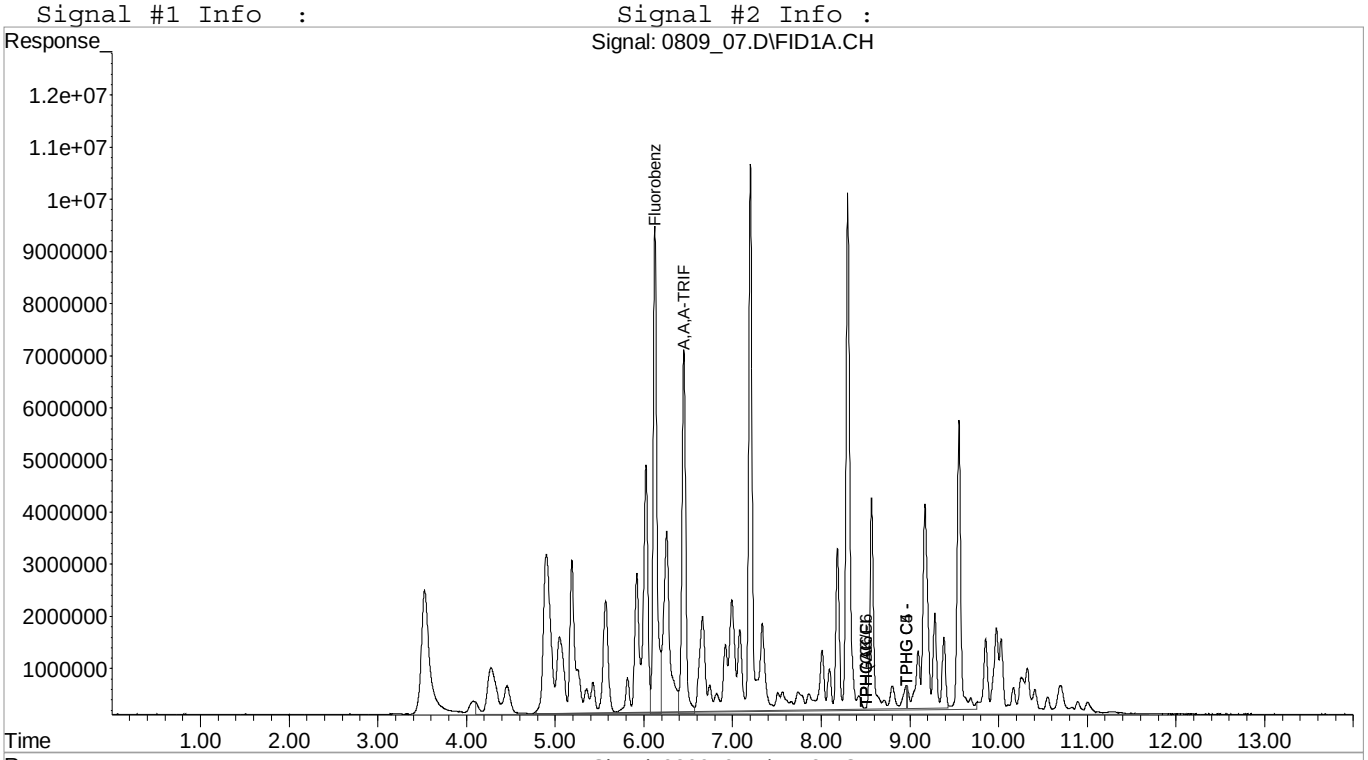
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	271919527	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	207673249	217.0758524	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 108.54%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	30458	0.4755398	ppm
3) H,M TPHG C5 - C12	8.96	3286899164	3.0827717	ppm
4) H,M TPHG C6 - C12	8.50	3155240040	3.0733200	ppm
5) H,M TPHGAK C6 to C10	8.50	2483616948	3.0437428	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	2685233088	3.0259980	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

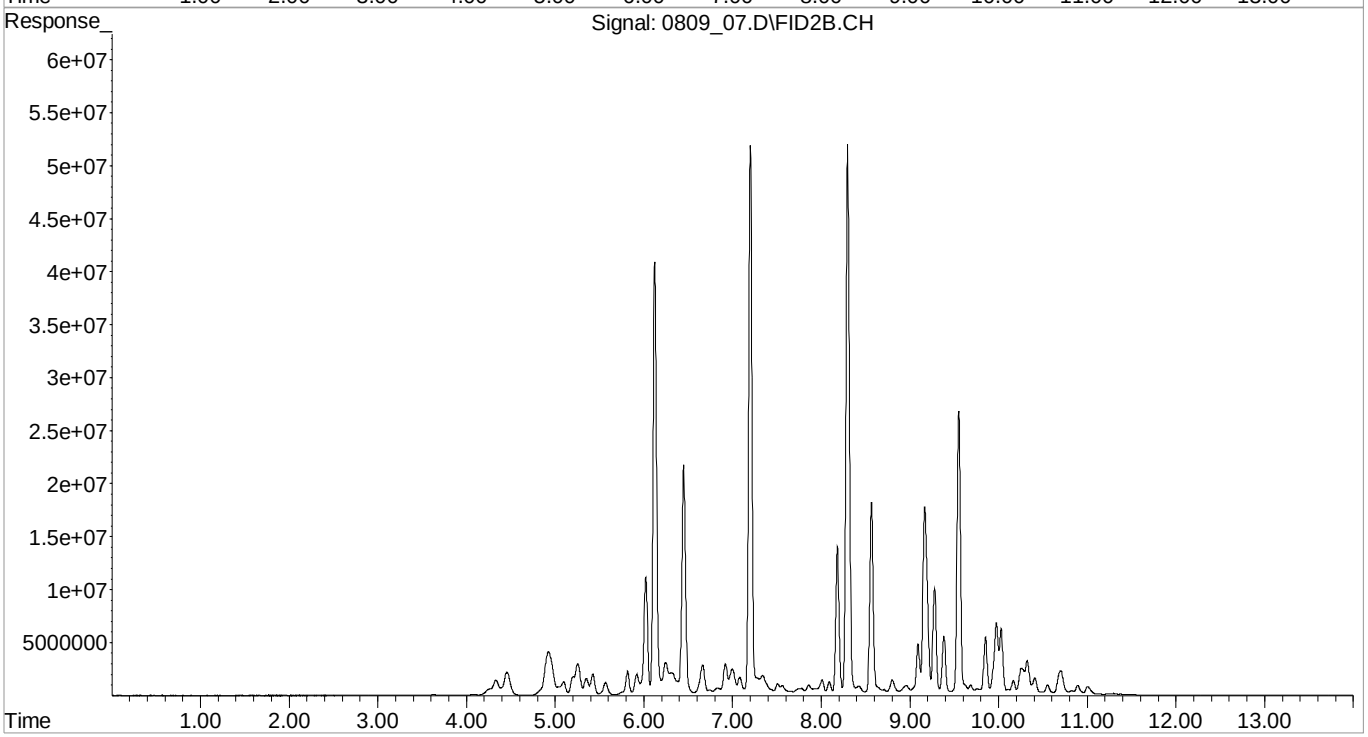
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 07.D\FID2B.CH
Acq On : 10 Aug 2014 12:16 am Operator: 621
Sample : STD GRO 2.75 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:41 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On : 10 Aug 2014 12:37 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:24 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

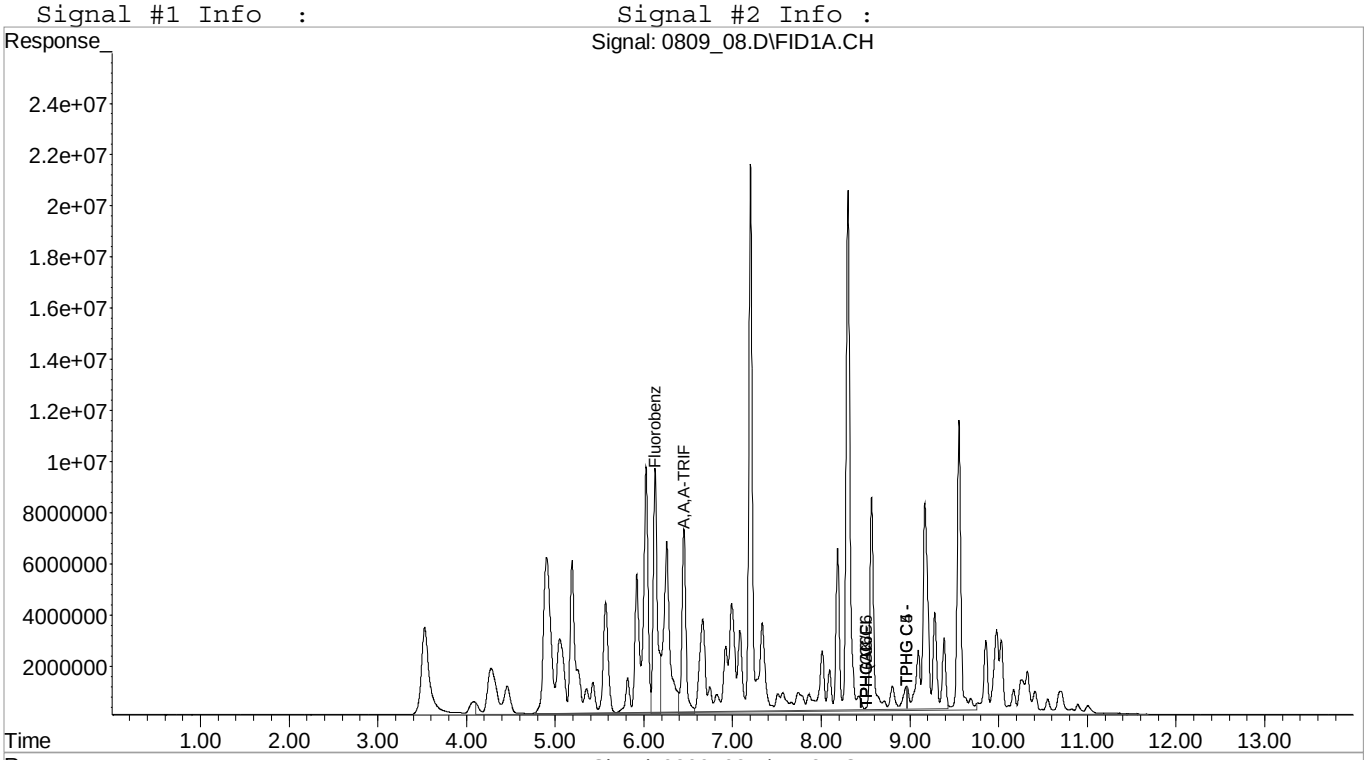
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.12	305641610	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	225818969	210.0000000	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	395963	5.5000000	ppm	
3) H,M TPHG C5 - C12	8.96	6591432236	5.5000000	ppm	
4) H,M TPHG C6 - C12	8.50	6346867019	5.5000000	ppm	
5) H,M TPHGAK C6 to C10	8.50	5044422289	5.5000000	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	5485902937	5.5000000	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

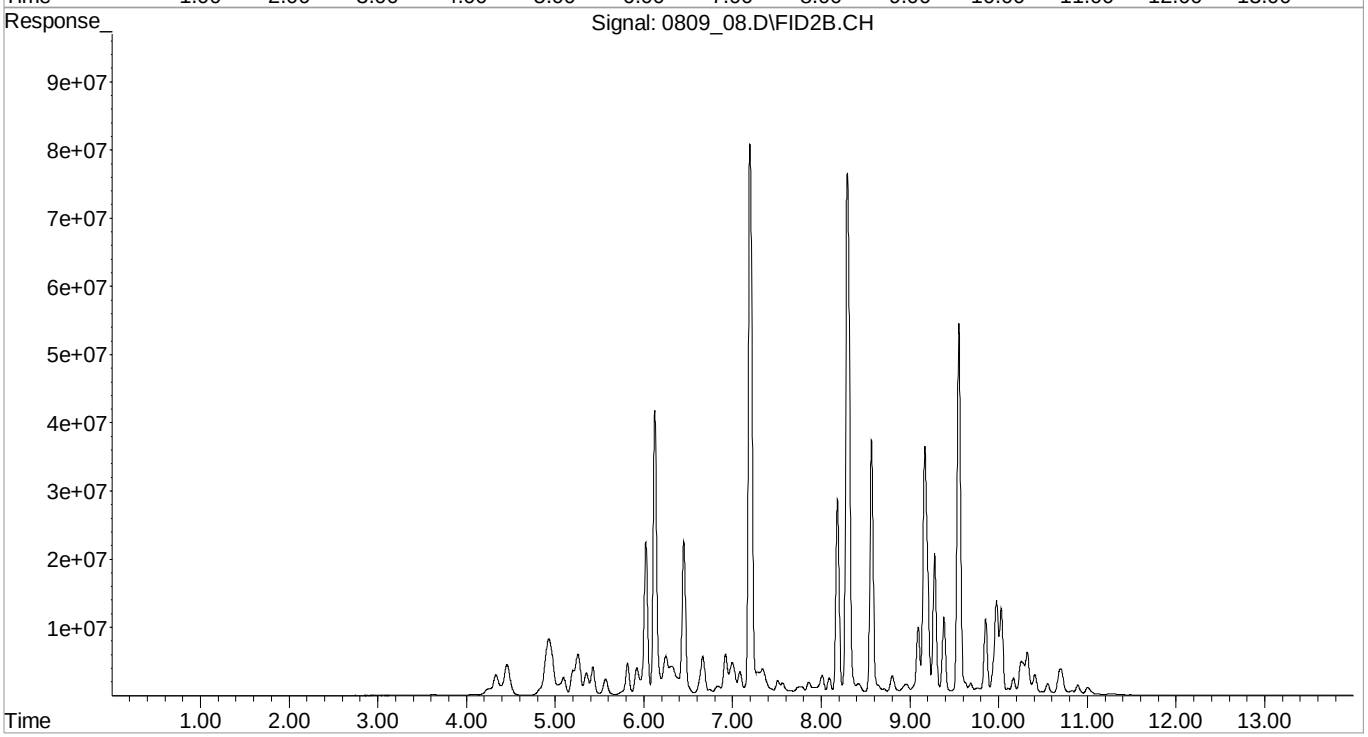
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID1A.CH  Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 08.D\FID2B.CH
Acq On    : 10 Aug 2014  12:37 am                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14G07650               Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:40:27 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

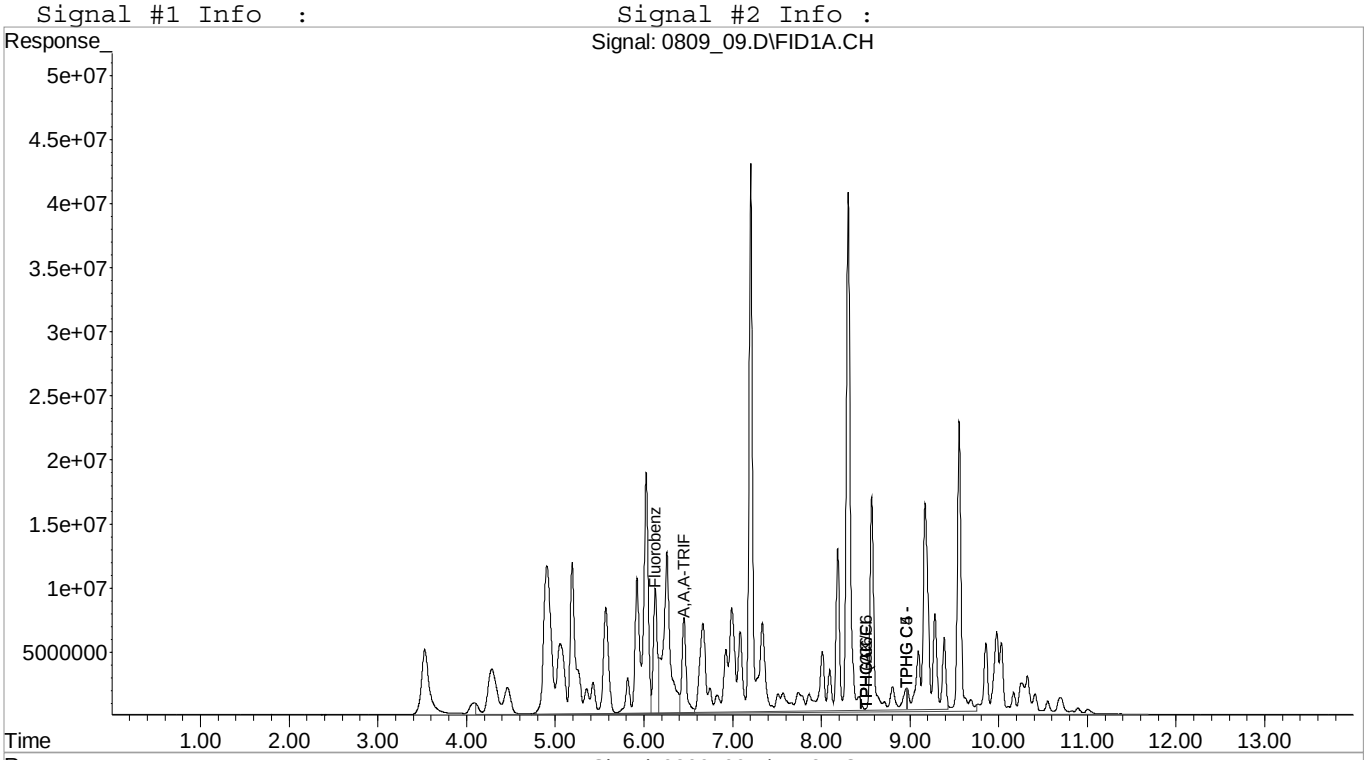
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.13	293554262	200.0000000	ppb	m
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	255754816	247.6320110	ppb	
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 123.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	8.96	494161	7.1466121	ppm	
3) H,M TPHG C5 - C12	8.96	12857568528	11.1703256	ppm	
4) H,M TPHG C6 - C12	8.50	12369250024	11.1601684	ppm	
5) H,M TPHGAK C6 to C10	8.50	9969518391	11.3174744	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.50	10925236486	11.4043229	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

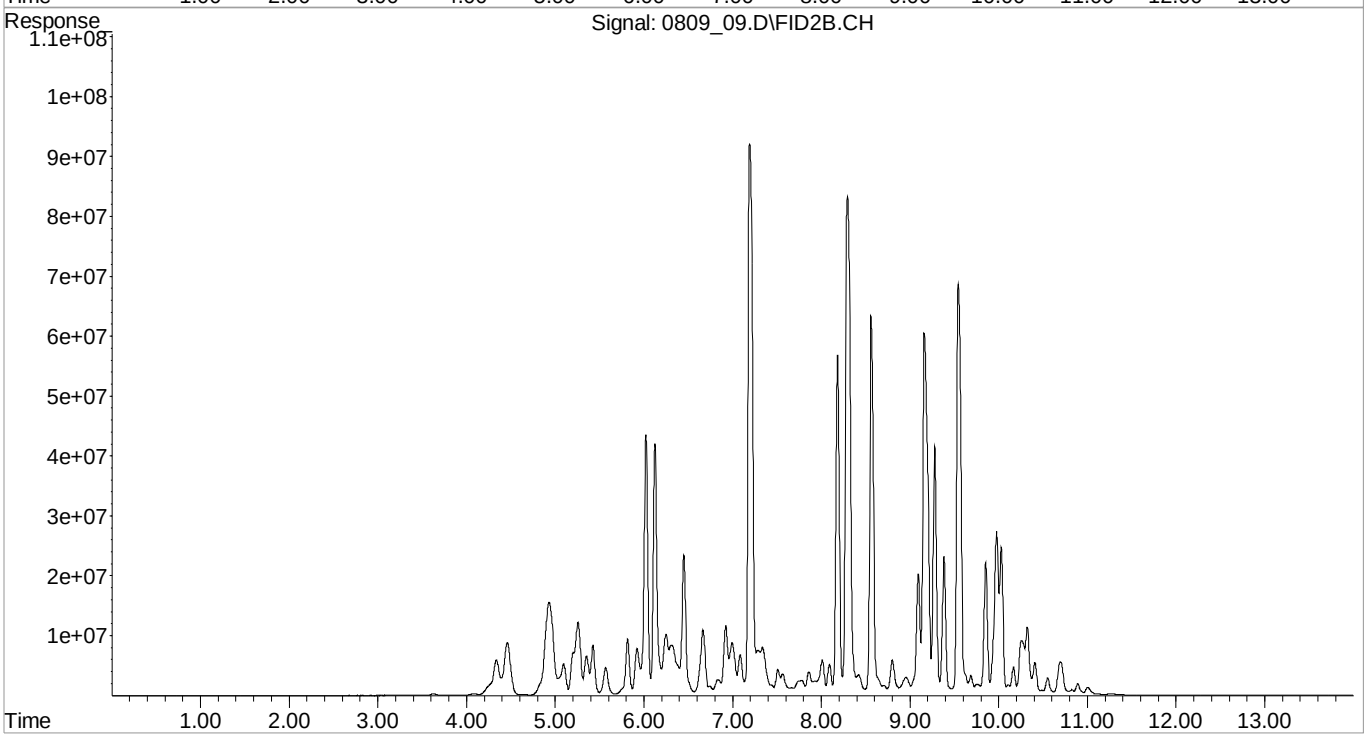
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:44 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:39:48 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

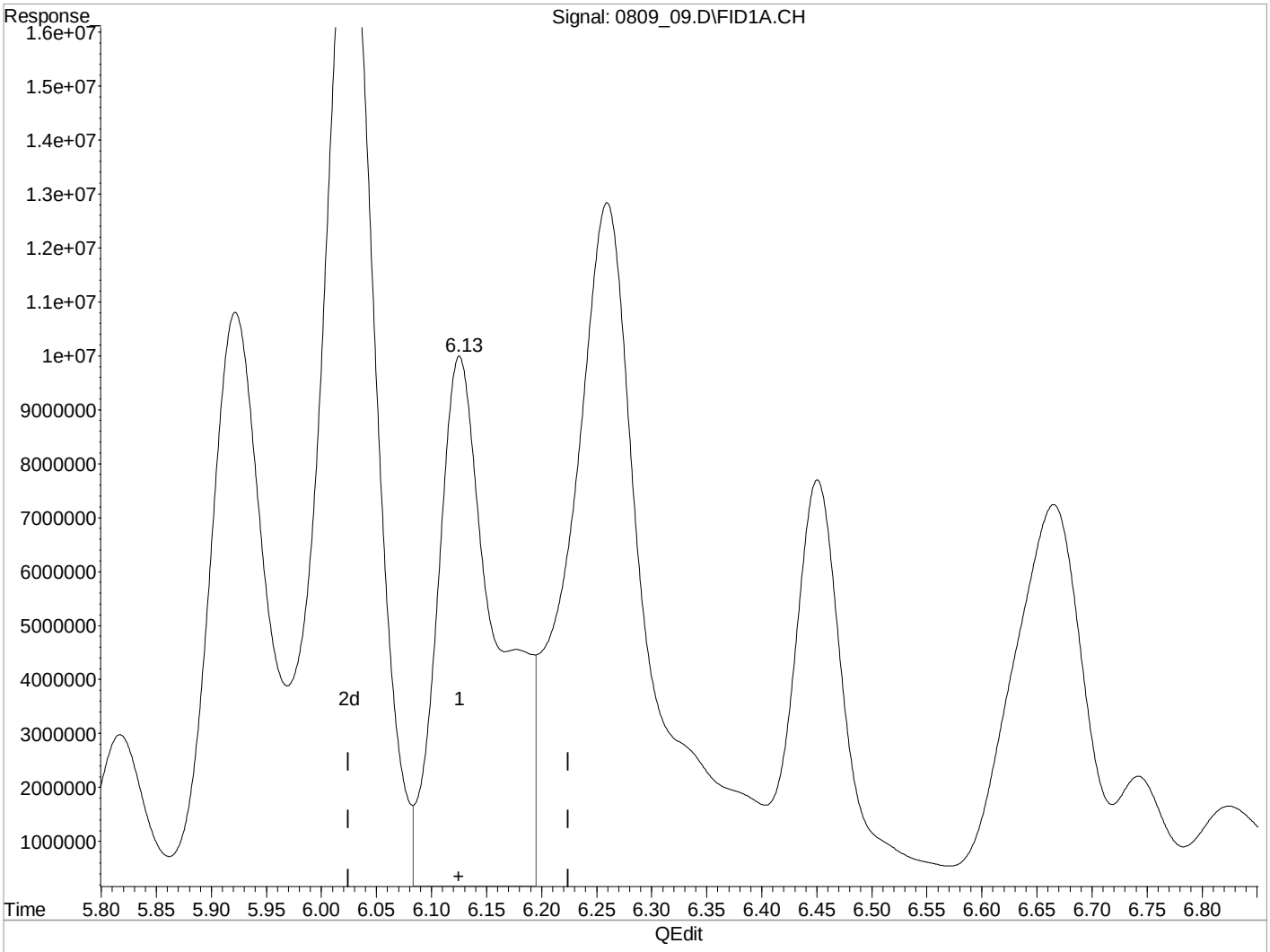




Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH  Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On    : 10 Aug 2014  12:58 am                    Operator: 621
Sample    : STD GRO 11 ppm 14G07650                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014  Quant Results File: BG12H09N.RES


Method       : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration
```



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb

response 370717583

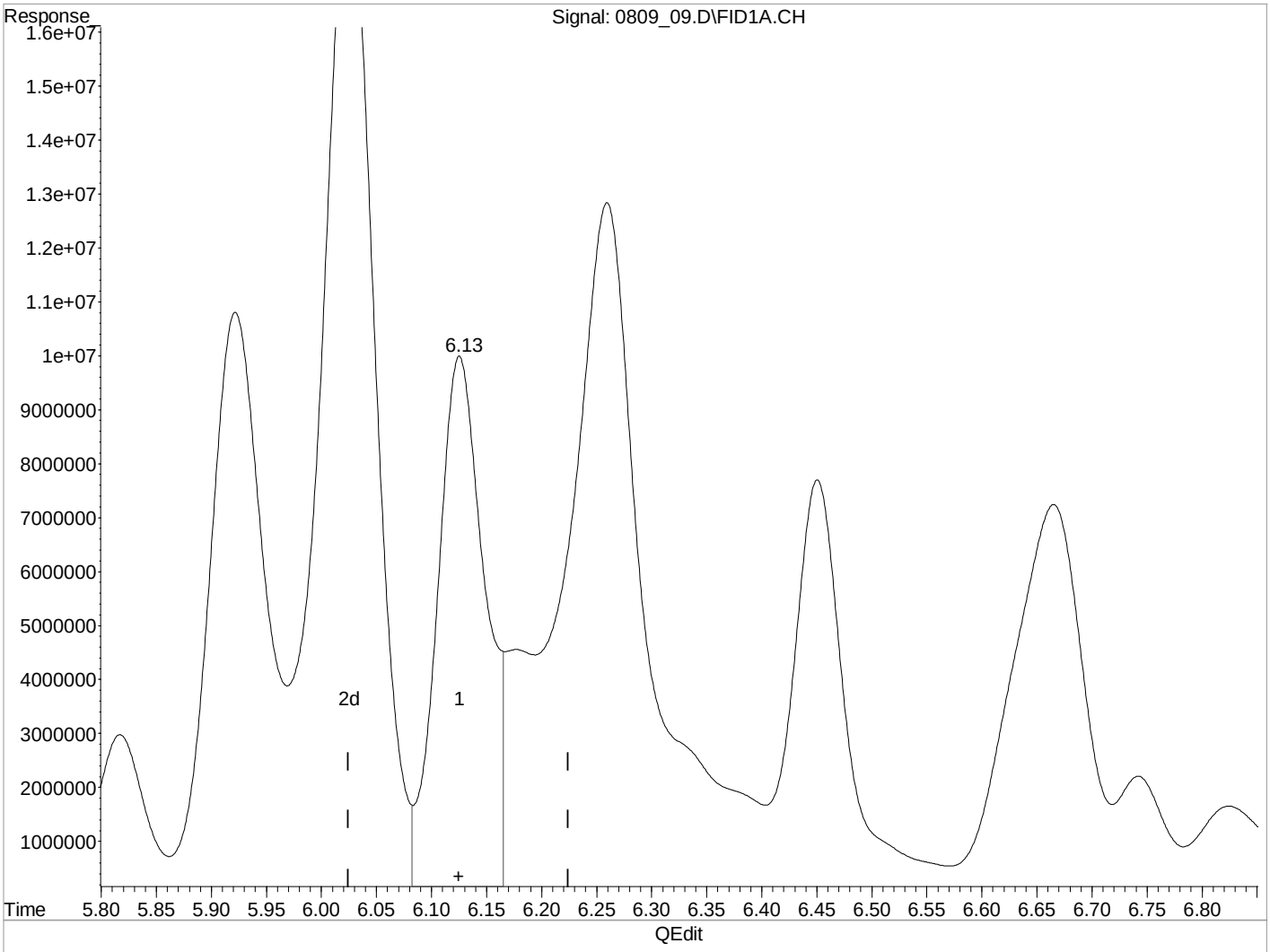
(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:06 2014

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 09.D\FID2B.CH
Acq On : 10 Aug 2014 12:58 am Operator: 621
Sample : STD GRO 11 ppm 14G07650 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:42 2014 Quant Results File: BG12H09N.RES

Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:42:37 2014
Response via : Multiple Level Calibration



(1) Fluorobenzene #1 (I)

6.13min 200.0000000 ppb m

response 293554262

(+) = Expected Retention Time

0809_09.D BG12H09N.M Mon Aug 11 12:44:14 2014

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID2B.CH
Acq On : 8-21-2014 01:05:28 PM Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:22 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

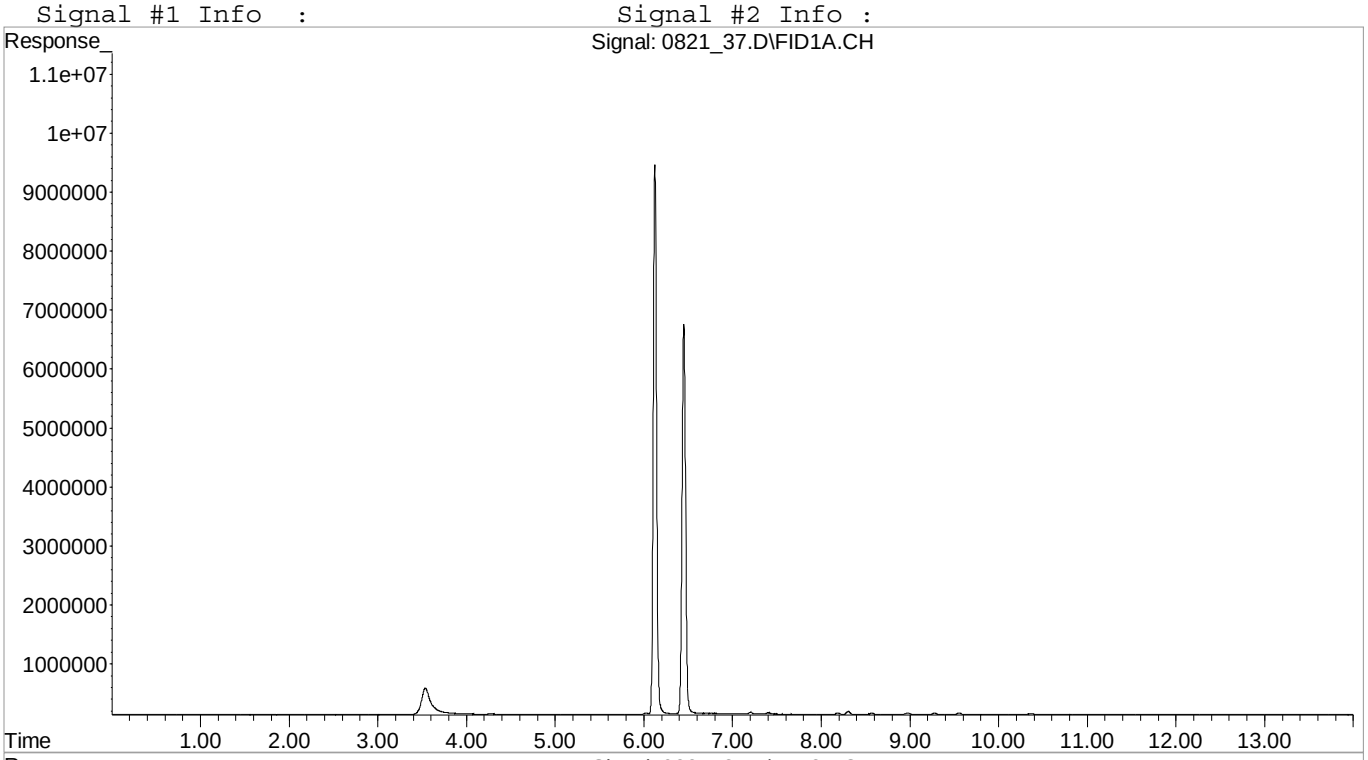
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1087810529	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	576522688	204.3273441	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 102.16%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	1302421	0.5168779	ppb
12) T,M benzene	6.02	4531096	0.5026694	ppb
13) T,M toluene	7.20	3273263	0.3874851	ppb
14) T,M ethylbenzene	8.18	2779013	0.3776585	ppb
15) T,M m&p-xylene	8.30	6672510	0.7813658	ppb
16) T,M o-xylene	8.57	2883681	0.3872340	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

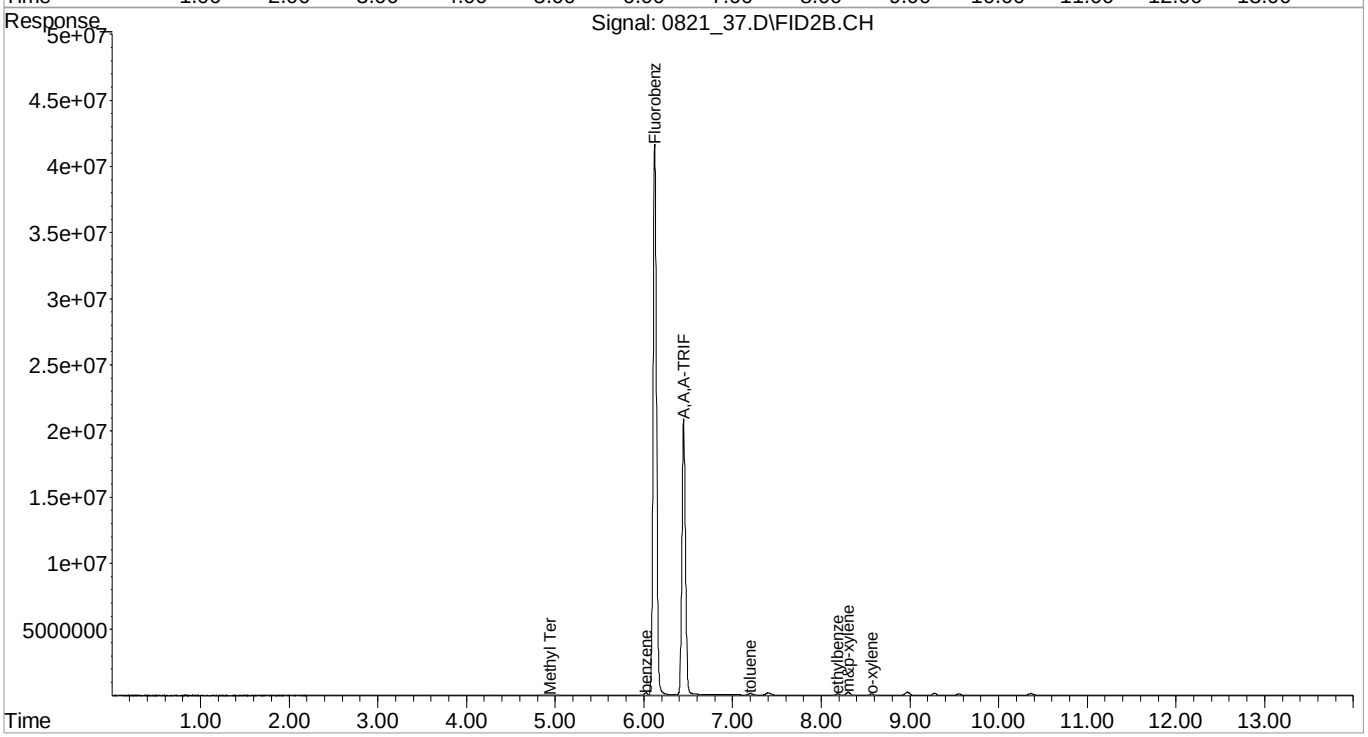
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 37.D\FID2B.CH
Acq On : 8-21-2014 01:05:28 PM Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID1A.CH  Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID2B.CH
Acq On    : 8-21-2014 01:26:31 PM                    Operator: 621
Sample    : STD BTEX 1 ppb 14G09861                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:24 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

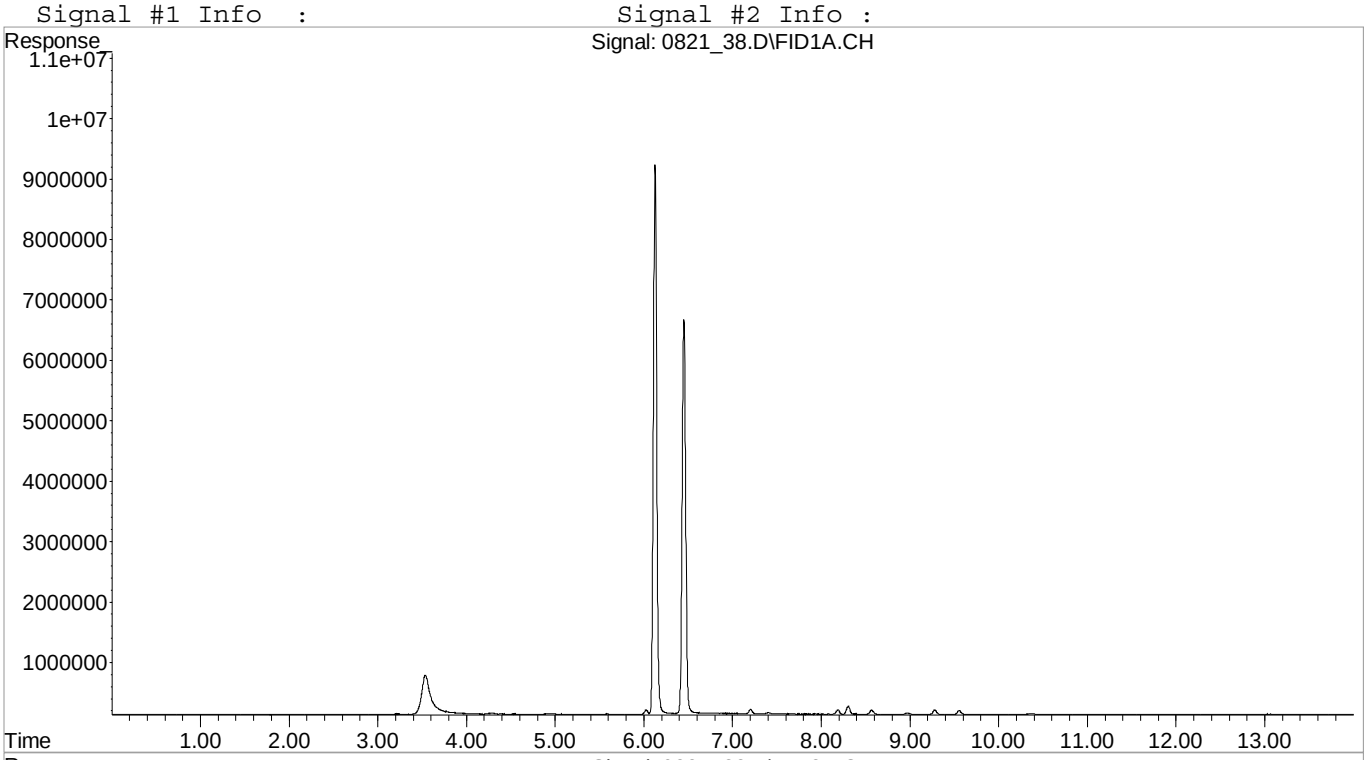
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1055365857	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	566589035	206.9800422	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.49%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	3478439	1.4228892	ppb
12) T,M benzene	6.02	12100839	1.3837093	ppb
13) T,M toluene	7.20	8865590	1.0817627	ppb
14) T,M ethylbenzene	8.18	7587070	1.0627545	ppb
15) T,M m&p-xylene	8.30	18148252	2.1905347	ppb
16) T,M o-xylene	8.57	7712874	1.0675610	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

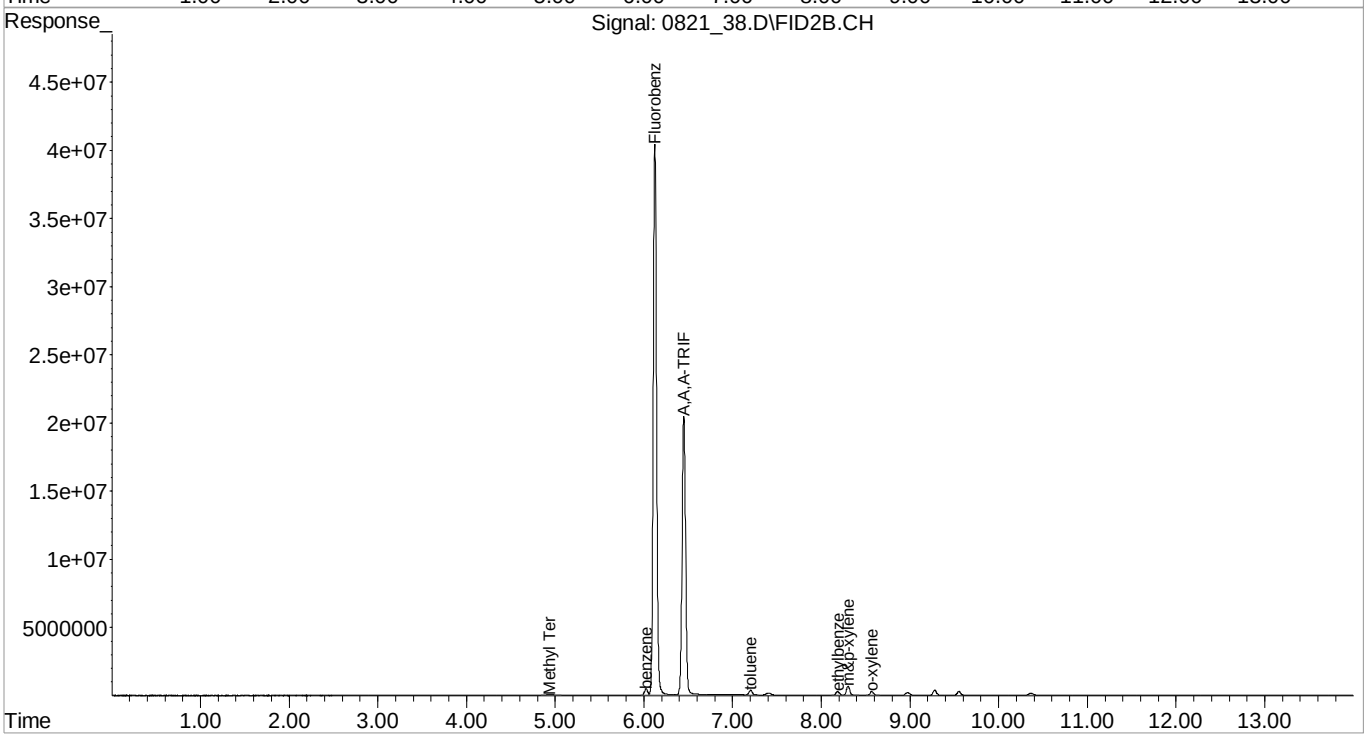
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 38.D\FID2B.CH
Acq On : 8-21-2014 01:26:31 PM Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:33 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID1A.CH  Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID2B.CH
Acq On    : 8-21-2014 01:47:34 PM                    Operator: 621
Sample    : STD BTEX 5 ppb 14G09861                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:27 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

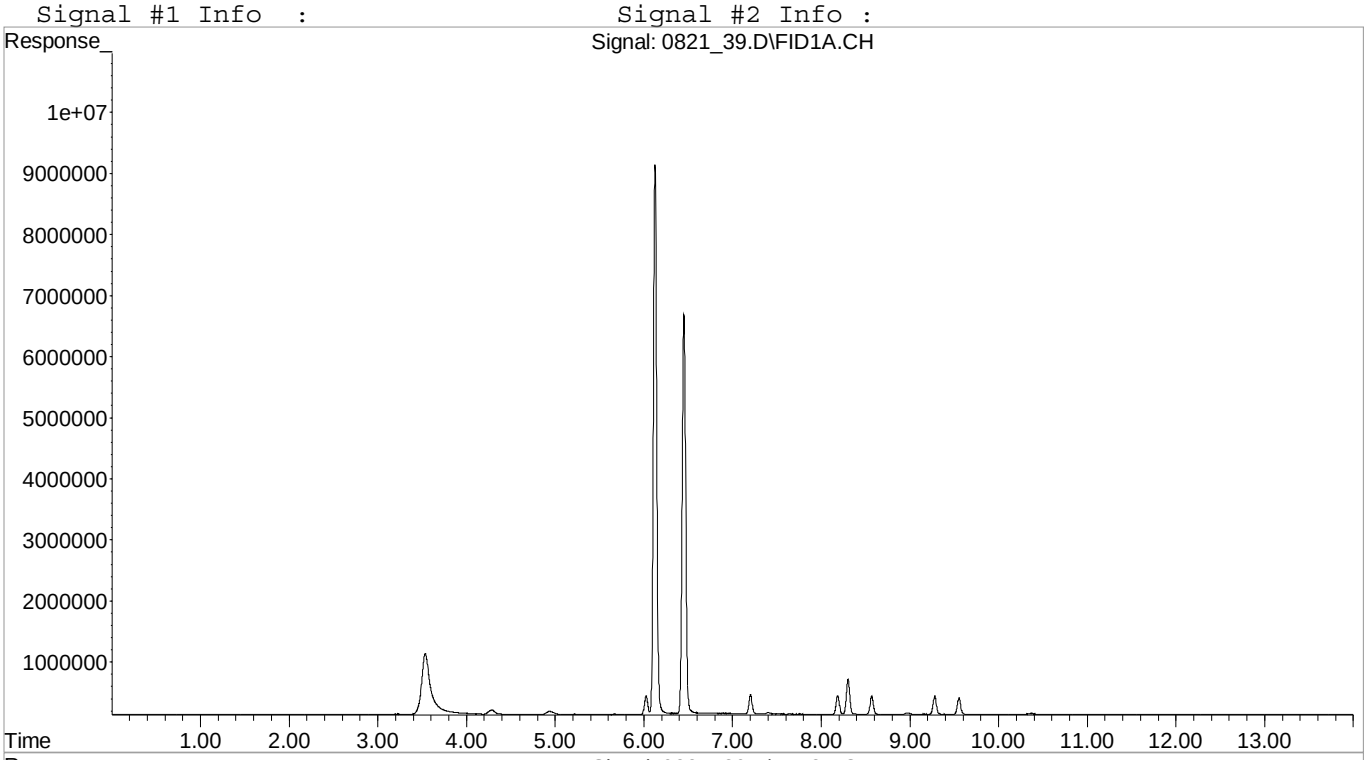
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1039654763	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	564091815	209.1818484	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.59%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	14525781	6.0317048	ppb
12) T,M benzene	6.02	43648156	5.0665130	ppb
13) T,M toluene	7.20	38066236	4.7149619	ppb
14) T,M ethylbenzene	8.18	32882452	4.6755959	ppb
15) T,M m&p-xylene	8.30	78144839	9.5747962	ppb
16) T,M o-xylene	8.57	33180029	4.6619448	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

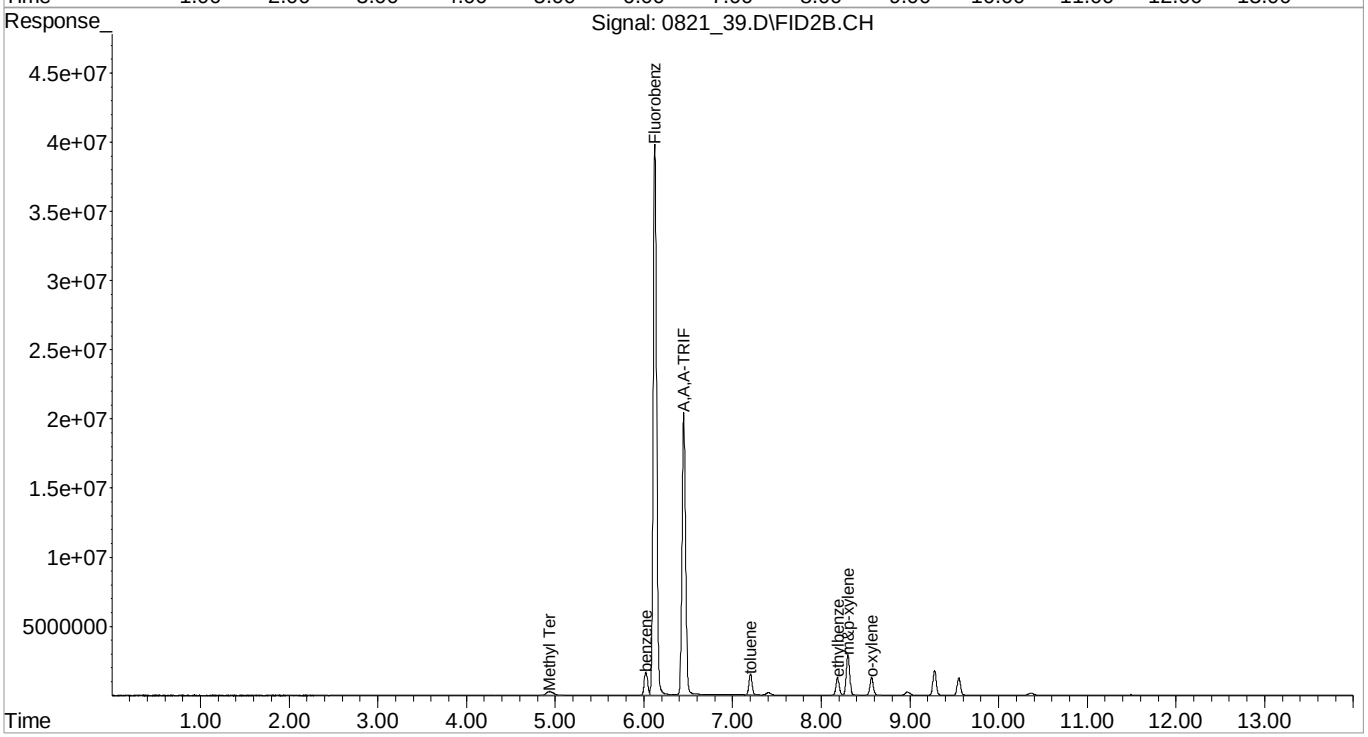
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID1A.CH Vial: 39
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 39.D\FID2B.CH
Acq On : 8-21-2014 01:47:34 PM Operator: 621
Sample : STD BTEX 5 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID1A.CH  Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID2B.CH
Acq On    : 8-21-2014 02:08:36 PM                    Operator: 621
Sample    : STD BTEX 10 ppb 14G09861                 Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:29 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

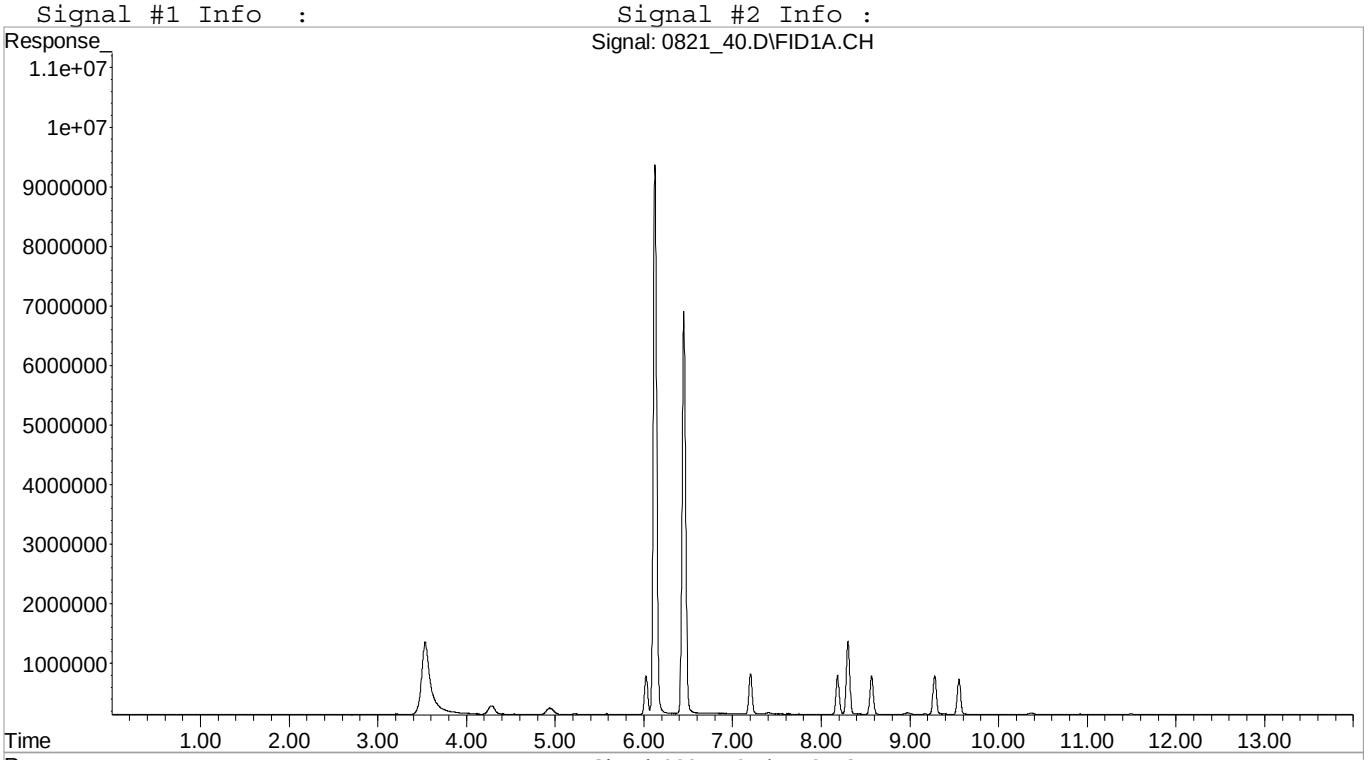
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1074890673	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	589388433	211.3978954	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.70%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	31409906	12.6151401	ppb
12) T,M benzene	6.02	89071143	10.0001185	ppb
13) T,M toluene	7.20	83491018	10.0023689	ppb
14) T,M ethylbenzene	8.18	72536863	9.9759990	ppb
15) T,M m&p-xylene	8.30	171692246	20.3472058	ppb
16) T,M o-xylene	8.57	73215679	9.9499137	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

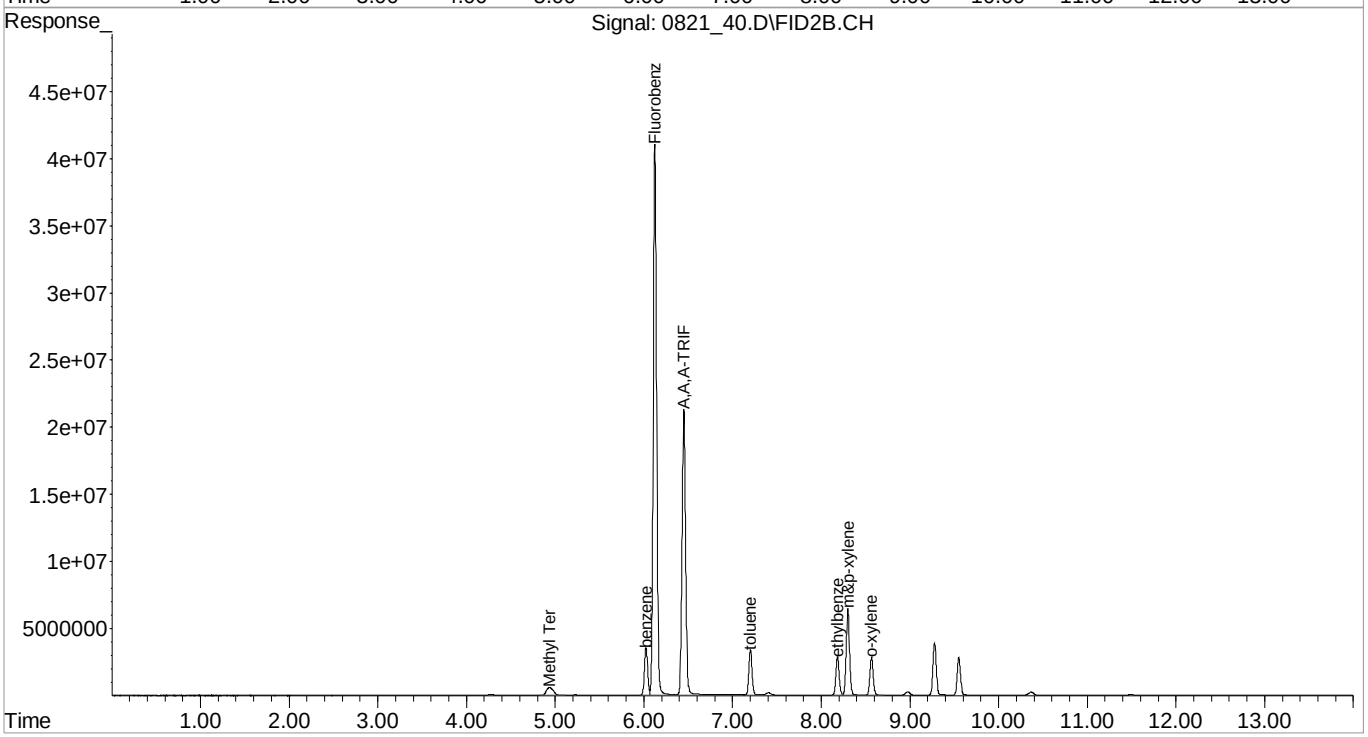
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID1A.CH Vial: 40
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 40.D\FID2B.CH
Acq On : 8-21-2014 02:08:36 PM Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:34 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID1A.CH Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID2B.CH
Acq On : 8-21-2014 02:29:37 PM Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:32 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

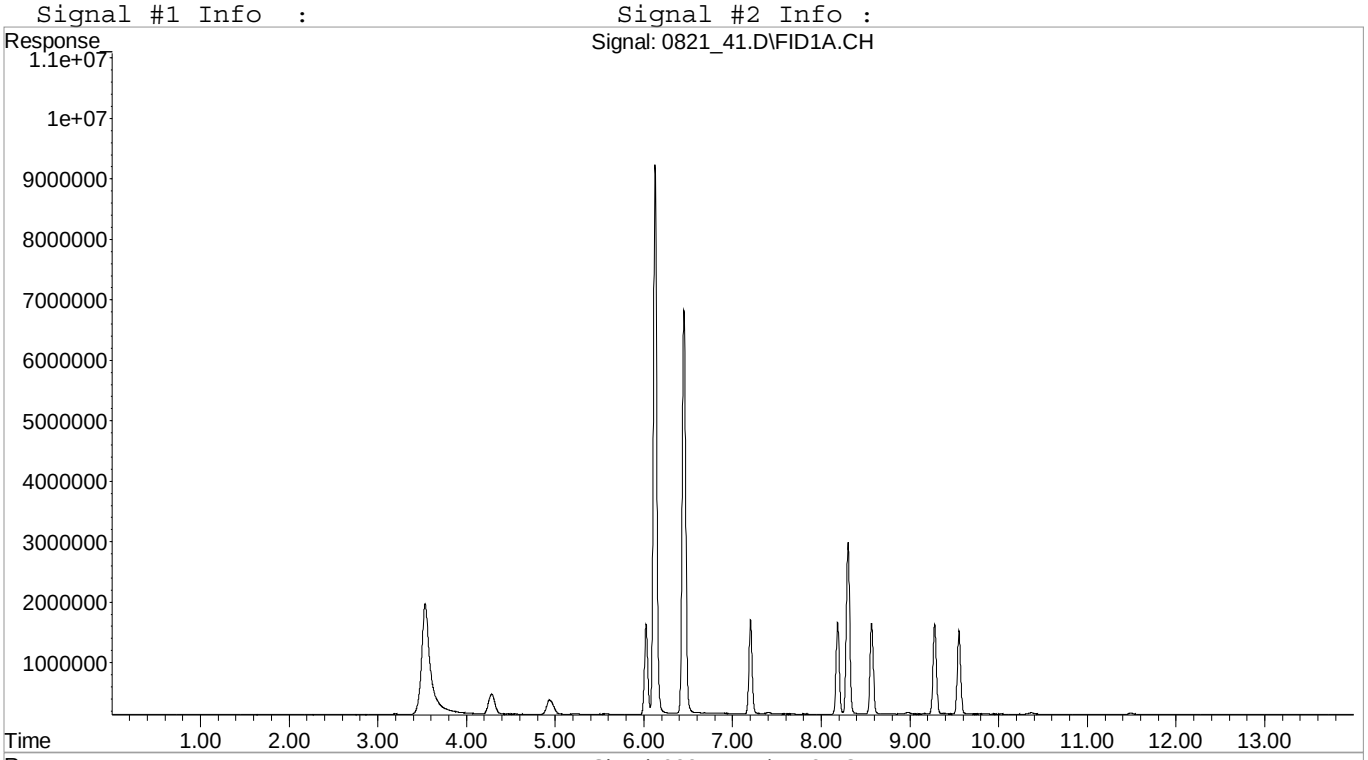
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1060525954	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	582832455	211.8779546	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.94%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	64671306	26.3257084	ppb
12) T,M benzene	6.02	212111027	24.1365035	ppb
13) T,M toluene	7.20	198922415	24.1540425	ppb
14) T,M ethylbenzene	8.18	173499570	24.1846064	ppb
15) T,M m&p-xylene	8.30	406308513	48.8037293	ppb
16) T,M o-xylene	8.57	174512986	24.0373154	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

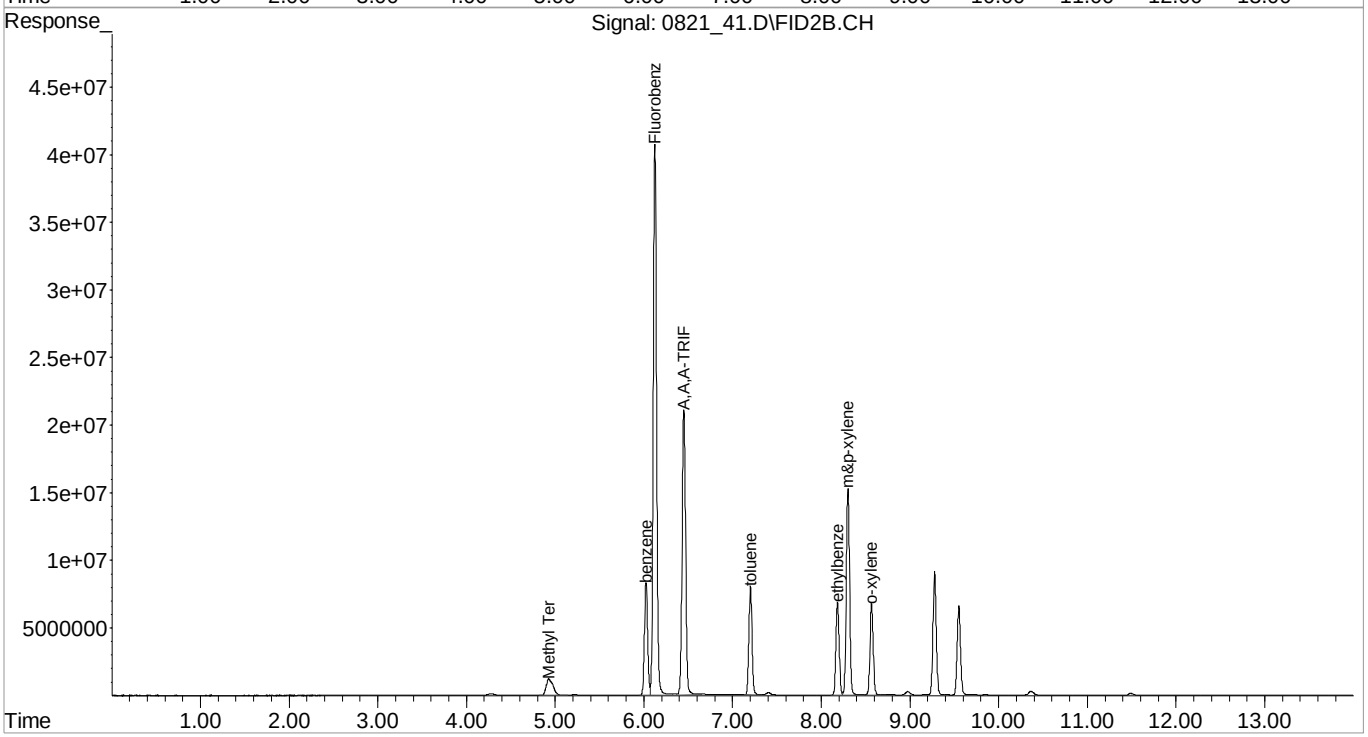
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID1A.CH Vial: 41
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 41.D\FID2B.CH
Acq On : 8-21-2014 02:29:37 PM Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID1A.CH  Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID2B.CH
Acq On    : 8-21-2014 02:50:37 PM                    Operator: 621
Sample    : MSTD BTEX 50 ppb 14G09861                Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:35 2014  Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

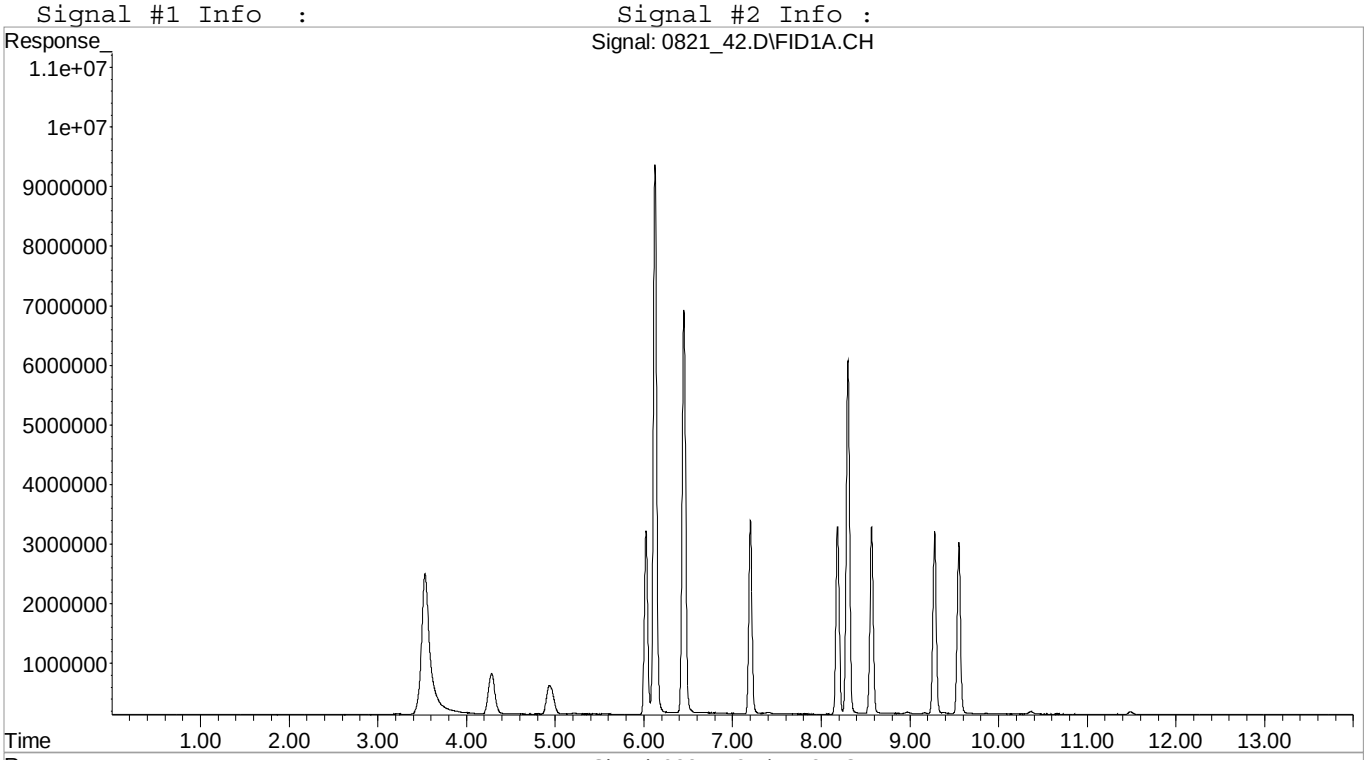
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Fluorobenzene #1	0.00	0	N.D.	ppb	d
9) I	Fluorobenzene #2	6.12	1080530001	200.0000000	ppb	
	System Monitoring Compounds					
7) S	A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb	d
Spiked Amount	200.0000 Range 59 - 128		Recovery	= 0.00%#		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	6.45	588562759	210.0000000	ppb	
Spiked Amount	200.0000 Range 54 - 144		Recovery	= 105.00%		
	Target Compounds					
2) H,M	TPHG C4 - C12	0.00	0	N.D.	ppm	
3) H,M	TPHG C5 - C12	0.00	0	N.D.	ppm	
4) H,M	TPHG C6 - C12	0.00	0	N.D.	ppm	
5) H,M	TPHGAK C6 to C10	0.00	0	N.D.	ppm	
6) h,m	TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm	
11) T,M	Methyl Tert-Butyl Ether	4.94	125146036	50.0000000	ppb	
12) T,M	benzene	6.02	447686937	50.0000000	ppb	
13) T,M	toluene	7.20	419545851	50.0000000	ppb	
14) T,M	ethylbenzene	8.18	365464259	50.0000000	ppb	
15) T,M	m&p-xylene	8.30	848239398	100.0000000	ppb	
16) T,M	o-xylene	8.57	369851445	50.0000000	ppb	
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M	Naphthalene	0.00	0	N.D.	ppb	d

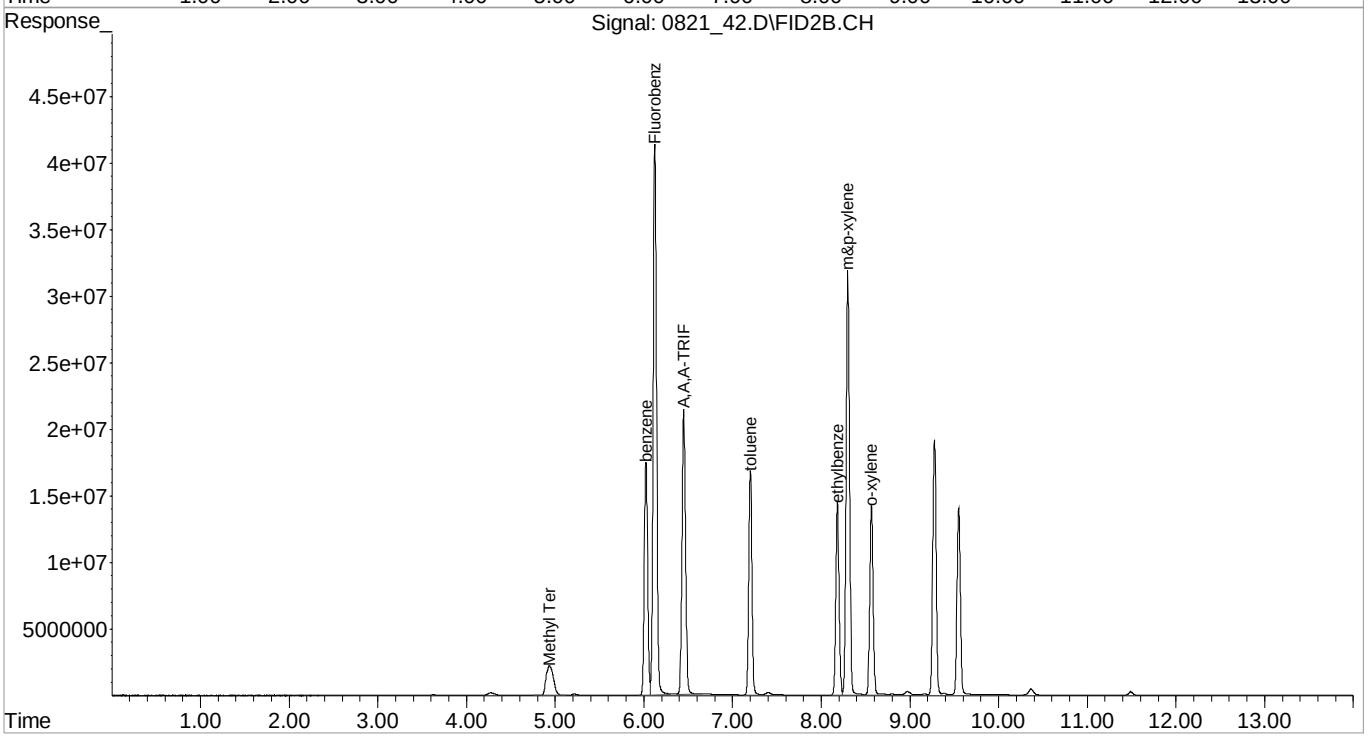
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID1A.CH Vial: 42
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 42.D\FID2B.CH
Acq On : 8-21-2014 02:50:37 PM Operator: 621
Sample : MSTD BTEX 50 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID2B.CH
Acq On : 8-21-2014 03:11:45 PM Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

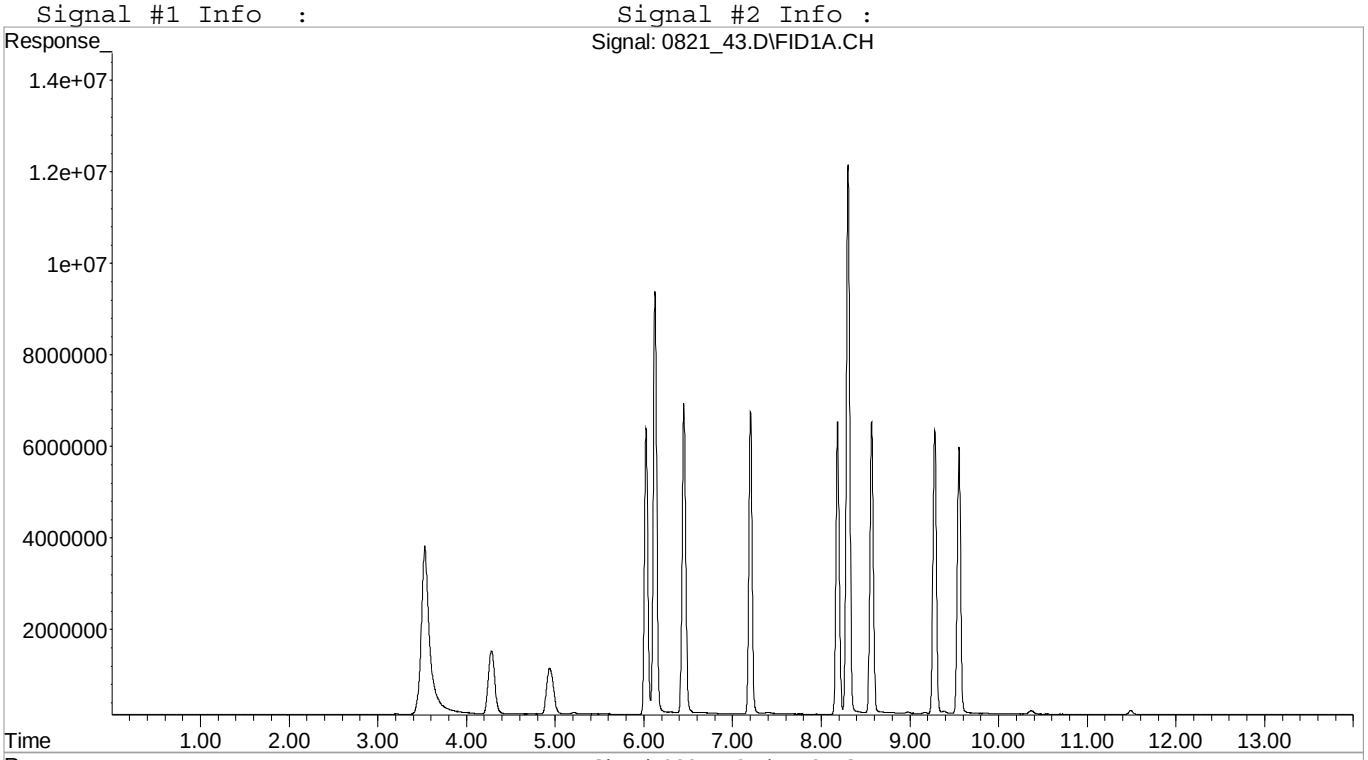
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1082949277	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	583703105	207.8008087	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 103.90%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	253004871	100.8580355	ppb
12) T,M benzene	6.02	912087785	101.6391291	ppb
13) T,M toluene	7.20	852240518	101.3401320	ppb
14) T,M ethylbenzene	8.18	743063085	101.4330520	ppb
15) T,M m&p-xylene	8.30	1708044542	200.9136601	ppb
16) T,M o-xylene	8.57	752102530	101.4491581	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

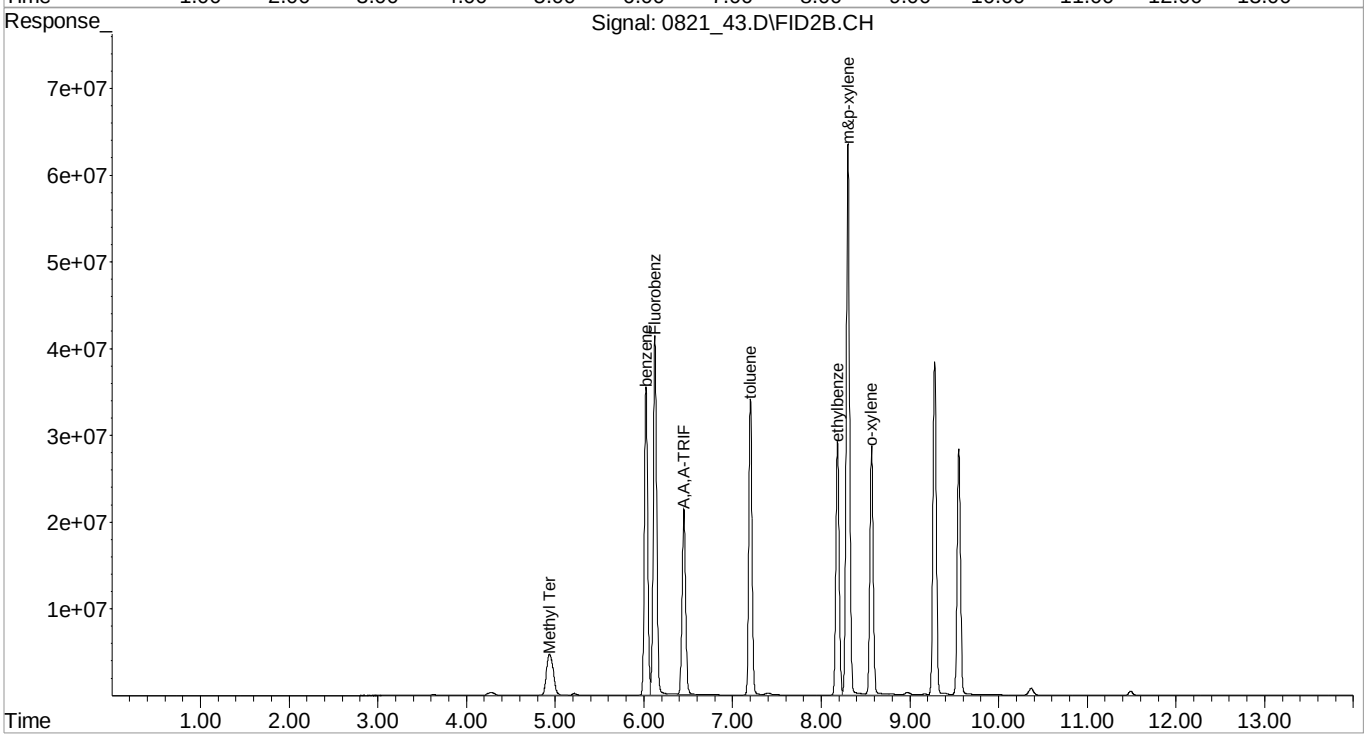
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID1A.CH Vial: 43
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 43.D\FID2B.CH
Acq On : 8-21-2014 03:11:45 PM Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:36 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID1A.CH Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID2B.CH
Acq On : 8-21-2014 03:32:54 PM Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:40 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

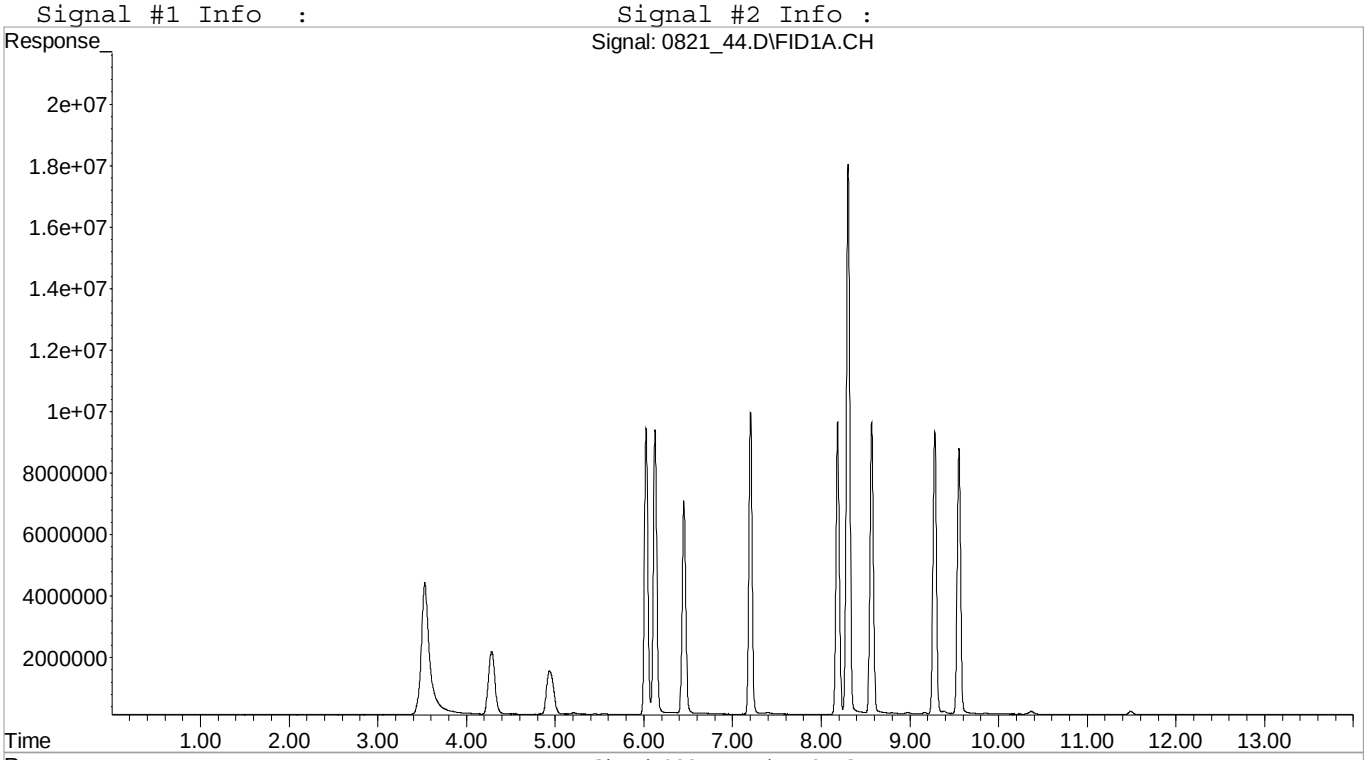
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.12	1085843726	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	602437663	213.8986947	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 106.95%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	354618786	140.9886493	ppb
12) T,M benzene	6.02	1356014217	150.7055783	ppb
13) T,M toluene	7.20	1263361720	149.8262090	ppb
14) T,M ethylbenzene	8.18	1101682736	149.9861441	ppb
15) T,M m&p-xylene	8.30	2228655517	261.4532278	ppb
16) T,M o-xylene	8.57	1112747802	149.6955646	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

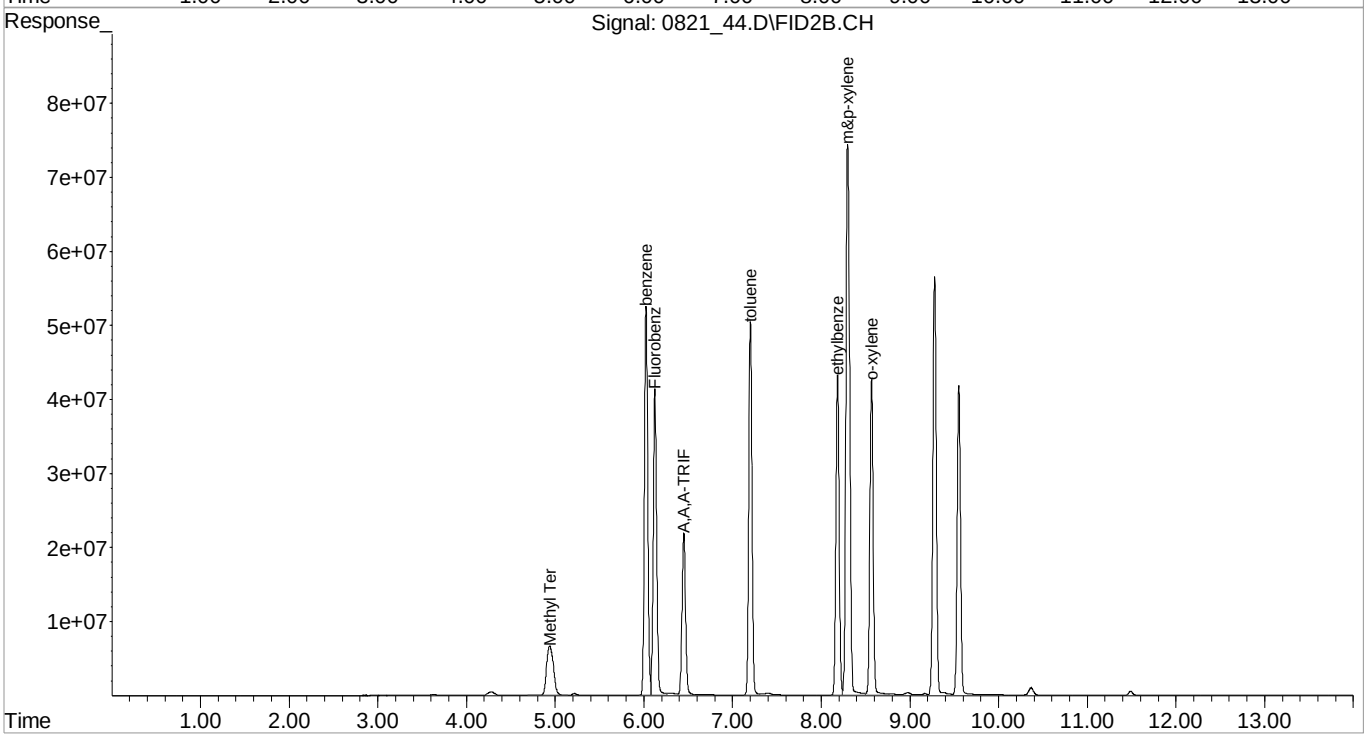
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID1A.CH Vial: 44
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 44.D\FID2B.CH
Acq On : 8-21-2014 03:32:54 PM Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID1A.CH Vial: 45
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID2B.CH
Acq On : 8-21-2014 03:54:00 PM Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:43 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

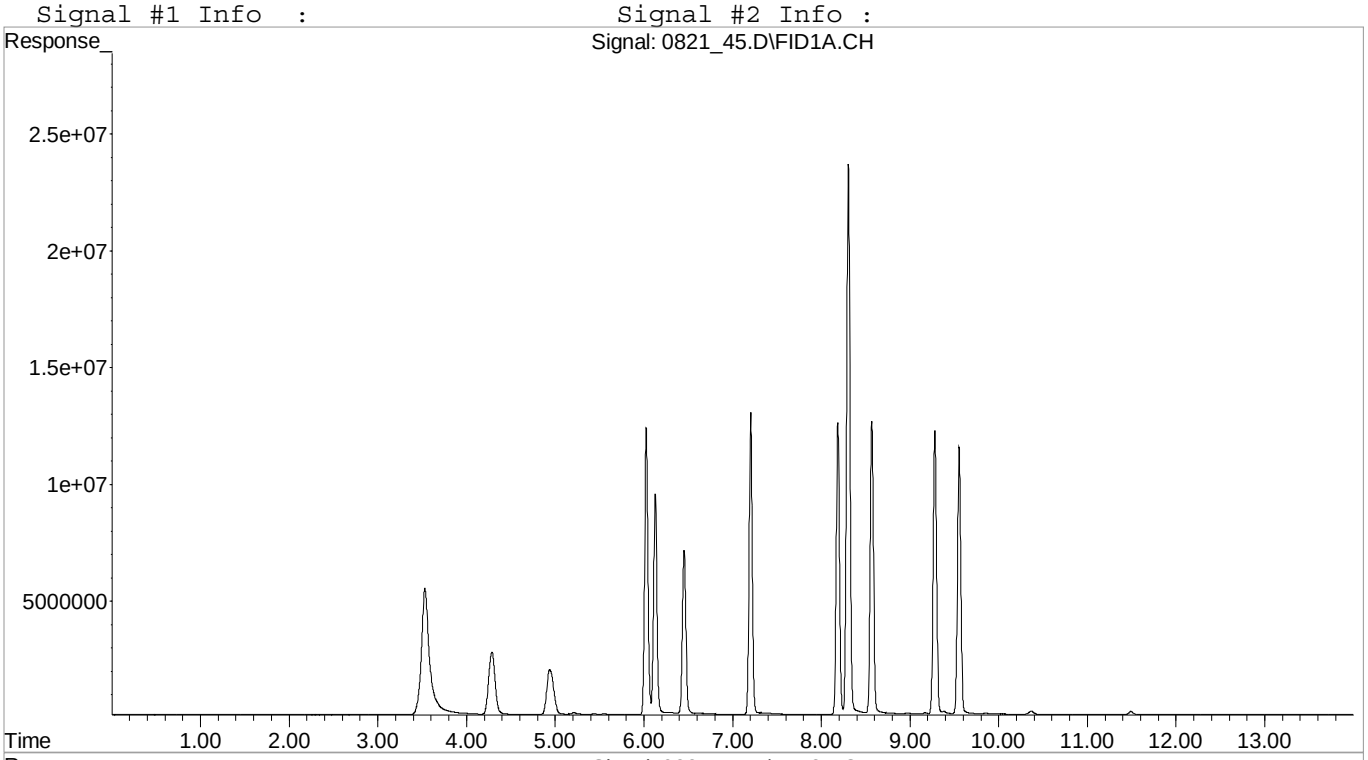
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.13	1102017007	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	601994465	210.6044515	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 105.30%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	475153981	186.1383300	ppb
12) T,M benzene	6.02	1776343329	194.5230291	ppb
13) T,M toluene	7.20	1636090731	191.1817756	ppb
14) T,M ethylbenzene	8.18	1439527971	193.1050953	ppb
15) T,M m&p-xylene	8.29	2547386927	294.4591187	ppb
16) T,M o-xylene	8.57	1457278123	193.1673234	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

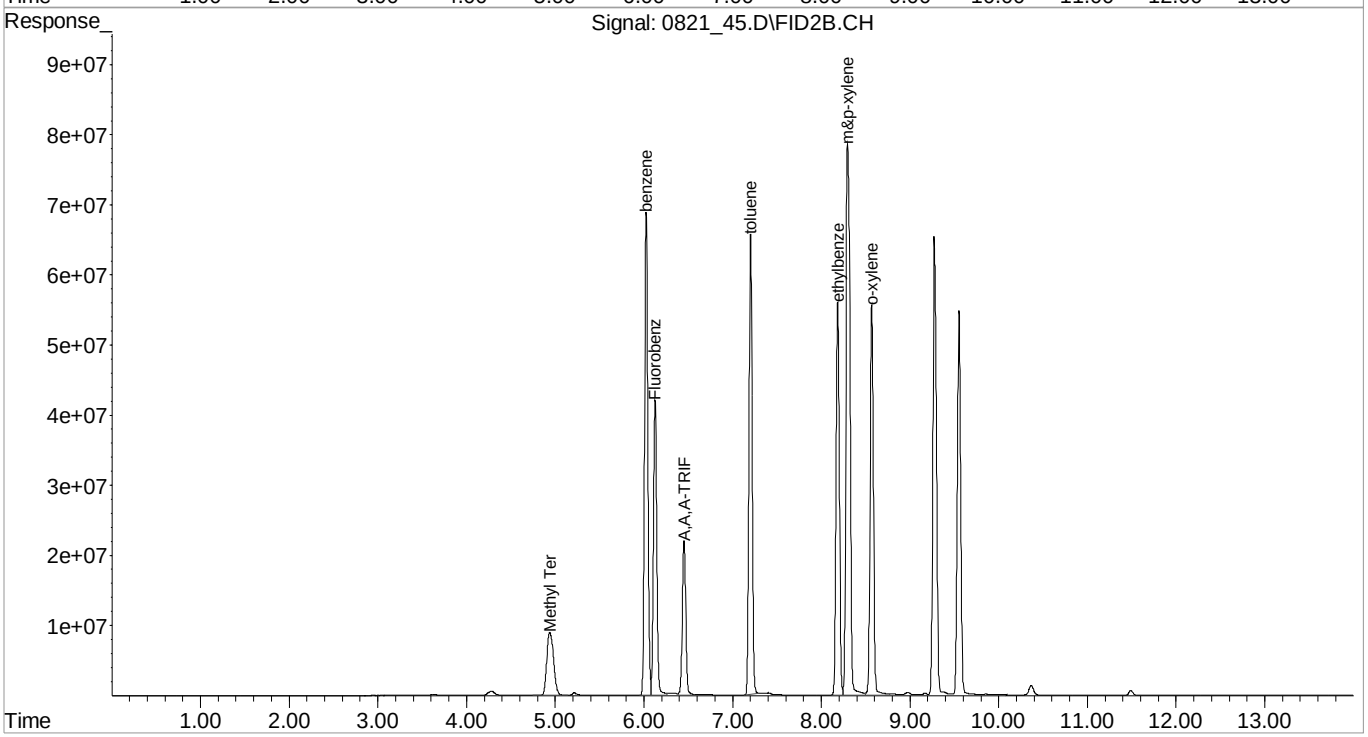
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID1A.CH Vial: 45
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 45.D\FID2B.CH
Acq On : 8-21-2014 03:54:00 PM Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID1A.CH Vial: 46
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID2B.CH
Acq On : 8-21-2014 04:15:05 PM Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:32:45 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

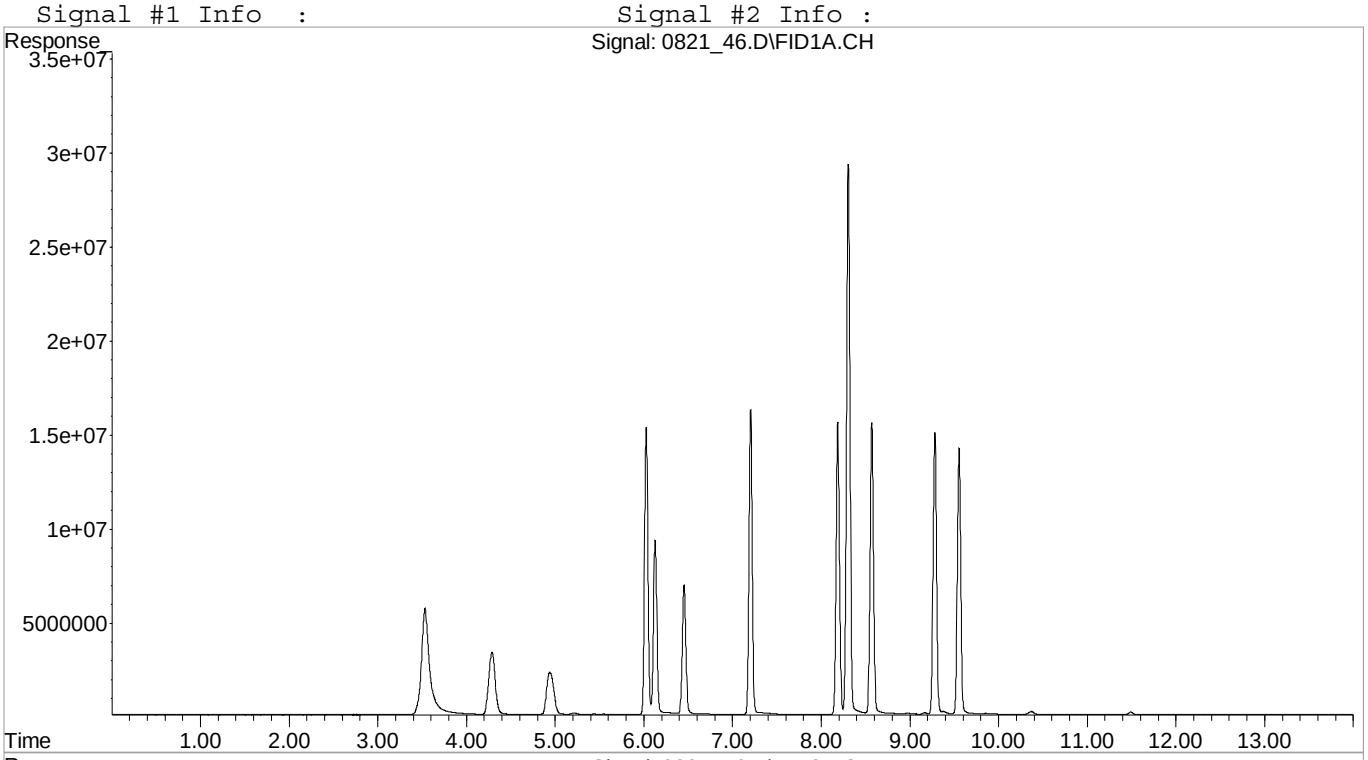
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
9) I Fluorobenzene #2	6.13	1087047462	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 0.00%#	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	589041724	208.9108026	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 104.46%	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
4) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
5) H,M TPHGAK C6 to C10	0.00	0	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	564745922	224.2819558	ppb
12) T,M benzene	6.02	2070633664	229.8725826	ppb
13) T,M toluene	7.20	1900911257	225.1856644	ppb
14) T,M ethylbenzene	8.18	1734304554	235.8515747	ppb
15) T,M m&p-xylene	8.30	2784309396	326.2776876	ppb
16) T,M o-xylene	8.56	1690918501	227.2237292	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

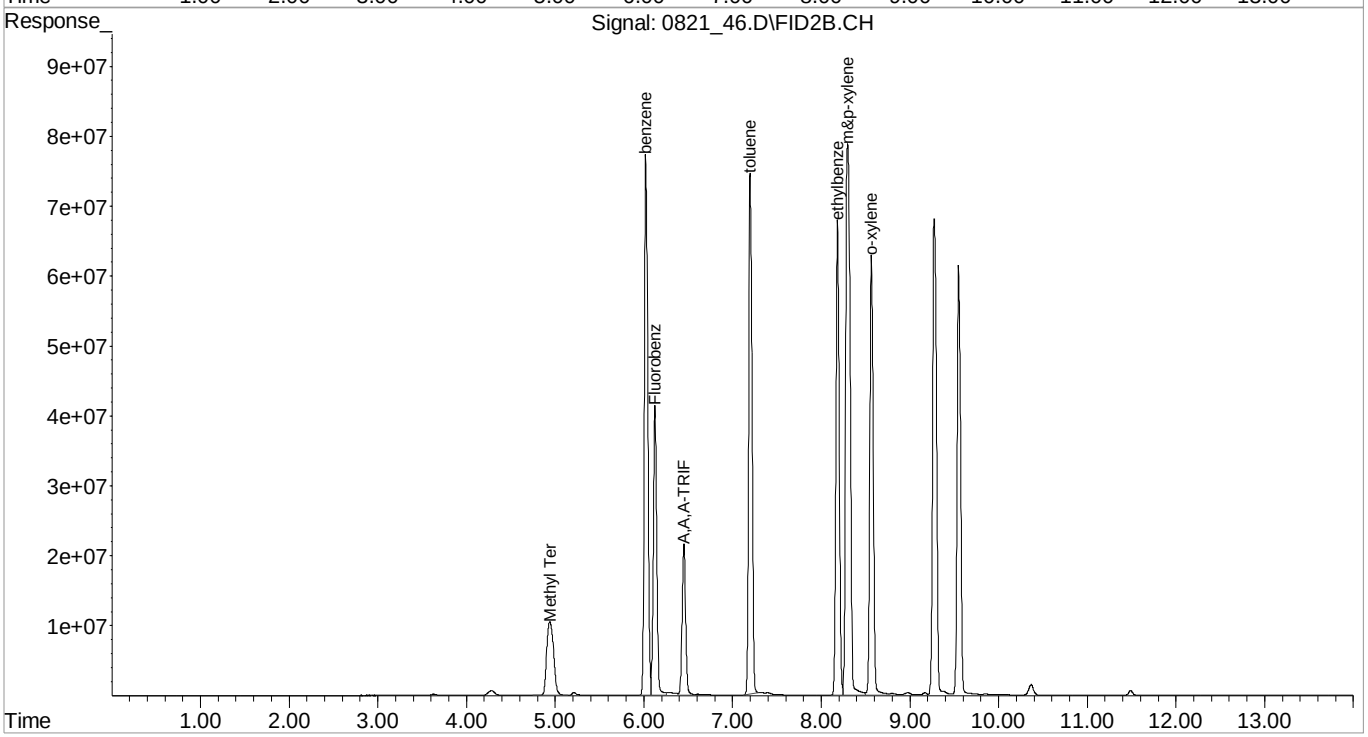
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID1A.CH Vial: 46
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 46.D\FID2B.CH
Acq On : 8-21-2014 04:15:05 PM Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 22 10:37 2014 Quant Results File: BG12H21N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H21N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Fri Aug 22 10:32:00 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

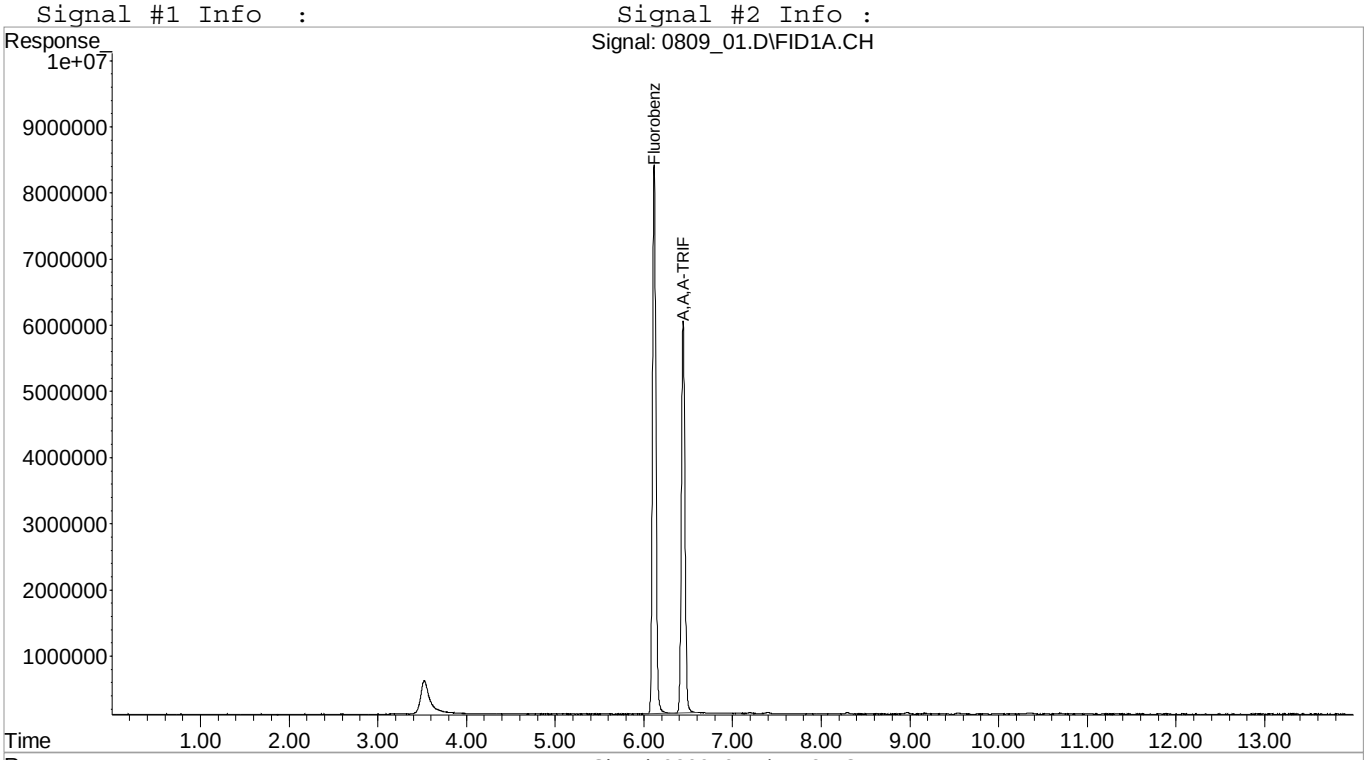
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

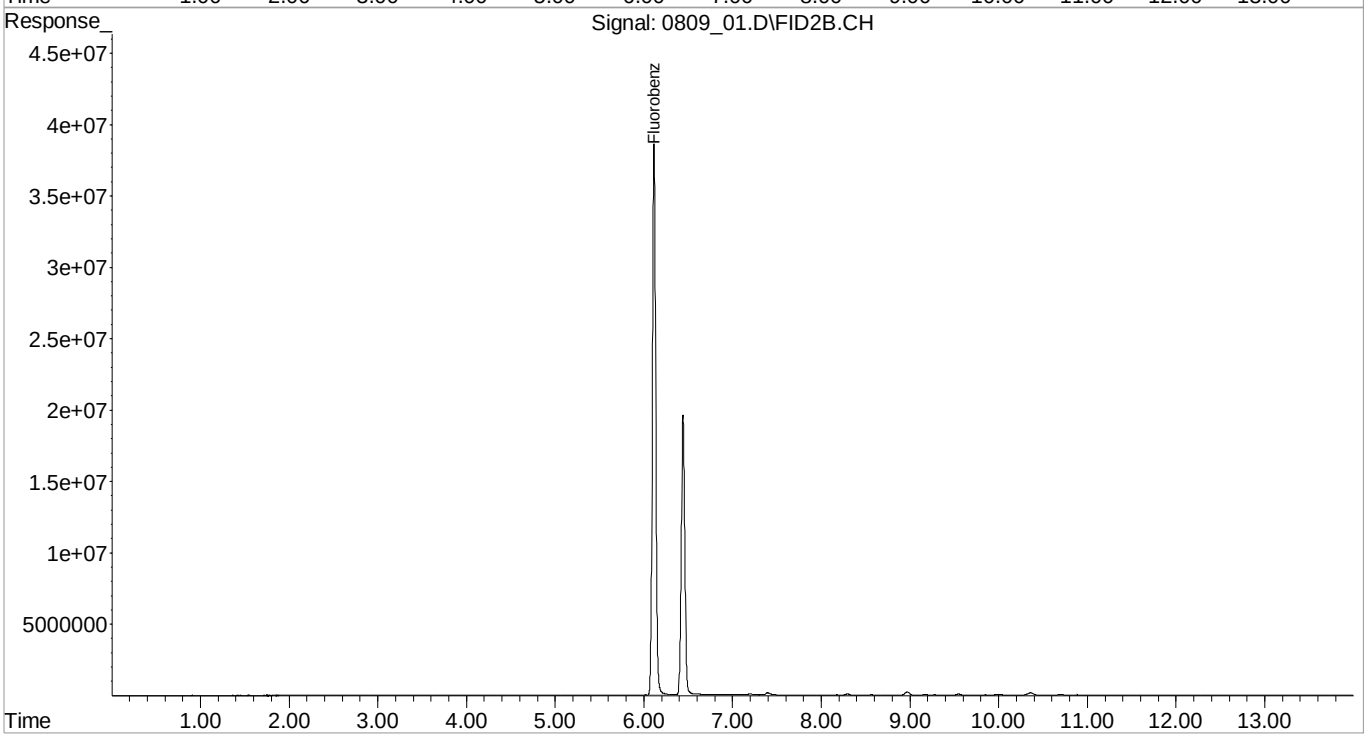
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46:03 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

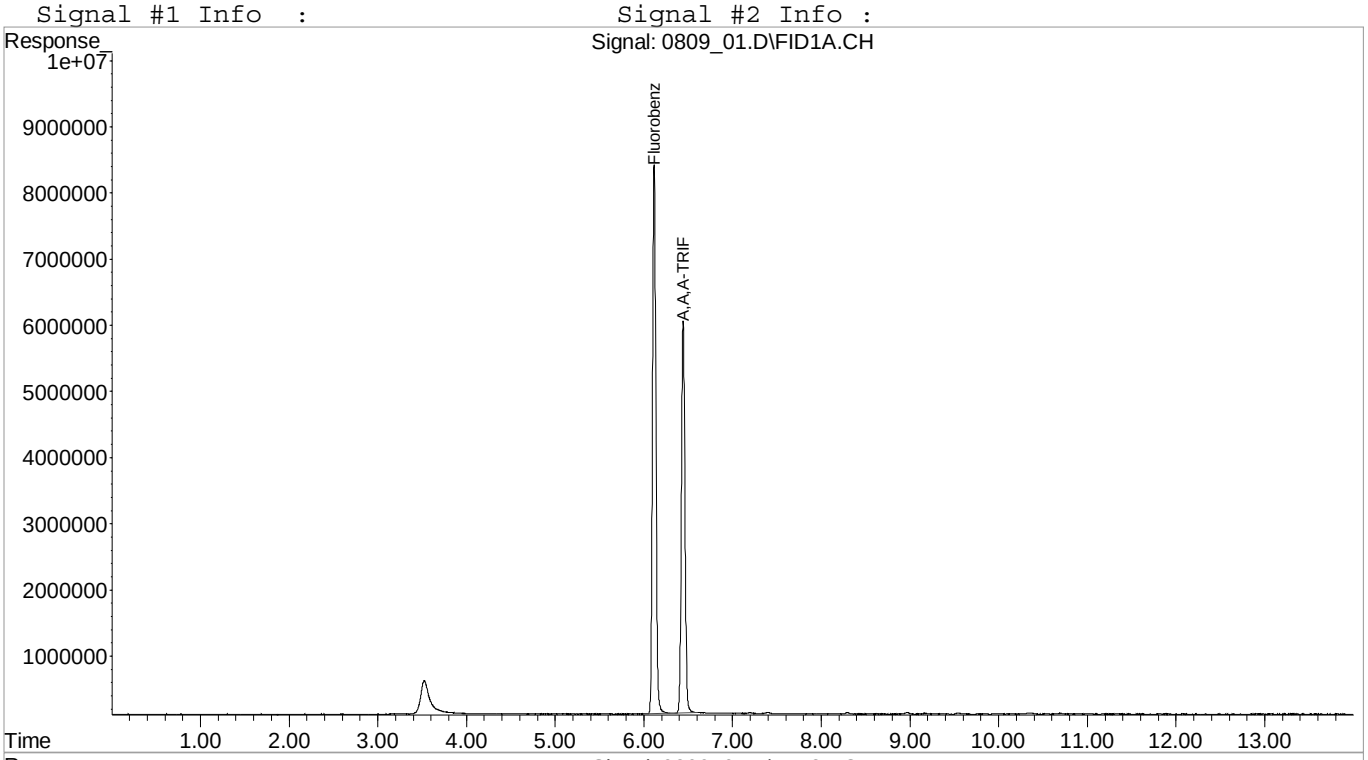
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	216690368	200.0000000	ppb
9) I Fluorobenzene #2	6.11	1014599287	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	163479660	200.9622481	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 100.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	541716871	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	12658	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	50736698	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	40284096	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	28389519	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	32094818	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.94	6578	NoCal	ppb
12) T,M benzene	6.01	454398	NoCal	ppb
13) T,M toluene	7.19	1957888	NoCal	ppb
14) T,M ethylbenzene	8.18	590024	NoCal	ppb
15) T,M m&p-xylene	8.29	2828513	NoCal	ppb
16) T,M o-xylene	8.56	944648	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.27	913653	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2635864	NoCal	ppb
19) T,M Naphthalene	11.49	66156	NoCal	ppb

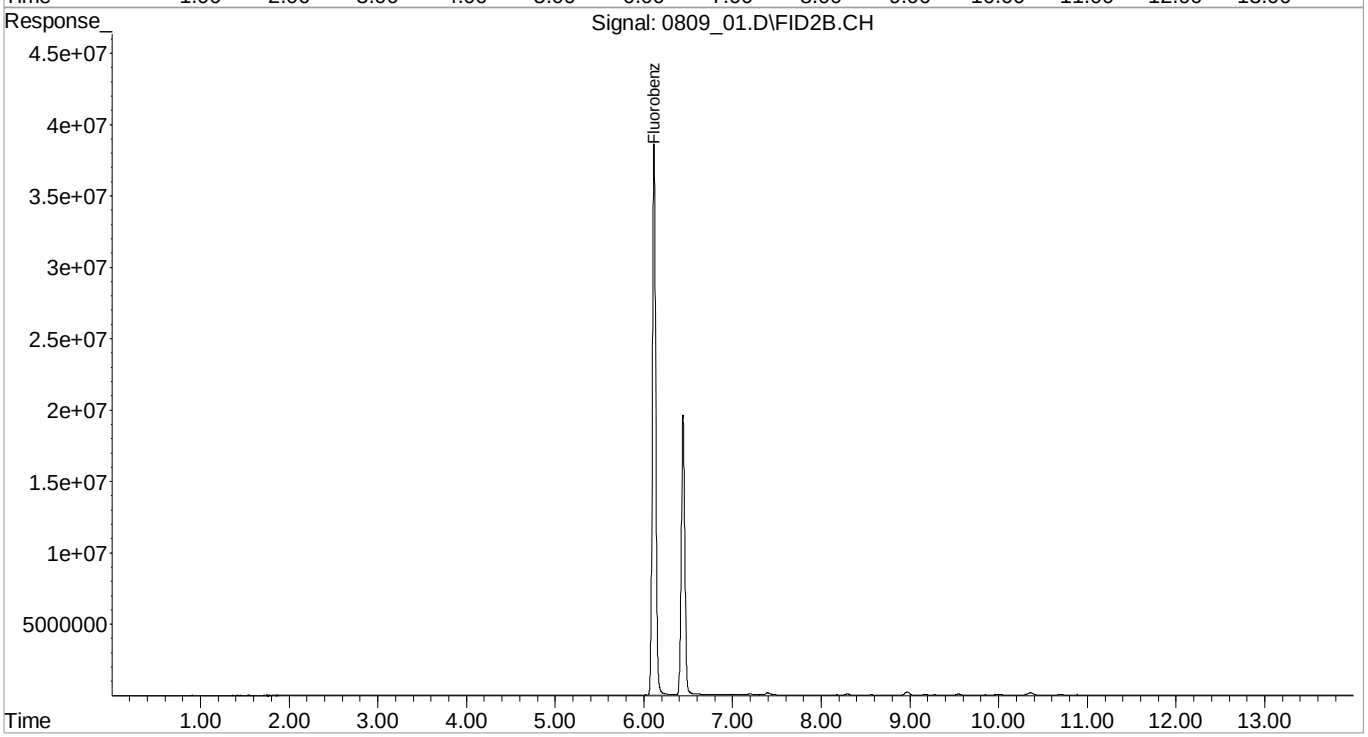
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\080914\0809 01.D\FID2B.CH
Acq On : 09 Aug 2014 10:11 pm Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 11 12:46 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On : 20 Aug 2014 11:01 pm Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:23 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	218888669	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1007552094	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	168431344	204.9698563	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	547107085	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7514	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	57901520	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	51896593	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	38599341	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	40279363	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	715735	NoCal	ppb
12) T,M benzene	6.02	2757851	NoCal	ppb
13) T,M toluene	7.20	2911691	NoCal	ppb
14) T,M ethylbenzene	8.18	2782577	NoCal	ppb
15) T,M m&p-xylene	8.30	6878785	NoCal	ppb
16) T,M o-xylene	8.56	2737549	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	581604	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2747043	NoCal	ppb
19) T,M Naphthalene	11.49	20767	NoCal	ppb

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH  Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On    : 20 Aug 2014  11:01 pm                    Operator: 621
Sample    : INSTBLK                                  Inst    : VOCGC12
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014  Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title        : BTEXM/GRO/WIS VOCGC12
Last Update  : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
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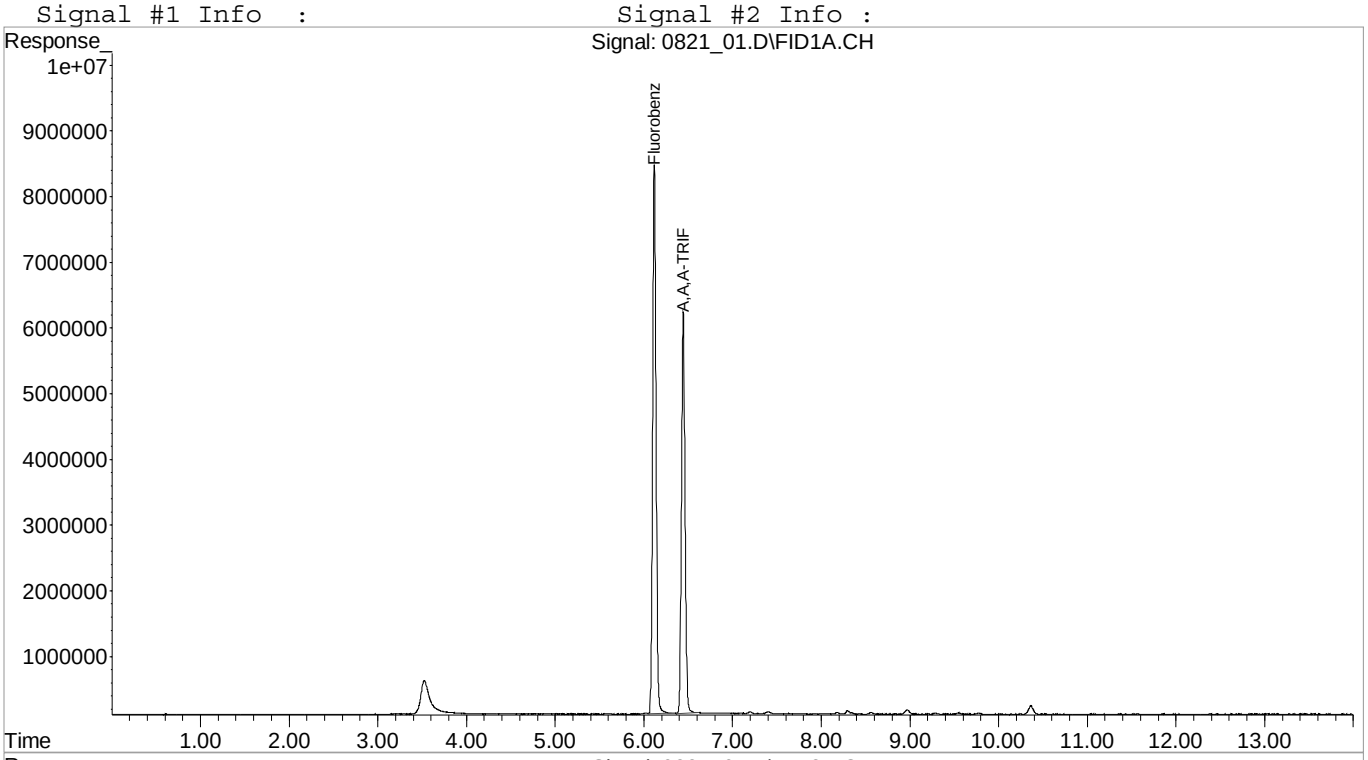
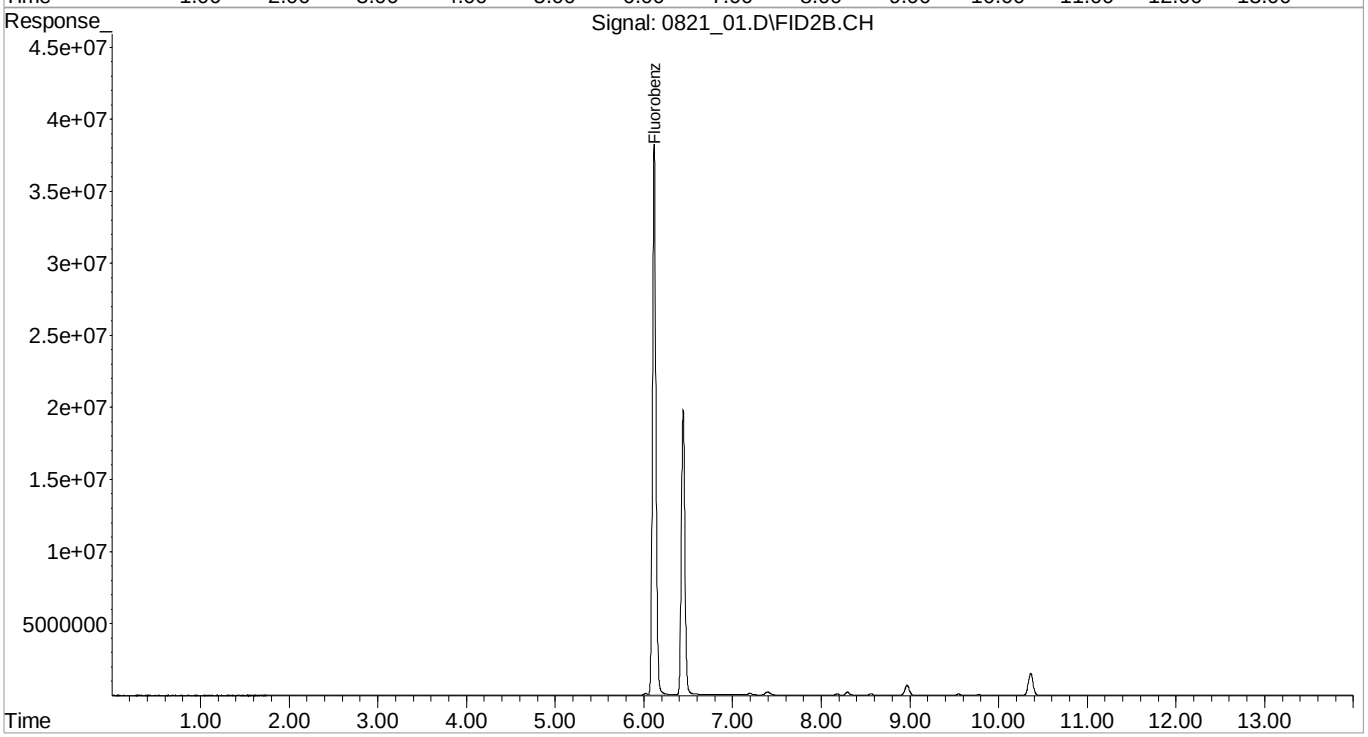




Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On : 20 Aug 2014 11:01 pm Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:23 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

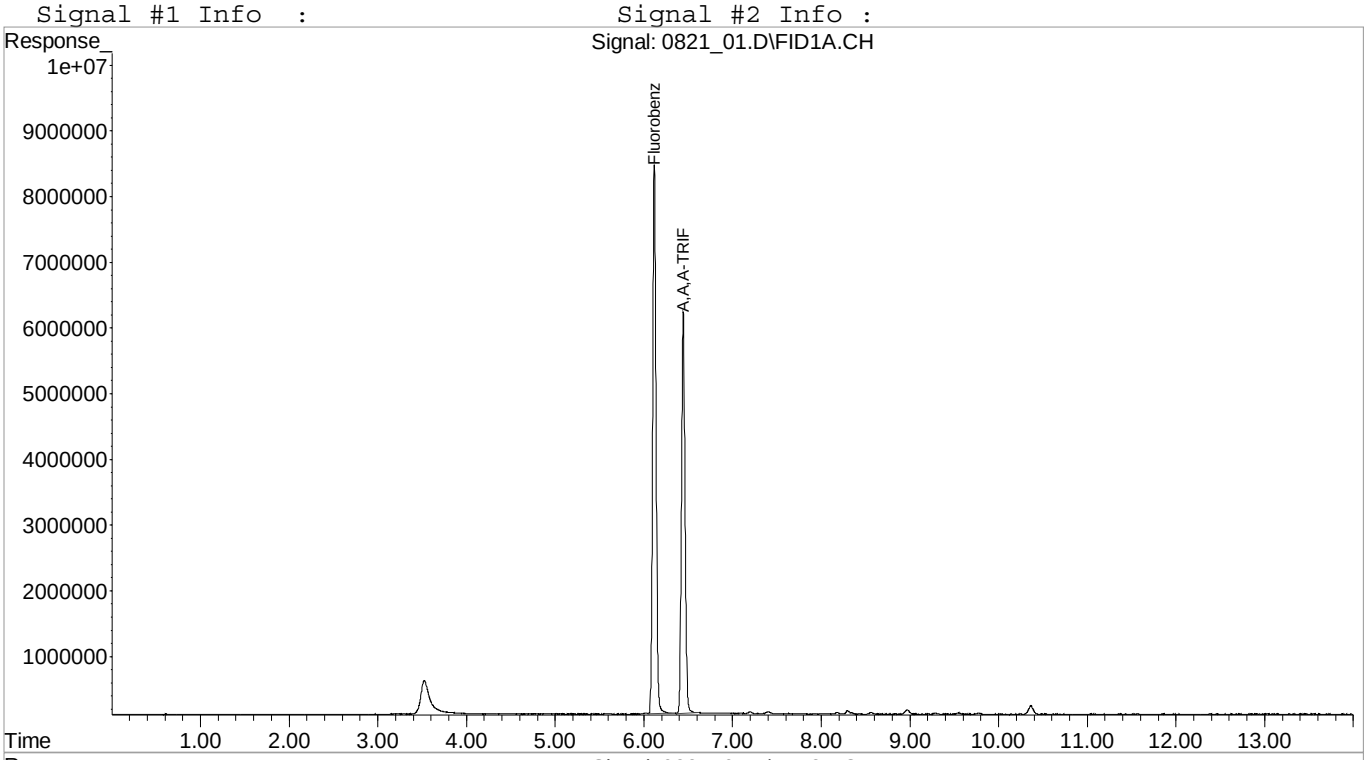
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	218888669	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1007552094	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.44	168431344	204.9698563	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.48%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.44	547107085	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	7514	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	57901520	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	51896593	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	38599341	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	40279363	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.93	715735	NoCal	ppb
12) T,M benzene	6.02	2757851	NoCal	ppb
13) T,M toluene	7.20	2911691	NoCal	ppb
14) T,M ethylbenzene	8.18	2782577	NoCal	ppb
15) T,M m&p-xylene	8.30	6878785	NoCal	ppb
16) T,M o-xylene	8.56	2737549	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	581604	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	2747043	NoCal	ppb
19) T,M Naphthalene	11.49	20767	NoCal	ppb

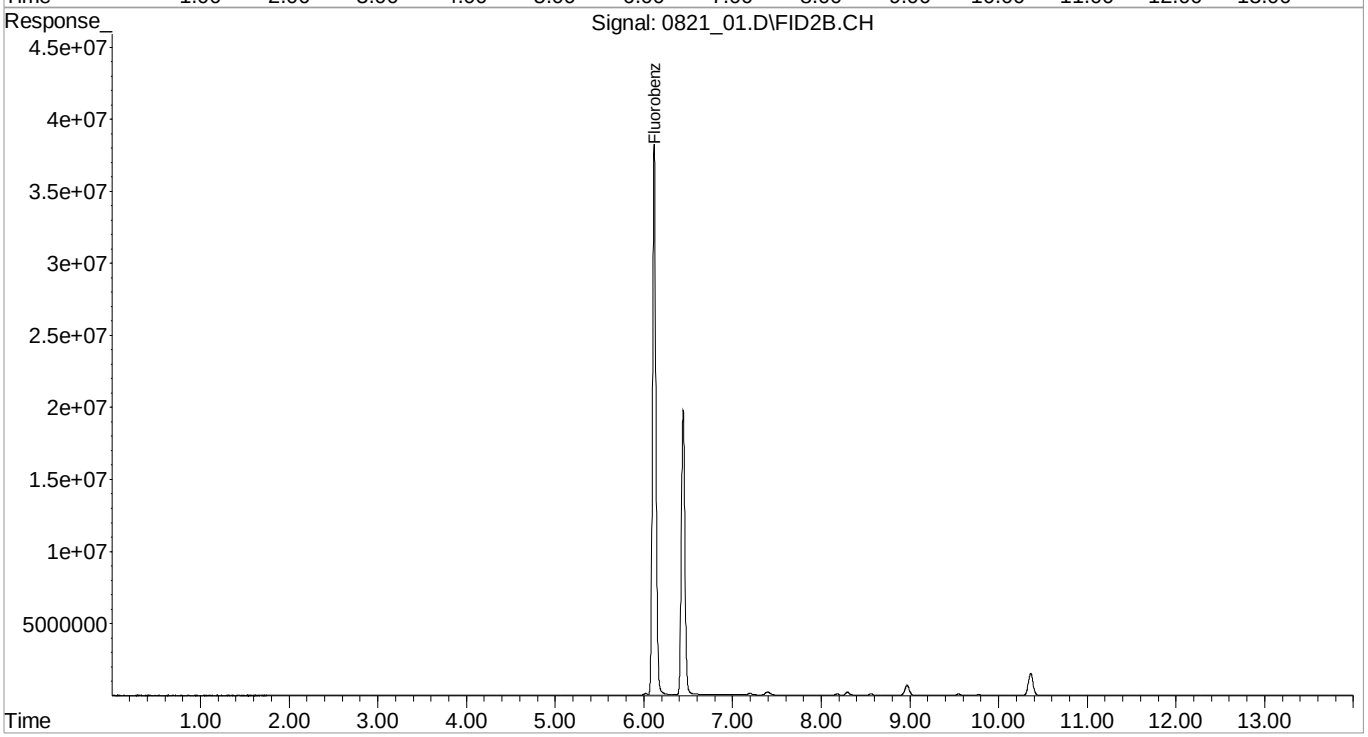
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 01.D\FID2B.CH
Acq On : 20 Aug 2014 11:01 pm Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

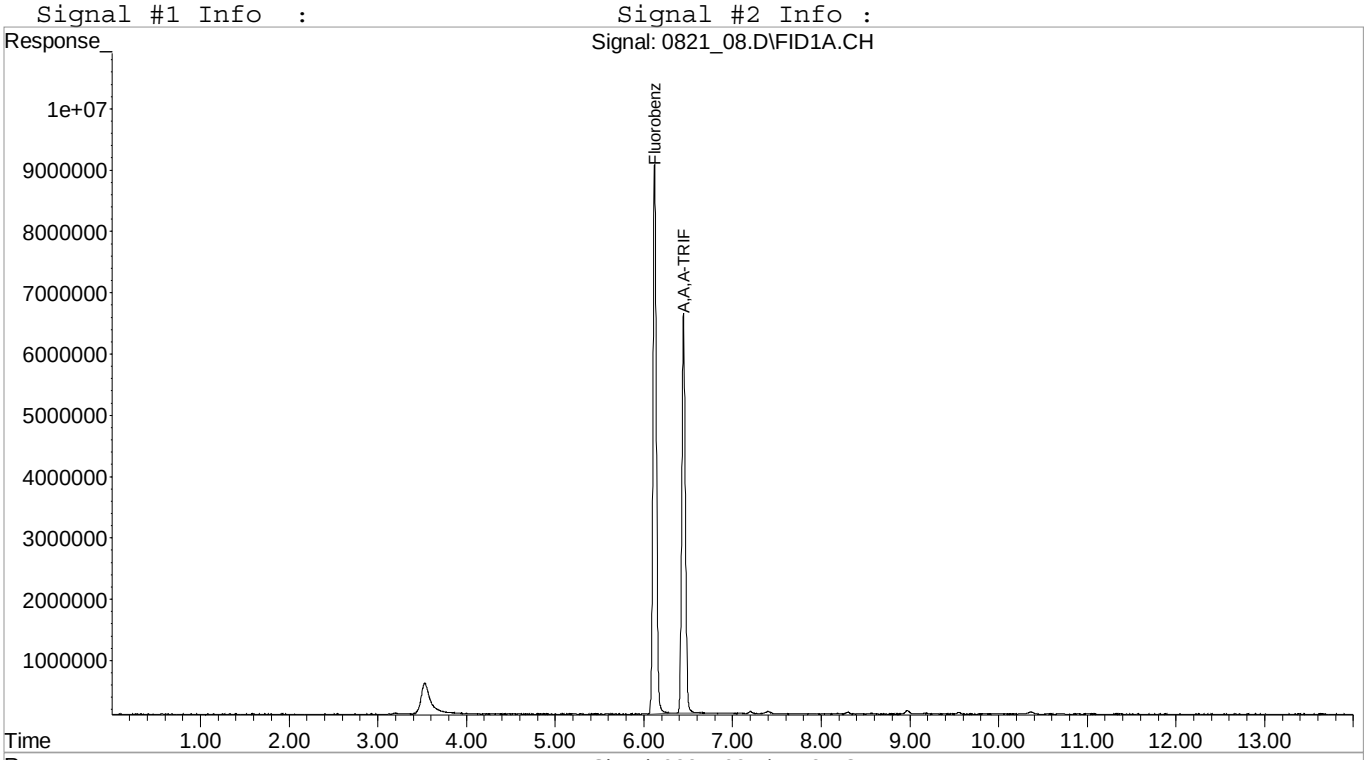
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234300357	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1037584772	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	179950929	204.5839247	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.29%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	557396599	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	14260	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47873574	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	45039965	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	34337540	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	36112648	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	9426	NoCal	ppb
12) T,M benzene	6.02	668156	NoCal	ppb
13) T,M toluene	7.20	3106211	NoCal	ppb
14) T,M ethylbenzene	8.18	875809	NoCal	ppb
15) T,M m&p-xylene	8.30	3733391	NoCal	ppb
16) T,M o-xylene	8.56	1331763	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	990539	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3256615	NoCal	ppb
19) T,M Naphthalene	11.49	51575	NoCal	ppb

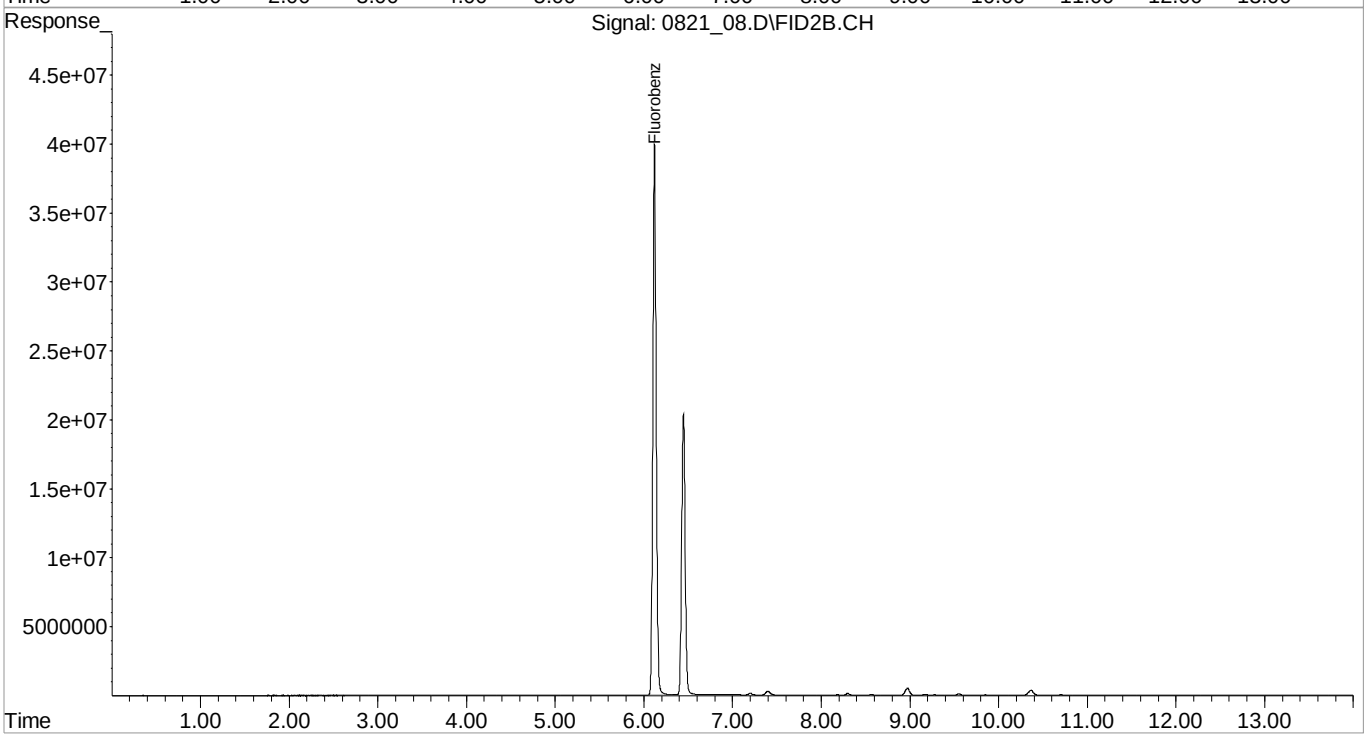
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47:40 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

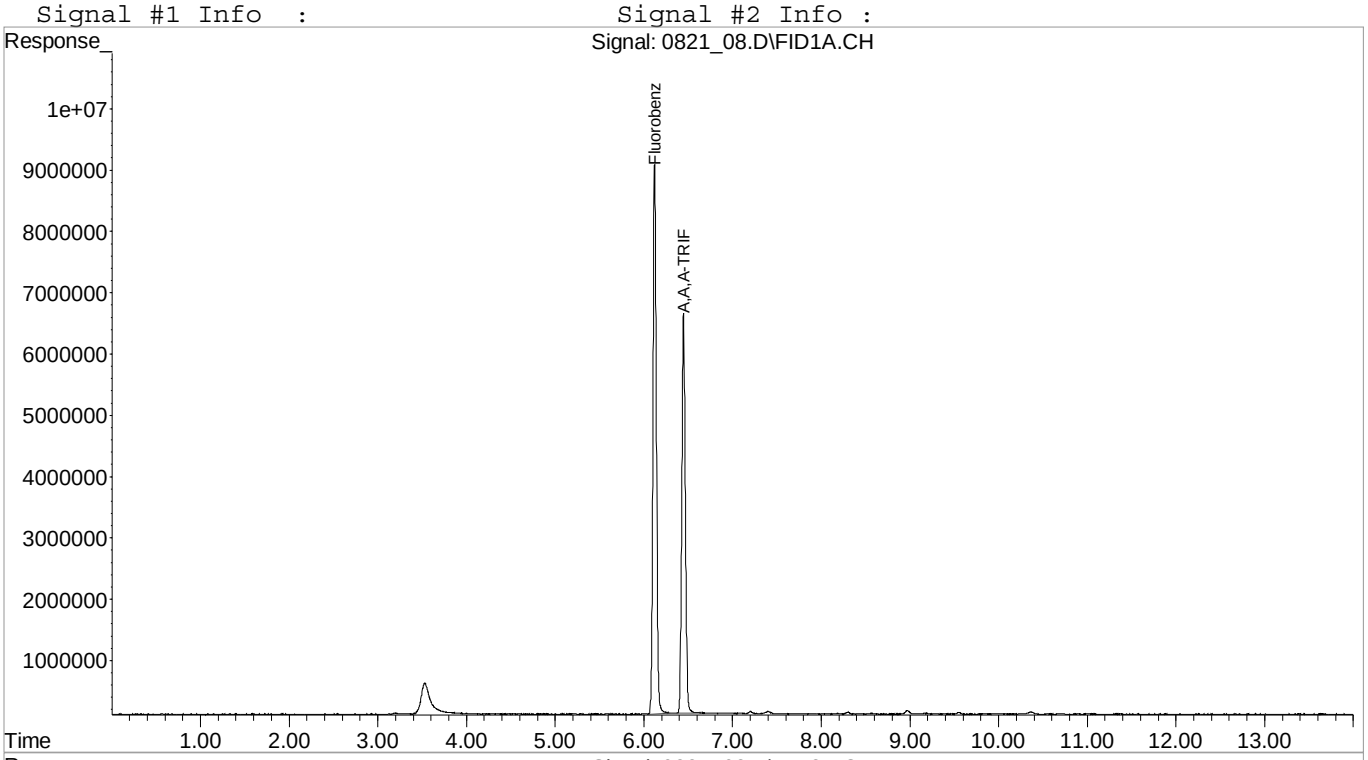
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	234300357	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1037584772	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	179950929	204.5839247	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.29%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	557396599	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	14260	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47873574	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	45039965	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	34337540	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	36112648	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.92	9426	NoCal	ppb
12) T,M benzene	6.02	668156	NoCal	ppb
13) T,M toluene	7.20	3106211	NoCal	ppb
14) T,M ethylbenzene	8.18	875809	NoCal	ppb
15) T,M m&p-xylene	8.30	3733391	NoCal	ppb
16) T,M o-xylene	8.56	1331763	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	990539	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	3256615	NoCal	ppb
19) T,M Naphthalene	11.49	51575	NoCal	ppb

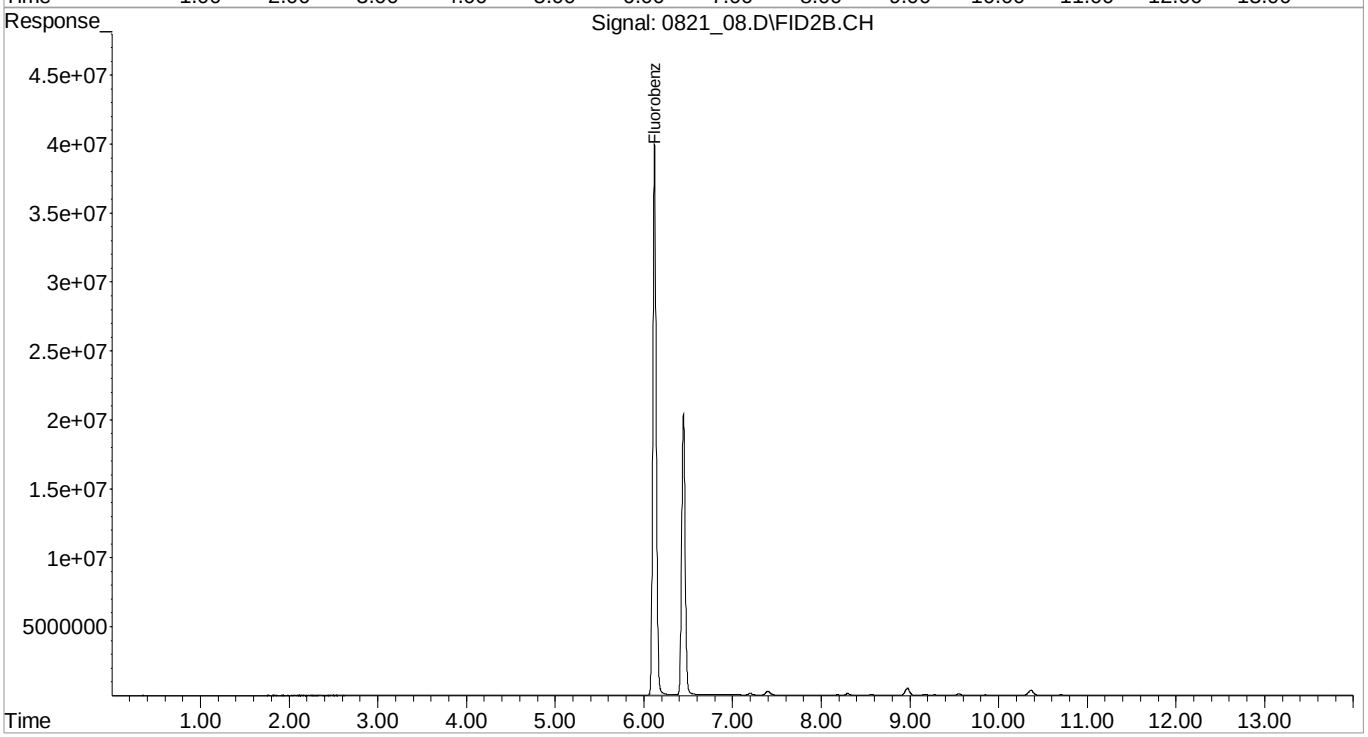
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 08.D\FID2B.CH
Acq On : 8-21-2014 01:53:59 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:47 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:10 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

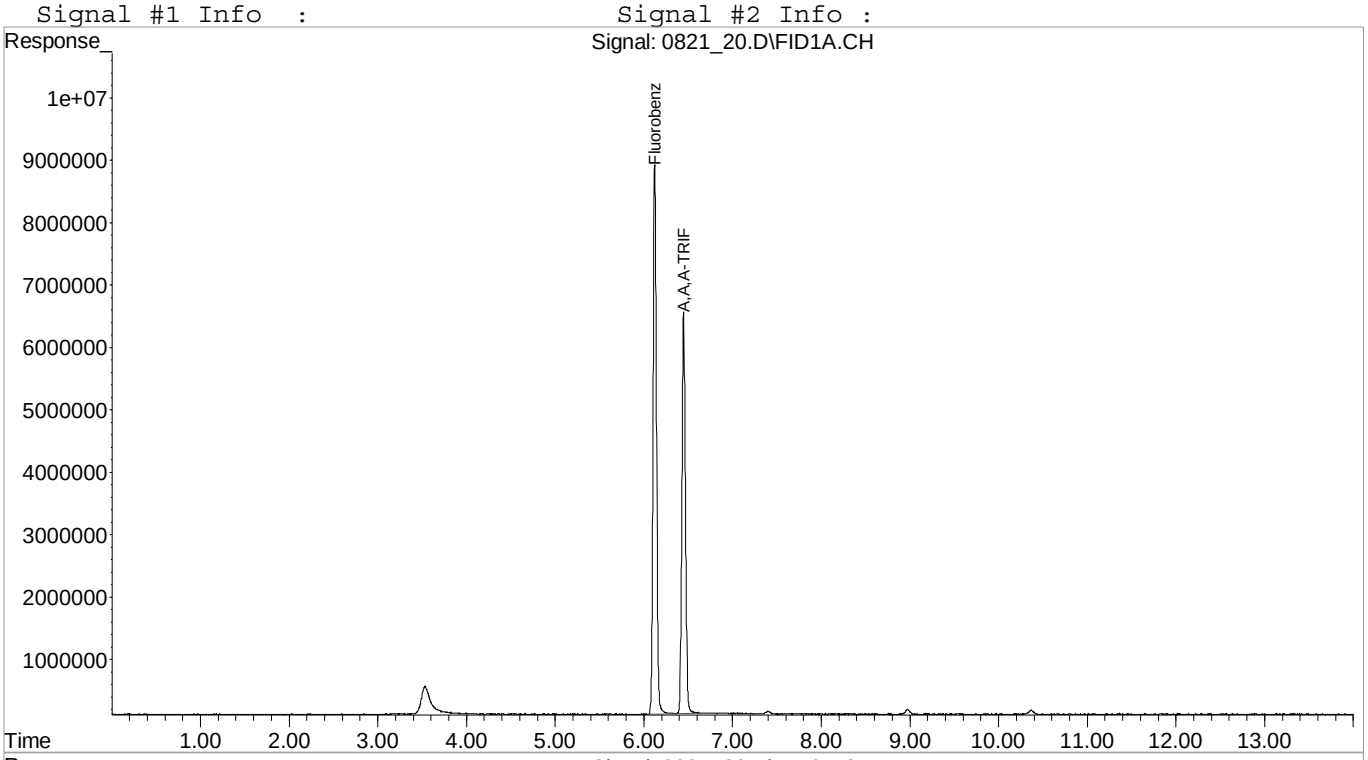
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	230204359	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1022221436	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	176988175	204.7958117	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.40%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	556182516	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	11143	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47780008	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	44533505	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	33504439	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	34861232	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	4713	NoCal	ppb
12) T,M benzene	6.02	312422	NoCal	ppb
13) T,M toluene	7.20	418109	NoCal	ppb
14) T,M ethylbenzene	8.19	179541	NoCal	ppb
15) T,M m&p-xylene	8.30	643576	NoCal	ppb
16) T,M o-xylene	8.57	200658	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	179122	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	666090	NoCal	ppb
19) T,M Naphthalene	11.49	26076	NoCal	ppb

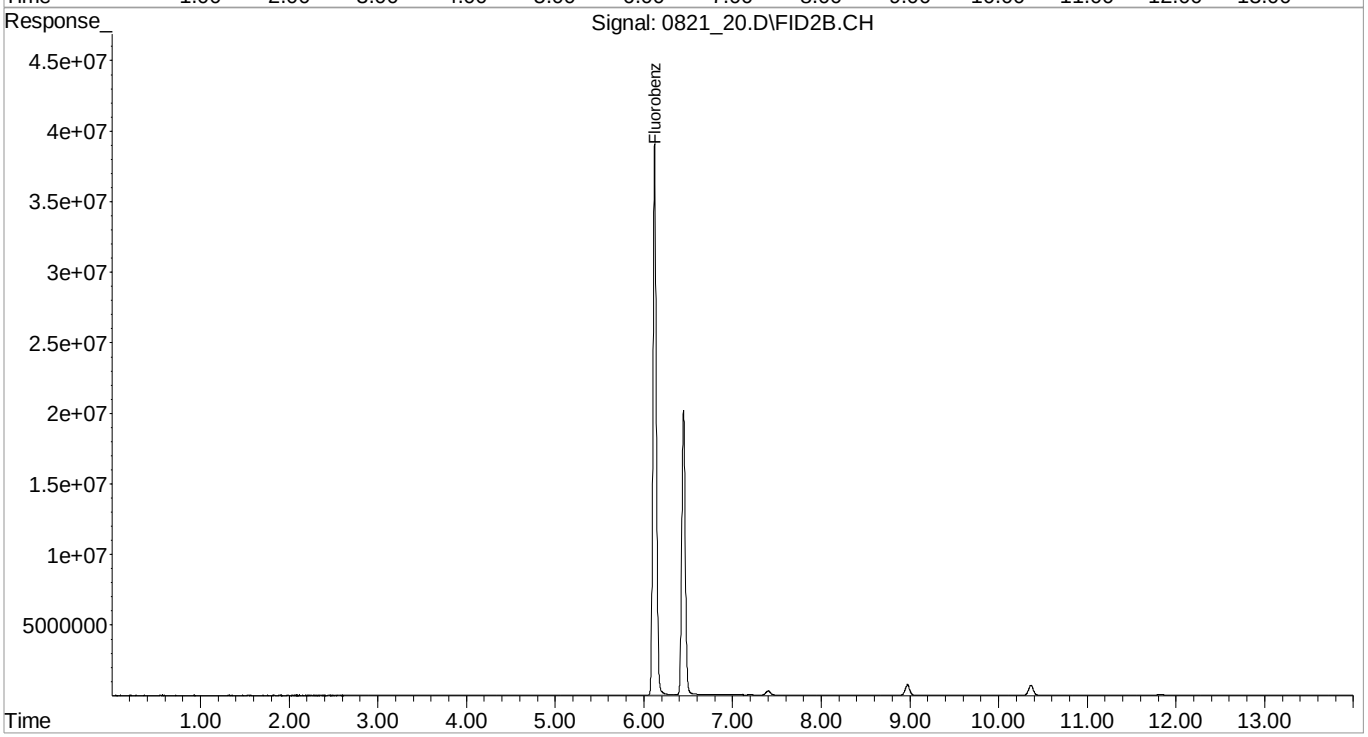
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48:10 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Initial Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

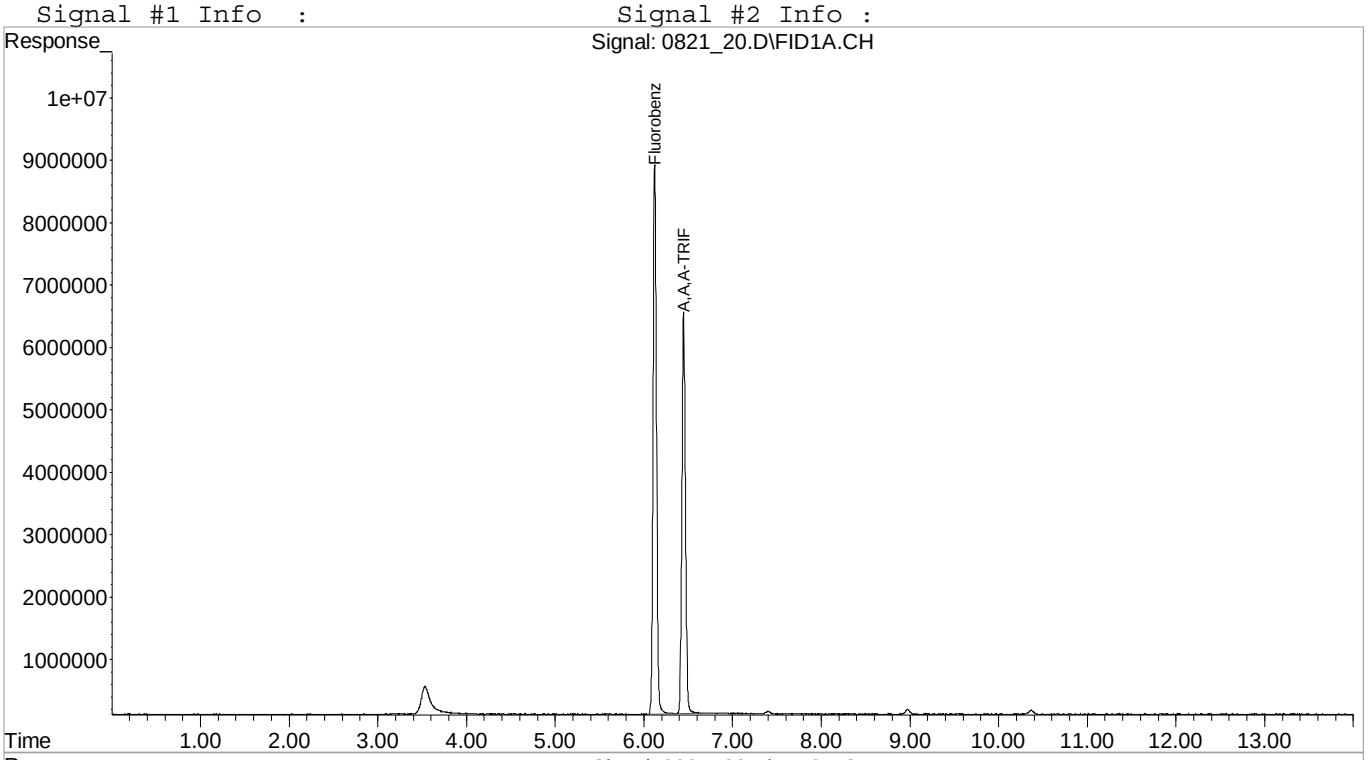
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.12	230204359	200.0000000	ppb
9) I Fluorobenzene #2	6.12	1022221436	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	6.45	176988175	204.7958117	ppb
Spiked Amount 200.0000 Range 59 - 128		Recovery	= 102.40%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	6.45	556182516	NoCal	ppb
Spiked Amount 200.0000 Range 54 - 144		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	8.96	11143	NoCal	ppm
3) H,M TPHG C5 - C12	8.96	47780008	N.D.	ppm
4) H,M TPHG C6 - C12	8.50	44533505	N.D.	ppm
5) H,M TPHGAK C6 to C10	8.50	33504439	N.D.	ppm
6) h,m TPH (GC/FID) Low Fraction	8.50	34861232	N.D.	ppm
11) T,M Methyl Tert-Butyl Ether	4.90	4713	NoCal	ppb
12) T,M benzene	6.02	312422	NoCal	ppb
13) T,M toluene	7.20	418109	NoCal	ppb
14) T,M ethylbenzene	8.19	179541	NoCal	ppb
15) T,M m&p-xylene	8.30	643576	NoCal	ppb
16) T,M o-xylene	8.57	200658	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	9.28	179122	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	9.55	666090	NoCal	ppb
19) T,M Naphthalene	11.49	26076	NoCal	ppb

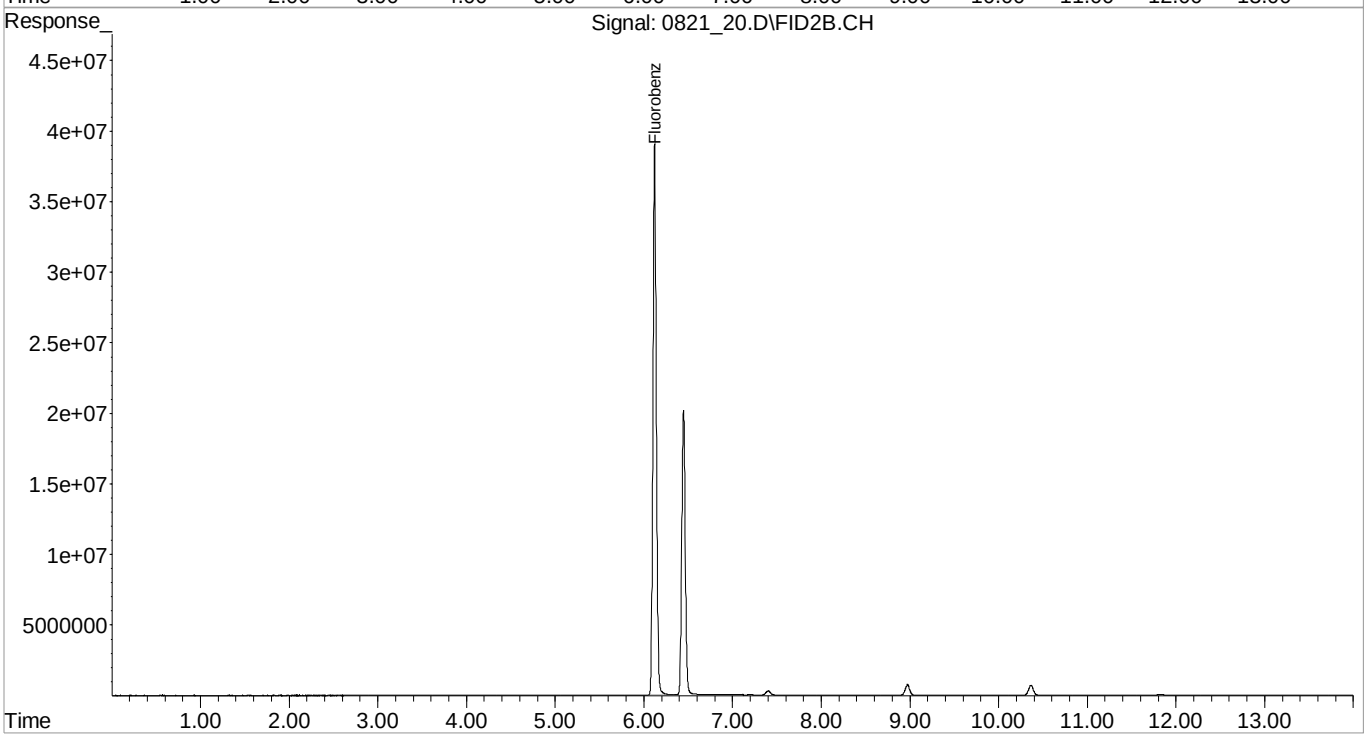
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\082114\0821 20.D\FID2B.CH
Acq On : 8-21-2014 06:06:05 AM Operator: 621
Sample : INSTBLK Inst : VOCGC12
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: EVENTS2.E
Quant Time: Aug 21 14:48 2014 Quant Results File: BG12H09N.RES

Quant Method : C:\MSDCHEM\1\METHODS\BG12H09N.M (Chemstation Integrator)
Title : BTEXM/GRO/WIS VOCGC12
Last Update : Mon Aug 11 12:45:27 2014
Response via : Single Level Calibration
DataAcq Meth : BTEX.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AK
Method	: BG07I09N	Review Method	: AK101

Data Released By: Ben Baker

10-SEP-2014 01:50:46 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Mint Miner 2.04 (80613) Directory Scan: z:\090914

10 Sep 2014 14:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_01.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_01.D\FID1A.CH					
0	Scanned		621	VOCGC7	INSTBLK BTEX (water ISSURR14C12923)
Scan File Path: z:\090914\0909_02.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_02.D\FID1A.CH					
0	Scanned		621	VOCGC7	RT MARKER (water ISSURR14C12923)
Scan File Path: z:\090914\0909_03.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_03.D\FID1A.CH					
0	Scanned		621	VOCGC7	ICV GRO (water ISSURR14C12923)
Scan File Path: z:\090914\0909_04.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_04.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	dnrICV (water ISSURR14C12923)
Scan File Path: z:\090914\0909_05.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_05.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_06.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_06.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_07.D					
Original Path: z:\090914\0909_07.D					
0	No Audit				
Scan File Path: z:\090914\0909_08.D					
Original Path: z:\090914\0909_08.D					
0	No Audit				
Scan File Path: z:\090914\0909_09.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_09.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .055 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_10.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_10.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .11 ppm 14I07115 (water ISSURR14(
Scan File Path: z:\090914\0909_11.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_11.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .55 ppm 14I07115 (water ISSURR14(

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_12.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_12.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 1.1 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_13.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_13.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 2.75 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_14.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_14.D\FID1A.CH					
35	Scanned	D(24), DK(4), DC(4), QM(1), ENR(1)	621	VOCGC7	STD GRO 5.5 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_15.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_15.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 11 ppm 14I07115 (water ISSURR14C
Scan File Path: z:\090914\0909_16.D					
Original Path: z:\090914\0909_16.D					
0	No Audit				
Scan File Path: z:\090914\0909_17.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_17.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	SSCV GRO 5.5 ppb 14I07117 (water ISSURR1
Scan File Path: z:\090914\0909_18.D					
Original Path: z:\090914\0909_18.D					
0	No Audit				
Scan File Path: z:\090914\0909_19.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_19.D\FID1A.CH					
0	Scanned		621	VOCGC7	BTEX .25 ppb LOD (water ISSURR14C12923)

D = Deletion of any analyte
DK = Deletion of a spike compound
QM = Processed >3 times using the same method
DC = Deletion of a CCC
EN = Quant report set to not reviewed (Disables MZ code)

ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

Distinct Method Last Updated count
Operators Intruments

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AZ
Method	: BG07I09N	Review Method	: GROAZ

Data Released By: Ben Baker

10-SEP-2014 01:50:47 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: IN
Method	: BG07I09N	Review Method	: 8015D

Data Released By: Ben Baker

10-SEP-2014 01:51:12 PM
Date

Analyst Comments:

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: SW846
Method	: BG07I09N	Review Method	: 8015-8021

Data Released By: Ben Baker

10-SEP-2014 01:51:28 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Instrument: VOCGC7
Method: BG07I09N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0821_04.D	0.5	8/21/2014 1:06:00 PM
0821_05.D	1	8/21/2014 1:31:00 PM
0821_06.D	5	8/21/2014 1:56:00 PM
0821_07.D	10	8/21/2014 2:21:00 PM
0821_08.D	25	8/21/2014 2:47:00 PM
0821_09.D	50	8/21/2014 3:12:00 PM
0821_10.D	100	8/21/2014 3:37:00 PM
0821_11.D	150	8/21/2014 4:02:00 PM
0821_12.D	200	8/21/2014 4:27:00 PM
0821_13.D	250	8/21/2014 4:52:00 PM
0909_09.D	.05G	9/9/2014 4:05:00 PM
0909_10.D	.11G	9/9/2014 4:30:00 PM
0909_11.D	.55G	9/9/2014 4:56:00 PM
0909_12.D	1.1G	9/9/2014 5:21:00 PM
0909_13.D	2.7G	9/9/2014 5:46:00 PM
0909_14.D	5.5G	9/9/2014 6:11:00 PM
0909_15.D	11G	9/9/2014 6:36:00 PM

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Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0821_04	STD BTEX .5 PPM 14G09861	BG07H21N						1	1	08/21/14 1306	"soil ISSURR14C12923"
2	0821_05	STD BTEX 1 PPM 14G09861	BG07H21N						1	1	08/21/14 1331	"soil ISSURR14C12923"
3	0821_06	STD BTEX 5 PPM 14G09861	BG07H21N						1	1	08/21/14 1356	"soil ISSURR14C12923"
4	0821_07	STD BTEX 10 PPM 14G09861	BG07H21N						1	1	08/21/14 1421	"soil ISSURR14C12923"
5	0821_08	STD BTEX 25 PPM 14G09861	BG07H21N						1	1	08/21/14 1447	"soil ISSURR14C12923"
6	0821_09	MSTD BTEX 50 PPM 14G09861	BG07H21N						1	1	08/21/14 1512	"soil ISSURR14C12923"
7	0821_10	STD BTEX 100 PPM 14G09861	BG07H21N						1	1	08/21/14 1537	"water ISSURR14C12923"
8	0821_11	STD BTEX 150 PPM 14G09861	BG07H21N						1	50	08/21/14 1602	"water ISSURR14C12923"
9	0821_12	STD BTEX 200 PPM 14G09861	BG07H21N						1	5	08/21/14 1627	"water ISSURR14C12923"
10	0821_13	STD BTEX 250 PPM 14G09861	BG07H21N						1	1	08/21/14 1652	"water ISSURR14C12923"
11	0821_15	SSCV BTEX 50 PPM 14G09864	BG07H21N						1	1	08/21/14 1743	"water ISSURR14C12923"
12	0909_01	INSTBLK	BG07I09N						1	1	09/09/14 0809	"water ISSURR14C12923"
13	0909_09	STD GRO .055 PPM 14I07115	BG07I09N						1	1	09/09/14 1605	"water ISSURR14C12923"

Environmental Science Corporation
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Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	0909_10	STD GRO .11 PPM 14I07115	BG07I09N						1	1	09/09/14 1630	"water ISSURR14C12923"
15	0909_11	STD GRO .55 PPM 14I07115	BG07I09N						1	1	09/09/14 1656	"water ISSURR14C12923"
16	0909_12	STD GRO 1.1 PPM 14I07115	BG07I09N						1	1	09/09/14 1721	"water ISSURR14C12923"
17	0909_13	STD GRO 2.75 PPM 14I07115	BG07I09N						1	1	09/09/14 1746	"water ISSURR14C12923"
18	0909_14	MSTD GRO 5.5G PPM 14I07115	BG07I09N						1	1	09/09/14 1811	"water ISSURR14C12923"
19	0909_15	STD GRO 11 PPM 14I07115	BG07I09N						1	1	09/09/14 1836	"water ISSURR14C12923"
20	0909_17	SSCV GRO 5.5G PPM 14I07117	BG07I09N						1	1	09/09/14 1926	"water ISSURR14C12923"

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: AK101	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AK	Released On	: 9/10/2014 1:51:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/30/2014 By: Ben Baker

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AZ	Released On	: 9/10/2014 1:50:47 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: IN	Released On	: 9/10/2014 1:51:12 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: SW846	Released On	: 9/10/2014 1:51:28 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

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Manual Integrations - Audit Trail

Instrument ID	: VOCGC7	Method	: BG07I09N
Released By	: Ben Baker	Review Method	: AK101
Released On	: 9/10/2014 1:52:01 PM	Review Protocol	: AK

File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.
0821_04.D	0.5	Methyl Tert-Butyl Ether	0ppb	0.485678ppb	0	12776.6
0821_04.D	0.5	ethylbenzene	0.507654ppb	0.513322ppb	41477.1	41940.2
0821_05.D	1	Methyl Tert-Butyl Ether	0ppb	1.06891ppb	0	29819.4
0821_05.D	1	ethylbenzene	0.959835ppb	0.938592ppb	83162.8	81322.3
0821_05.D	1	o-xylene	0.919883ppb	0.930151ppb	79308.5	80193.8
0821_06.D	5	Methyl Tert-Butyl Ether	5.24632ppb	5.16658ppb	147748	145502

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IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0821_09	Tune File ID	:
Run ID	: 082114	CCV Analyzed At	: 08/21/14 1512	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)									
0821_04	STD BTEX .5 PPM 14G09861	1			0	0	102									
0821_05	STD BTEX 1 PPM 14G09861	1			0	0	103									
0821_06	STD BTEX 5 PPM 14G09861	1			0	0	104									
0821_07	STD BTEX 10 PPM 14G09861	1			0	0	104									
0821_08	STD BTEX 25 PPM 14G09861	1			0	0	105									
0821_09	MSTD BTEX 50 PPM 14G09861	1			0	0	105									
0821_10	STD BTEX 100 PPM 14G09861	1			0	0	105									
0821_11	STD BTEX 150 PPM 14G09861	1			0	0	106									
0821_12	STD BTEX 200 PPM 14G09861	1			0	0	106									
0821_13	STD BTEX 250 PPM 14G09861	1			0	0	107									
SECOND COLUMN																
0821_04	STD BTEX .5 PPM 14G09861	1			1.169328E+07	0	102									
0821_05	STD BTEX 1 PPM 14G09861	1			1.240021E+07	0	103									
0821_06	STD BTEX 5 PPM 14G09861	1			1.251803E+07	0	104									
0821_07	STD BTEX 10 PPM 14G09861	1			1.256142E+07	0	104									
0821_08	STD BTEX 25 PPM 14G09861	1			1.25999E+07	0	105									
0821_09	MSTD BTEX 50 PPM 14G09861	1			1.273018E+07	0	105									
0821_10	STD BTEX 100 PPM 14G09861	1			1.17258E+07	0	105									

IS - SURROGATE SUMMARY REPORT

0821_11	STD BTEX 150 PPM 14G09861	1			1.27986E+07	0	106										
0821_12	STD BTEX 200 PPM 14G09861	1			1.28488E+07	0	106										
0821_13	STD BTEX 250 PPM 14G09861	1			1.263624E+07	0	107										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0909_14	Tune File ID	:
Run ID	: 090914	CCV Analyzed At	: 09/09/14 1811	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
0909_09	STD GRO .055 PPM 14I07115	1			1.96911E+07	89.8	0										
0909_10	STD GRO .11 PPM 14I07115	1			1.733154E+07	90.2	0										
0909_11	STD GRO .55 PPM 14I07115	1			2.046293E+07	90.2	0										
0909_12	STD GRO 1.1 PPM 14I07115	1			1.943094E+07	93.6	0										
0909_13	STD GRO 2.75 PPM 14I07115	1			2.051831E+07	97.5	0										
0909_14	MSTD GRO 5.5G PPM 14I07115	1			2.071404E+07	105	0										
0909_15	STD GRO 11 PPM 14I07115	1			2.056704E+07	119	0										
SECOND COLUMN																	
0909_09	STD GRO .055 PPM 14I07115	1			0	0	0										
0909_10	STD GRO .11 PPM 14I07115	1			0	0	0										
0909_11	STD GRO .55 PPM 14I07115	1			0	0	0										
0909_12	STD GRO 1.1 PPM 14I07115	1			0	0	0										
0909_13	STD GRO 2.75 PPM 14I07115	1			0	0	0										
0909_14	MSTD GRO 5.5G PPM 14I07115	1			0	0	0										
0909_15	STD GRO 11 PPM 14I07115	1			0	0	0										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

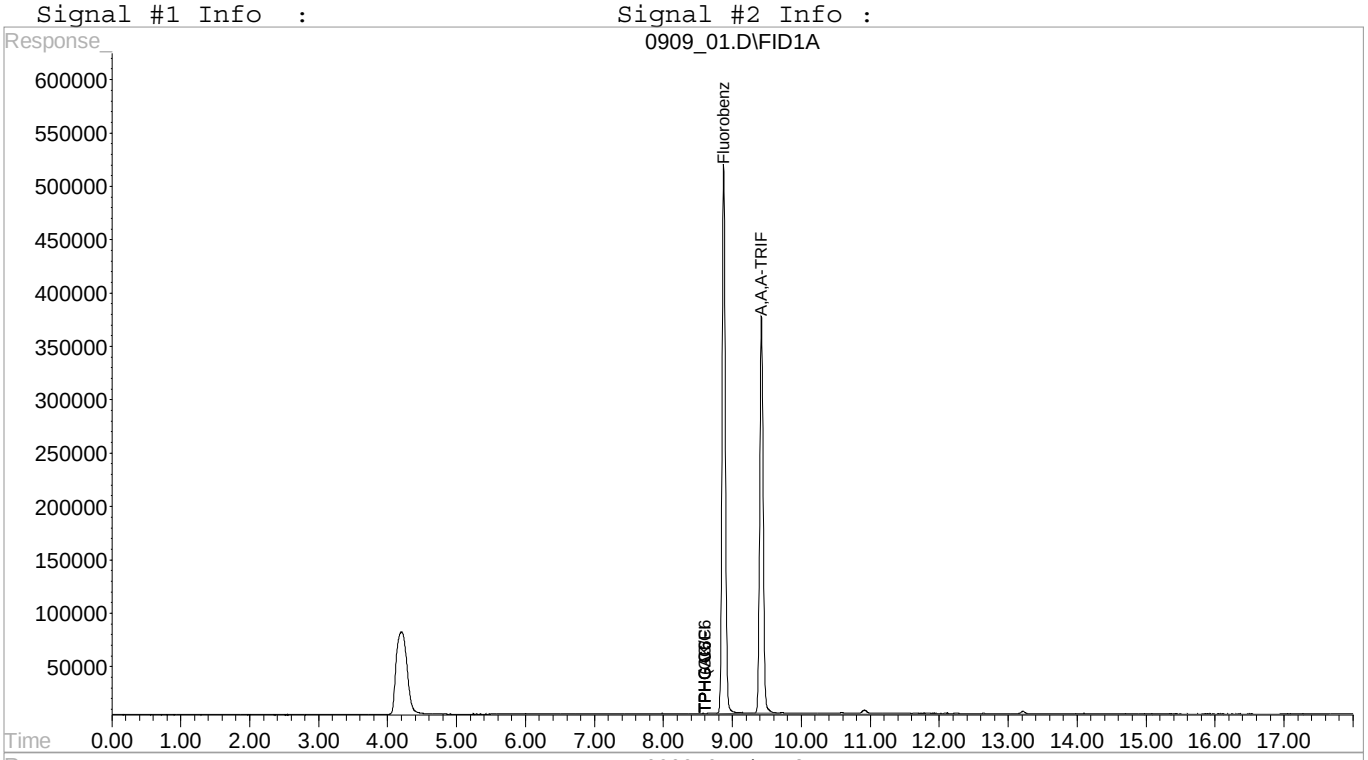
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9)	I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	98.15%		
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4)	H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5)	H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11)	T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12)	T,M benzene	0.00	0	N.D.	ppb
13)	T,M toluene	0.00	0	N.D.	ppb
14)	T,M ethylbenzene	0.00	0	N.D.	ppb
15)	T,M m&p-xylene	12.25	17032	NoCal	ppb
16)	T,M o-xylene	0.00	0	N.D.	ppb
17)	T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18)	T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19)	T,M Naphthalene	0.00	0	N.D.	ppb

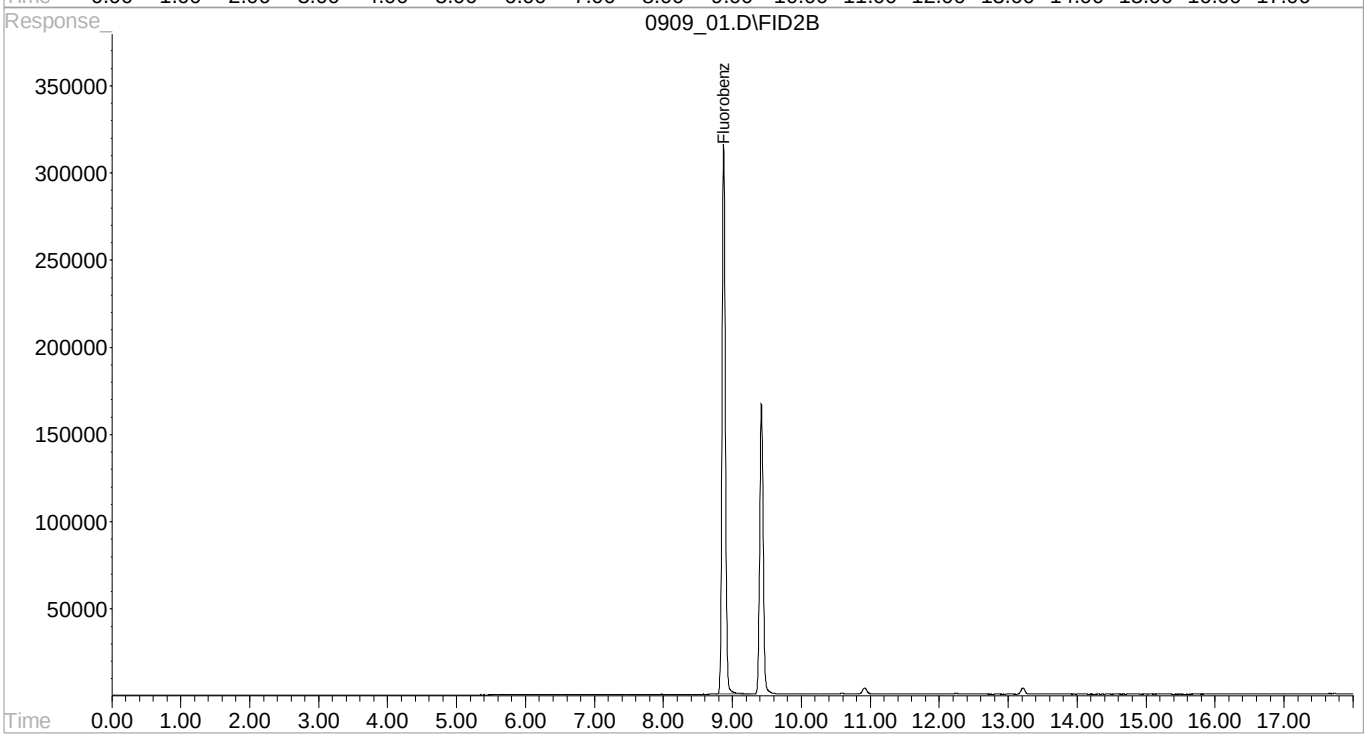
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

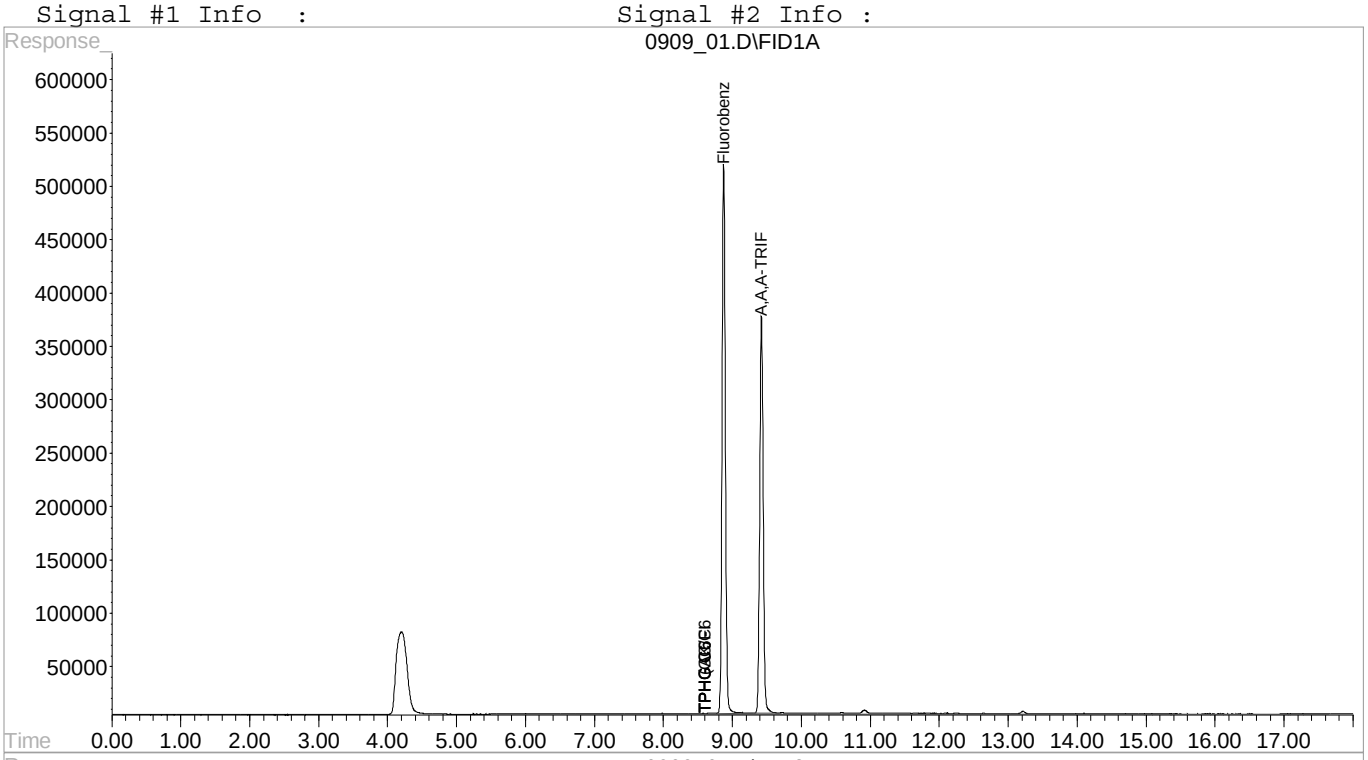
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

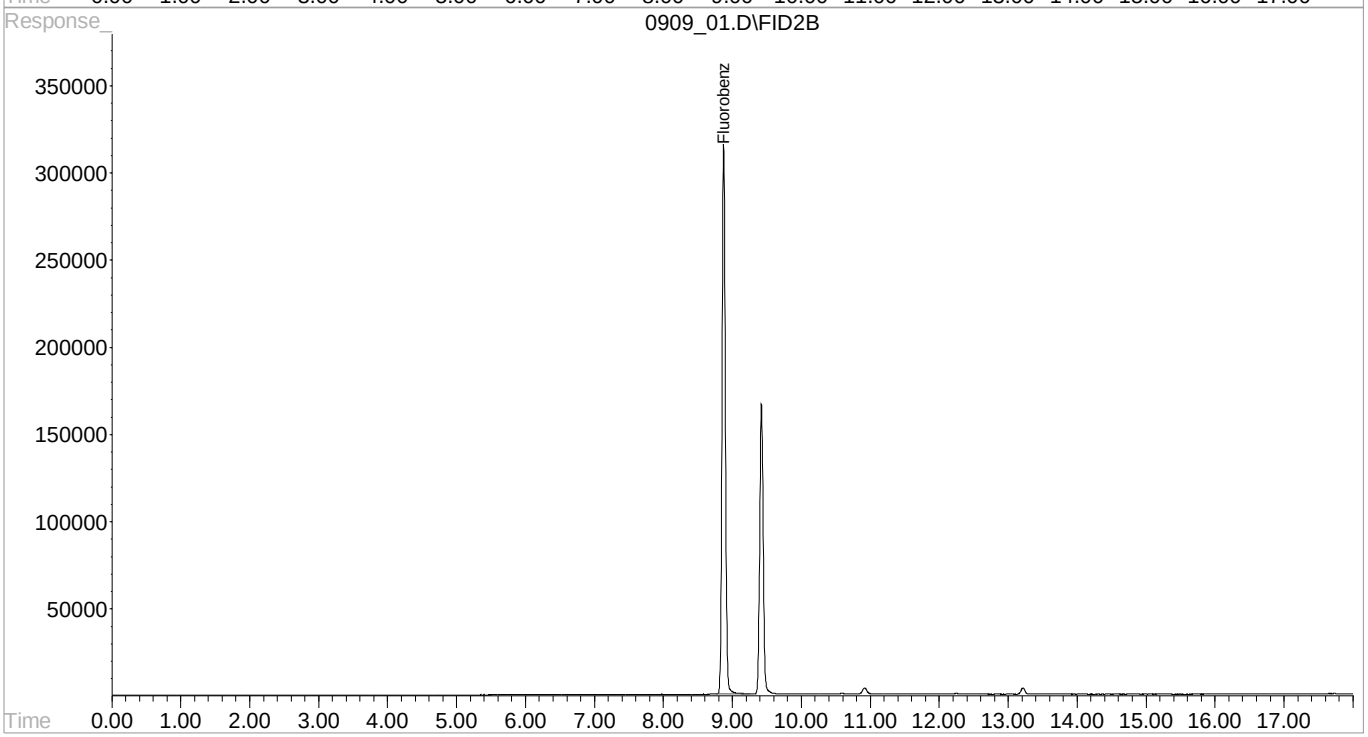
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH   Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On    :  9 Sep 2014   8:09 am                    Operator: 621
Sample    : INSTBLK BTEX                             Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

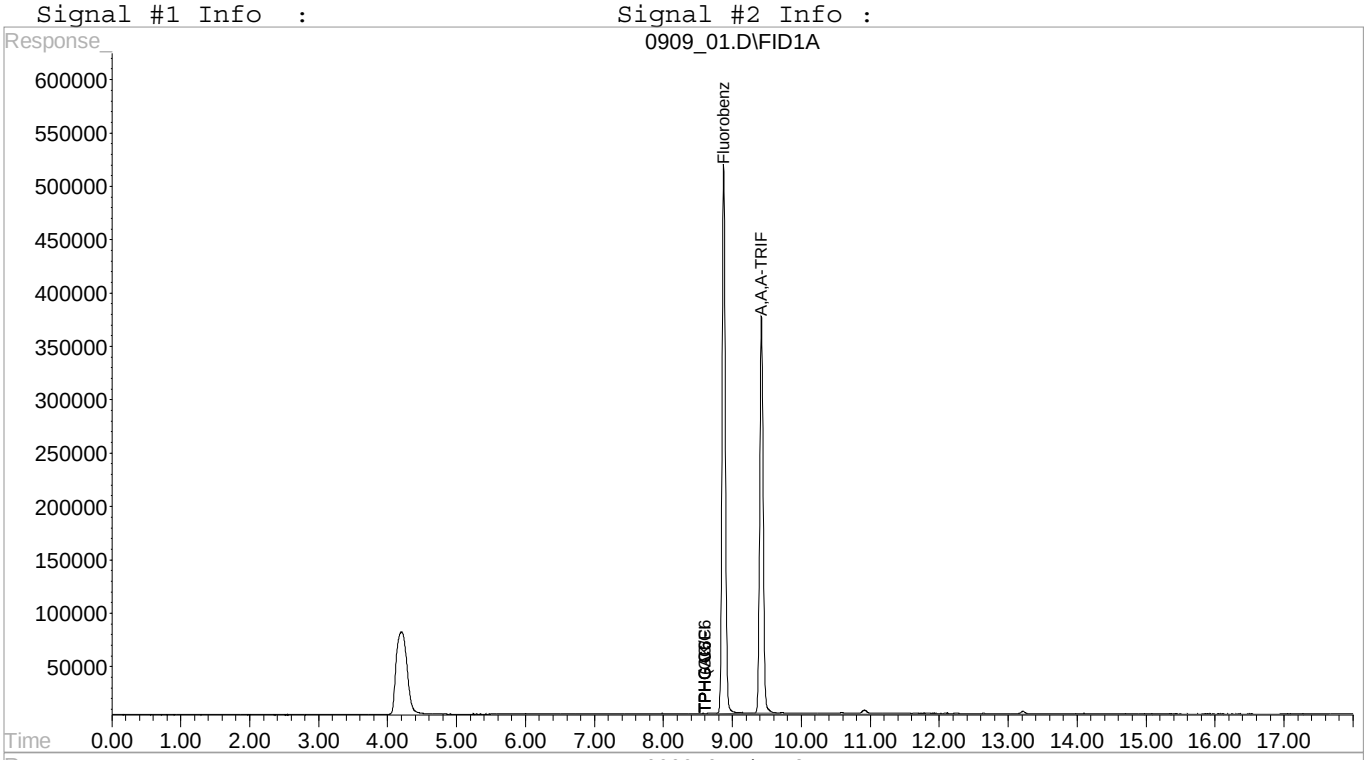
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

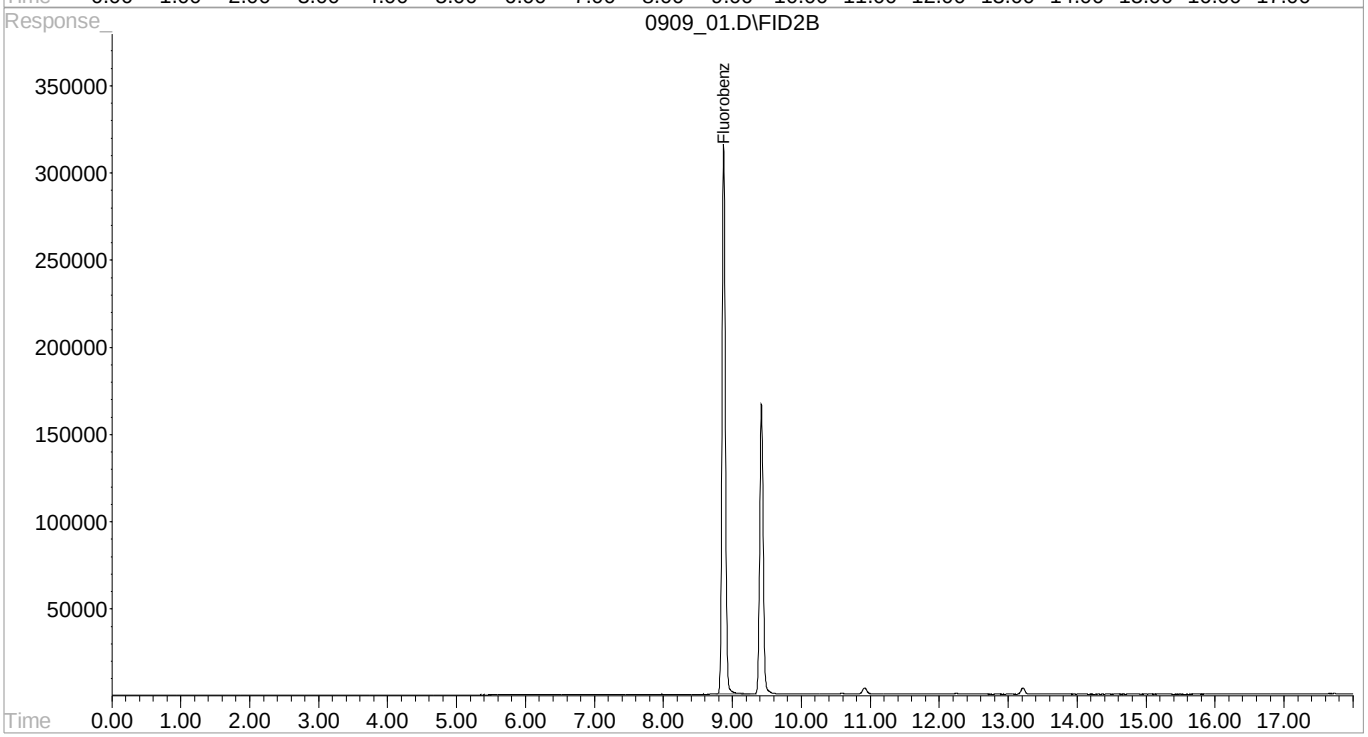
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: AK101
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AK

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	75	125
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	75	125
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	75	125
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	75	125
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: GROAZ
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AZ

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015D
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: IN

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015-8021
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

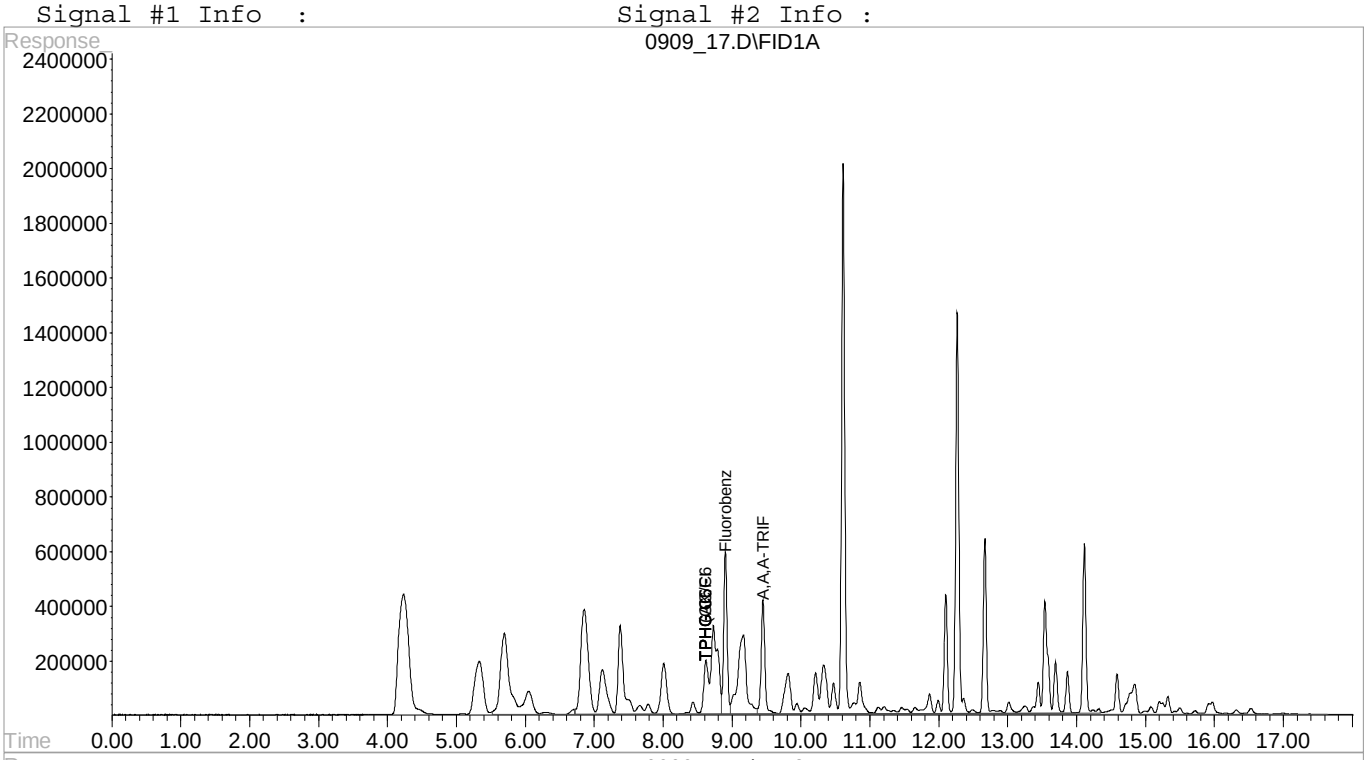
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9) I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 102.32%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4) H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5) H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12) T,M benzene	8.73	8703686	NoCal	ppb
13) T,M toluene	10.61	42528536	NoCal	ppb
14) T,M ethylbenzene	12.10	8946644	NoCal	ppb
15) T,M m&p-xylene	12.27	34567673	NoCal	ppb
16) T,M o-xylene	12.67	12572210	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19) T,M Naphthalene	17.38	65355	NoCal	ppb

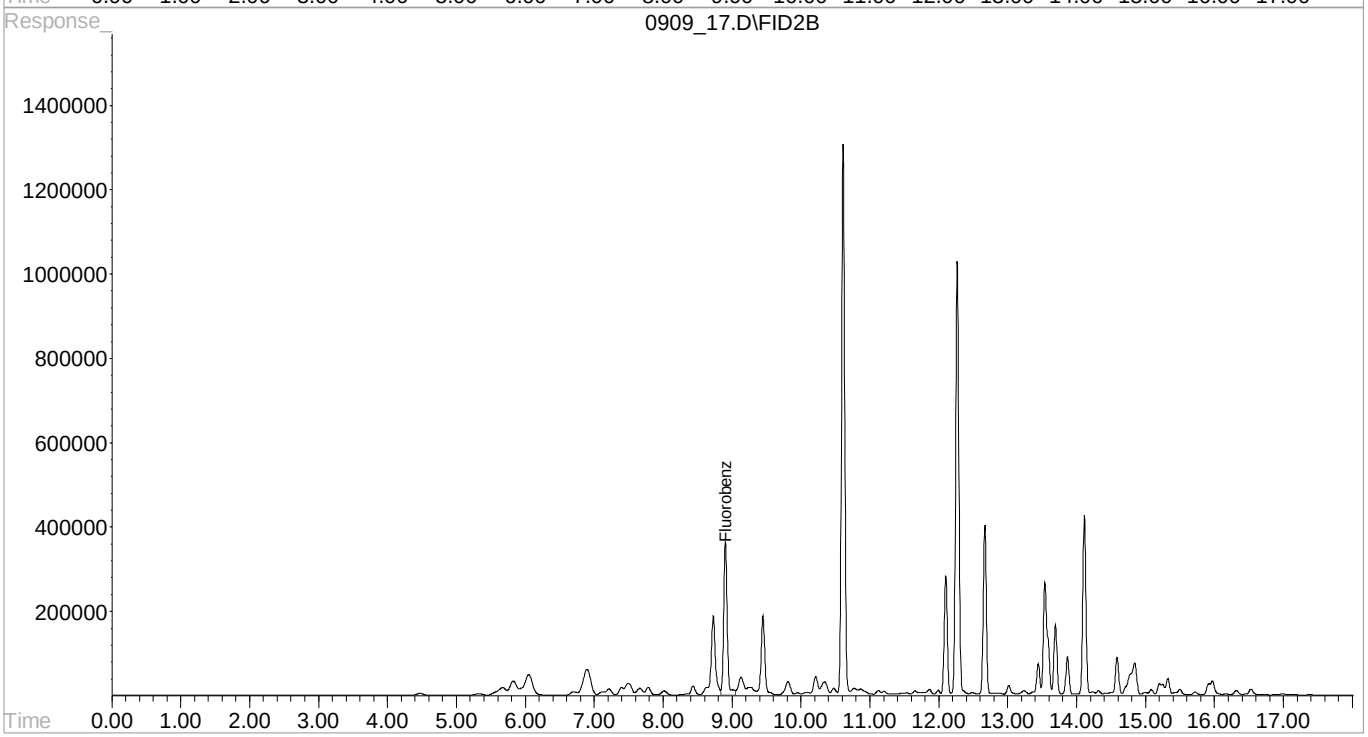
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

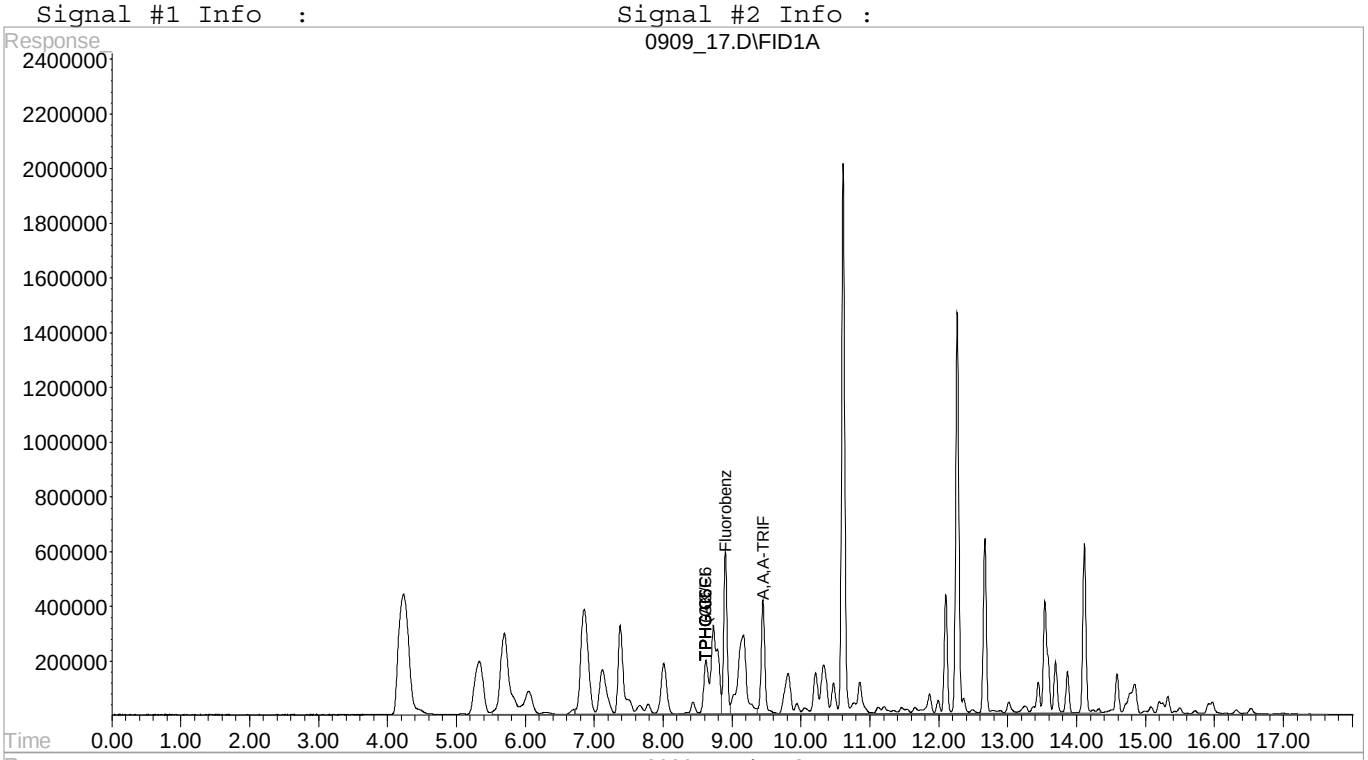
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9) I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 102.32%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4) H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5) H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12) T,M benzene	8.73	8703686	NoCal	ppb
13) T,M toluene	10.61	42528536	NoCal	ppb
14) T,M ethylbenzene	12.10	8946644	NoCal	ppb
15) T,M m&p-xylene	12.27	34567673	NoCal	ppb
16) T,M o-xylene	12.67	12572210	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19) T,M Naphthalene	17.38	65355	NoCal	ppb

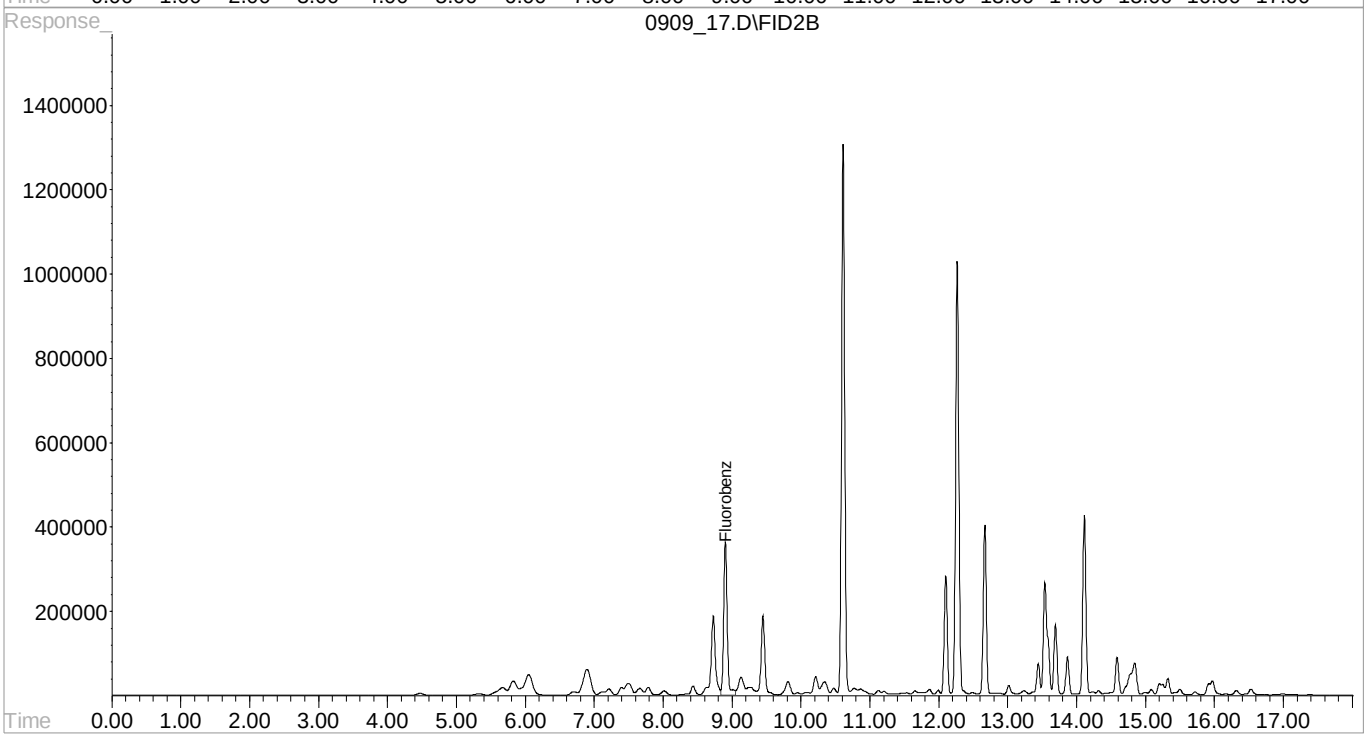
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

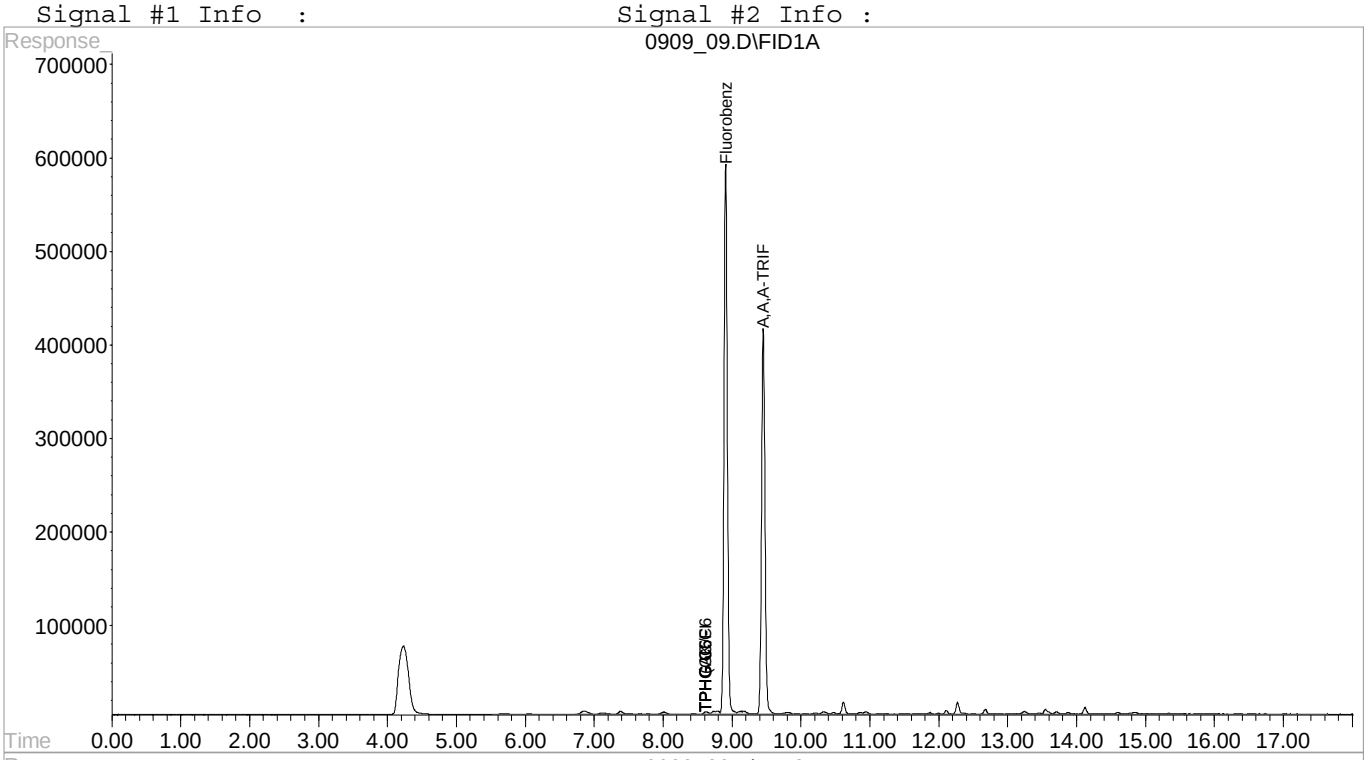
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9)	I Fluorobenzene #2	8.91	12285196	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	89.81%		
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6596296	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4)	H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5)	H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11)	T,M Methyl Tert-Butyl Ether	6.90	68943	NoCal	ppb
12)	T,M benzene	8.73	65727	NoCal	ppb
13)	T,M toluene	10.62	312850	NoCal	ppb
14)	T,M ethylbenzene	12.11	85102	NoCal	ppb
15)	T,M m&p-xylene	12.27	343149	NoCal	ppb
16)	T,M o-xylene	12.68	114194	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.70	73904	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.12	167724	NoCal	ppb
19)	T,M Naphthalene	0.00	0	N.D.	ppb

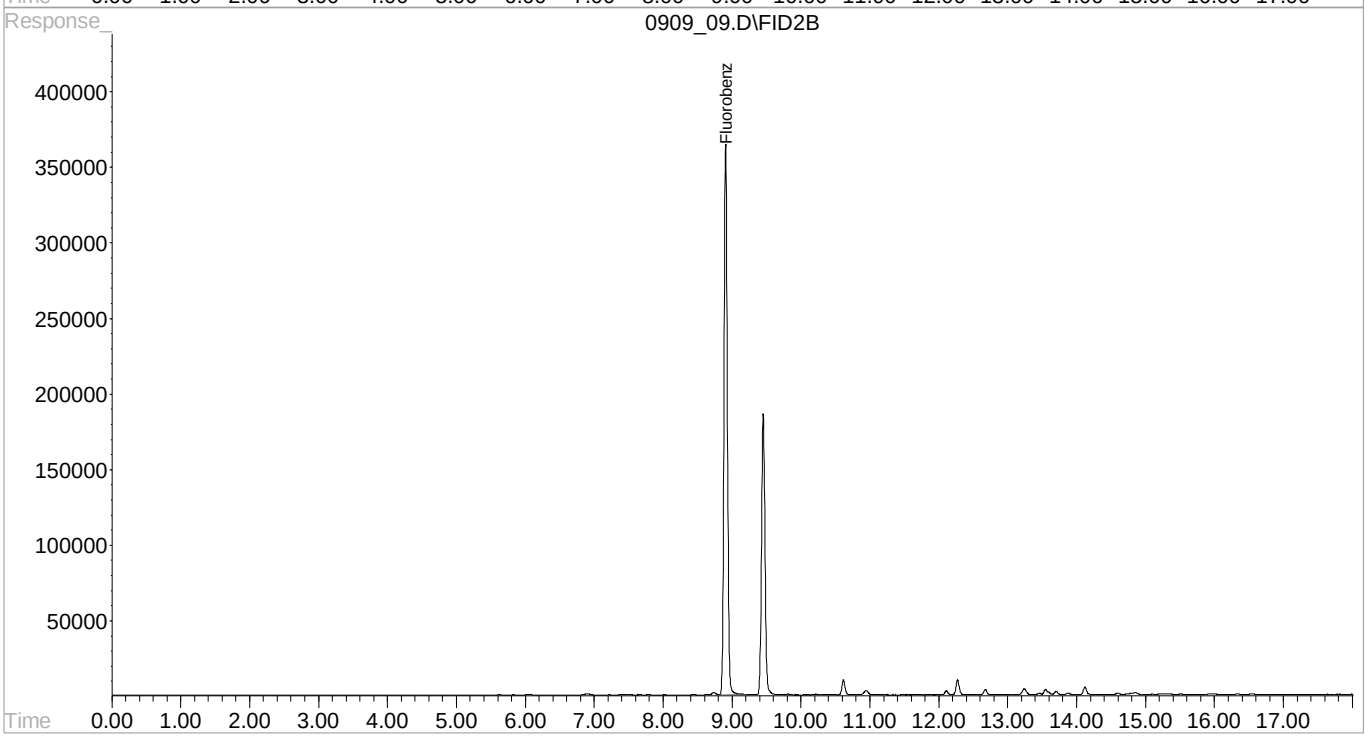
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

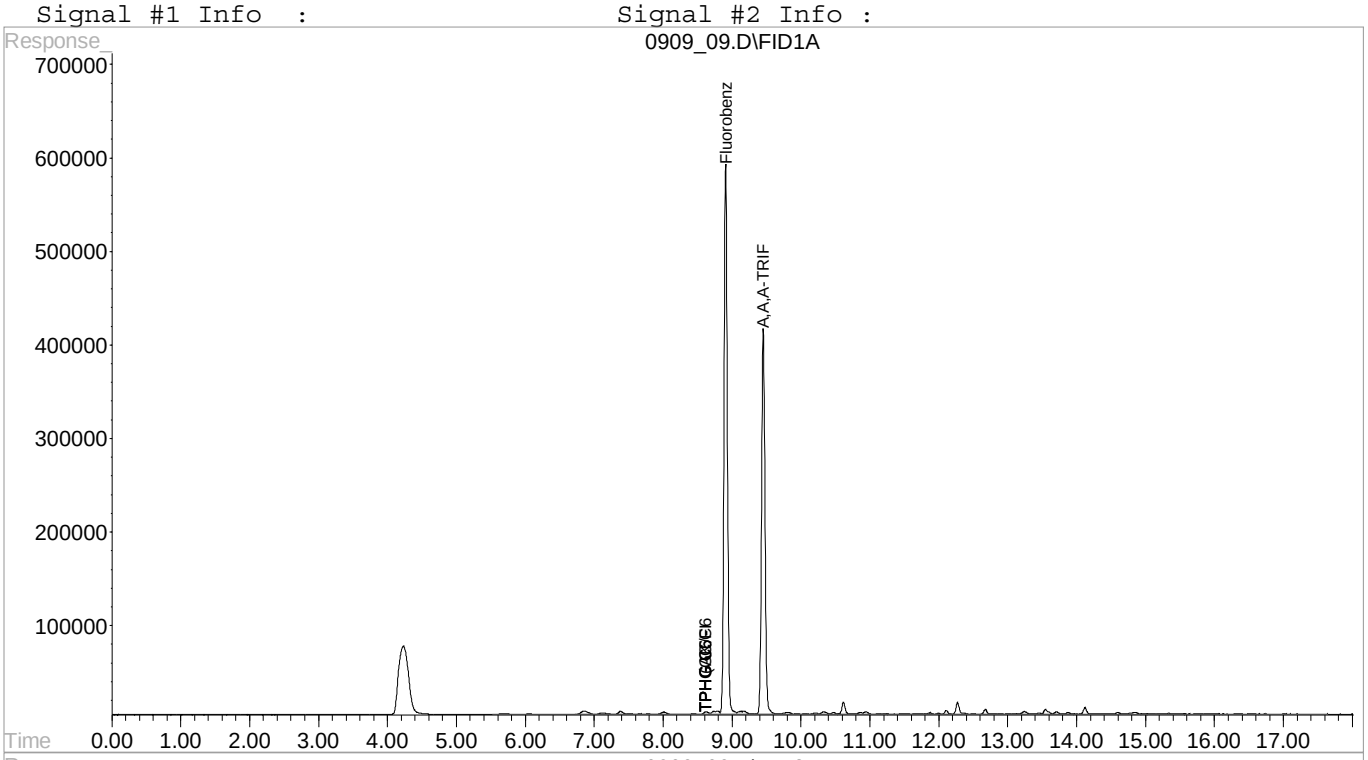
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	89.81%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4) H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5) H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

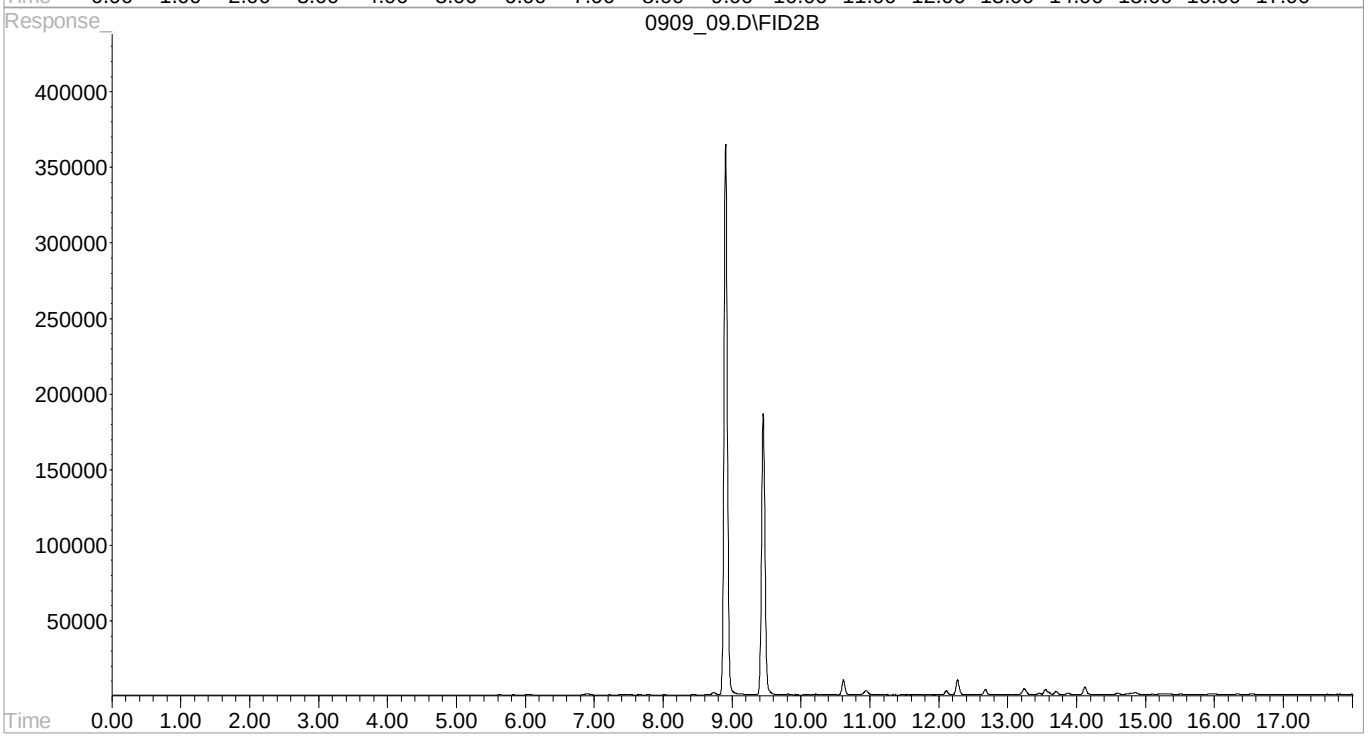
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

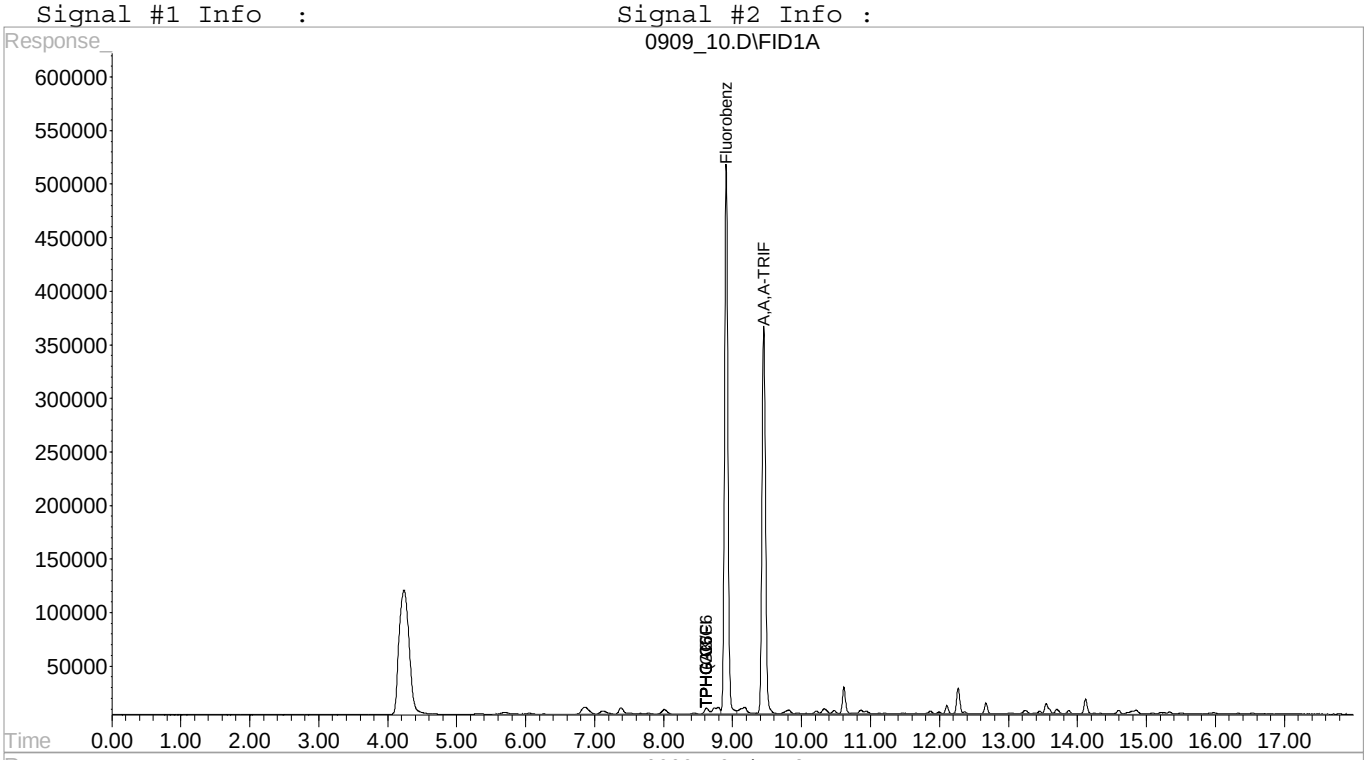
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	17331539	200.0000000	ppb
9) I Fluorobenzene #2	8.91	10810428	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 90.22%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	5875285	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	21953	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	10559095	0.1407826	ppm
4) H,M TPHG C6 - C12	8.61	10243185	0.1402930	ppm
5) H,M TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	119936	NoCal	ppb
12) T,M benzene	8.73	137238	NoCal	ppb
13) T,M toluene	10.62	609704	NoCal	ppb
14) T,M ethylbenzene	12.11	161331	NoCal	ppb
15) T,M m&p-xylene	12.27	646286	NoCal	ppb
16) T,M o-xylene	12.67	218279	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	133896	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	330372	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

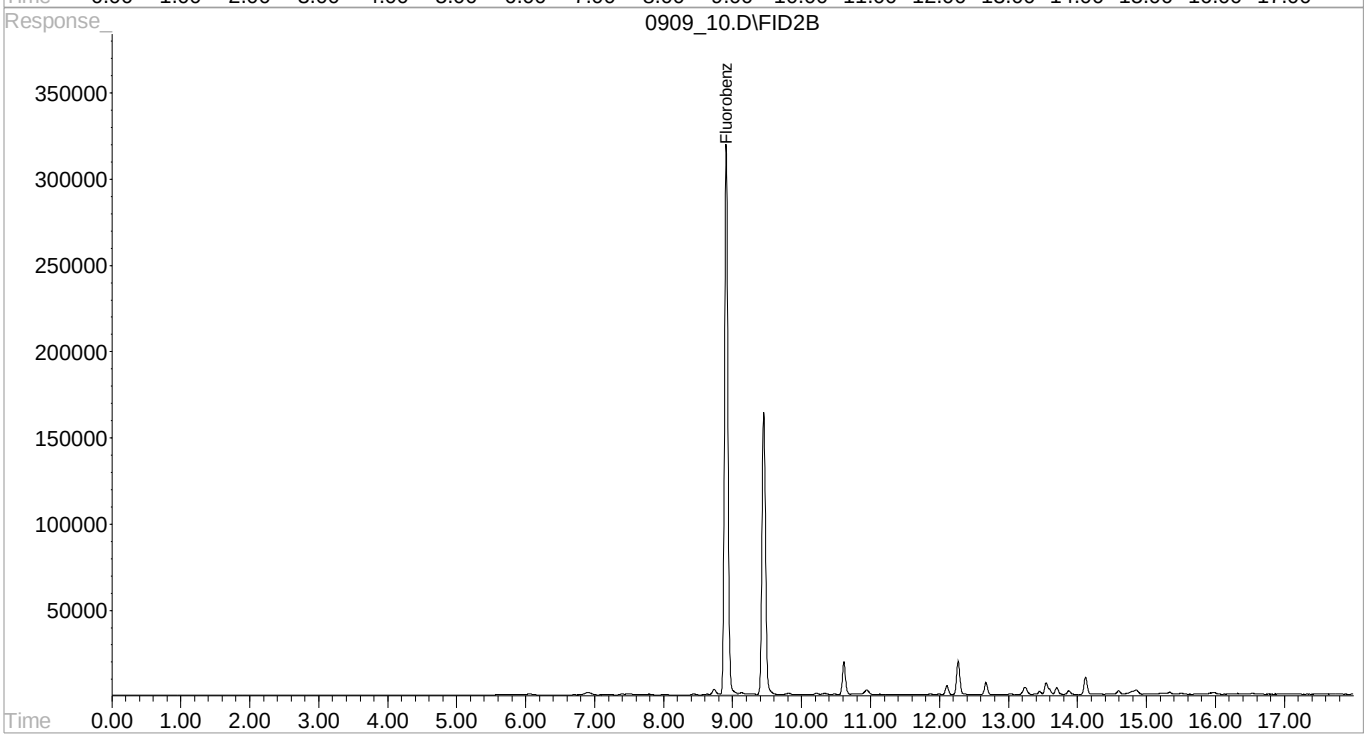
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH   Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On    :  9 Sep 2014   4:30 pm                    Operator: 621
Sample    : STD GRO .11 ppm 14I07115                 Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

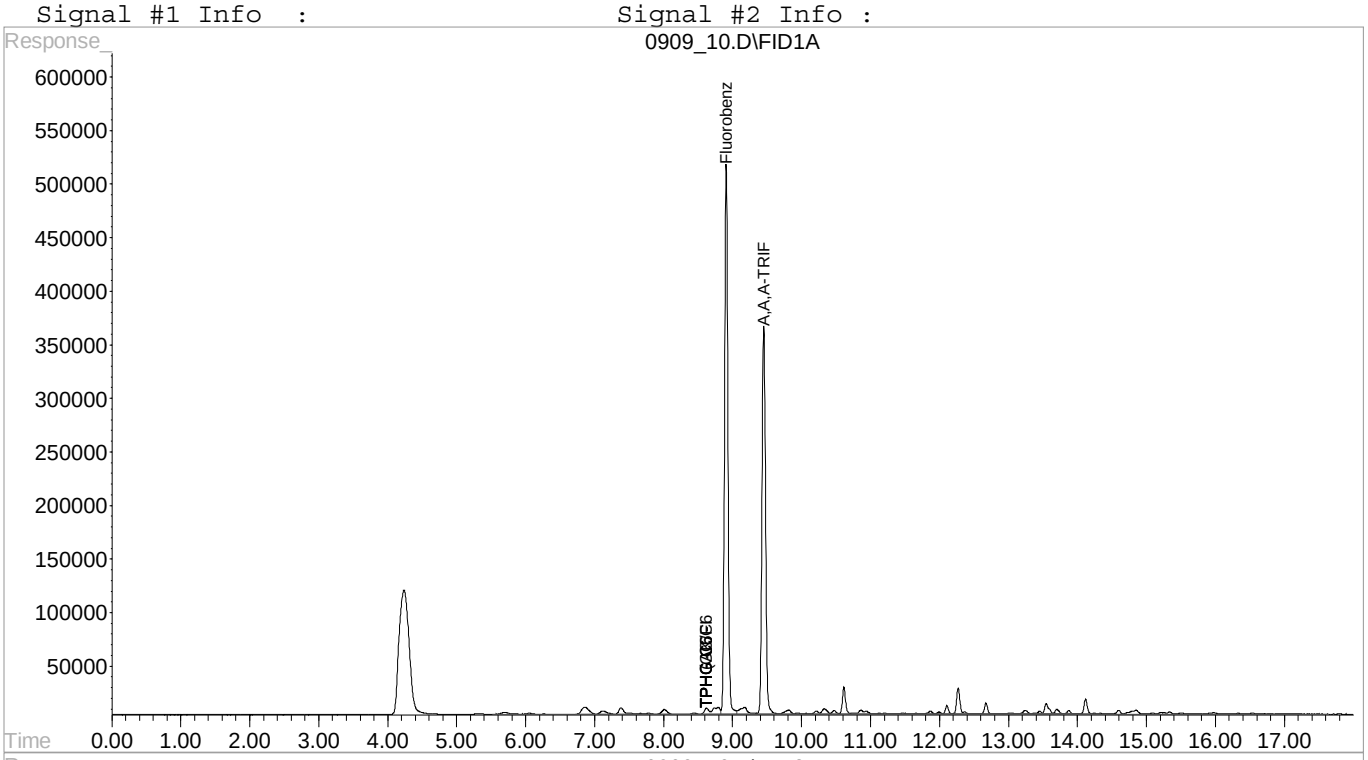
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	17331539	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	90.22%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	21953	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	10559095	0.1407826	ppm
4) H,M TPHG C6 - C12	8.61	10243185	0.1402930	ppm
5) H,M TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

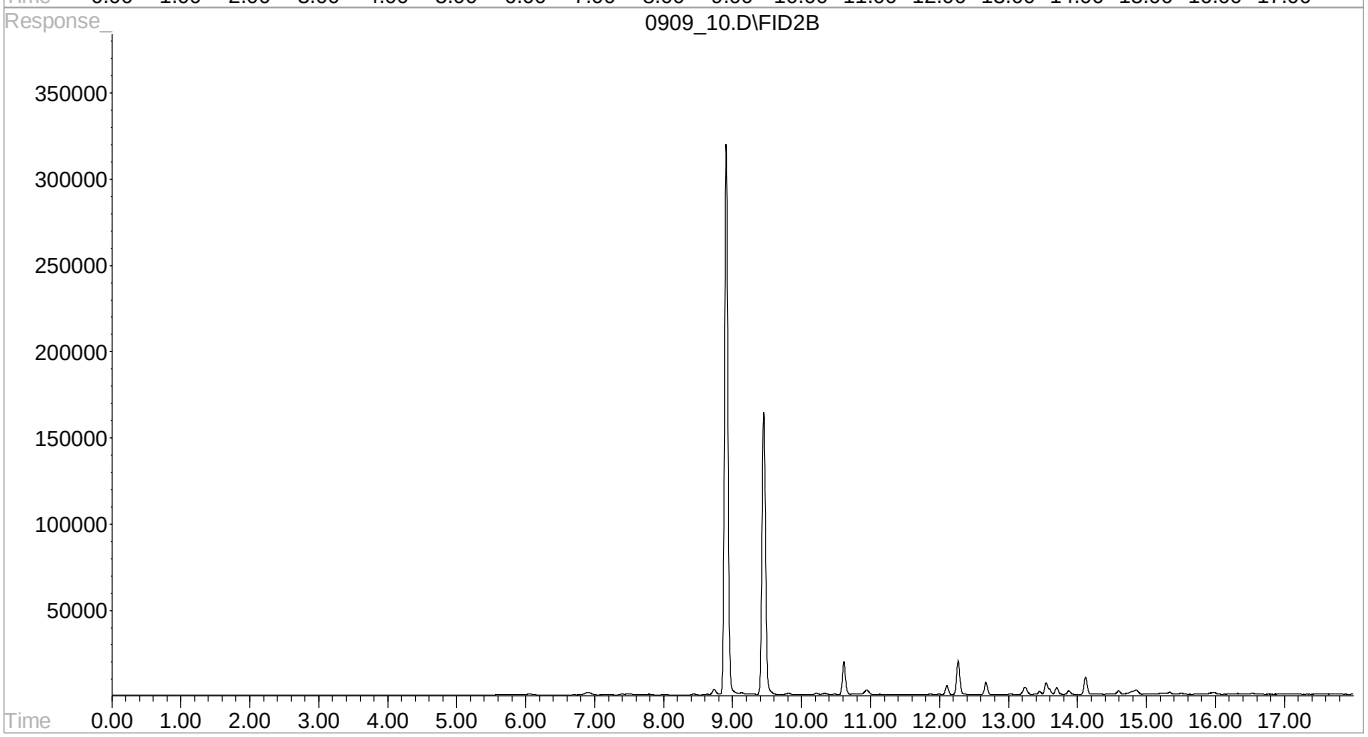
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

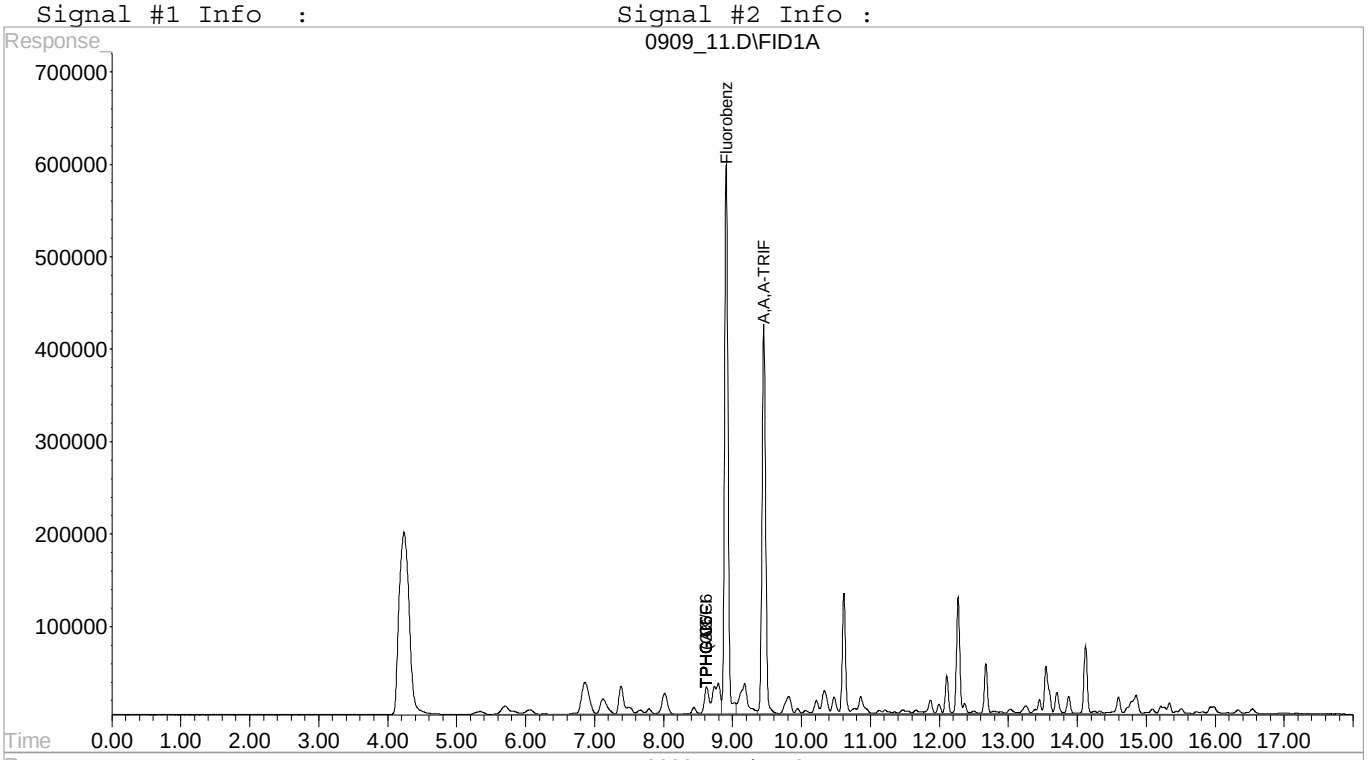
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12578118	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 90.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6919517	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	578168	NoCal	ppb
12) T,M benzene	8.74	729580	NoCal	ppb
13) T,M toluene	10.62	3100743	NoCal	ppb
14) T,M ethylbenzene	12.11	874442	NoCal	ppb
15) T,M m&p-xylene	12.27	3324206	NoCal	ppb
16) T,M o-xylene	12.67	1141668	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	686617	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	1752731	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

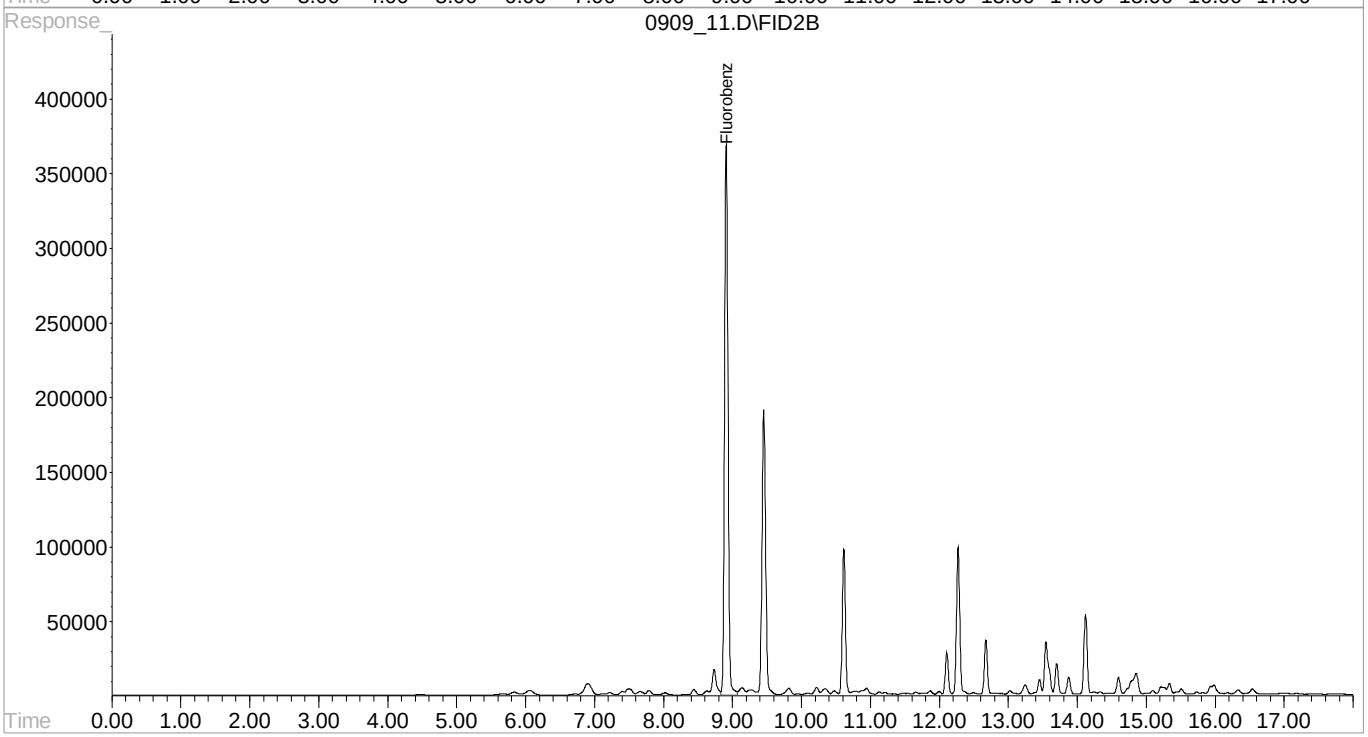
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On    :  9 Sep 2014   4:56 pm                    Operator: 621
Sample    : STD GRO .55 ppm 14I07115                 Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

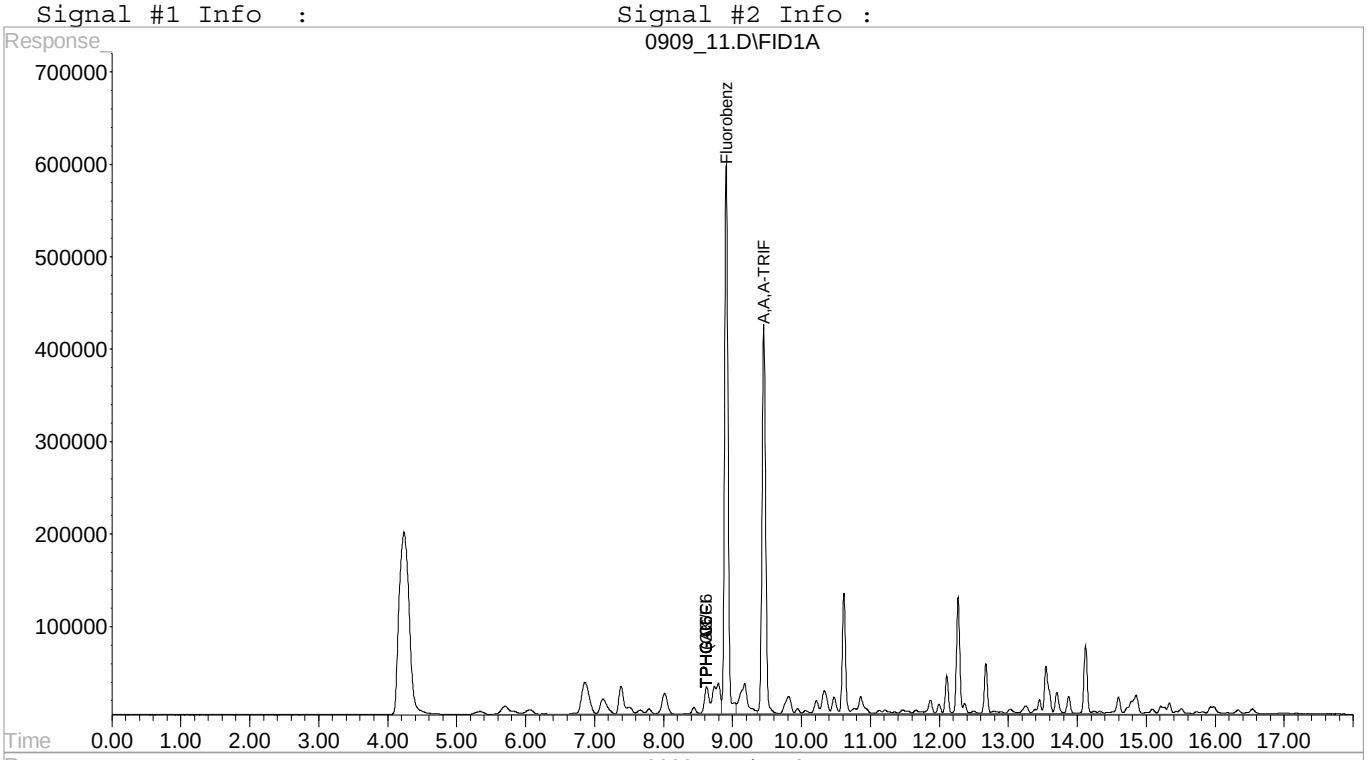
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	90.15%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

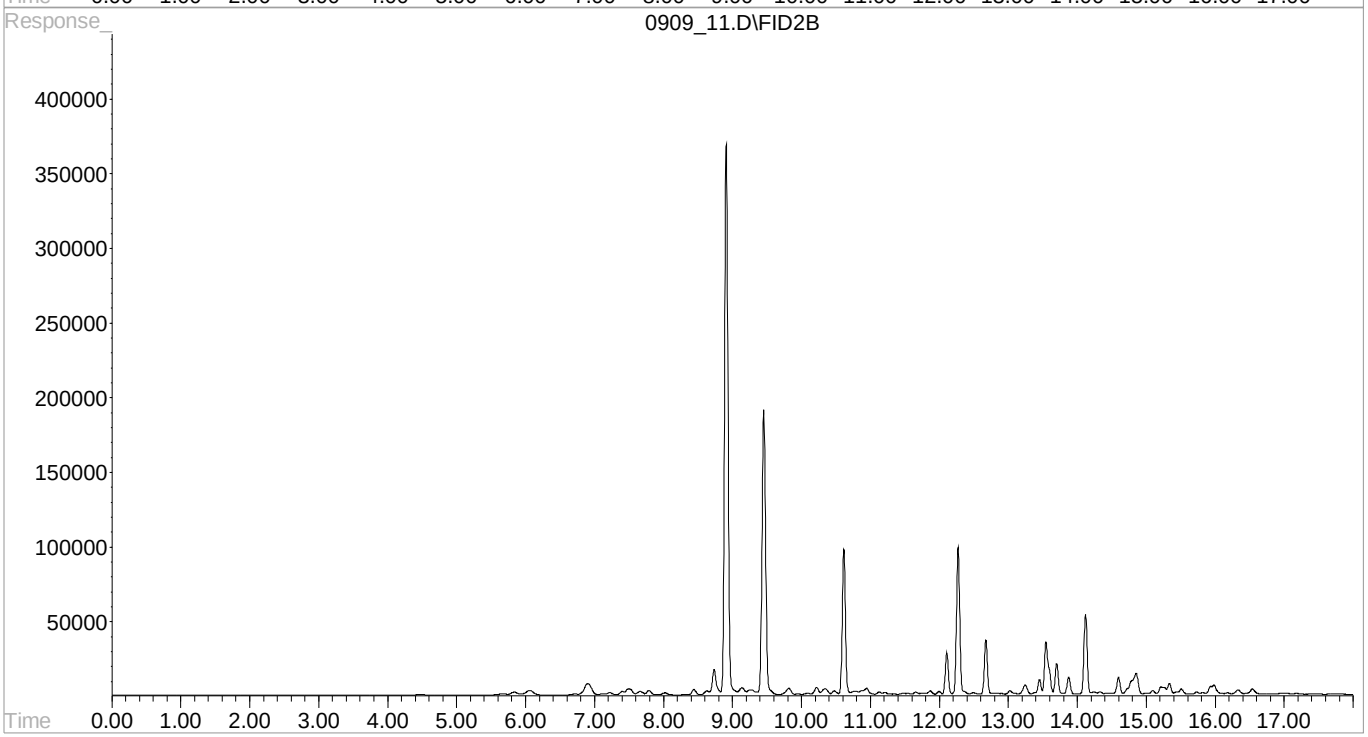
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

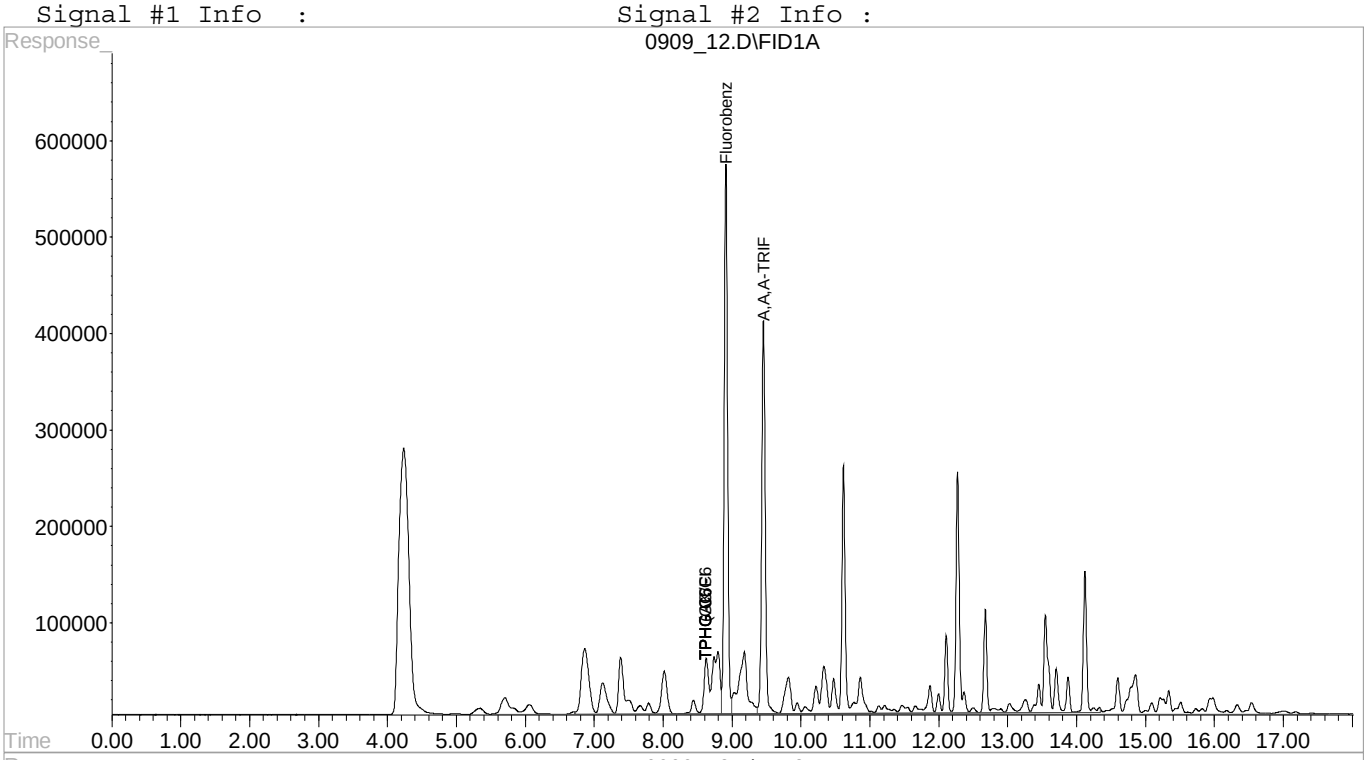
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12201521	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 93.60%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6813366	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	25178	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4) H,M TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5) H,M TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	1137356	NoCal	ppb
12) T,M benzene	8.74	1440217	NoCal	ppb
13) T,M toluene	10.62	6038749	NoCal	ppb
14) T,M ethylbenzene	12.11	1726469	NoCal	ppb
15) T,M m&p-xylene	12.27	6509973	NoCal	ppb
16) T,M o-xylene	12.68	2242694	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	1350723	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	3498566	NoCal	ppb
19) T,M Naphthalene	17.40	38980	NoCal	ppb

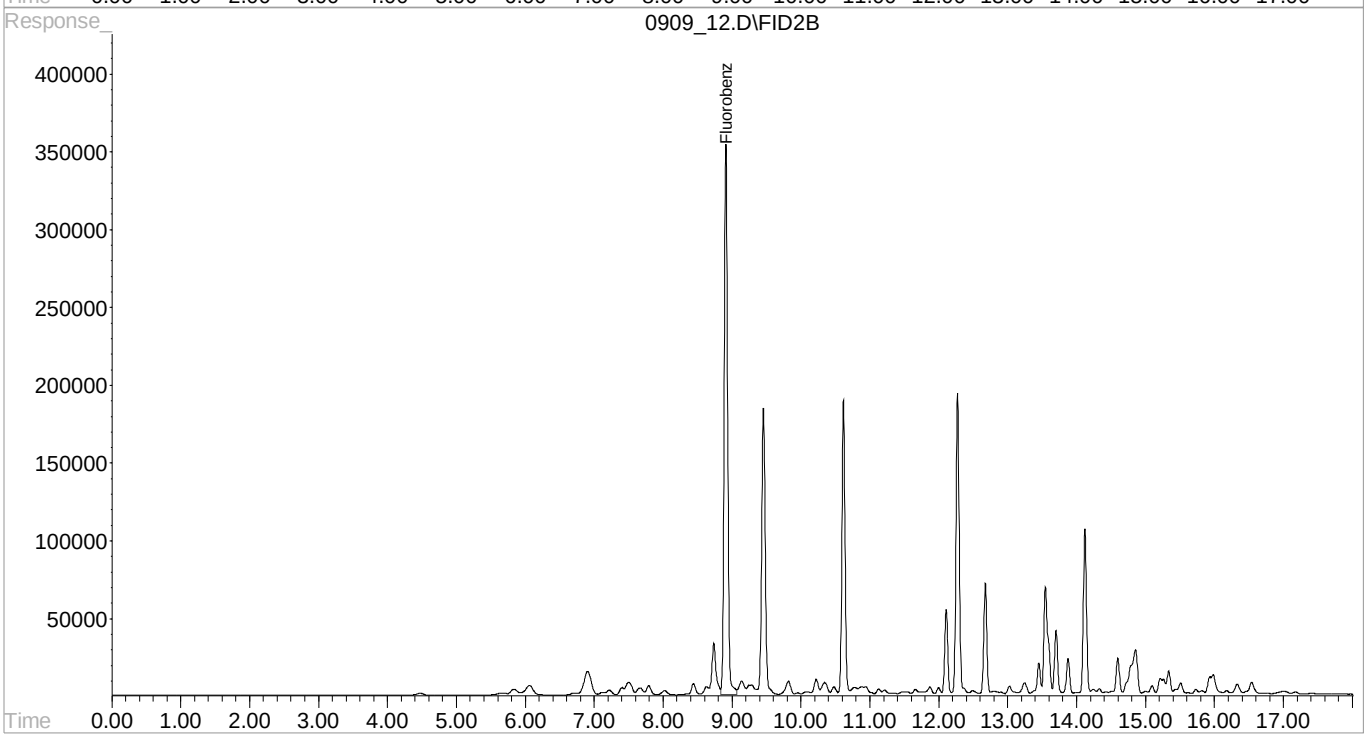
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

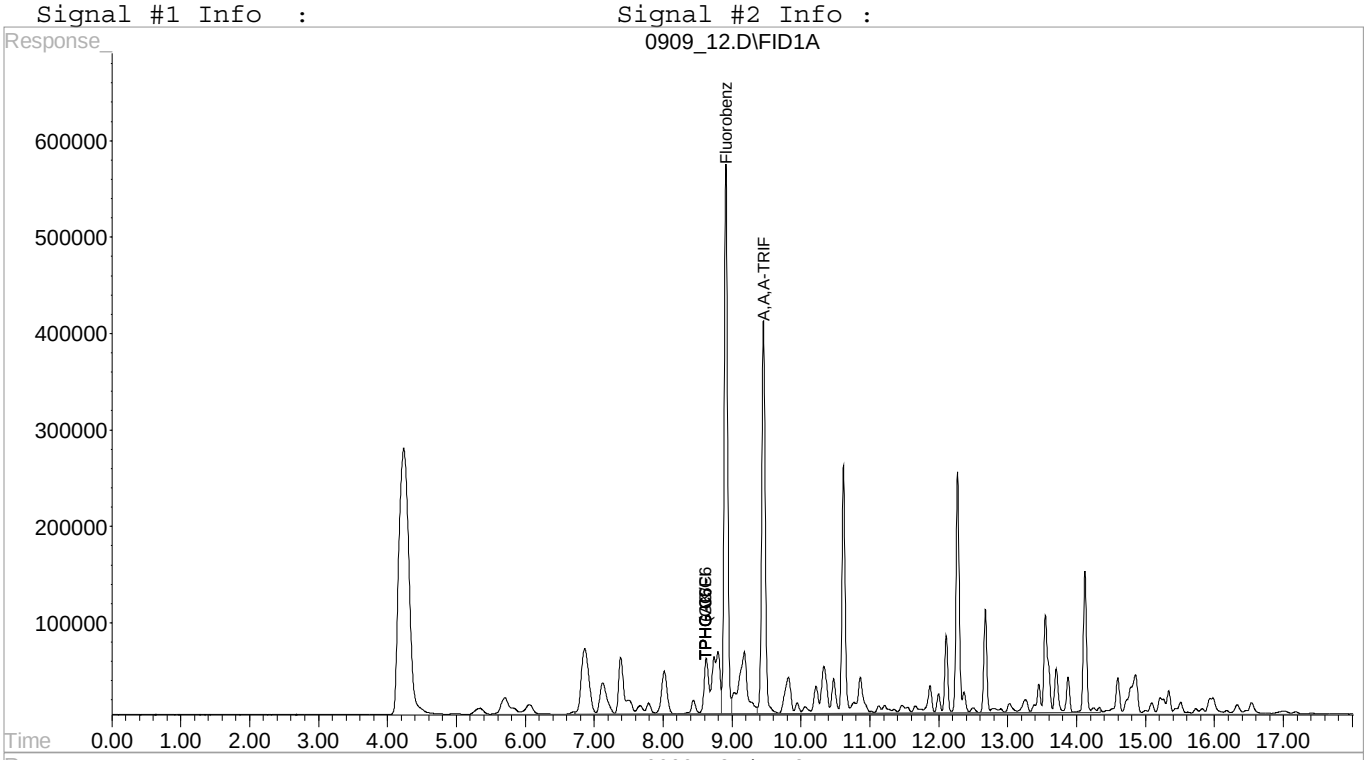
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9) I	Fluorobenzene #2	0.00	0	N.D.	ppb d
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery	=	93.60%	
10) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 55 - 122	Recovery	=	0.00%#	
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	25178	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4) H,M	TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5) H,M	TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M	benzene	0.00	0	N.D.	ppb d
13) T,M	toluene	0.00	0	N.D.	ppb d
14) T,M	ethylbenzene	0.00	0	N.D.	ppb d
15) T,M	m&p-xylene	0.00	0	N.D.	ppb d
16) T,M	o-xylene	0.00	0	N.D.	ppb d
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M	Naphthalene	0.00	0	N.D.	ppb d

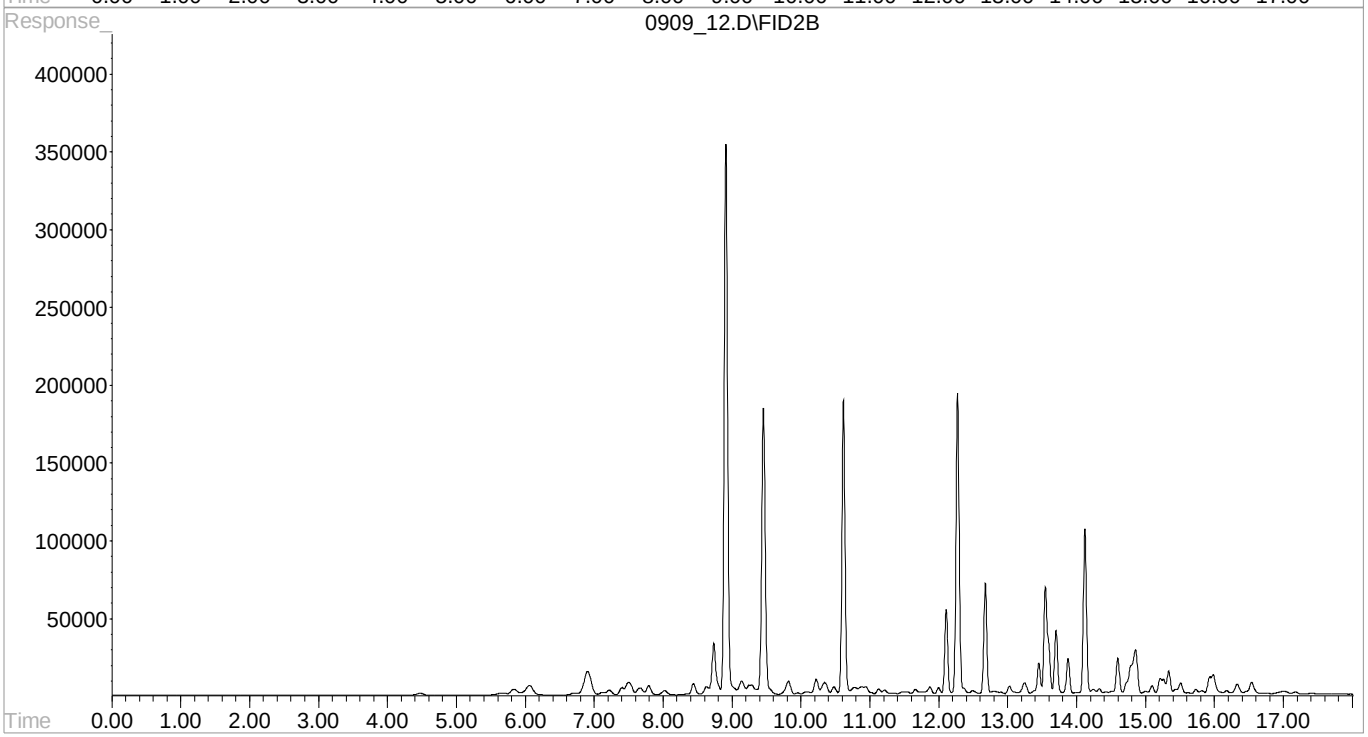
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH   Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On    :  9 Sep 2014   5:46 pm                    Operator: 621
Sample    : STD GRO 2.75 ppm 14I07115                Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

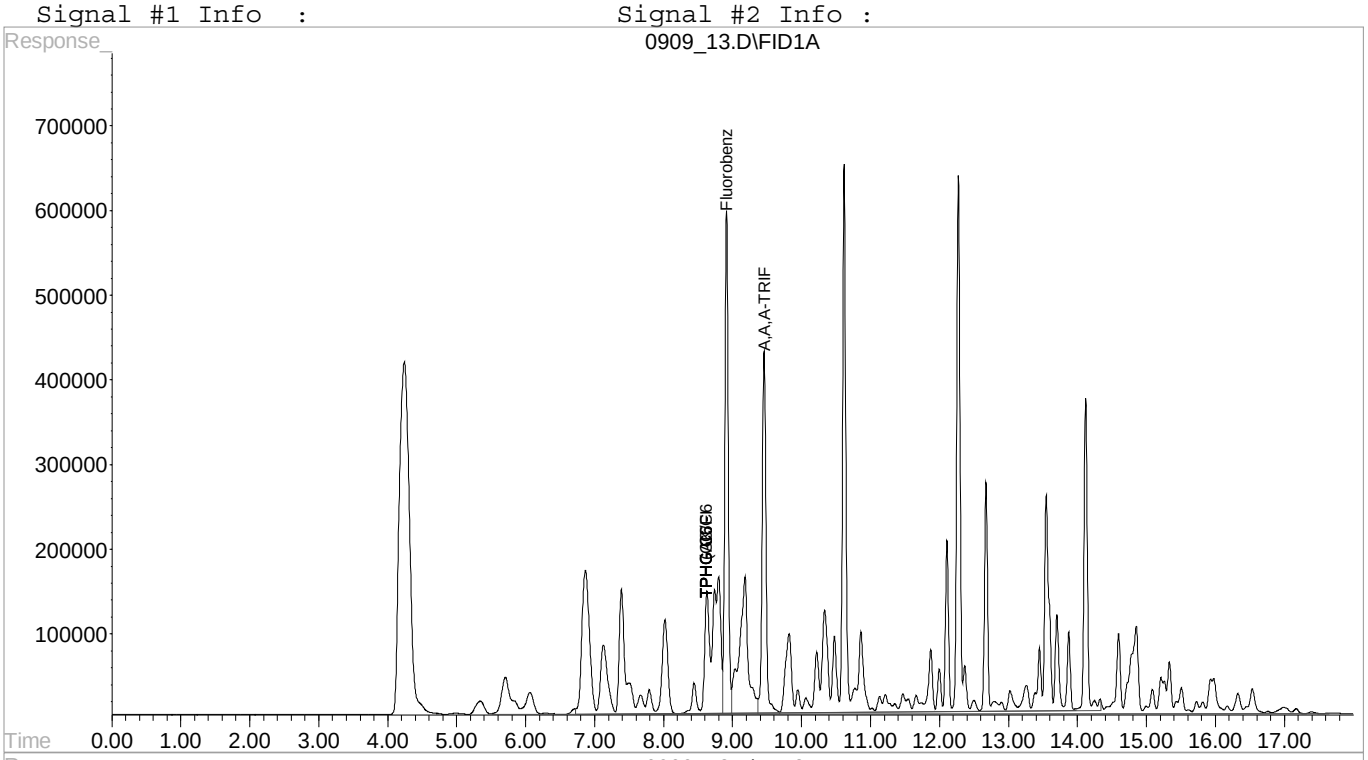
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13034942	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 97.53%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	7505633	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	2779423	NoCal	ppb
12) T,M benzene	8.74	3596781	NoCal	ppb
13) T,M toluene	10.62	14839176	NoCal	ppb
14) T,M ethylbenzene	12.11	4301547	NoCal	ppb
15) T,M m&p-xylene	12.27	16016206	NoCal	ppb
16) T,M o-xylene	12.67	5557318	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	3337632	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	8588491	NoCal	ppb
19) T,M Naphthalene	17.39	104290	NoCal	ppb

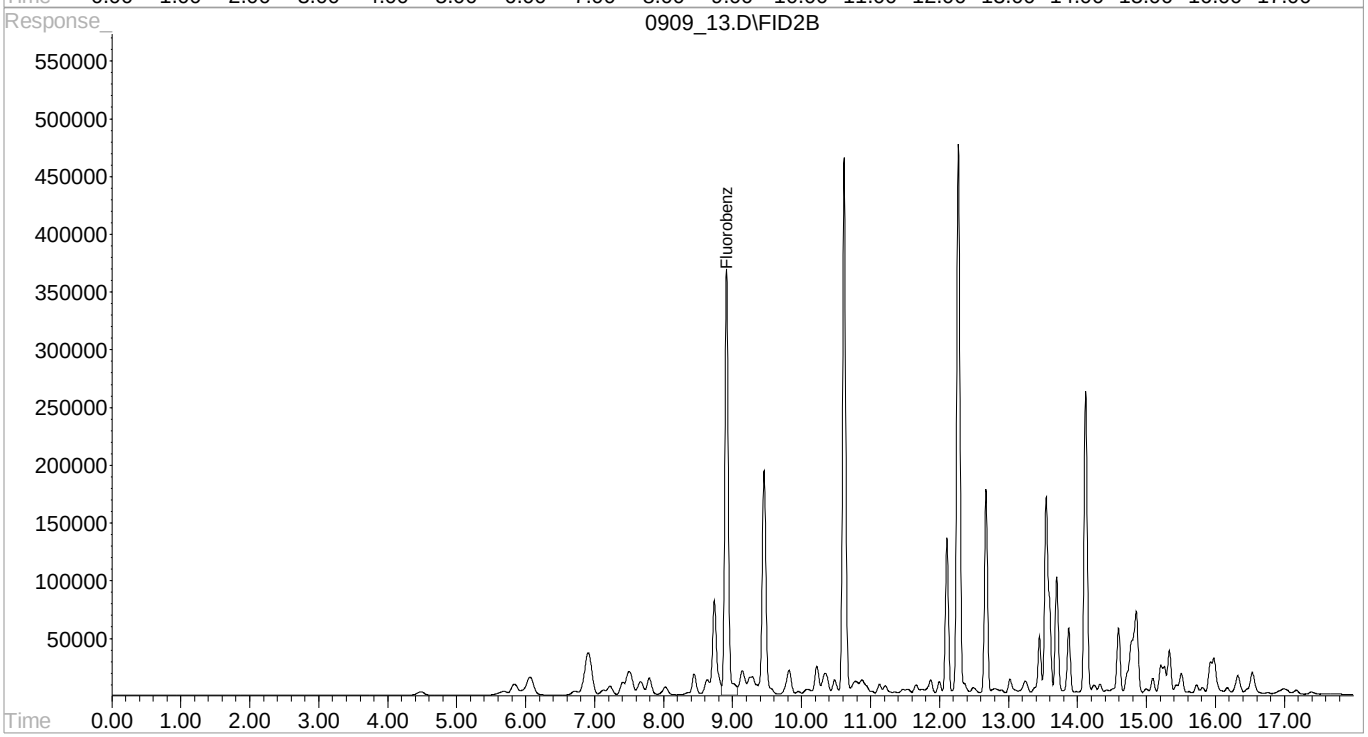
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH   Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On    :  9 Sep 2014   5:46 pm                    Operator: 621
Sample    : STD GRO 2.75 ppm 14I07115                Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

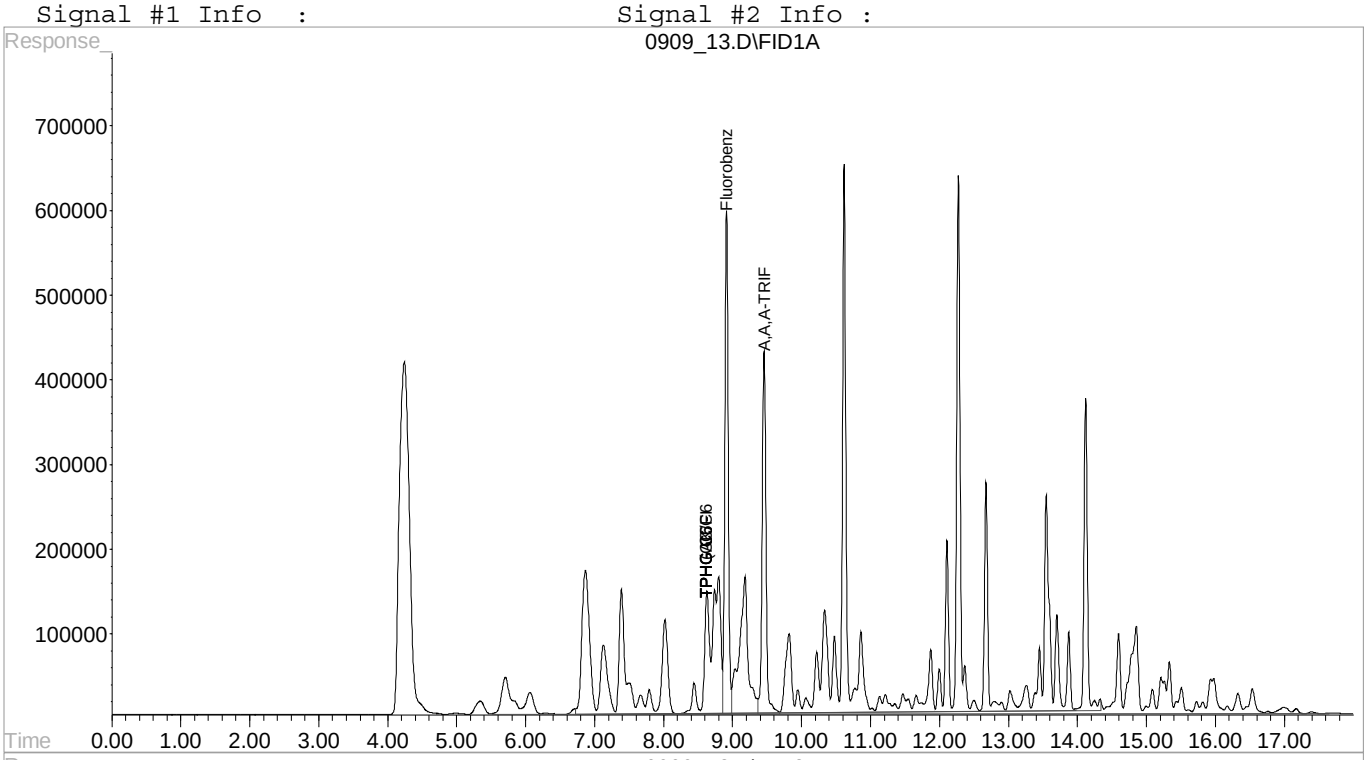
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	97.53%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

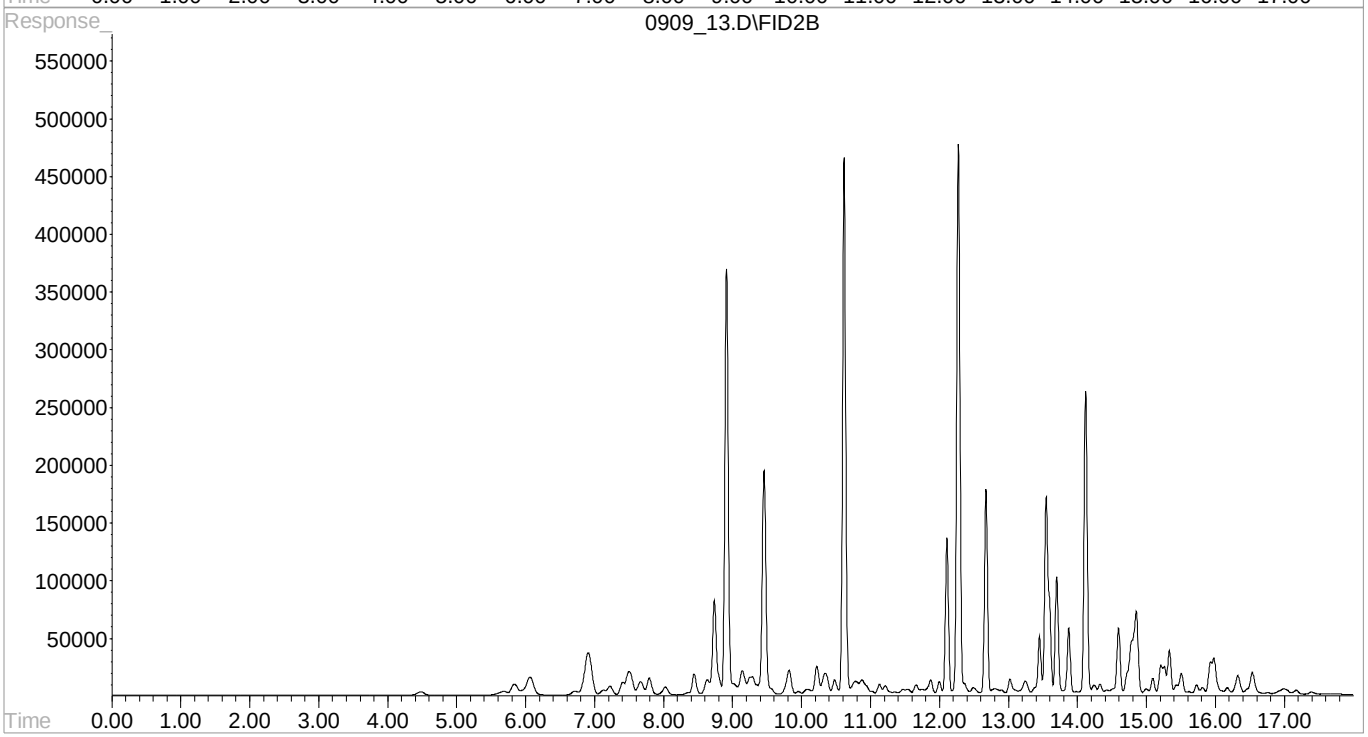
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

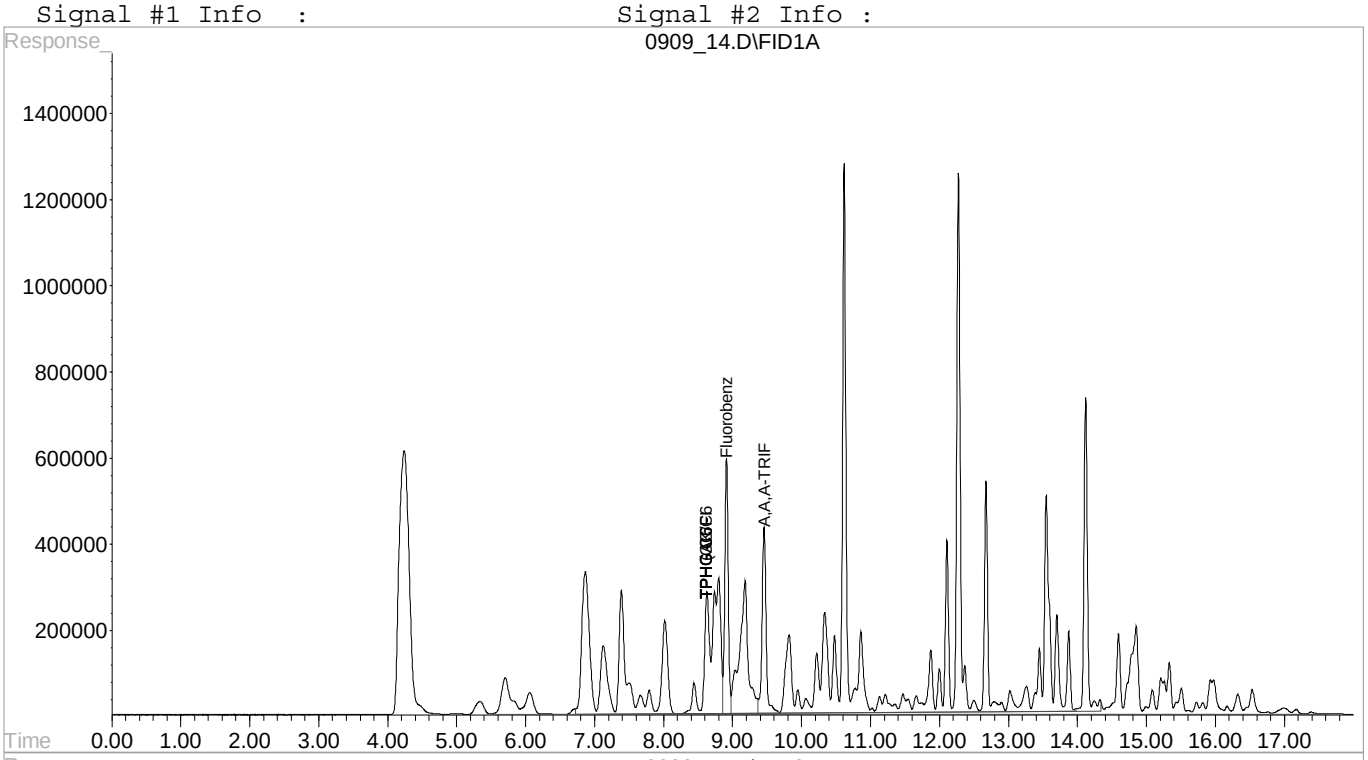
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13485622	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	8184040	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	5217055	NoCal	ppb
12) T,M benzene	8.74	6971112	NoCal	ppb
13) T,M toluene	10.62	28387174	NoCal	ppb
14) T,M ethylbenzene	12.11	8376767	NoCal	ppb
15) T,M m&p-xylene	12.27	30423638	NoCal	ppb
16) T,M o-xylene	12.67	10737408	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6457174	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	16548011	NoCal	ppb
19) T,M Naphthalene	17.39	260983	NoCal	ppb

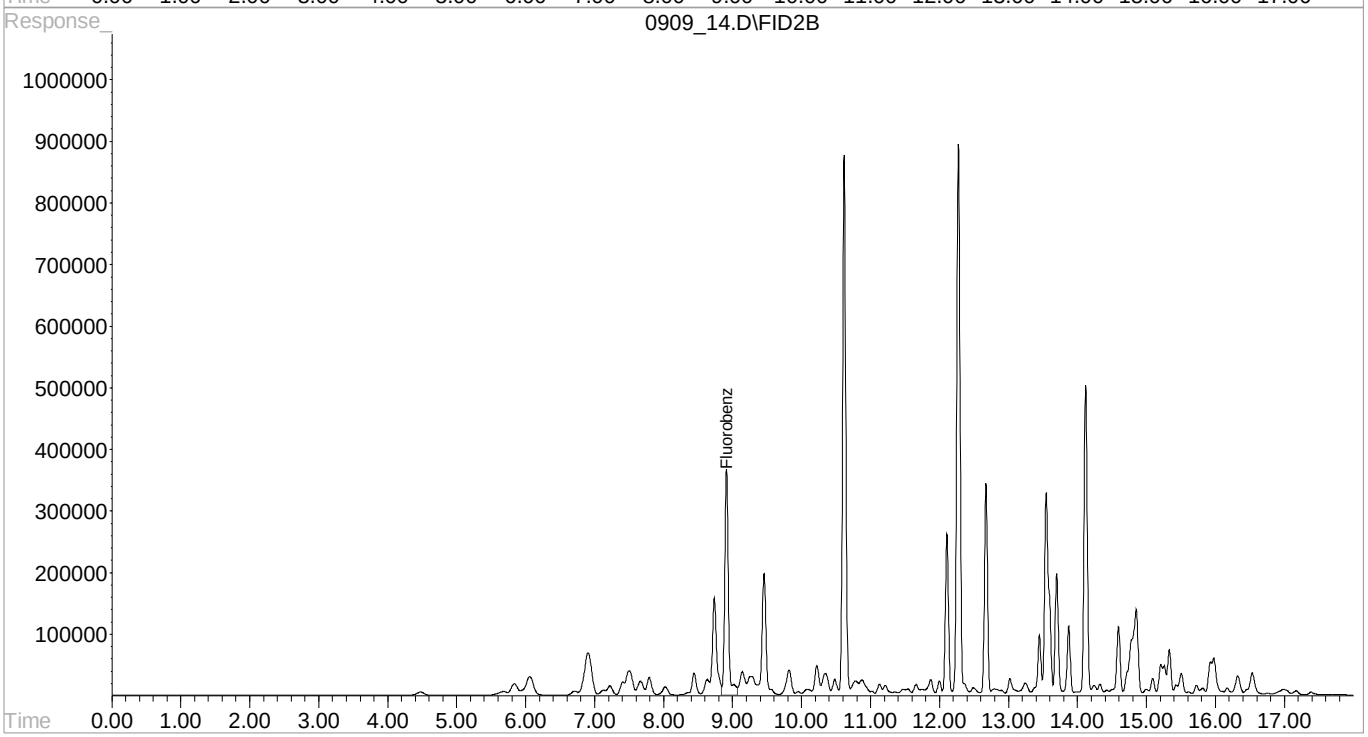
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH   Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On    :  9 Sep 2014   6:11 pm                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14I07115               Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

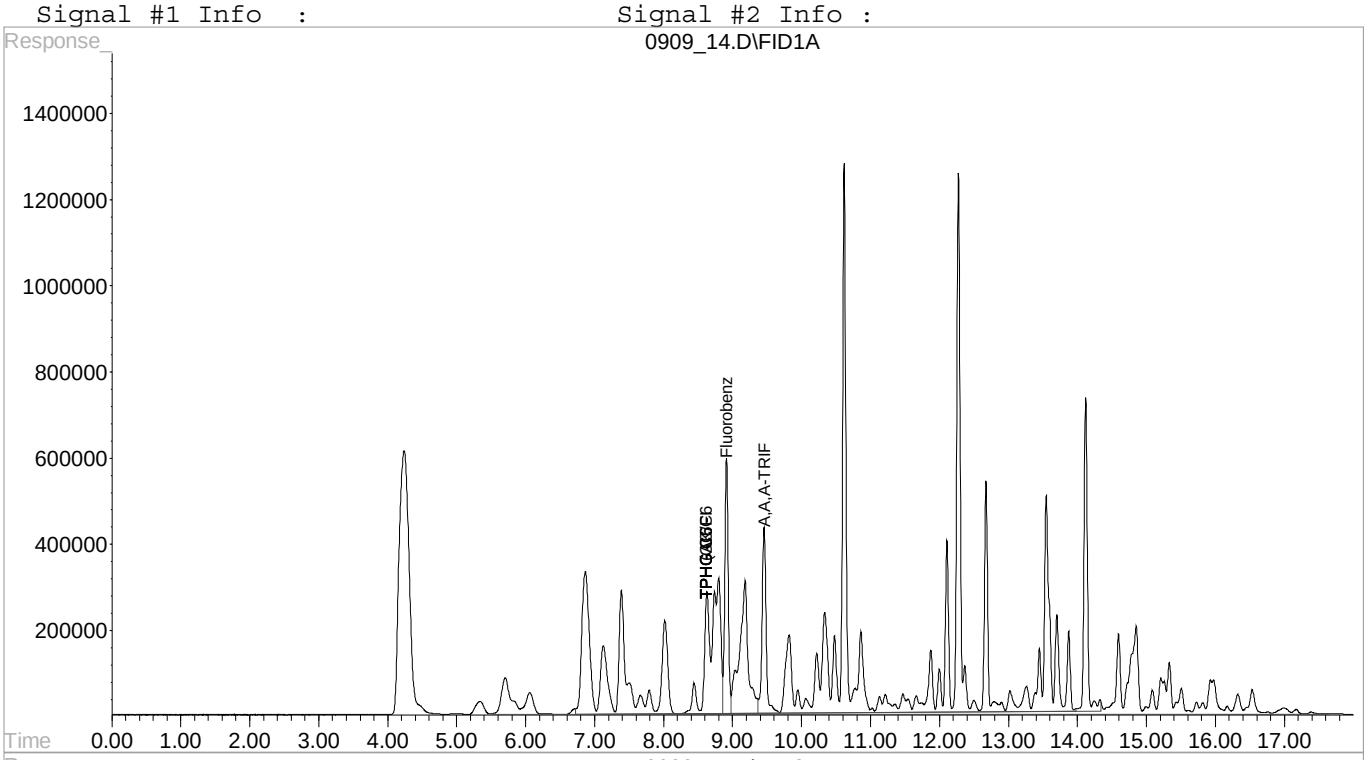
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb	
9) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb	
Spiked Amount 200.000 Range 62 - 128		Recovery	= 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.000 Range 55 - 122		Recovery	= 0.00%#		
Target Compounds					
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm	
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm	
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm	
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm	
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm	
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M benzene	0.00	0	N.D.	ppb	d
13) T,M toluene	0.00	0	N.D.	ppb	d
14) T,M ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M o-xylene	0.00	0	N.D.	ppb	d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M Naphthalene	0.00	0	N.D.	ppb	d

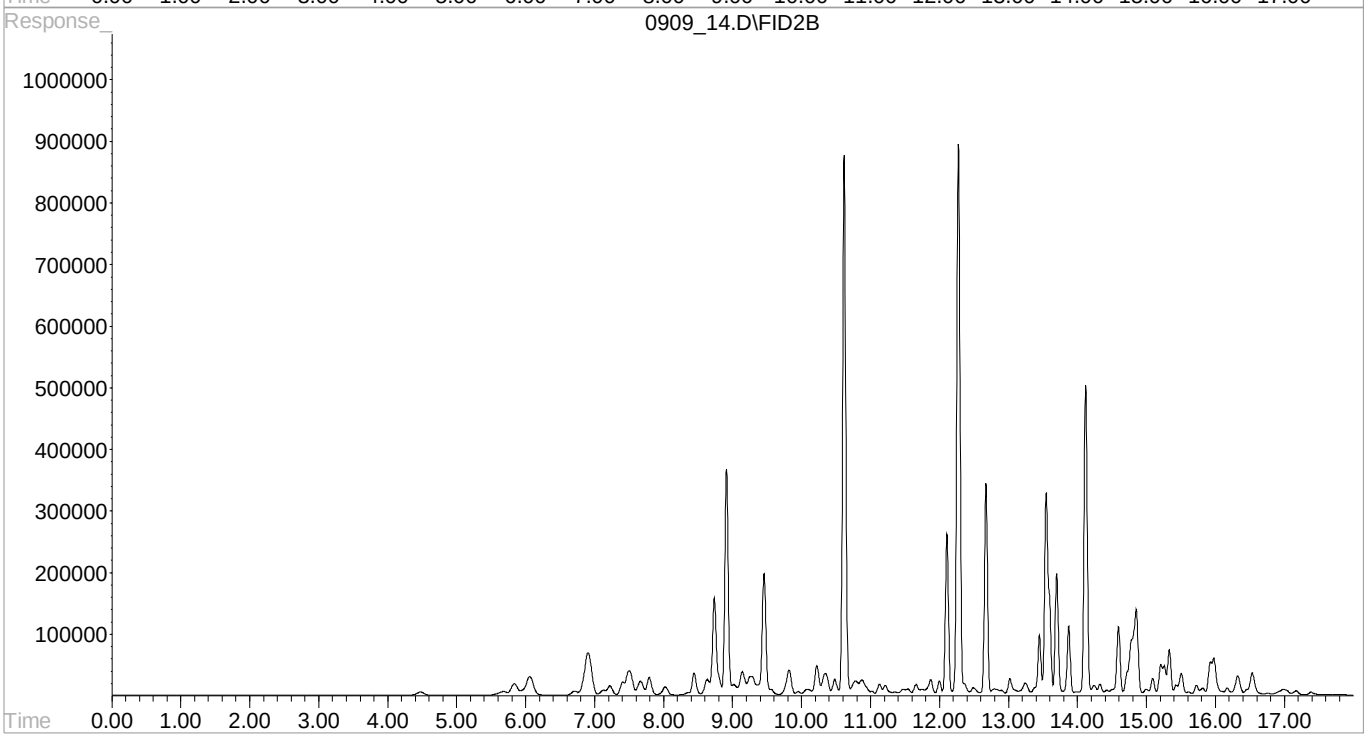
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

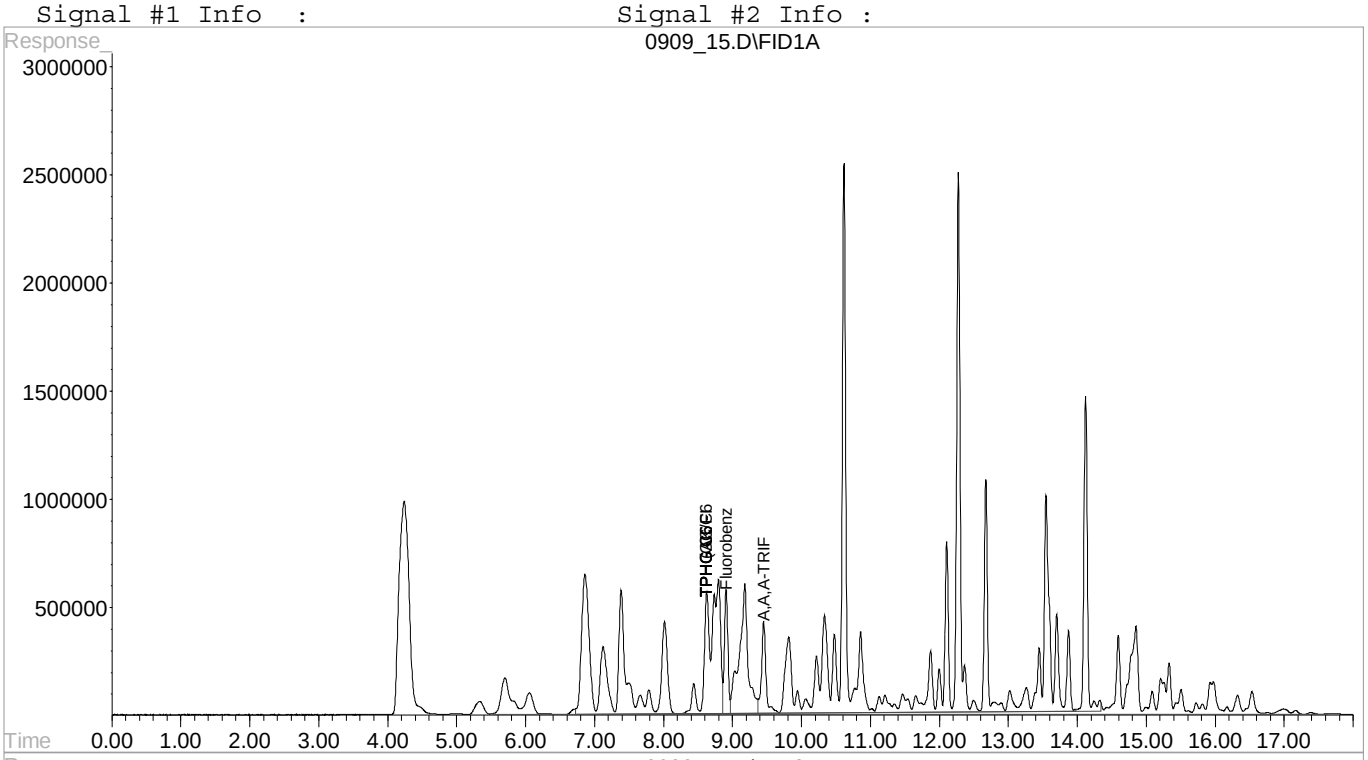
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12498933	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	9203527	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	9710007	NoCal	ppb
12) T,M benzene	8.73	13792307	NoCal	ppb
13) T,M toluene	10.62	52899551	NoCal	ppb
14) T,M ethylbenzene	12.11	16221436	NoCal	ppb
15) T,M m&p-xylene	12.27	55305354	NoCal	ppb
16) T,M o-xylene	12.67	20593315	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	12430798	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	31672897	NoCal	ppb
19) T,M Naphthalene	17.38	466706	NoCal	ppb

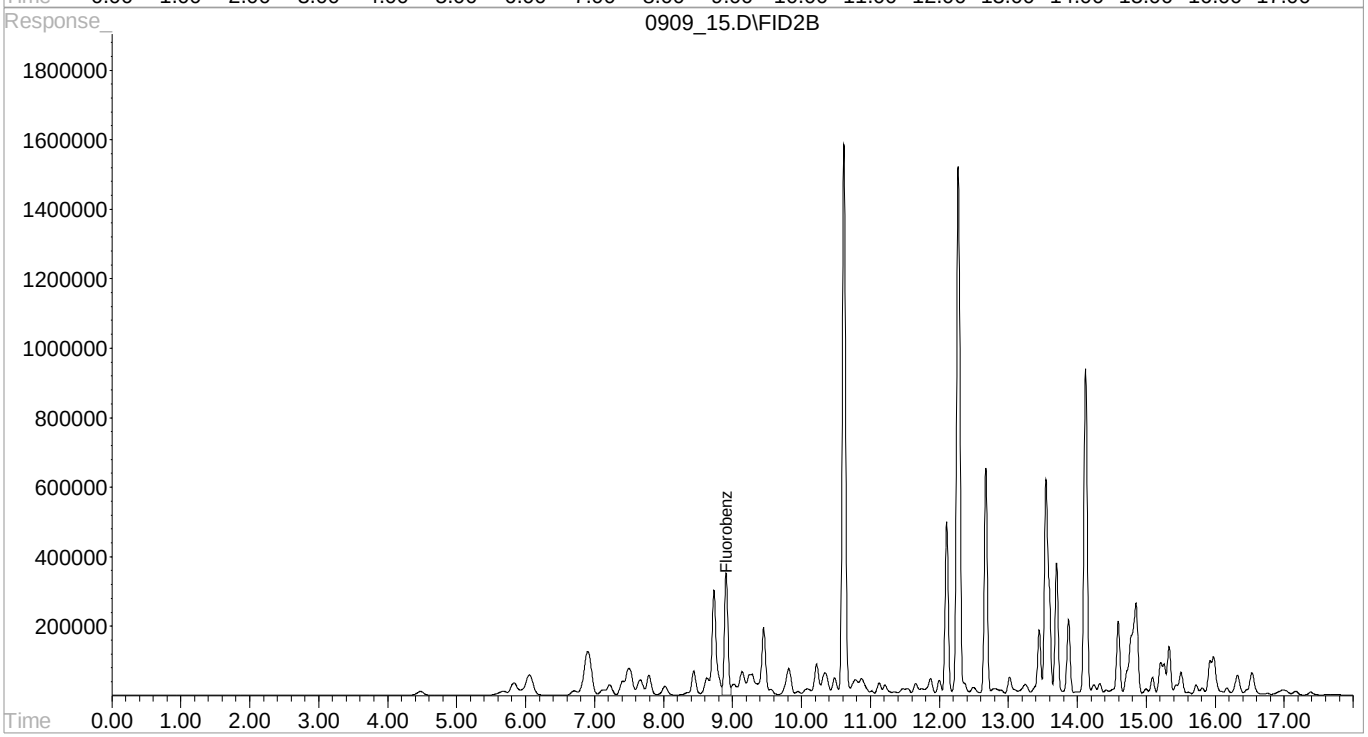
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

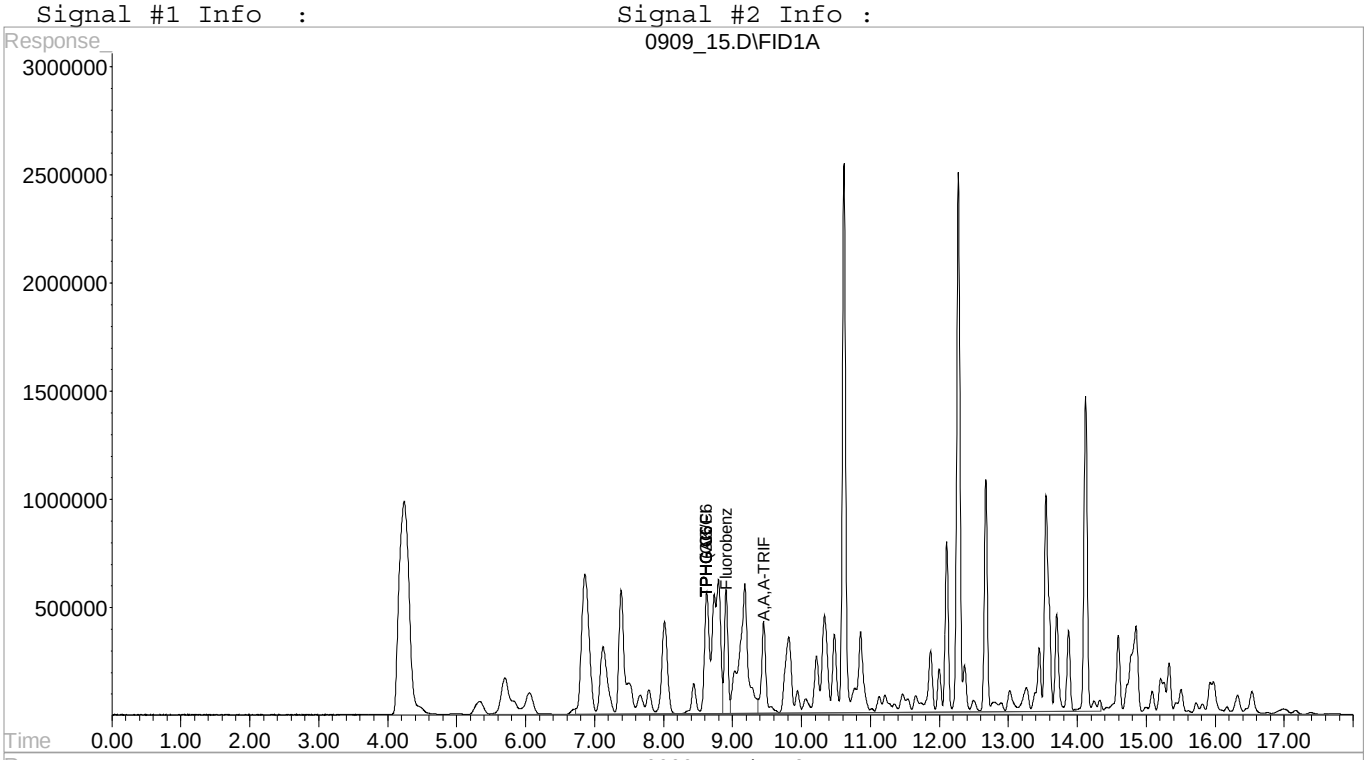
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

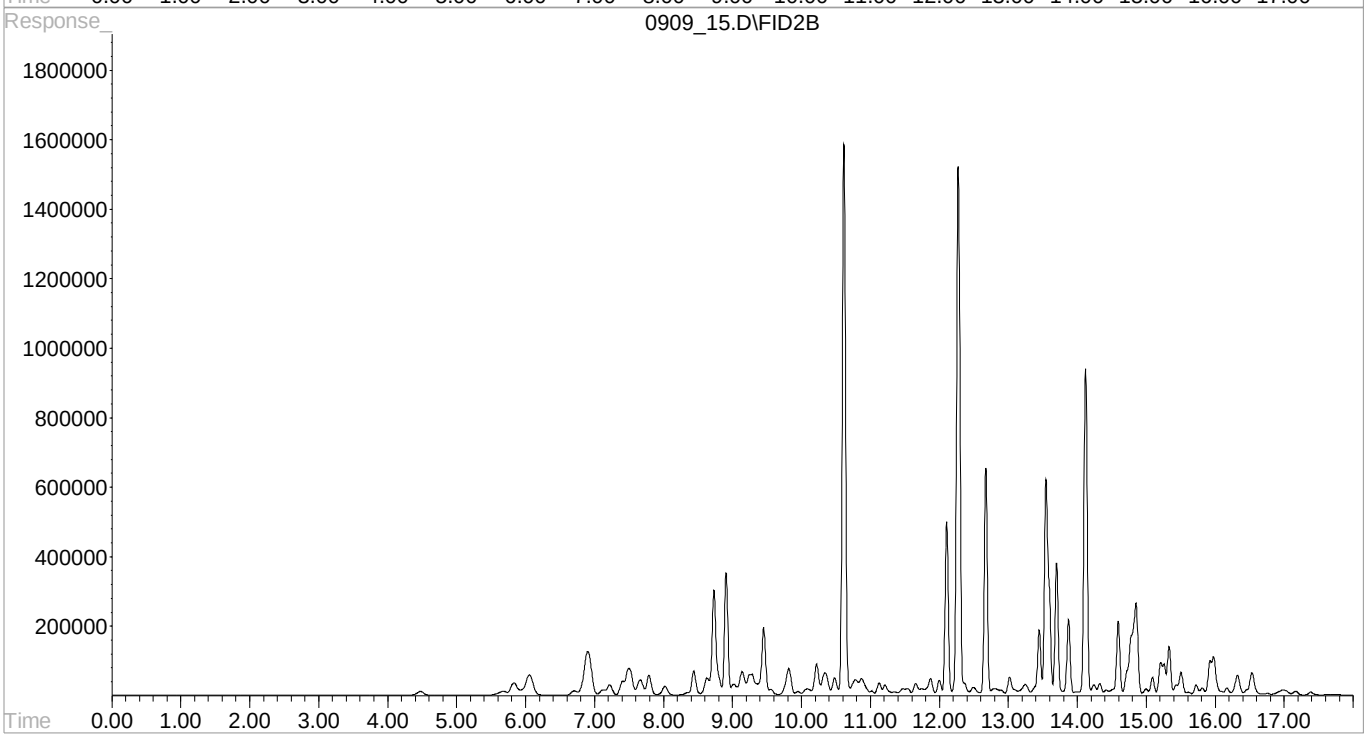
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Initial Calibration Raw Data

Instrument ID	: VOCGC1	Review Protocol	: SW846
Method	: BG01J30N	Review Method	: 8015-8021

Data Released By: Brett Andersen

30-OCT-2014 09:51:21 AM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(FID)-1.

Mint Miner (UNREGISTERED DEMO) Directory Scan: z:\102914

30 Oct 2014 10:41

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102914\1029_01.D					
Original Path: z:\102914\1029_01.D					
0	No Audit				
Scan File Path: z:\102914\1029_02.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_02.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC1	ICV (water SURIS14F10114)
Scan File Path: z:\102914\1029_03.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_03.D\FID1A.CH					
0	Scanned		621	VOCGC1	ICV (water SURIS14F10114)
Scan File Path: z:\102914\1029_04.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_04.D\FID1A.CH					
0	Scanned		621	VOCGC1	LCS (water SURIS14F10114)
Scan File Path: z:\102914\1029_05.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_05.D\FID1A.CH					
0	Scanned		621	VOCGC1	LCSD (water SURIS14F10114)
Scan File Path: z:\102914\1029_06.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_06.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC1	LCS (water SURIS14F10114)
Scan File Path: z:\102914\1029_07.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_07.D\FID1A.CH					
5	Scanned	M(1), MZ(4)	621	VOCGC1	LCSD (water SURIS14F10114)
Scan File Path: z:\102914\1029_08.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_08.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC1	MS (water SURIS14F10114)
Scan File Path: z:\102914\1029_09.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_09.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC1	MS (water SURIS14F10114)
Scan File Path: z:\102914\1029_10.D					
Original Path: z:\102914\1029_10.D					
0	No Audit				
Scan File Path: z:\102914\1029_11.D					
Original Path: z:\102914\1029_11.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102914\1029_12.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_12.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX .5 ppb 14G09861 (soil SURIS14F10
Scan File Path: z:\102914\1029_13.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_13.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 1 ppb 14G09861 (soil SURIS14F101
Scan File Path: z:\102914\1029_14.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_14.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 5 ppb 14G09861 (soil SURIS14F101
Scan File Path: z:\102914\1029_15.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_15.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 10 ppb 14G09861 (soil SURIS14F10
Scan File Path: z:\102914\1029_16.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_16.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 25 ppb 14G09861 (soil SURIS14F10
Scan File Path: z:\102914\1029_17.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_17.D\FID1A.CH					
18	Scanned	D(18)	621	VOCGC1	MSTD BTEX 50 ppb 14G09861 (soil SURIS14F
Scan File Path: z:\102914\1029_18.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_18.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 100 ppb 14G09861 (soil SURIS14F1
Scan File Path: z:\102914\1029_19.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_19.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 150 ppb 14G09861 (soil SURIS14F1
Scan File Path: z:\102914\1029_20.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_20.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 200 ppb 14G09861 (soil SURIS14F1
Scan File Path: z:\102914\1029_21.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_21.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 250 ppb 14G09861 (soil SURIS14F1
Scan File Path: z:\102914\1029_22.D					
Original Path: z:\102914\1029_22.D					
0	No Audit				

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102914\1029_23.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_23.D\FID1A.CH					
6	Scanned	D(6)	621	VOCGC1	STD BTEX 50 ppb 14G09864 (soil SURIS14F10
Scan File Path: z:\102914\1029_24.D					
Original Path: z:\102914\1029_24.D					
0	No Audit				
Scan File Path: z:\102914\1029_25.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_25.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX .055 ppm 14J27632 (soil SURIS14F1
Scan File Path: z:\102914\1029_26.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_26.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX .11 ppm 14J27632 (soil SURIS14F1(
Scan File Path: z:\102914\1029_27.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_27.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX .55 ppm 14J27632 (soil SURIS14F1(
Scan File Path: z:\102914\1029_28.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_28.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX 1.1 ppm 14J27632 (soil SURIS14F1(
Scan File Path: z:\102914\1029_29.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_29.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX 2.75 ppm 14J27632 (soil SURIS14F1
Scan File Path: z:\102914\1029_30.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_30.D\FID1A.CH					
30	Scanned	D(22), DK(4), DC(4)	621	VOCGC1	MSTD BTEX 5.5 ppm 14J27632 (soil SURIS14F
Scan File Path: z:\102914\1029_31.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_31.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX 11 ppm 14J27632 (soil SURIS14F10
Scan File Path: z:\102914\1029_32.D					
Original Path: z:\102914\1029_32.D					
0	No Audit				
Scan File Path: z:\102914\1029_33.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_33.D\FID1A.CH					
15	Scanned	D(11), DK(2), DC(2)	621	VOCGC1	STD BTEX 5.5 ppm 14J27633 (soil SURIS14F1(

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102914\1029_34.D					
Original Path: C:\HPCHEM\1\DATA\102914\1029_34.D\FID1A.CH					
0	Scanned		621	VOCGC1	SSCV GRO 5.5g ppm 14J27633 (water SURIS14

D	=	Deletion of any analyte	DC	=	Deletion of a CCC
DK	=	Deletion of a spike compound	ENR	=	Quant report set to not reviewed (Disables MZ code)
M	=	Manual integration (non-specific)	MZ	=	Manual integrated but indicator missing from either the quant report or audit file

ScanSummary.rpt

Total Files Scanned	34	Beginning Analyzed Date	10/29/2014 9:18:20AM
Methods	0	Ending Analyzed Date	10/30/2014 9:22:00AM
Samples	34	Analyzed Range	24 hours, 4 minutes
Tunes	0	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 1
Operators 1 Intruments 1

Instrument: VOCGC1
Method: BG01J30N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1029_12.D	0.5	10/29/2014 6:18:00 PM
1029_13.D	1	10/29/2014 6:40:00 PM
1029_14.D	5	10/29/2014 7:02:00 PM
1029_15.D	10	10/29/2014 7:24:00 PM
1029_16.D	25	10/29/2014 7:46:00 PM
1029_17.D	50	10/29/2014 8:09:00 PM
1029_18.D	100	10/29/2014 8:31:00 PM
1029_19.D	150	10/29/2014 8:53:00 PM
1029_20.D	200	10/29/2014 9:15:00 PM
1029_21.D	250	10/29/2014 9:37:00 PM
1029_25.D	.05G	10/29/2014 11:06:00 PM
1029_26.D	.11G	10/29/2014 11:28:00 PM
1029_27.D	.55G	10/29/2014 11:50:00 PM
1029_28.D	1.1G	10/30/2014 12:12:00 AM
1029_29.D	2.7G	10/30/2014 12:33:00 AM
1029_30.D	5.5G	10/30/2014 12:55:00 AM
1029_31.D	11G	10/30/2014 1:17:00 AM

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Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPH
Released By : Brett Andersen
Date Released : 10/30/2014 9:51:24 AM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029_12	STD BTEX .5 PPB 14G09861	BG01J30N						1	1	10/29/14 1818	"soil SURIS14F10114"
2	1029_13	STD BTEX 1 PPB 14G09861	BG01J30N						1	1	10/29/14 1840	"soil SURIS14F10114"
3	1029_14	STD BTEX 5 PPB 14G09861	BG01J30N						1	1	10/29/14 1902	"soil SURIS14F10114"
4	1029_15	STD BTEX 10 PPB 14G09861	BG01J30N						1	1	10/29/14 1924	"soil SURIS14F10114"
5	1029_16	STD BTEX 25 PPB 14G09861	BG01J30N						1	1	10/29/14 1946	"soil SURIS14F10114"
6	1029_17	MSTD BTEX 50 PPB 14G09861	BG01J30N						1	1	10/29/14 2009	"soil SURIS14F10114"
7	1029_18	STD BTEX 100 PPB 14G09861	BG01J30N						1	1	10/29/14 2031	"soil SURIS14F10114"
8	1029_19	STD BTEX 150 PPB 14G09861	BG01J30N						1	1	10/29/14 2053	"soil SURIS14F10114"
9	1029_20	STD BTEX 200 PPB 14G09861	BG01J30N						1	1	10/29/14 2115	"soil SURIS14F10114"
10	1029_21	STD BTEX 250 PPB 14G09861	BG01J30N						1	1	10/29/14 2137	"soil SURIS14F10114"
11	1029_23	SSCV BTEX 50 PPB 14G09864	BG01J30N						1	1	10/29/14 2222	"soil SURIS14F10114"
12	1029_25	STD GRO .055 PPM 14J27632	BG01J30N						1	1	10/29/14 2306	"soil SURIS14F10114"
13	1029_26	STD GRO .11 PPM 14J27632	BG01J30N						1	1	10/29/14 2328	"soil SURIS14F10114"

Environmental Science Corporation
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Injection Log

Instrument ID : VOCGC1
Computer Name : VOCCOMPH
Released By : Brett Andersen
Date Released : 10/30/2014 9:51:25 AM
Run ID : 102914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	1029_27	STD GRO .55 PPM 14J27632	BG01J30N						1	1	10/29/14 2350	"soil SURIS14F10114"
15	1029_28	STD GRO 1.1 PPM 14J27632	BG01J30N						1	1	10/30/14 0012	"soil SURIS14F10114"
16	1029_29	STD GRO 2.75 PPM 14J27632	BG01J30N						1	1	10/30/14 0033	"soil SURIS14F10114"
17	1029_30	MSTD GRO 5.5G PPM 14J27632	BG01J30N						1	1	10/30/14 0055	"soil SURIS14F10114"
18	1029_31	STD GRO 11 PPM 14J27632	BG01J30N						1	1	10/30/14 0117	"soil SURIS14F10114"
19	1029_34	SSCV GRO 5.5G PPM 14J27633	BG01J30N						1	1	10/30/14 0922	"water SURIS14F10114"

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC1	Review Method	: 8015-8021	Released By	: Brett Andersen
Method	: BG01J30N	Review Protocol	: SW846	Released On	: 10/30/2014 9:51:25 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG01J30N -- ICal Updated Time: Thu Oct 30 09:00:02 2014

Parameter	Col	0.5	1	5	10	25	50	100	150	200	250	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1																					
TPHG C5 - C12	1											1272	1112	969	1062	1023	967	943	1050	10.92	0.109	1
TPHG C6 - C12	1											1228	1083	937	1030	990	936	912	1017	10.9	0.109	1
TPHGAK C6 to C10	1											1016	894	749	822	791	754	743	824	12.13	0.121	1
TPH (GC/FID) Low Fraction	1											1064	946	797	873	840	800	788	872	11.59	0.116	1
A,A,A-TRIFLUOROTOLUENE(FID)	1											0.759	0.745	0.691	0.718	0.731	0.77	0.883	0.757	8.11	0.081	1
Fluorobenzene	2																					
A,A,A-TRIFLUOROTOLUENE(PID)	2	0.532	0.529	0.523	0.517	0.512	0.506	0.497	0.493	0.487	0.481								0.508	3.47	0.035	1
Methyl Tert-Butyl Ether	2		0.858	0.661	0.62	0.562	0.562	0.53	0.443	0.535	0.51								0.587	20.33	0.203	1
benzene	2	2.161	2.022	1.882	1.772	1.737	1.701	1.664	1.408	1.703	1.676								1.773	11.76	0.118	1
toluene	2		2.181	1.922	1.816	1.737	1.684	1.646	1.392	1.679	1.651								1.745	12.46	0.125	1
ethylbenzene	2	1.895	1.746	1.691	1.599	1.556	1.53	1.504	1.272	1.536	1.508								1.584	10.52	0.105	1
m&p-xylene	2	2.094	1.936	1.869	1.76	1.708	1.681	1.654	1.395	1.676	1.643								1.742	10.92	0.109	1
o-xylene	2	1.997	1.681	1.682	1.564	1.493	1.474	1.445	1.218	1.464	1.433								1.545	13.39	0.134	1
1,3,5-Trimethylbenzene	2																		0	0	0	1
1,2,4-Trimethylbenzene	2																		0	0	0	1
Naphthalene	2																		0	0	0	1

PDF Generated On: 10/30/2014 By: Brett Andersen

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Manual Integrations - Audit Trail

Instrument ID	: VOCGC1	Method	: BG01J30N
Released By	: Brett Andersen	Review Method	: 8015-8021
Released On	: 10/30/2014 9:51:41 AM	Review Protocol	: SW846

File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.

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IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC1	CCV File ID	: 1029_17	Tune File ID	:
Run ID	: 102914	CCV Analyzed At	: 10/29/14 2009	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
1029_12	STD BTEX .5 PPB 14G09861	1			0	0	105										
1029_13	STD BTEX 1 PPB 14G09861	1			0	0	105										
1029_14	STD BTEX 5 PPB 14G09861	1			0	0	105										
1029_15	STD BTEX 10 PPB 14G09861	1			0	0	105										
1029_16	STD BTEX 25 PPB 14G09861	1			0	0	105										
1029_17	MSTD BTEX 50 PPB 14G09861	1			0	0	105										
1029_18	STD BTEX 100 PPB 14G09861	1			0	0	104										
1029_19	STD BTEX 150 PPB 14G09861	1			0	0	104										
1029_20	STD BTEX 200 PPB 14G09861	1			0	0	104										
1029_21	STD BTEX 250 PPB 14G09861	1			0	0	104										
SECOND COLUMN																	
1029_12	STD BTEX .5 PPB 14G09861	1			1.282612E+07	0	105										
1029_13	STD BTEX 1 PPB 14G09861	1			1.269286E+07	0	105										
1029_14	STD BTEX 5 PPB 14G09861	1			1.264928E+07	0	105										
1029_15	STD BTEX 10 PPB 14G09861	1			1.298604E+07	0	105										
1029_16	STD BTEX 25 PPB 14G09861	1			1.274796E+07	0	105										
1029_17	MSTD BTEX 50 PPB 14G09861	1			1.324016E+07	0	105										
1029_18	STD BTEX 100 PPB 14G09861	1			1.33569E+07	0	104										

IS - SURROGATE SUMMARY REPORT

1029_19	STD BTEX 150 PPB 14G09861	1			1.314673E +07	0	104										
1029_20	STD BTEX 200 PPB 14G09861	1			1.285727E +07	0	104										
1029_21	STD BTEX 250 PPB 14G09861	1			1.299285E +07	0	104										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

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IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC1	CCV File ID	: 1029_30	Tune File ID	:
Run ID	: 102914	CCV Analyzed At	: 10/30/14 0055	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
1029_25	STD GRO .055 PPM 14J27632	1			6825546	98.6	0										
1029_26	STD GRO .11 PPM 14J27632	1			7209533	97.8	0										
1029_27	STD GRO .55 PPM 14J27632	1			7903566	91.6	0										
1029_28	STD GRO 1.1 PPM 14J27632	1			7366789	96.1	0										
1029_29	STD GRO 2.75 PPM 14J27632	1			7435461	98.8	0										
1029_30	MSTD GRO 5.5G PPM 14J27632	1			7851717	0	0										
1029_31	STD GRO 11 PPM 14J27632	1			7781492	122	0										
SECOND COLUMN																	
1029_25	STD GRO .055 PPM 14J27632	1			0	0	0										
1029_26	STD GRO .11 PPM 14J27632	1			0	0	0										
1029_27	STD GRO .55 PPM 14J27632	1			0	0	0										
1029_28	STD GRO 1.1 PPM 14J27632	1			0	0	0										
1029_29	STD GRO 2.75 PPM 14J27632	1			0	0	0										
1029_30	MSTD GRO 5.5G PPM 14J27632	1			0	0	0										
1029_31	STD GRO 11 PPM 14J27632	1			0	0	0										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

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SSCV Summary Report

Instrument ID	: VOCGC1	Analysis Date	: 10/29/14 2222	ICal Method	: 8015-8021
Lab File ID	: 1029_23	Quant Method	: BG01J30N	ICal Protocol	: SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	1737437	0.05	0.2	1.264127E+07	0.5497666	93.7	80	120
benzene	2	5426099	0.05	0.2	1.264127E+07	1.716947	96.9	80	120
toluene	2	5509884	0.05	0.2	1.264127E+07	1.743459	99.9	80	120
ethylbenzene	2	5014927	0.05	0.2	1.264127E+07	1.586843	100	80	120
m&p-xylene	2	1.10876E+07	0.1	0.2	1.264127E+07	1.754191	101	80	120
o-xylene	2	4847348	0.05	0.2	1.264127E+07	1.533817	99.3	80	120
XYLENES, TOTAL	2	1.593495E+07	0.15	0.2	1.264127E+07	1.680733	100	80	120
1,3,5-Trimethylbenzene	2	6826285	0	0.2	1.264127E+07	0			
1,2,4-Trimethylbenzene	2	4895253	0	0.2	1.264127E+07	0			
Naphthalene	2	705383	0	0.2	1.264127E+07	0			
TPHG C6 - C12	1	0	0	0.2	0	0			
TPH (GC/FID) Low Fraction	1	0	0	0.2	0	0			
TPHG C5 - C12	1	0	0	0.2	0	0			
TPHGAK C6 to C10	1	0	0	0.2	0	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	0	0	0	0		
Fluorobenzene-2	1.264127E+07	6620000	2.65E+07	6.11		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID2B.CH
Acq On : 29 Oct 2014 10:22 pm Operator: 621
Sample : STD BTEX 50 ppb 14G09864 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:53 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

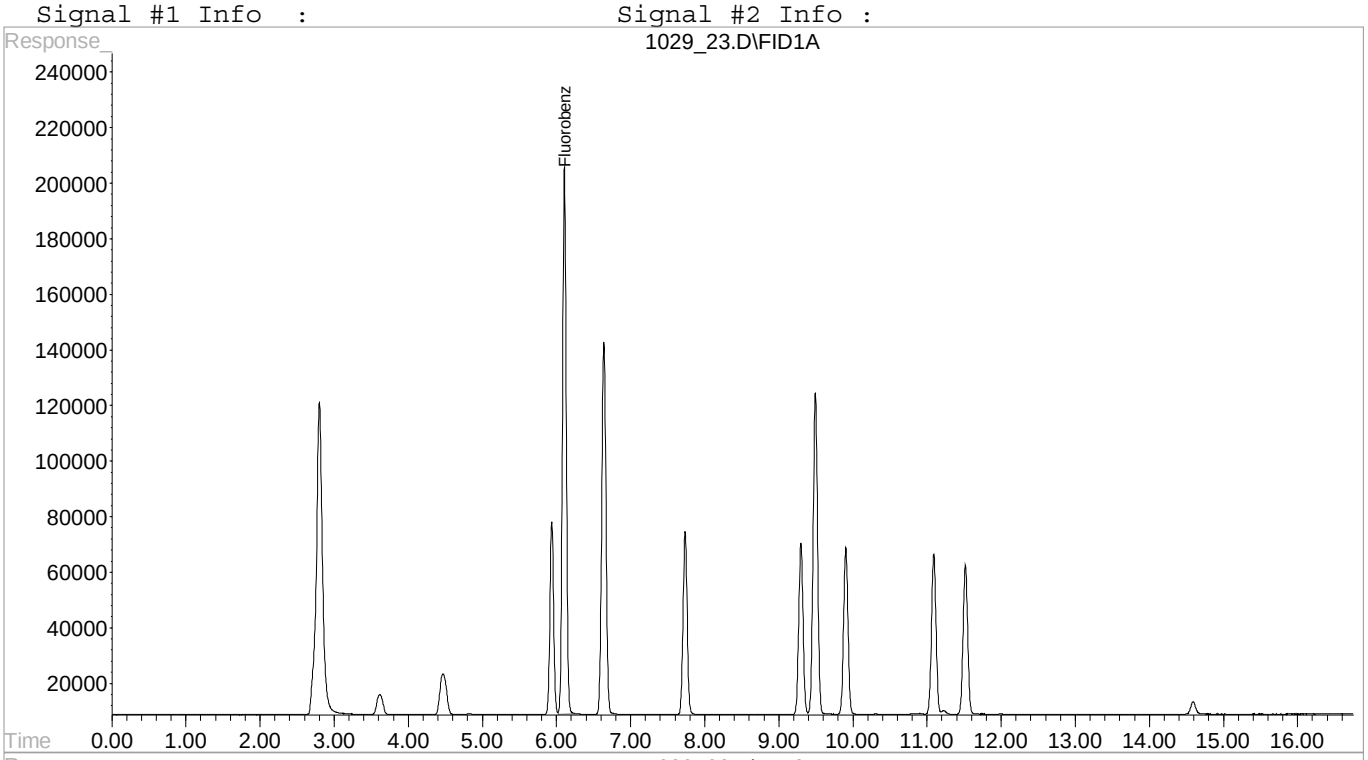
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	7034447	200.0000000	ppb
8) I Fluorobenzene #2	6.11	12641272	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5327000	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6708198	208.9906741	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.50%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	21910323	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	21363139	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	18710706	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	21062587	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	1737437	46.8423697	ppb
11) T,M benzene	5.94	5426099	48.4297742	ppb
12) T,M toluene	7.74	5509884	49.9444334	ppb
13) T,M ethylbenzene	9.30	5014927	50.0945004	ppb
14) T,M m&p-xylene	9.49	11087597	100.7185841	ppb
15) T,M o-xylene	9.90	4847348	49.6307622	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	6826285	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	4895253	NoCal	ppb
18) T,M Naphthalene	14.59	705383	NoCal	ppb

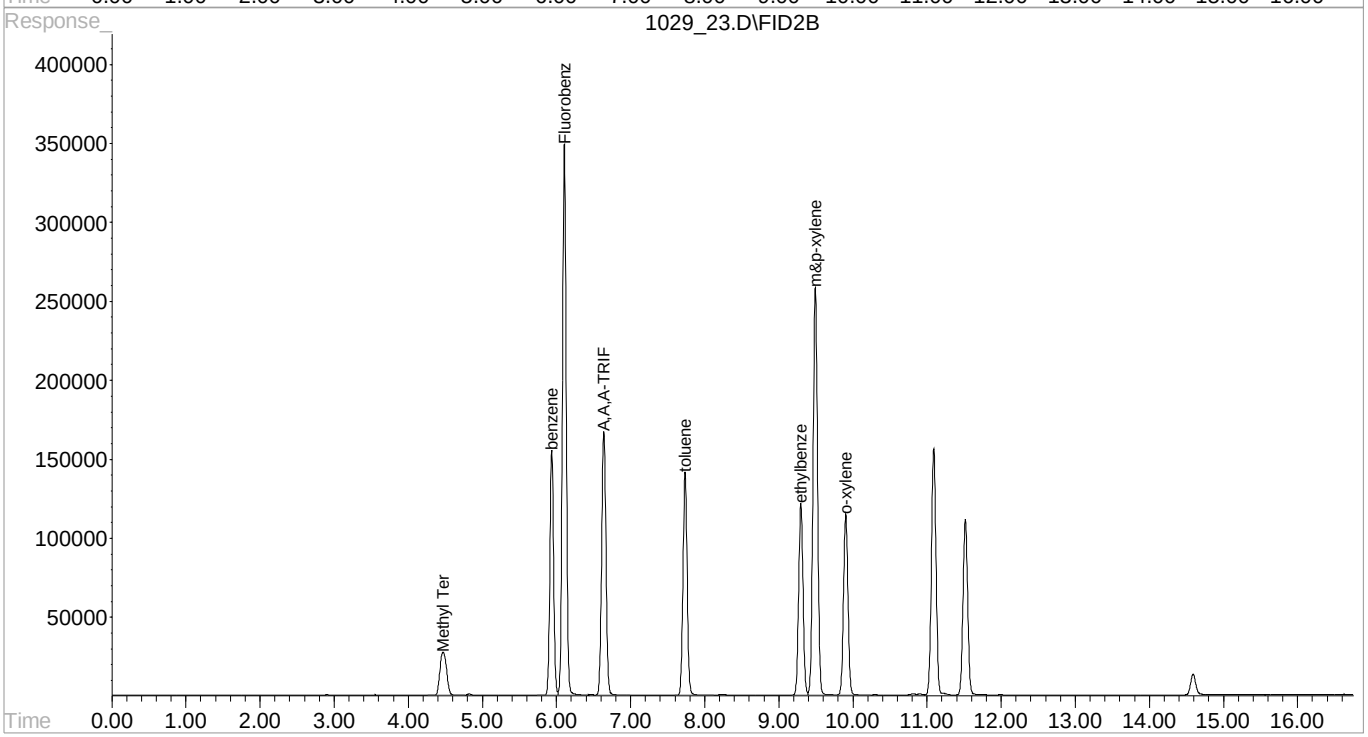
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID2B.CH
Acq On : 29 Oct 2014 10:22 pm Operator: 621
Sample : STD BTEX 50 ppb 14G09864 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:53 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID2B.CH
Acq On : 29 Oct 2014 10:22 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:53 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

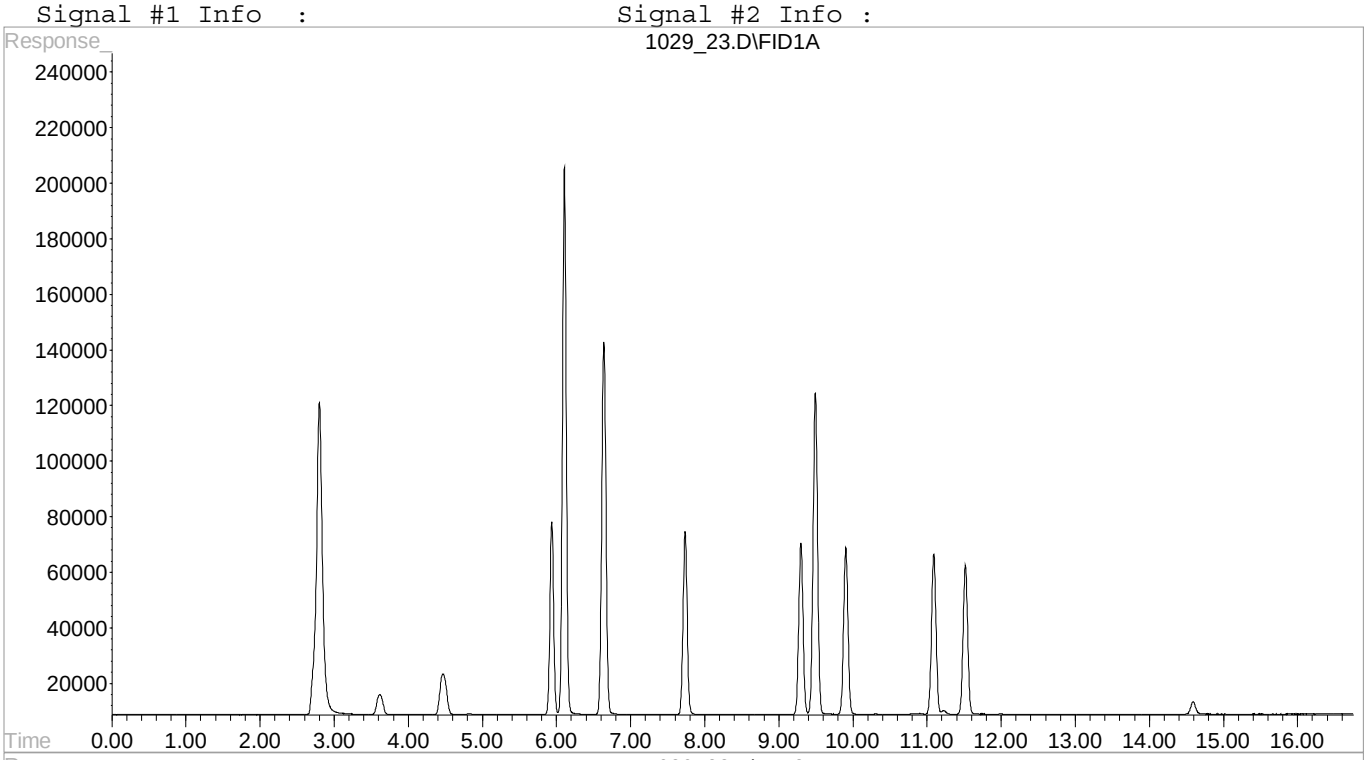
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	6.11	12641272	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 59 - 128		Recovery =	0.00%#	
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6708198	208.9906741	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery =	104.50%	
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	1737437	46.8423697	ppb
11) T,M benzene	5.94	5426099	48.4297742	ppb
12) T,M toluene	7.74	5509884	49.9444334	ppb
13) T,M ethylbenzene	9.30	5014927	50.0945004	ppb
14) T,M m&p-xylene	9.49	11087597	100.7185841	ppb
15) T,M o-xylene	9.90	4847348	49.6307622	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	6826285	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	4895253	NoCal	ppb
18) T,M Naphthalene	14.59	705383	NoCal	ppb

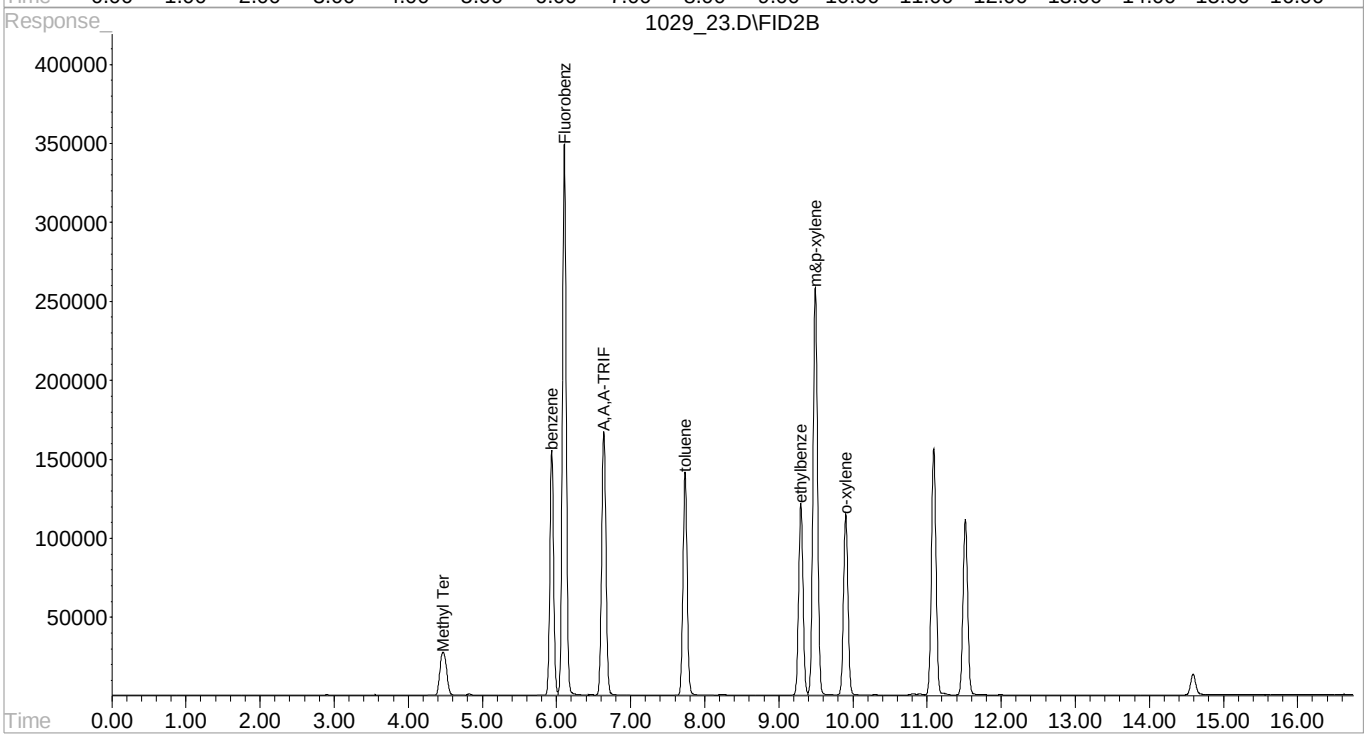
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 23.D\FID2B.CH
Acq On : 29 Oct 2014 10:22 pm Operator: 621
Sample : SSCV BTEX 50 ppb 14G09864 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:53 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC1	Analysis Date	: 10/30/14 0922	ICal Method	: 8015-8021
Lab File ID	: 1029_34	Quant Method	: BG01J30N	ICal Protocol	: SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	5787484	0	0.2	1.285591E+07	0			
benzene	2	8672135	0	0.2	1.285591E+07	0			
toluene	2	5.113988E+07	0	0.2	1.285591E+07	0			
ethylbenzene	2	1.060599E+07	0	0.2	1.285591E+07	0			
m&p-xylene	2	4.074058E+07	0	0.2	1.285591E+07	0			
o-xylene	2	1.459568E+07	0	0.2	1.285591E+07	0			
XYLENES, TOTAL	2	5.533626E+07	0	0.2	1.285591E+07	0			
1,3,5-Trimethylbenzene	2	6051511	0	0.2	1.285591E+07	0			
1,2,4-Trimethylbenzene	2	1.604343E+07	0	0.2	1.285591E+07	0			
Naphthalene	2	195522	0	0.2	1.285591E+07	0			
TPHG C6 - C12	1	1.681317E+08	5.5	0.2	7436946	0.8220955	80.9	80	120
TPH (GC/FID) Low Fraction	1	1.527417E+08	5.5	0.2	7436946	0.7468447	85.6	80	120
TPHG C5 - C12	1	1.828512E+08	5.5	0.2	7436946	0.8940679	85.2	80	120
TPHGAK C6 to C10	1	1.449652E+08	5.5	0.2	7436946	0.7088208	86	80	120

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	7436946	3930000	1.57E+07	6.1		
Fluorobenzene-2	1.285591E+07	0	0	6.1		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 34.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 34.D\FID2B.CH
Acq On : 30 Oct 2014 9:22 am Operator: 621
Sample : SSCV GRO 5.5g ppm 14J27633 Inst : VOCGC1
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 9:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

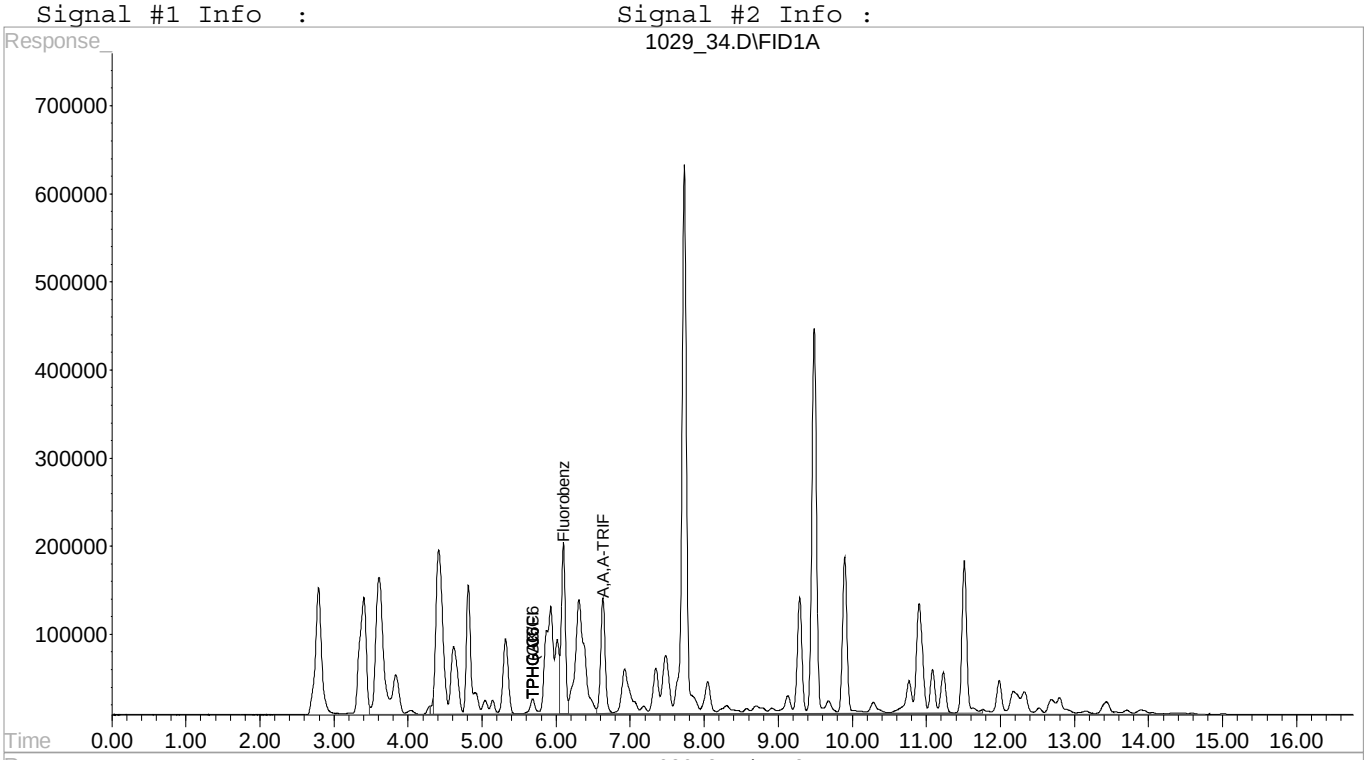
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7436946	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12855912	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5580867	198.3719216	ppb
Spiked Amount 200.000 Range 62 - 128 Recovery = 99.19%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	7412571	227.0794029	ppb
Spiked Amount 200.000 Range 55 - 122 Recovery = 113.54%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	182851212	4.6850458	ppm
3) H,M TPHG C6 - C12	5.70	168131750	4.4474233	ppm
4) h,m TPHGAK C6 to C10	5.70	144965168	4.7301271	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	152741658	4.7081181	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	5787484	153.4290293	ppb
11) T,M benzene	5.93	8672135	76.1094578	ppb
12) T,M toluene	7.73	51139885	455.8188770	ppb
13) T,M ethylbenzene	9.29	10605991	104.1752561	ppb
14) T,M m&p-xylene	9.49	40740584	363.9043945	ppb
15) T,M o-xylene	9.90	14595677	146.9463877	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	6051511	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	16043429	NoCal	ppb
18) T,M Naphthalene	14.59	195522	NoCal	ppb

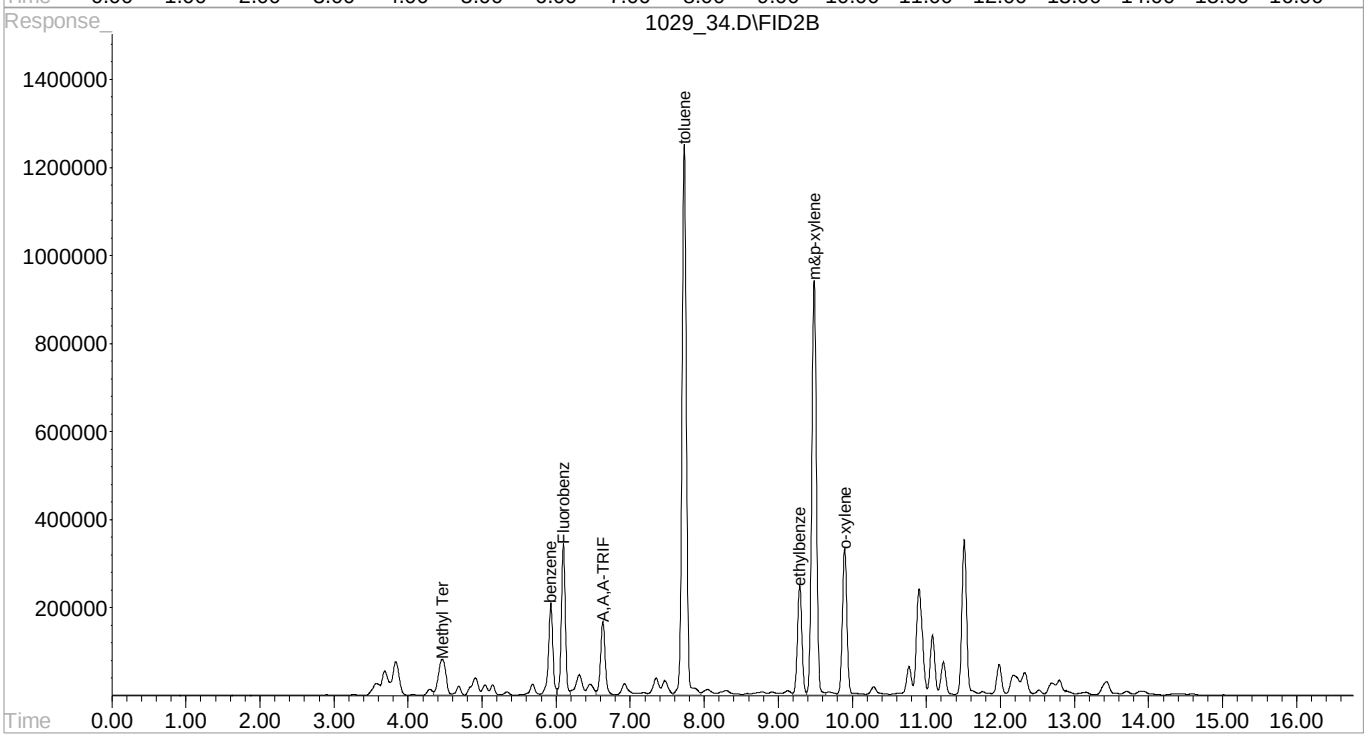
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 34.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 34.D\FID2B.CH
Acq On : 30 Oct 2014 9:22 am Operator: 621
Sample : SSCV GRO 5.5g ppm 14J27633 Inst : VOCGC1
Misc : water SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 9:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 09:00:02 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID1A.CH   Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID2B.CH
Acq On    : 29 Oct 2014   6:18 pm                    Operator: 621
Sample    : STD BTEX .5 ppb 14G09861                 Inst    : VOCGC1
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: BTEX.E       IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30  8:49 2014  Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC01
Last Update  : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

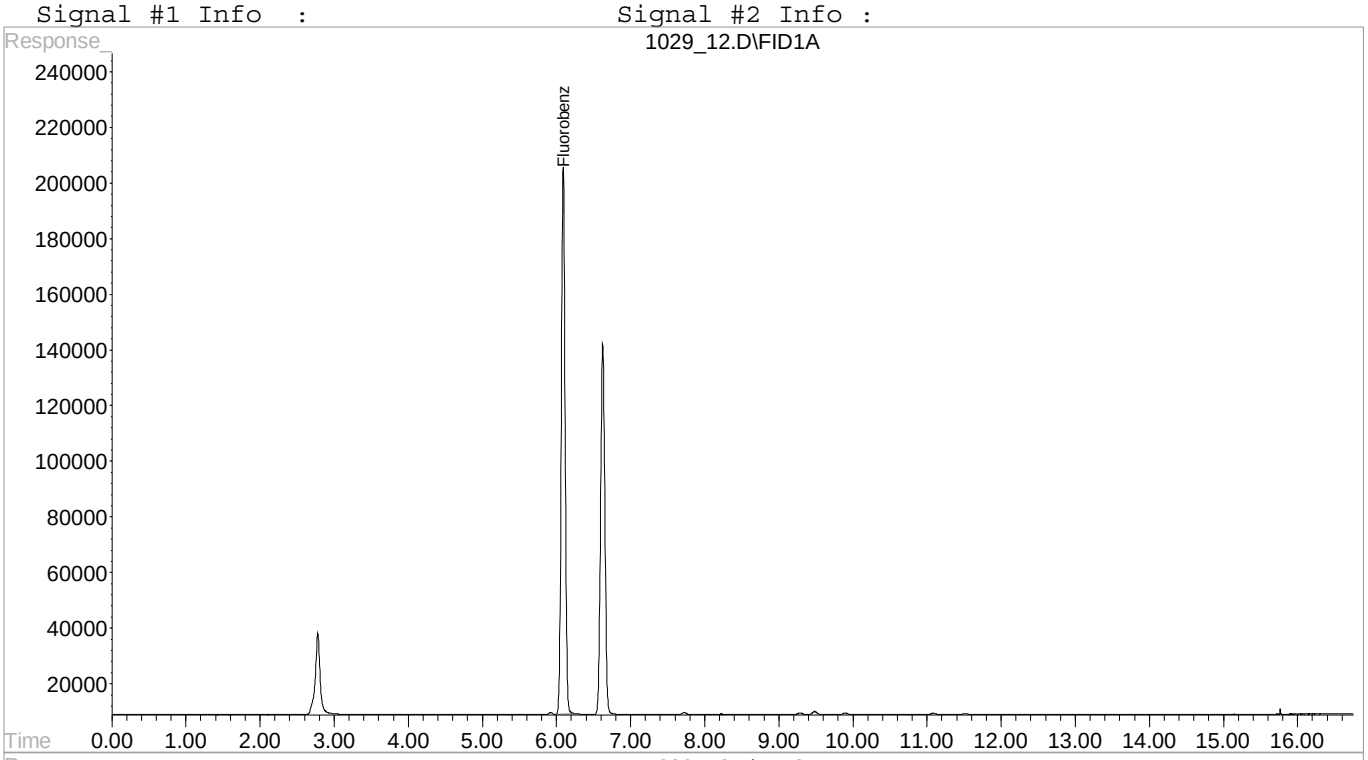
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7058674	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12826117	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5329351	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	6821353	210.1674042	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.08%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	697118	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	675210	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	440988	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	471694	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.44	39029	1.0836757	ppb
11) T,M benzene	5.92	69305	0.6353017	ppb
12) T,M toluene	7.73	91090	0.8435976	ppb
13) T,M ethylbenzene	9.29	60750	0.6189443	ppb
14) T,M m&p-xylene	9.48	134312	1.2456676	ppb
15) T,M o-xylene	9.89	64025	0.6772972	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	71171	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	47162	NoCal	ppb
18) T,M Naphthalene	14.67f	5707	NoCal	ppb

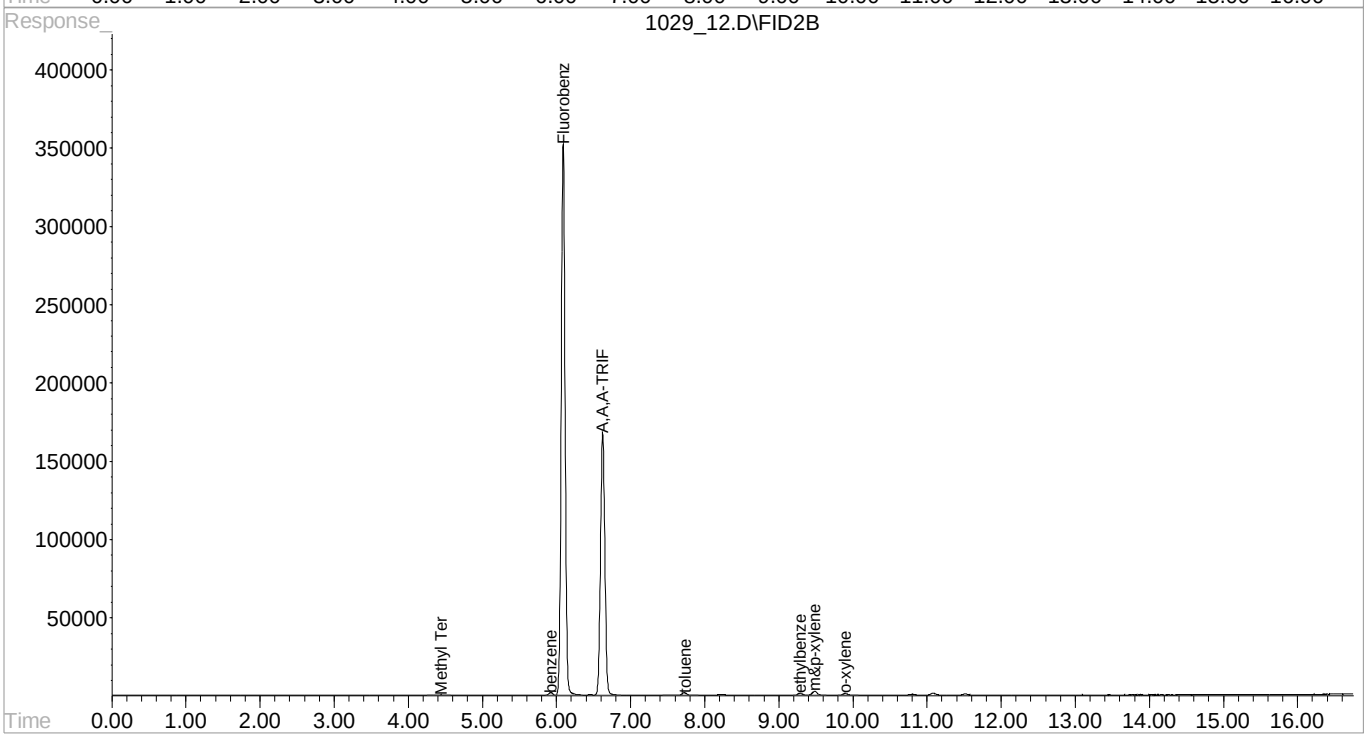
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID2B.CH
Acq On : 29 Oct 2014 6:18 pm Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID2B.CH
Acq On : 29 Oct 2014 6:18 pm Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

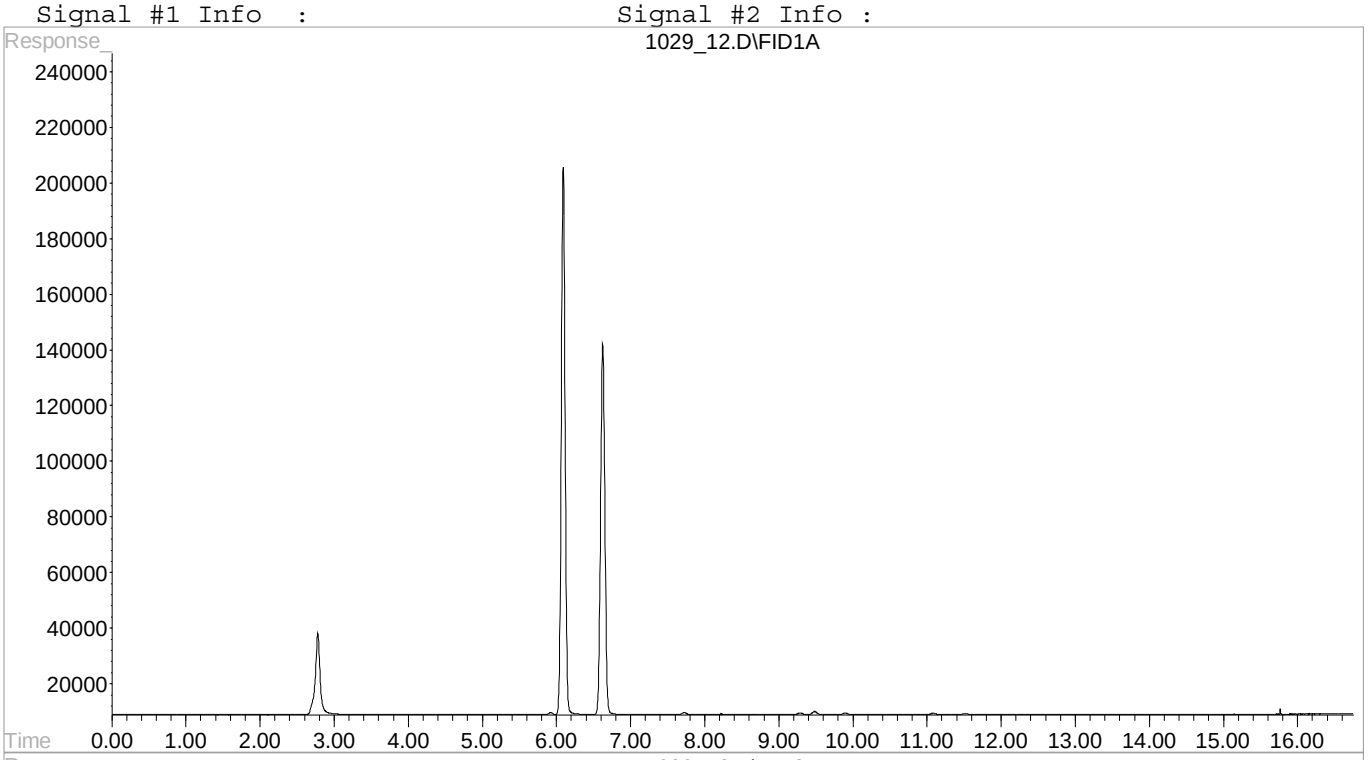
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I Fluorobenzene #2	6.09	12826117	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	6821353	210.1674042	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.08%		
Target Compounds				
2) H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4) h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M Methyl Tert-Butyl Ether	4.44	39029	1.0836757	ppb
11) T,M benzene	5.92	69305	0.6353017	ppb
12) T,M toluene	7.73	91090	0.8435976	ppb
13) T,M ethylbenzene	9.29	60750	0.6189443	ppb
14) T,M m&p-xylene	9.48	134312	1.2456676	ppb
15) T,M o-xylene	9.89	64025	0.6772972	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	71171	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	47162	NoCal	ppb
18) T,M Naphthalene	14.67f	5707	NoCal	ppb

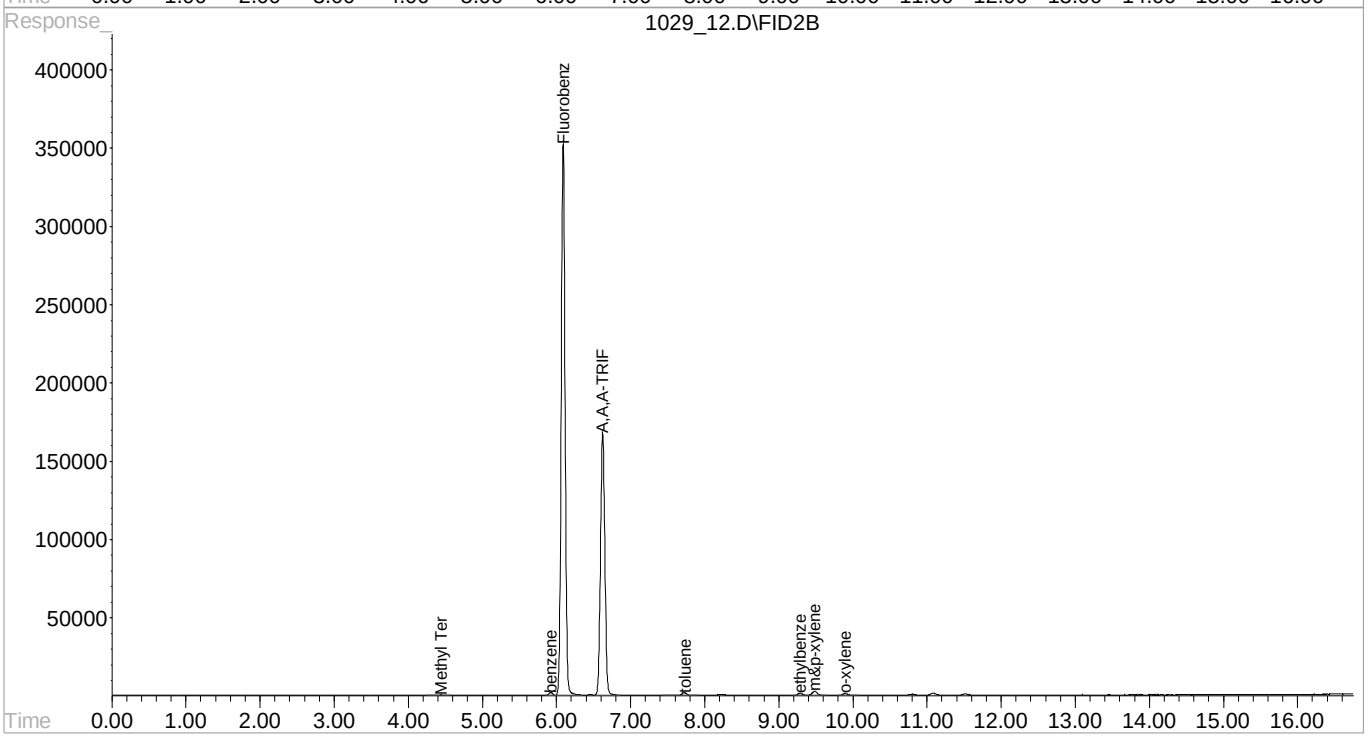
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 12.D\FID2B.CH
Acq On : 29 Oct 2014 6:18 pm Operator: 621
Sample : STD BTEX .5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID2B.CH
Acq On : 29 Oct 2014 6:40 pm Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

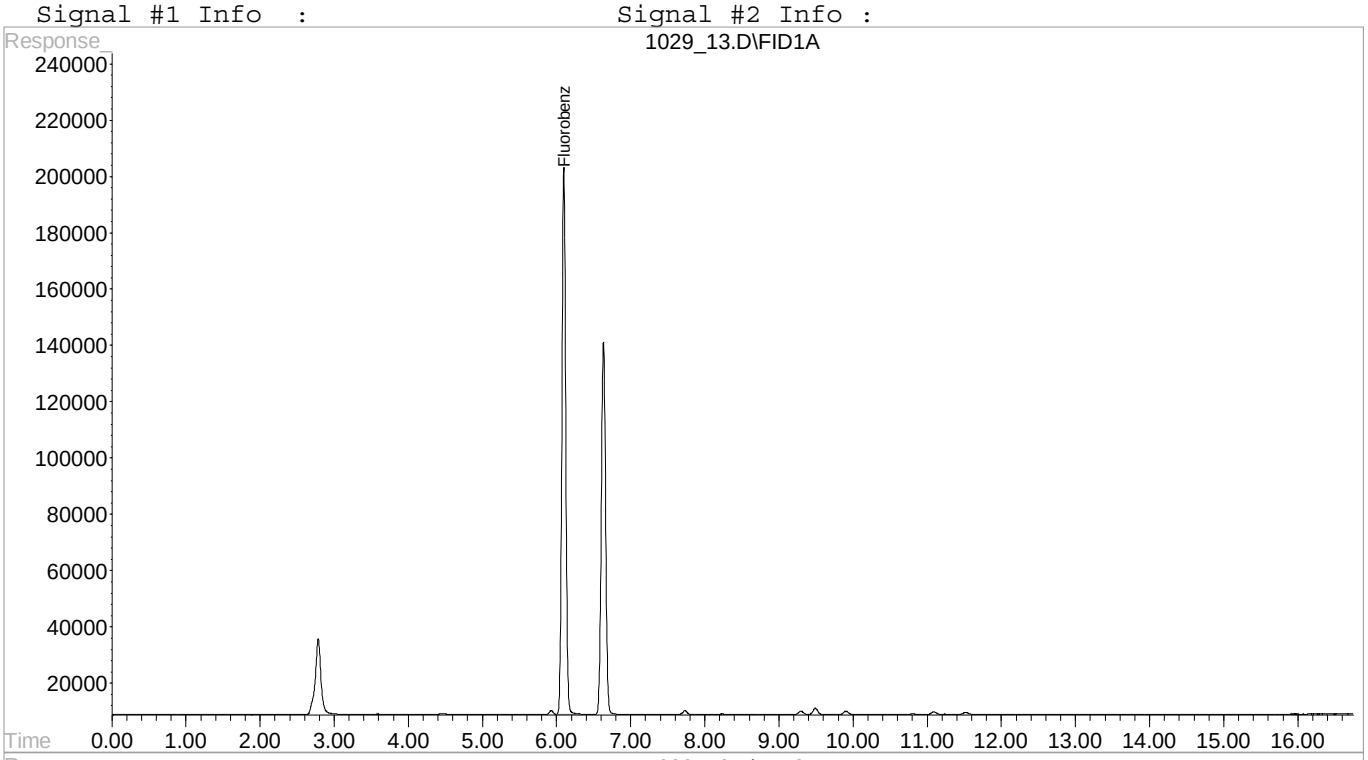
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	6988397	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12692857	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5286143	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 0.00%#				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6775547	210.9478012	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 105.47%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	875665	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	855791	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	678405	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	731454	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	54450	1.5277200	ppb
11) T,M benzene	5.93	128322	1.1886541	ppb
12) T,M toluene	7.73	138438	1.2955499	ppb
13) T,M ethylbenzene	9.30	110821	1.1409408	ppb
14) T,M m&p-xylene	9.49	245740	2.3030237	ppb
15) T,M o-xylene	9.90	106701	1.1405944	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	137751	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	88737	NoCal	ppb
18) T,M Naphthalene	14.63	5811	NoCal	ppb

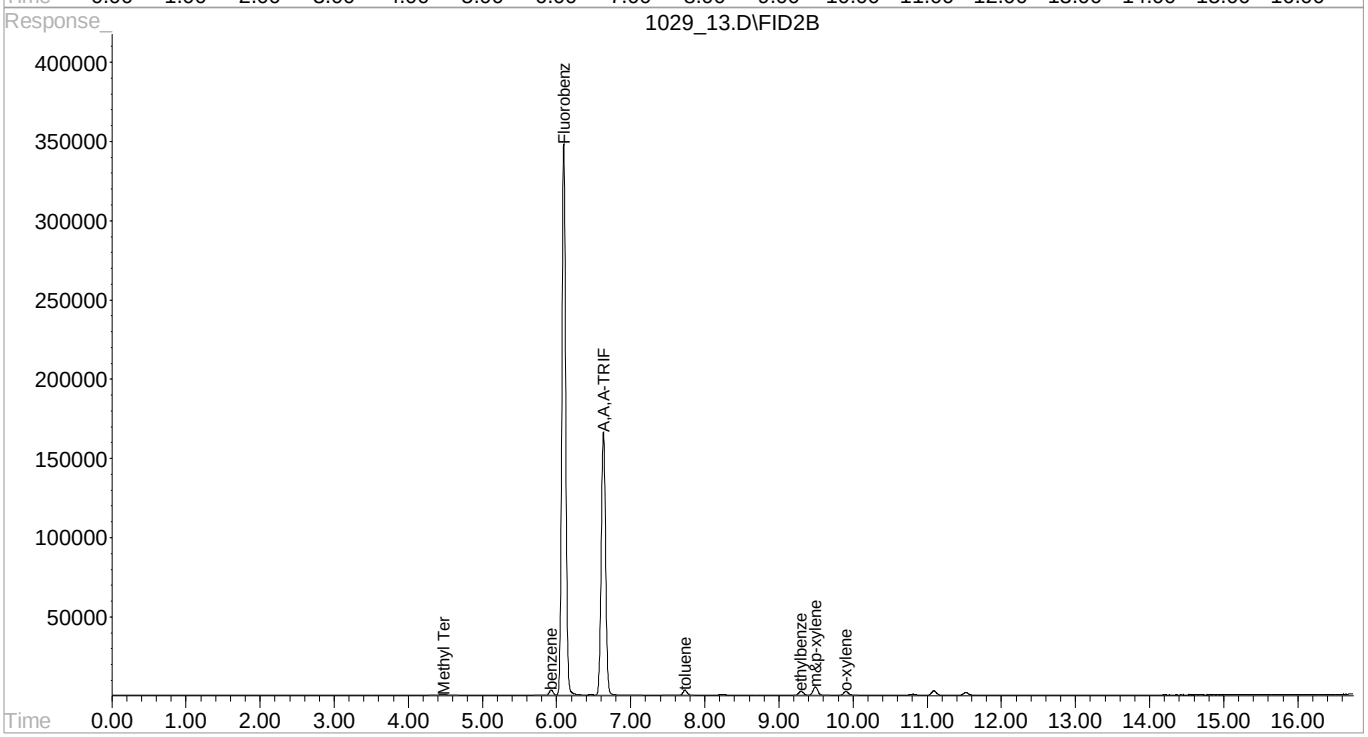
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID2B.CH
Acq On : 29 Oct 2014 6:40 pm Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID2B.CH
Acq On : 29 Oct 2014 6:40 pm Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

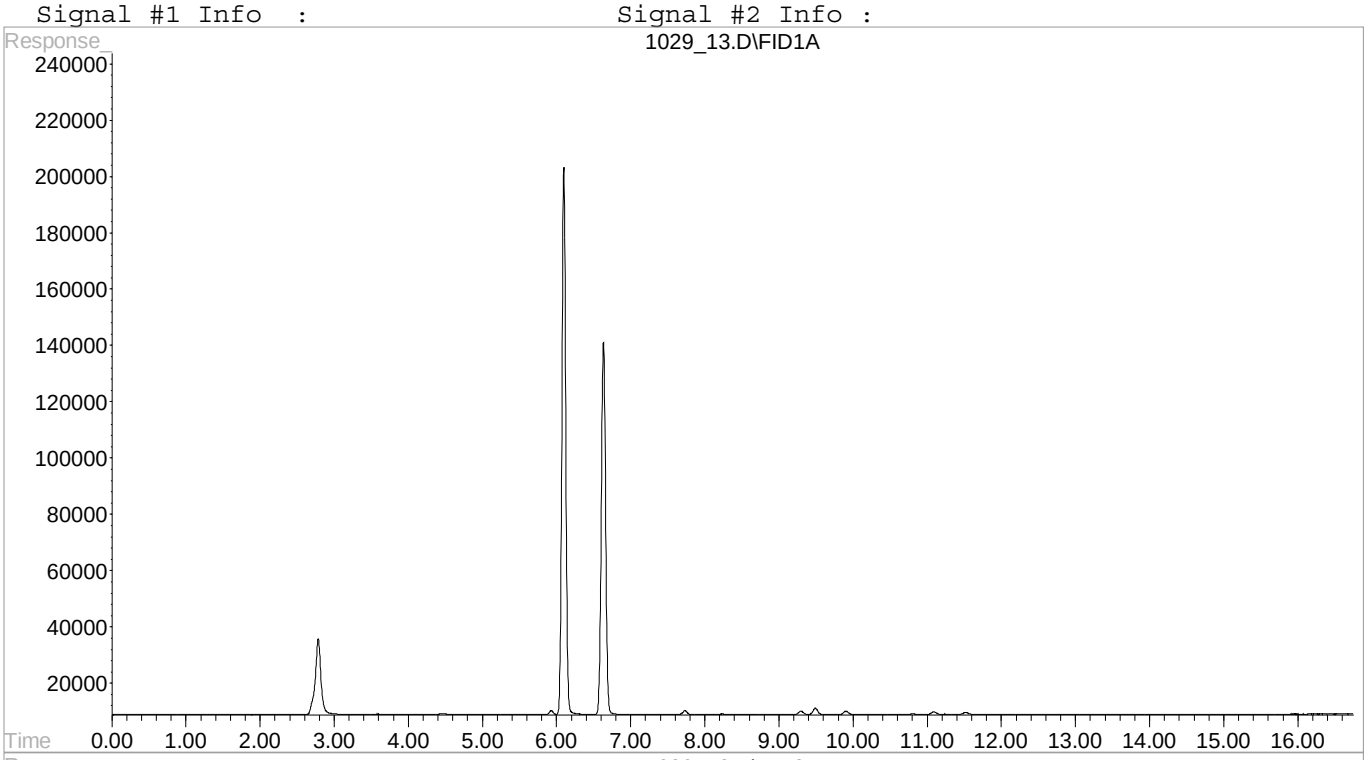
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.10	12692857	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6775547	210.9478012	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	105.47%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	54450	1.5277200	ppb
11)	T,M benzene	5.93	128322	1.1886541	ppb
12)	T,M toluene	7.73	138438	1.2955499	ppb
13)	T,M ethylbenzene	9.30	110821	1.1409408	ppb
14)	T,M m&p-xylene	9.49	245740	2.3030237	ppb
15)	T,M o-xylene	9.90	106701	1.1405944	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	137751	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	88737	NoCal	ppb
18)	T,M Naphthalene	14.63	5811	NoCal	ppb

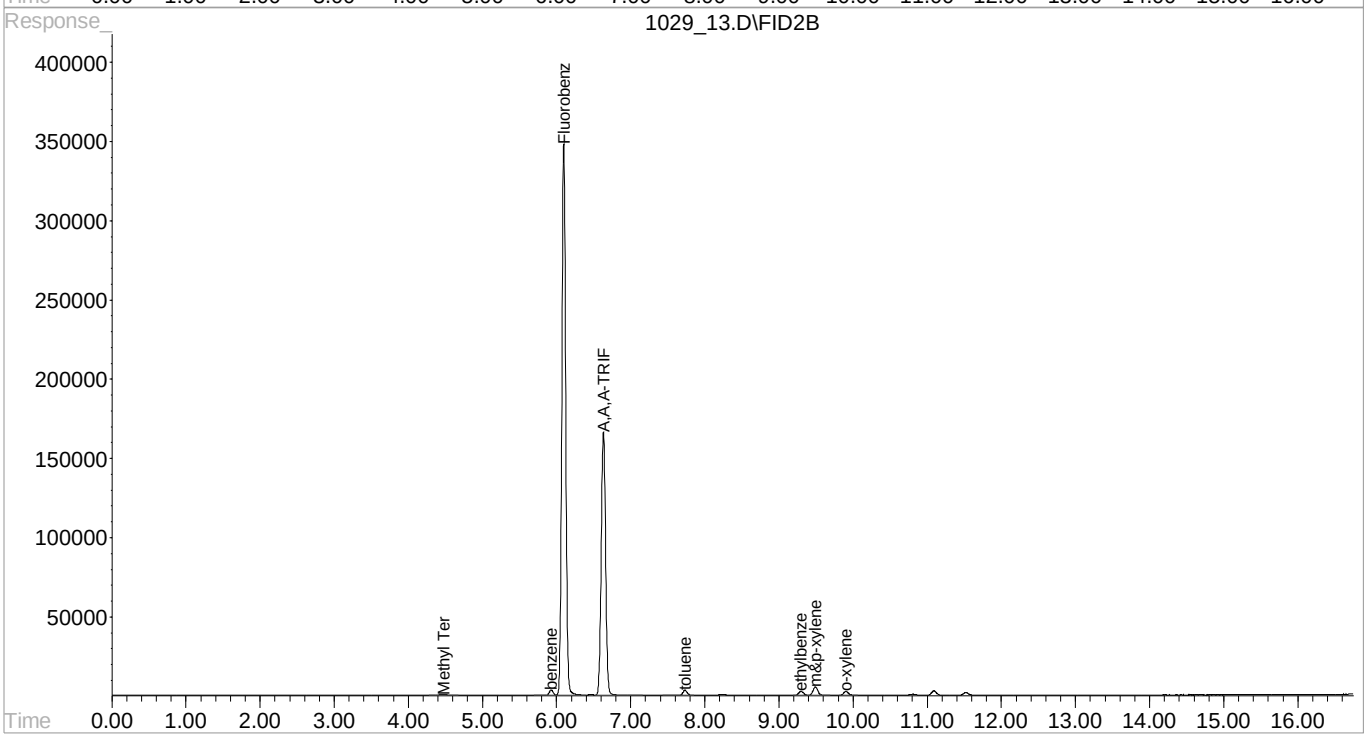
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 13.D\FID2B.CH
Acq On : 29 Oct 2014 6:40 pm Operator: 621
Sample : STD BTEX 1 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On : 29 Oct 2014 7:02 pm Operator: 621
Sample : STD BTEX 5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

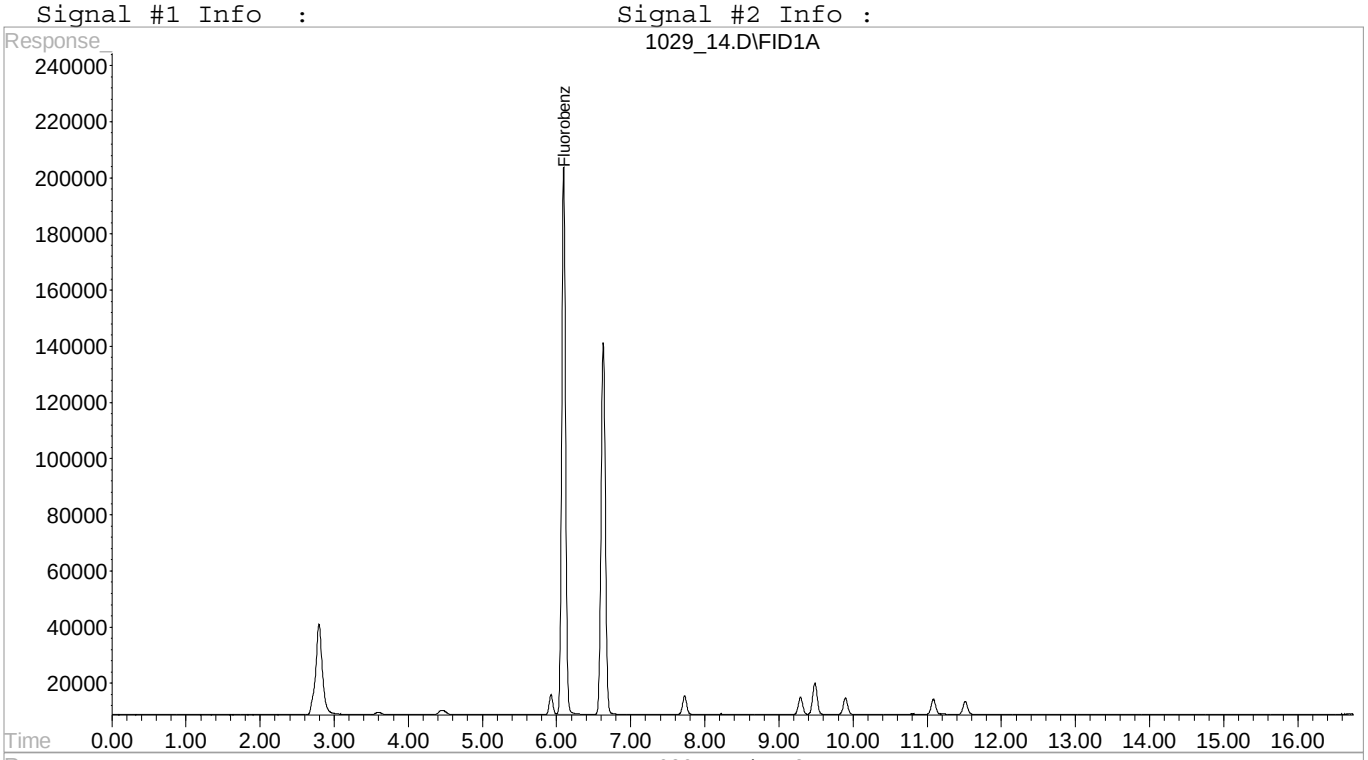
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	6988355	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12649283	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5289348	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 0.00%#				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6746825	210.7771466	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 105.39%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	2553407	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	2493048	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	2139192	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	2358262	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	209033	5.8850780	ppb
11) T,M benzene	5.93	595177	5.5321506	ppb
12) T,M toluene	7.73	607808	5.7076600	ppb
13) T,M ethylbenzene	9.29	534876	5.5257005	ppb
14) T,M m&p-xylene	9.49	1182096	11.1165394	ppb
15) T,M o-xylene	9.90	531924	5.7056696	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	697364	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	462782	NoCal	ppb
18) T,M Naphthalene	14.64	11881	NoCal	ppb

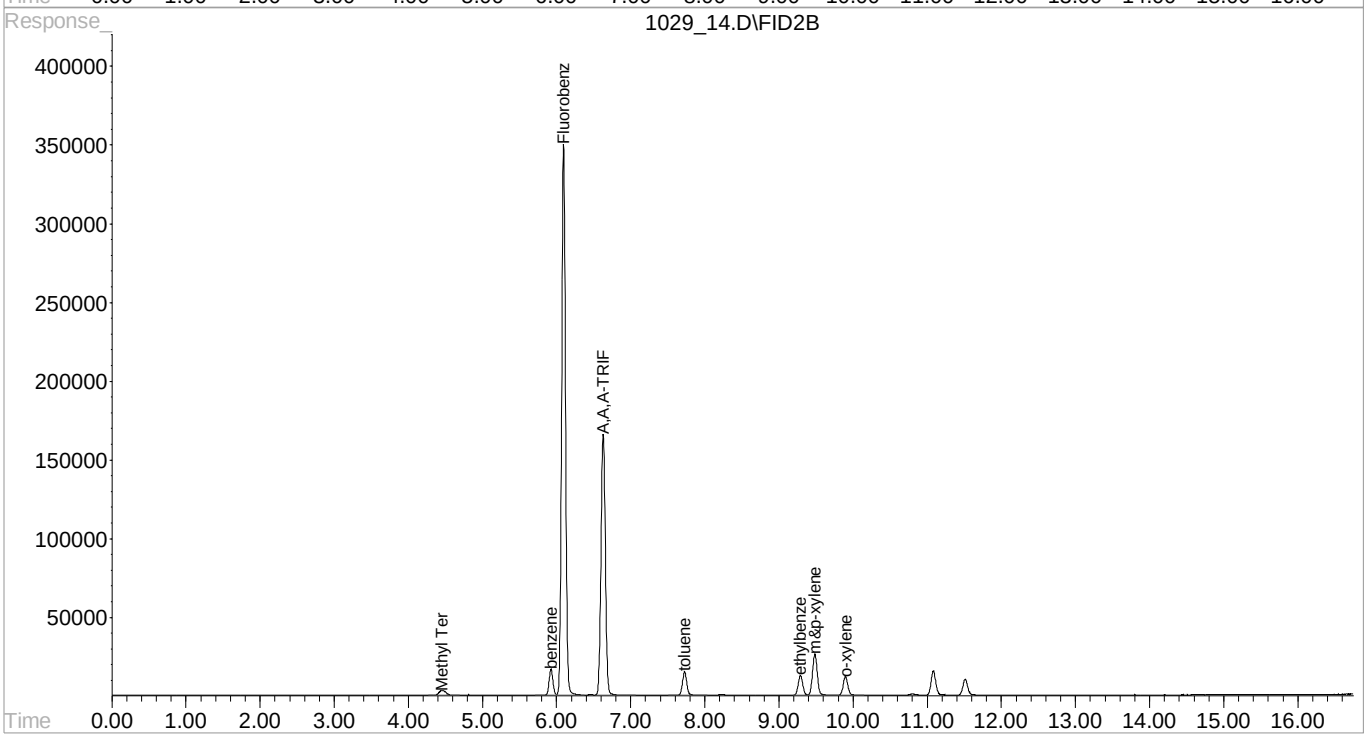
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On : 29 Oct 2014 7:02 pm Operator: 621
Sample : STD BTEX 5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID1A.CH   Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On    : 29 Oct 2014   7:02 pm                    Operator: 621
Sample    : STD BTEX 5 ppb 14G09861                  Inst    : VOCGC1
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: BTEX.E       IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30  8:50 2014  Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC01
Last Update  : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

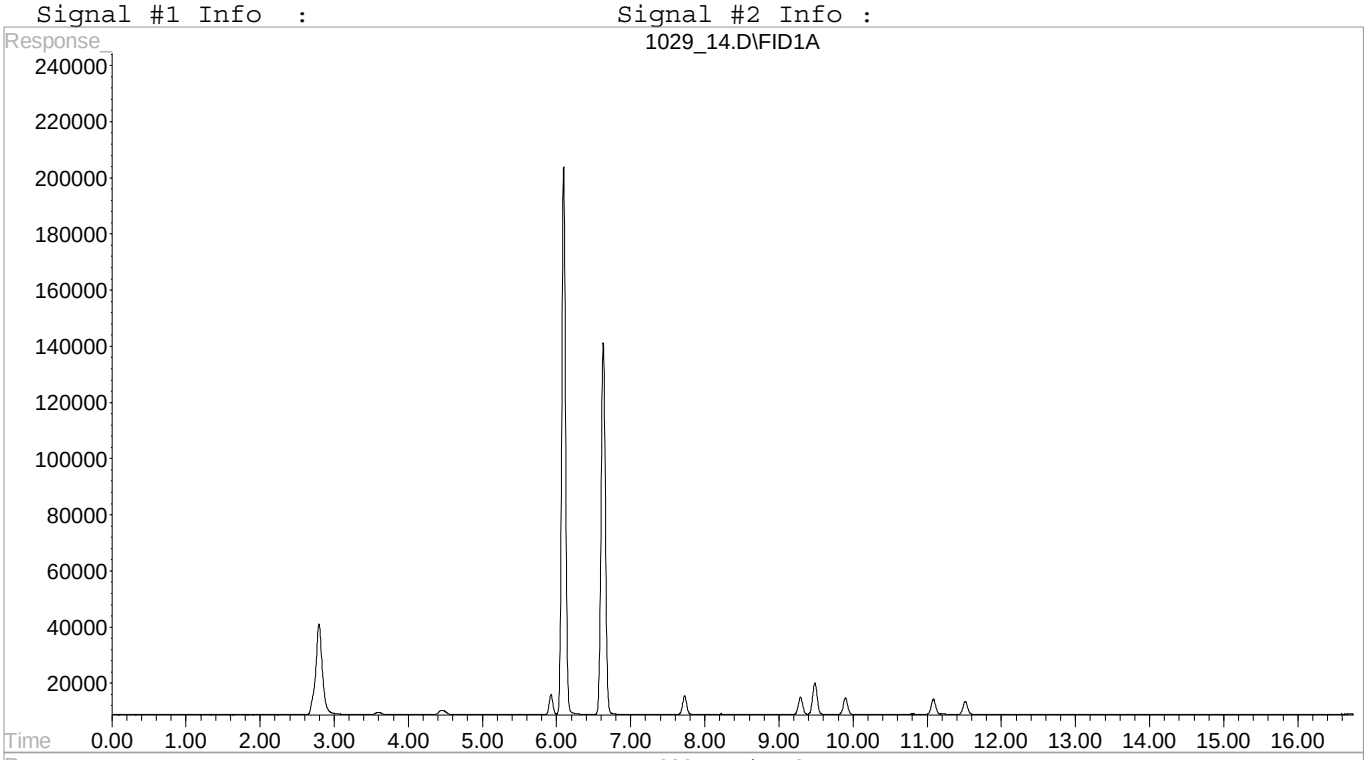
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I	Fluorobenzene #2	6.10	12649283	200.0000000	ppb
	System Monitoring Compounds				
6) S	A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9) S	A,A,A-TRIFLUOROTOLUENE(PID	6.63	6746825	210.7771466	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	105.39%		
	Target Compounds				
2) H,M	TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M	TPHG C6 - C12	0.00	0	N.D.	ppm
4) h,m	TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) h,m	TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M	Methyl Tert-Butyl Ether	4.46	209033	5.8850780	ppb
11) T,M	benzene	5.93	595177	5.5321506	ppb
12) T,M	toluene	7.73	607808	5.7076600	ppb
13) T,M	ethylbenzene	9.29	534876	5.5257005	ppb
14) T,M	m&p-xylene	9.49	1182096	11.1165394	ppb
15) T,M	o-xylene	9.90	531924	5.7056696	ppb
16) T,M	1,3,5-Trimethylbenzene	11.09	697364	NoCal	ppb
17) T,M	1,2,4-Trimethylbenzene	11.51	462782	NoCal	ppb
18) T,M	Naphthalene	14.64	11881	NoCal	ppb

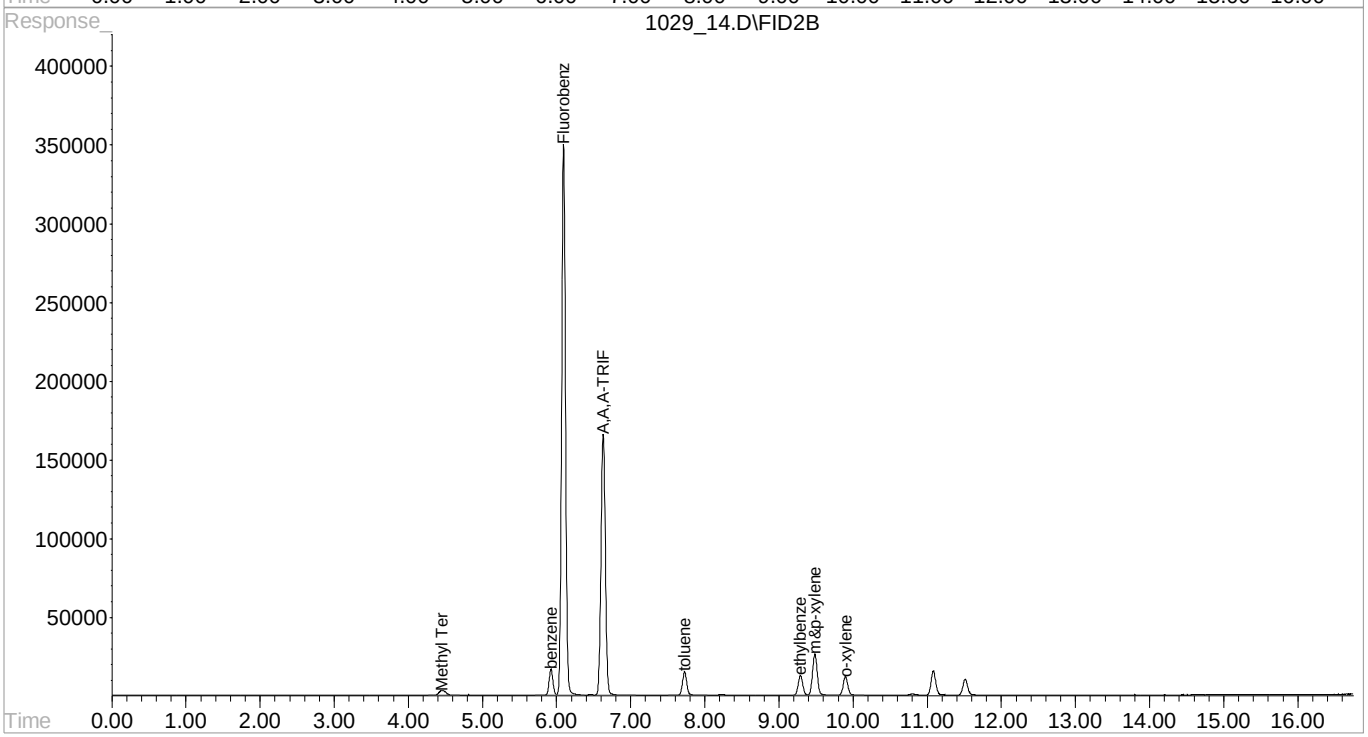
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 14.D\FID2B.CH
Acq On : 29 Oct 2014 7:02 pm Operator: 621
Sample : STD BTEX 5 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID2B.CH
Acq On : 29 Oct 2014 7:24 pm Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

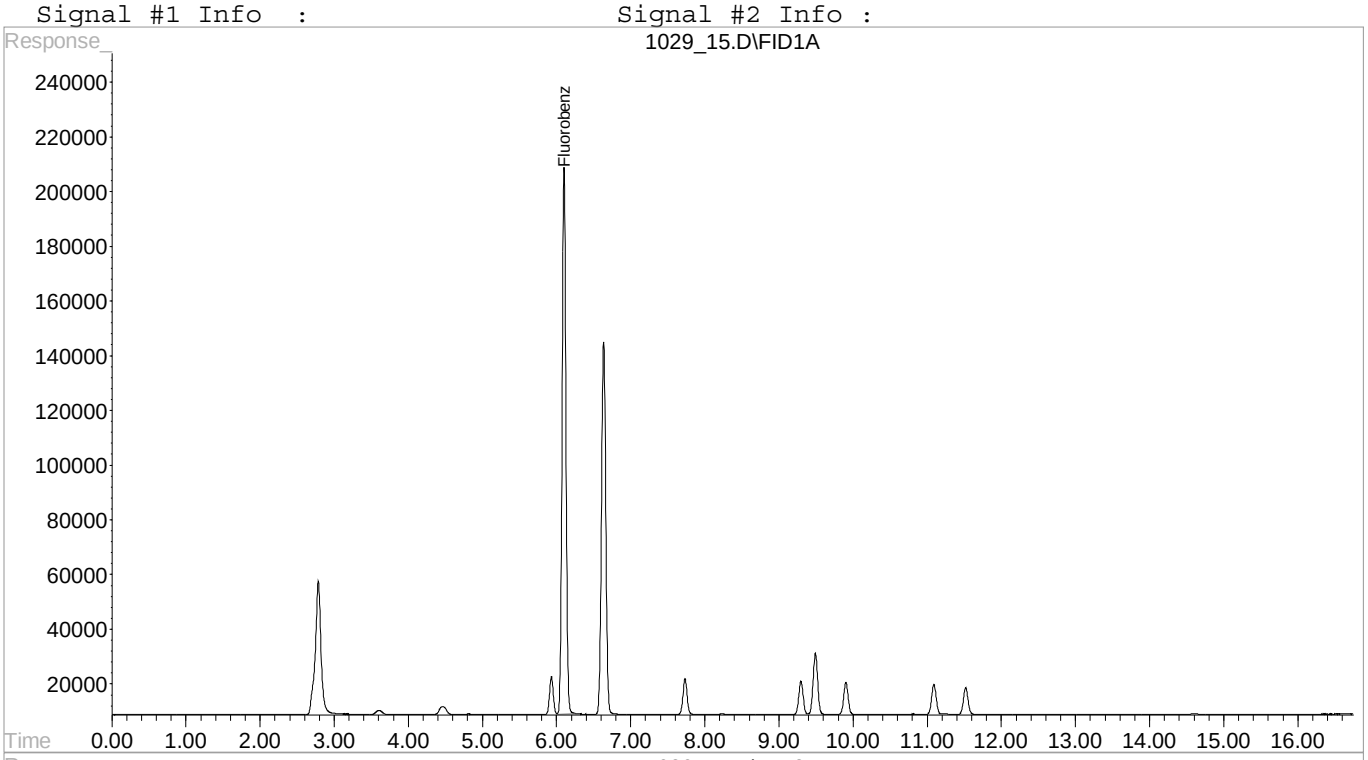
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7166752	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12986035	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5438504	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6920997	210.6115107	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.31%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	4679929	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	4567961	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	3944119	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	4410445	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	402847	11.0475728	ppb
11) T,M benzene	5.93	1150881	10.4199931	ppb
12) T,M toluene	7.73	1179280	10.7869361	ppb
13) T,M ethylbenzene	9.30	1038503	10.4503666	ppb
14) T,M m&p-xylene	9.49	2285879	20.9391638	ppb
15) T,M o-xylene	9.90	1015192	10.6070461	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	1384775	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	960962	NoCal	ppb
18) T,M Naphthalene	14.61	47111	NoCal	ppb

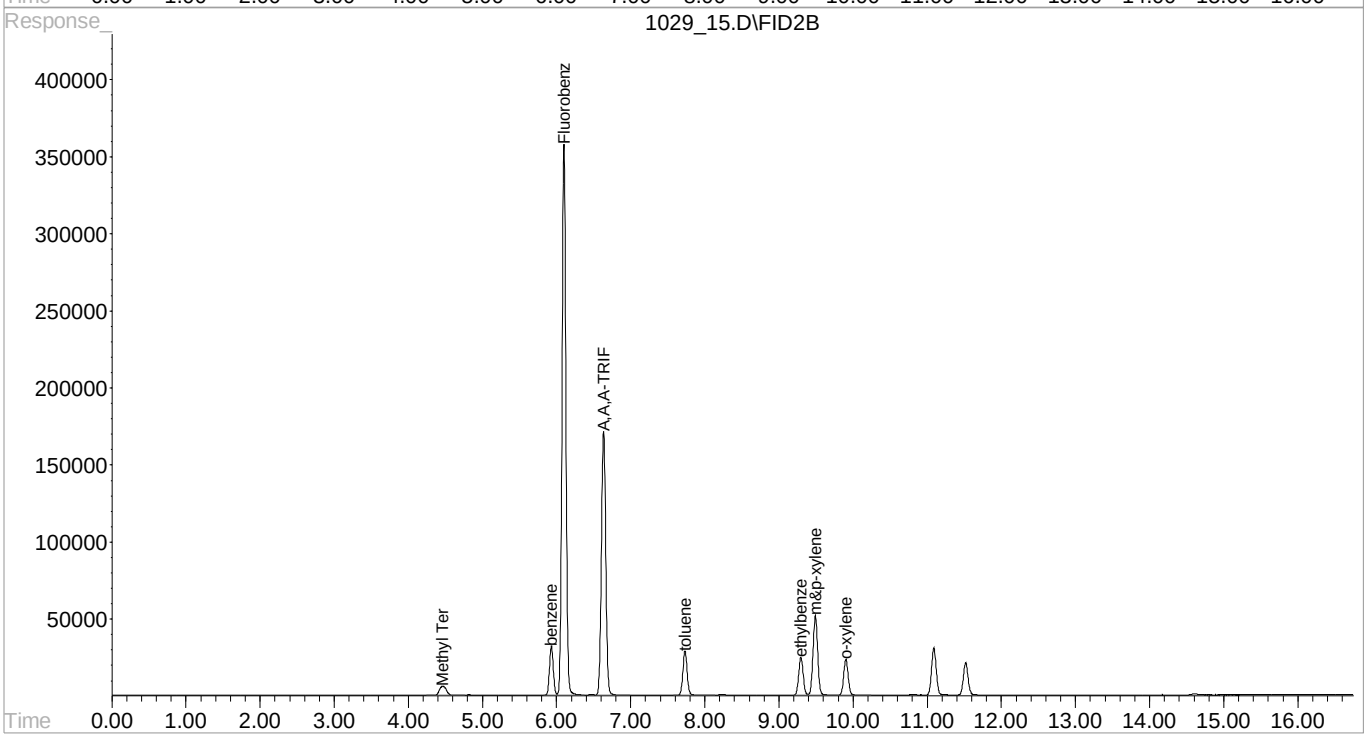
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID2B.CH
Acq On : 29 Oct 2014 7:24 pm Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID2B.CH
Acq On : 29 Oct 2014 7:24 pm Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

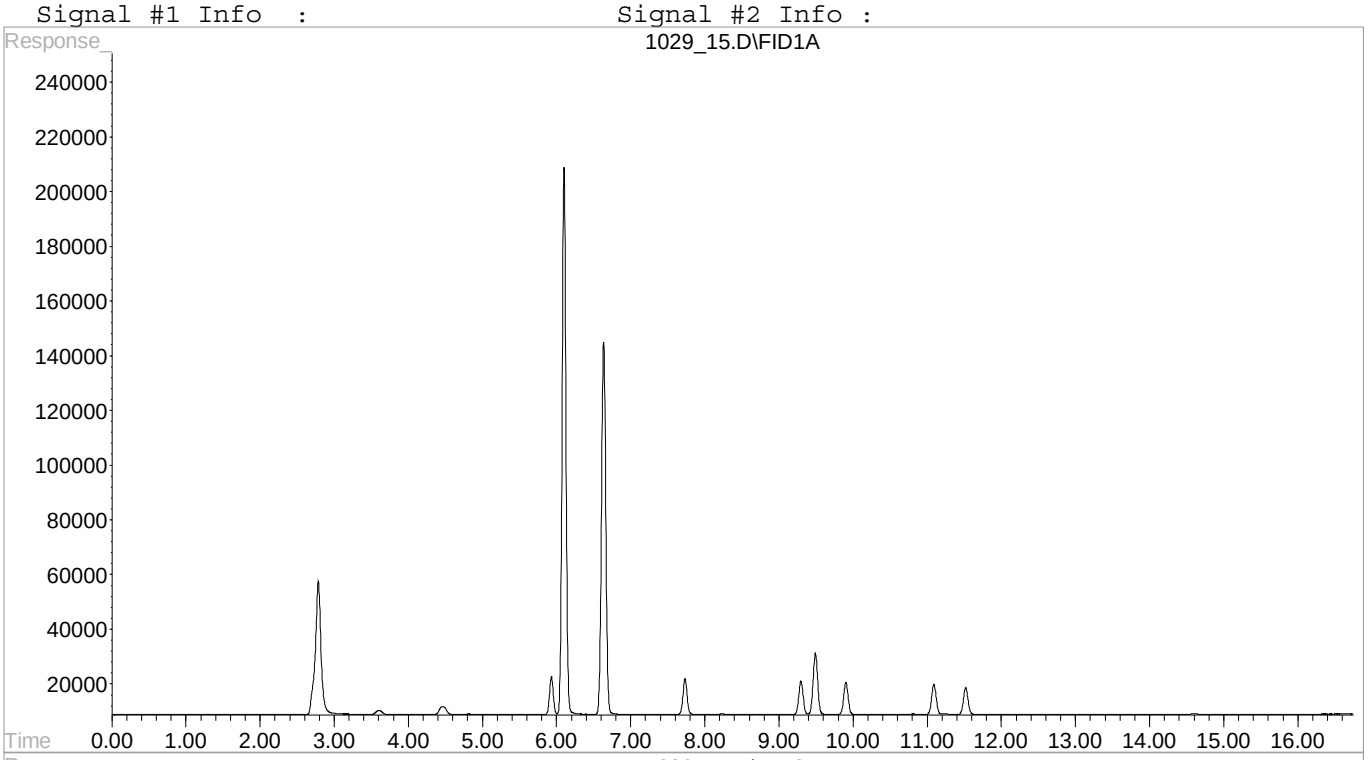
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.10	12986035	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6920997	210.6115107	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	105.31%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	402847	11.0475728	ppb
11)	T,M benzene	5.93	1150881	10.4199931	ppb
12)	T,M toluene	7.73	1179280	10.7869361	ppb
13)	T,M ethylbenzene	9.30	1038503	10.4503666	ppb
14)	T,M m&p-xylene	9.49	2285879	20.9391638	ppb
15)	T,M o-xylene	9.90	1015192	10.6070461	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	1384775	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	960962	NoCal	ppb
18)	T,M Naphthalene	14.61	47111	NoCal	ppb

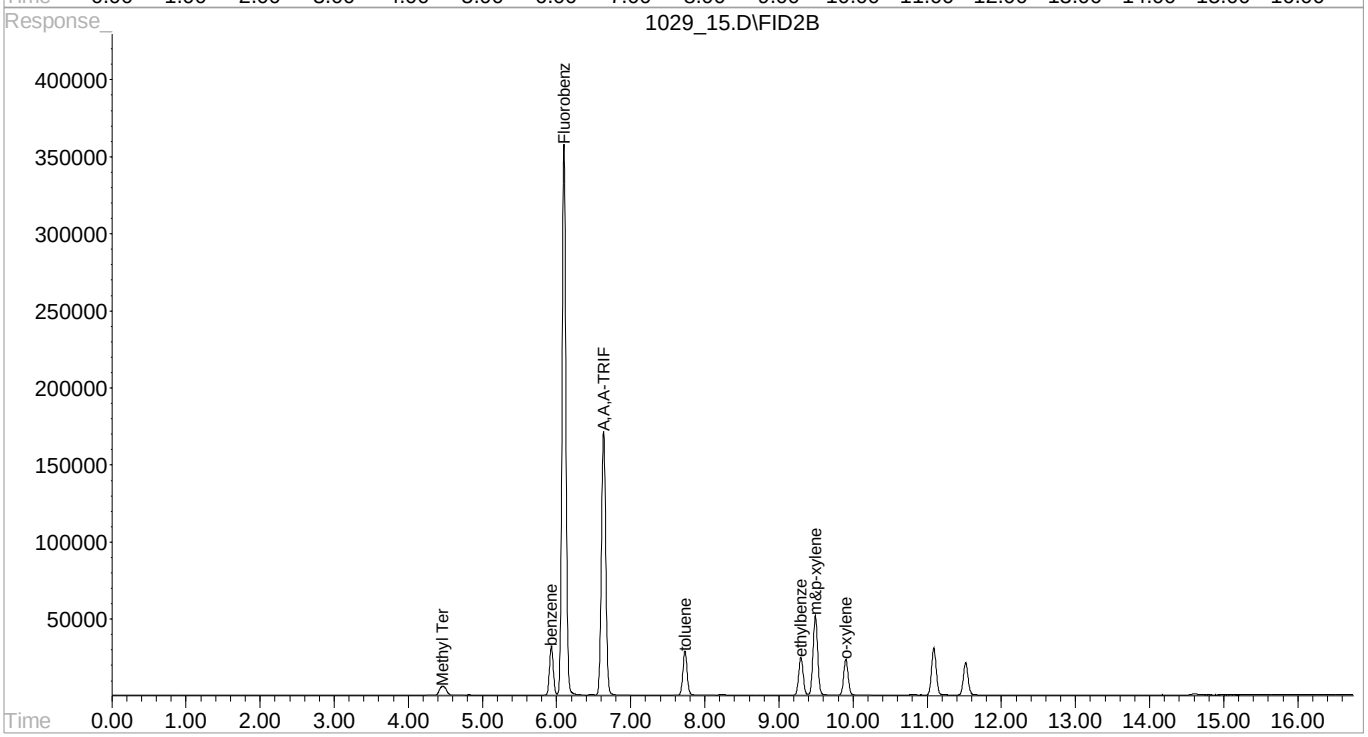
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 15.D\FID2B.CH
Acq On : 29 Oct 2014 7:24 pm Operator: 621
Sample : STD BTEX 10 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID2B.CH
Acq On : 29 Oct 2014 7:46 pm Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

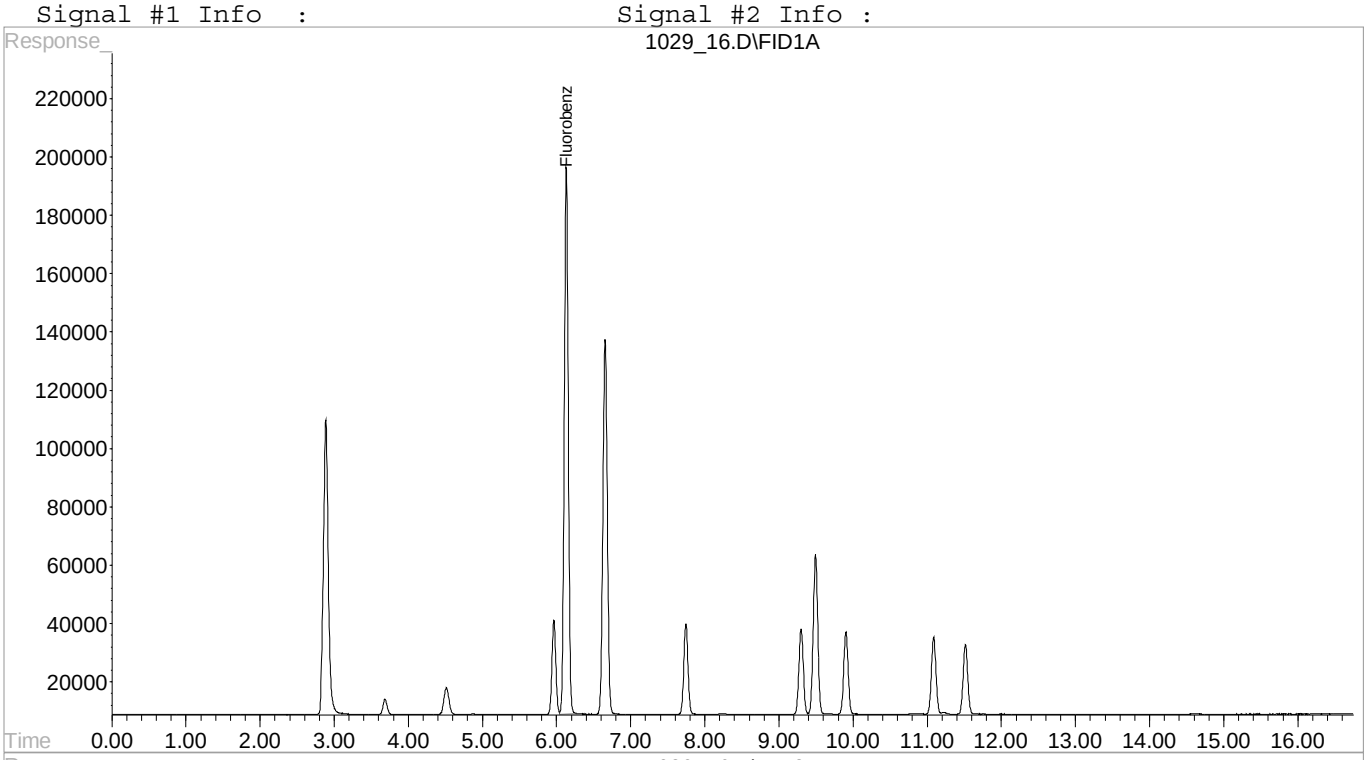
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.13	6995739	200.0000000	ppb
8) I Fluorobenzene #2	6.13	12747958	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.66	5303616	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.66	6792874	210.5731128	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.29%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	10577191	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	10335958	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	9160799	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	10229583	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.51	896178	25.0355192	ppb
11) T,M benzene	5.96	2767413	25.5238874	ppb
12) T,M toluene	7.74	2768108	25.7928905	ppb
13) T,M ethylbenzene	9.30	2479462	25.4165890	ppb
14) T,M m&p-xylene	9.49	5442406	50.7847057	ppb
15) T,M o-xylene	9.90	2379745	25.3286862	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	3247999	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	2287303	NoCal	ppb
18) T,M Naphthalene	14.60	49877	NoCal	ppb

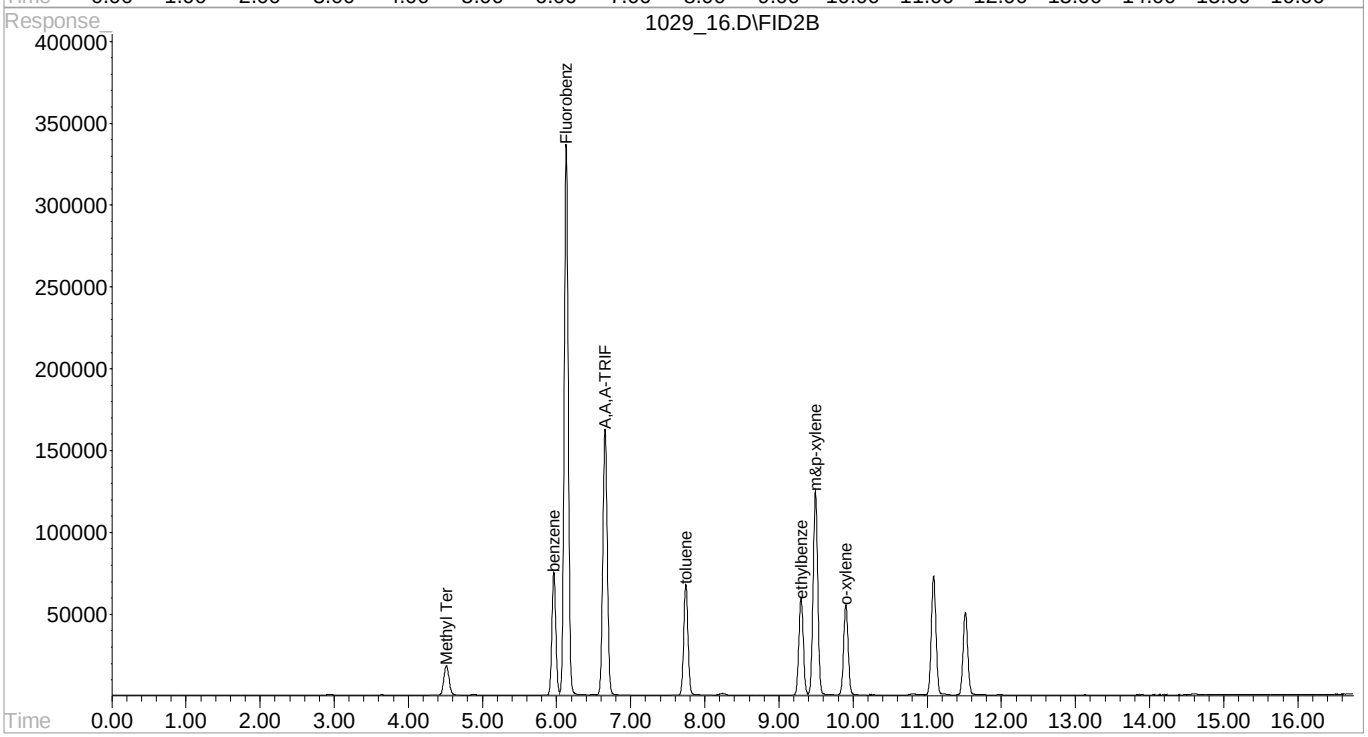
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID2B.CH
Acq On : 29 Oct 2014 7:46 pm Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID2B.CH
Acq On : 29 Oct 2014 7:46 pm Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

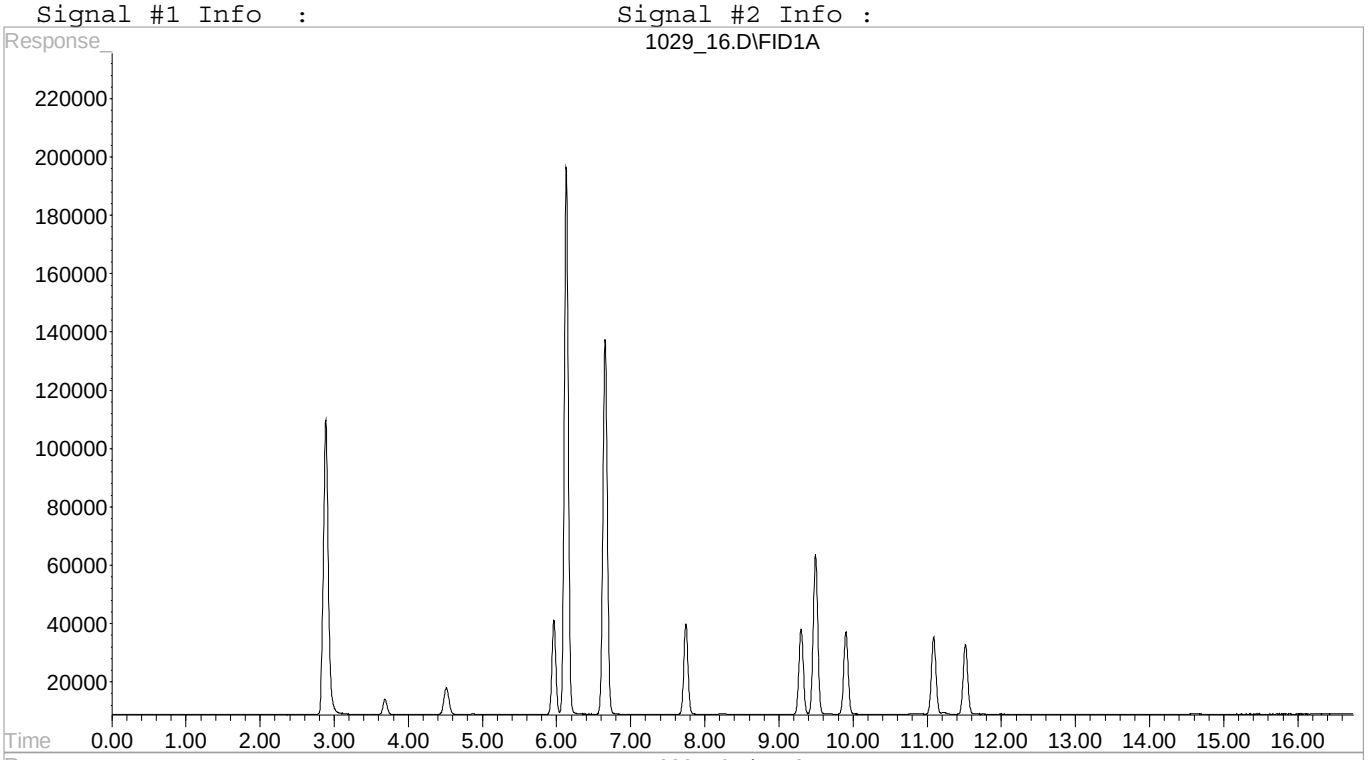
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.13	12747958	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.66	6792874	210.5731128	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	105.29%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.51	896178	25.0355192	ppb
11)	T,M benzene	5.96	2767413	25.5238874	ppb
12)	T,M toluene	7.74	2768108	25.7928905	ppb
13)	T,M ethylbenzene	9.30	2479462	25.4165890	ppb
14)	T,M m&p-xylene	9.49	5442406	50.7847057	ppb
15)	T,M o-xylene	9.90	2379745	25.3286862	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	3247999	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	2287303	NoCal	ppb
18)	T,M Naphthalene	14.60	49877	NoCal	ppb

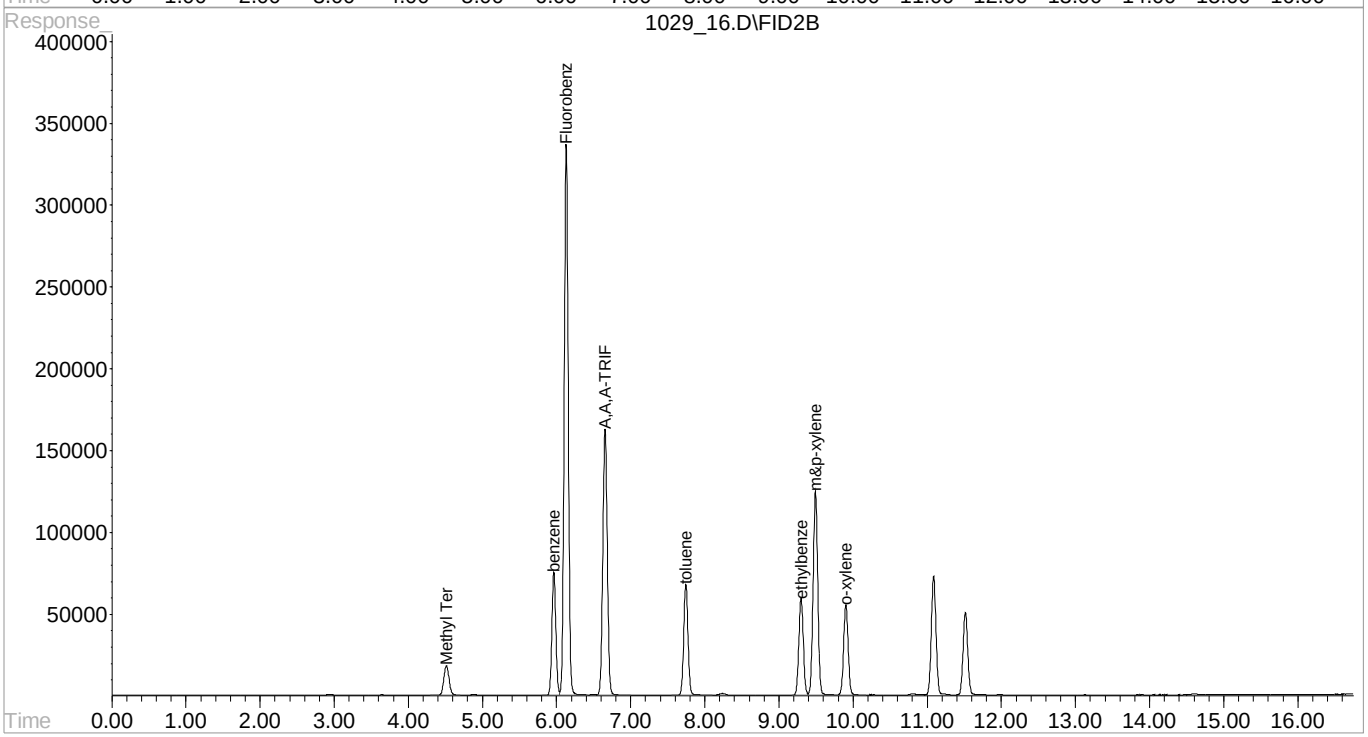
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 16.D\FID2B.CH
Acq On : 29 Oct 2014 7:46 pm Operator: 621
Sample : STD BTEX 25 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID2B.CH
Acq On : 29 Oct 2014 8:09 pm Operator: 621
Sample : MSTD BTEX 50 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

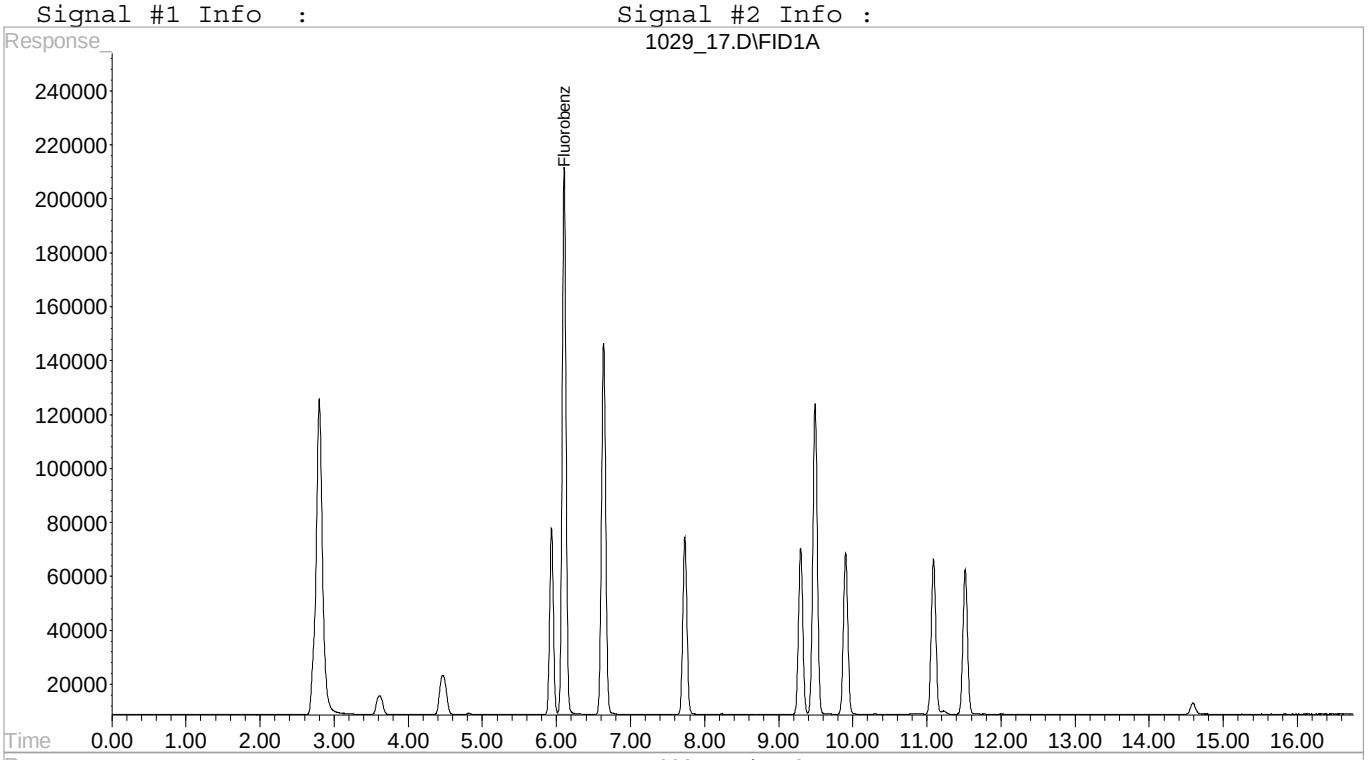
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	7271441	200.0000000	ppb
8) I Fluorobenzene #2	6.10	13240160	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5484339	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	7035947	210.0000000	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.00%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	21747385	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	21320693	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	18660758	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	21003430	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	1858919	50.0000000	ppb
11) T,M benzene	5.93	5630536	50.0000000	ppb
12) T,M toluene	7.73	5573212	50.0000000	ppb
13) T,M ethylbenzene	9.30	5065972	50.0000000	ppb
14) T,M m&p-xylene	9.49	11130396	100.0000000	ppb
15) T,M o-xylene	9.90	4879107	50.0000000	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	6855692	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	4902351	NoCal	ppb
18) T,M Naphthalene	14.59	662898	NoCal	ppb

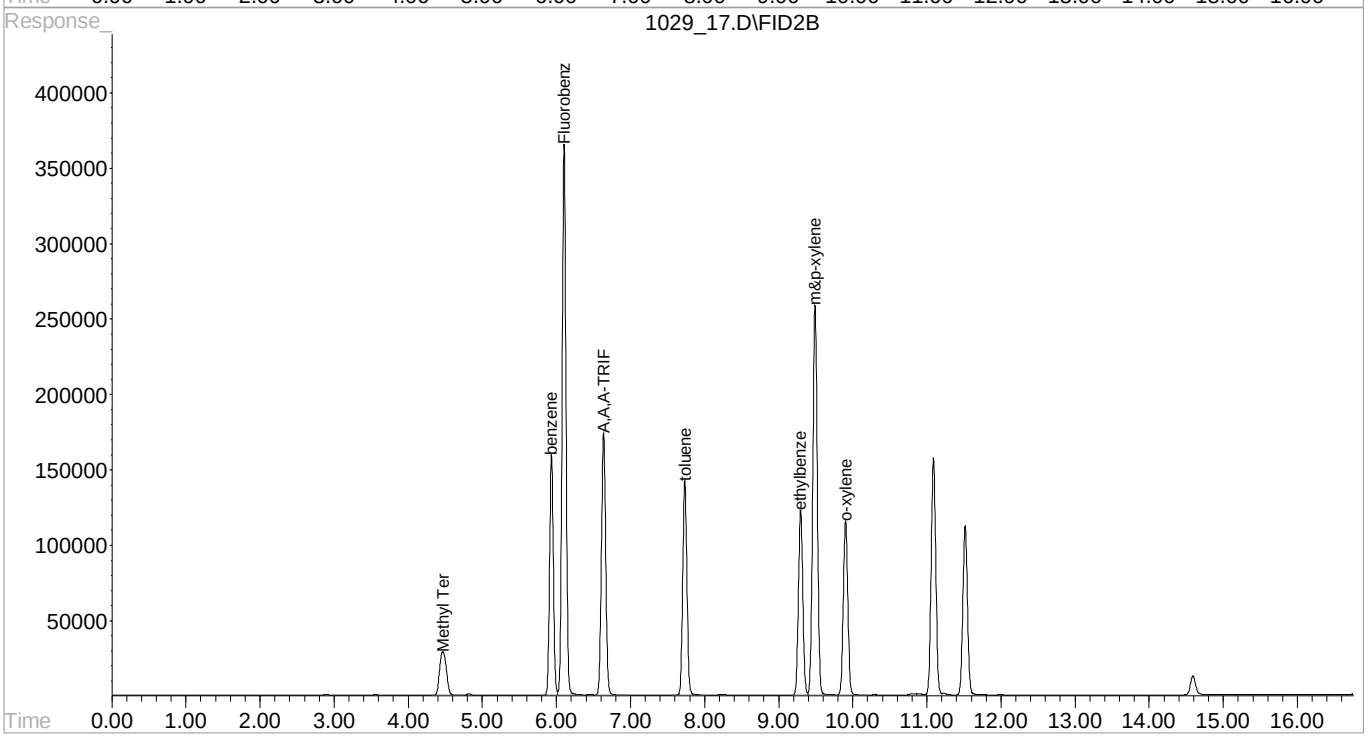
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID2B.CH
Acq On : 29 Oct 2014 8:09 pm Operator: 621
Sample : MSTD BTEX 50 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID2B.CH
Acq On : 29 Oct 2014 8:09 pm Operator: 621
Sample : MSTD BTEX 50 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

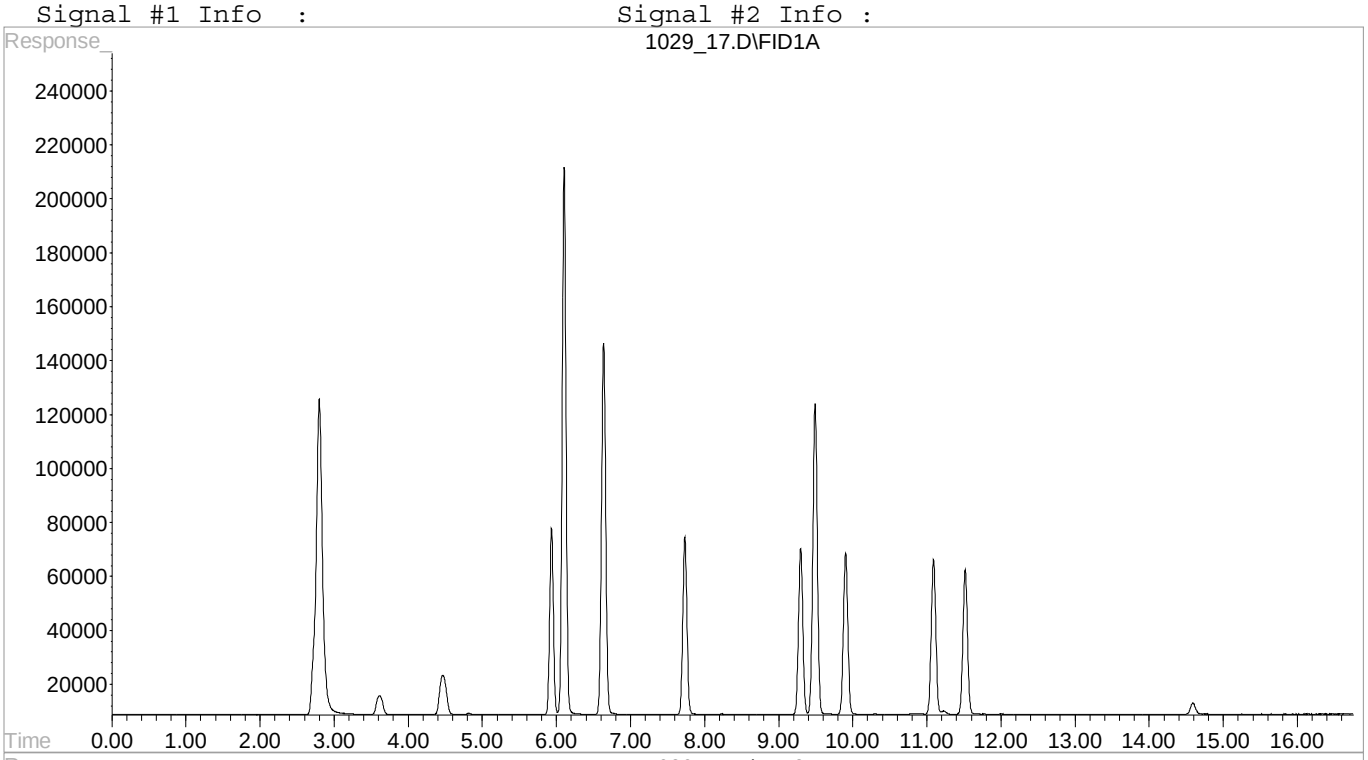
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.10	13240160	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	7035947	210.0000000	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	105.00%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	1858919	50.0000000	ppb
11)	T,M benzene	5.93	5630536	50.0000000	ppb
12)	T,M toluene	7.73	5573212	50.0000000	ppb
13)	T,M ethylbenzene	9.30	5065972	50.0000000	ppb
14)	T,M m&p-xylene	9.49	11130396	100.0000000	ppb
15)	T,M o-xylene	9.90	4879107	50.0000000	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	6855692	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	4902351	NoCal	ppb
18)	T,M Naphthalene	14.59	662898	NoCal	ppb

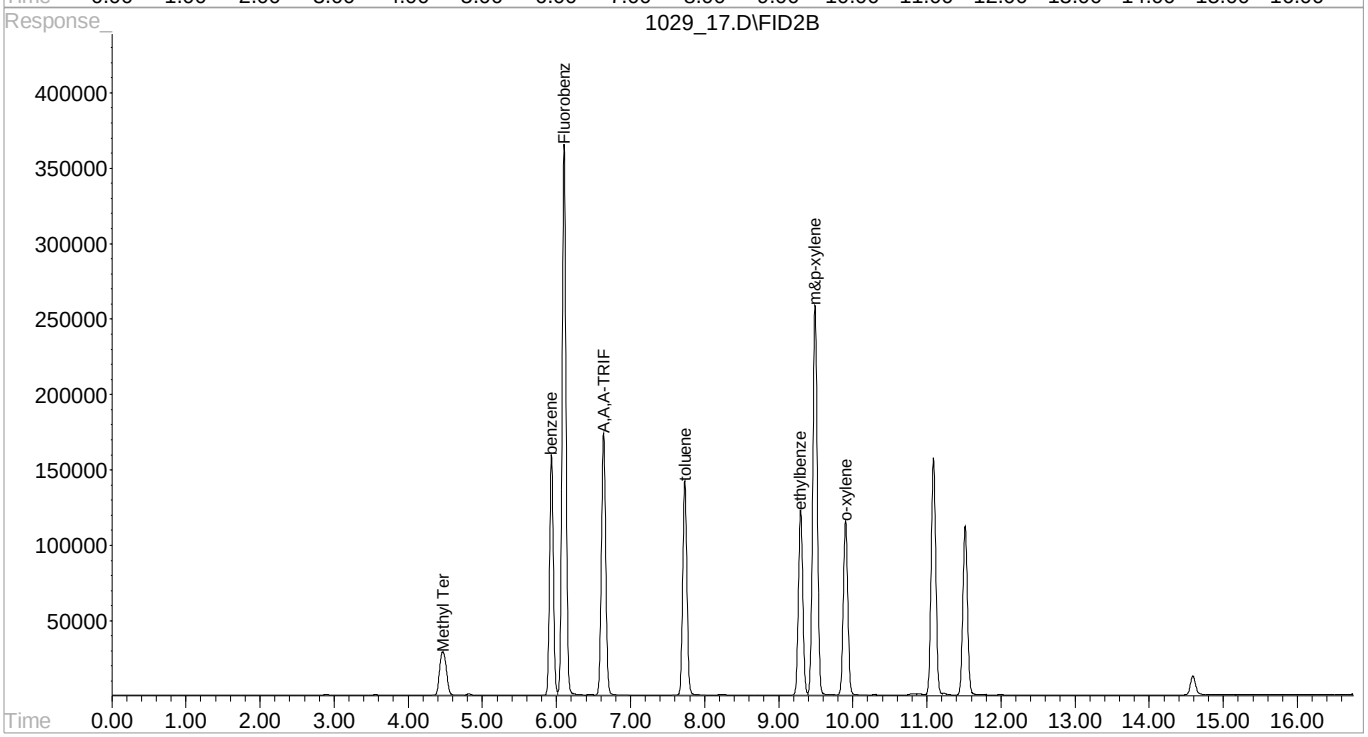
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 17.D\FID2B.CH
Acq On : 29 Oct 2014 8:09 pm Operator: 621
Sample : MSTD BTEX 50 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID2B.CH
Acq On : 29 Oct 2014 8:31 pm Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

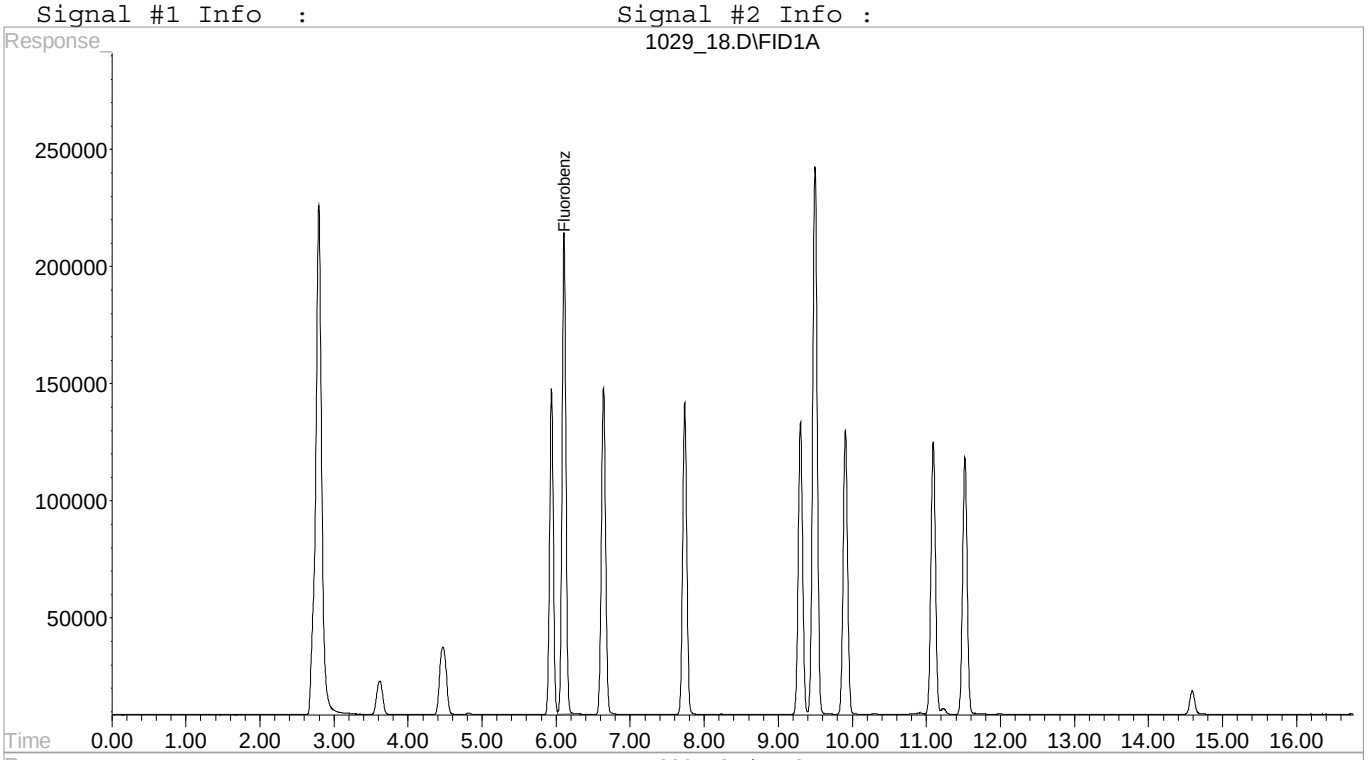
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	7348338	200.0000000	ppb
8) I Fluorobenzene #2	6.11	13356903	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5549294	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	7042057	208.3453099	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 104.17%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	43612218	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	42796018	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	37426124	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	42197283	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	3541026	94.4117745	ppb
11) T,M benzene	5.94	11113758	97.8292434	ppb
12) T,M toluene	7.74	10995979	97.7880457	ppb
13) T,M ethylbenzene	9.30	10047408	98.2989204	ppb
14) T,M m&p-xylene	9.50	22088283	196.7156068	ppb
15) T,M o-xylene	9.91	9650681	98.0336251	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	13604778	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	9853183	NoCal	ppb
18) T,M Naphthalene	14.59	1439643	NoCal	ppb

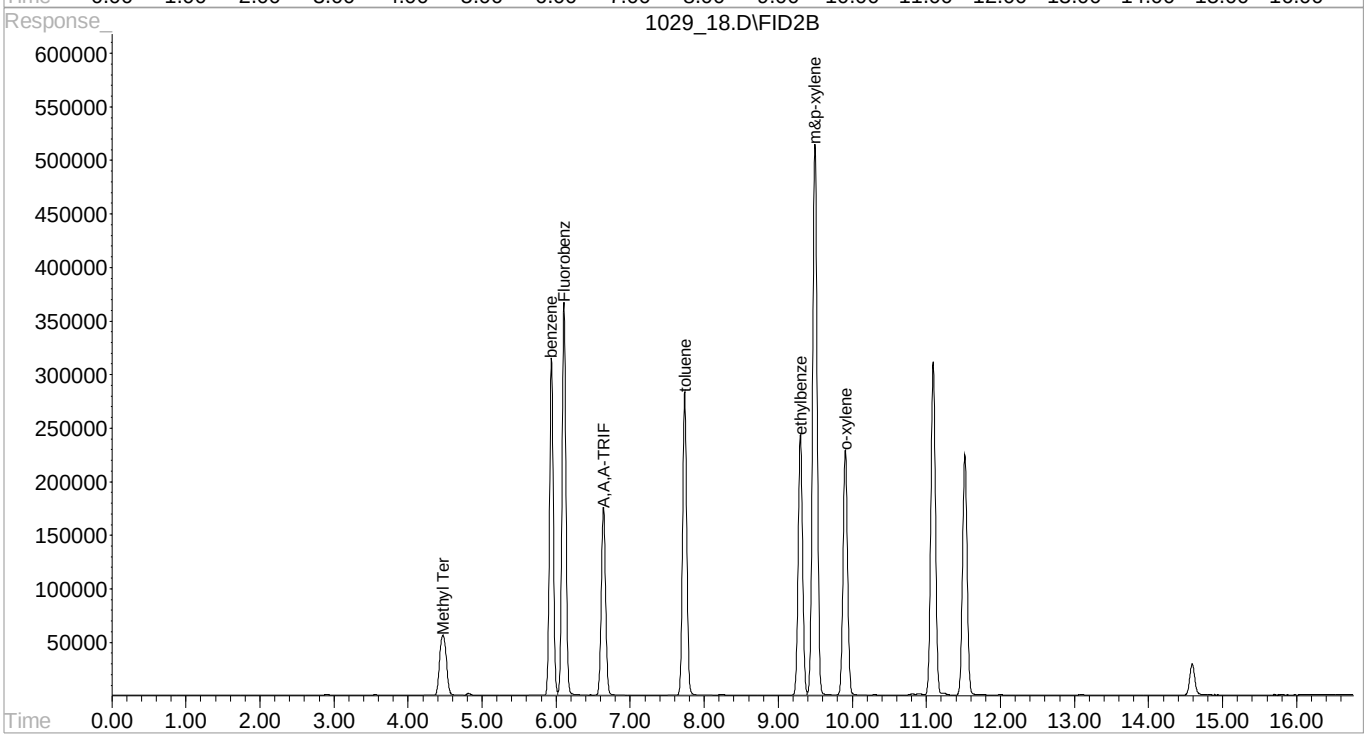
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID2B.CH
Acq On : 29 Oct 2014 8:31 pm Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID1A.CH   Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID2B.CH
Acq On    : 29 Oct 2014   8:31 pm                    Operator: 621
Sample    : STD BTEX 100 ppb 14G09861                Inst    : VOCGC1
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: BTEX.E       IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30  8:50 2014  Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC01
Last Update  : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

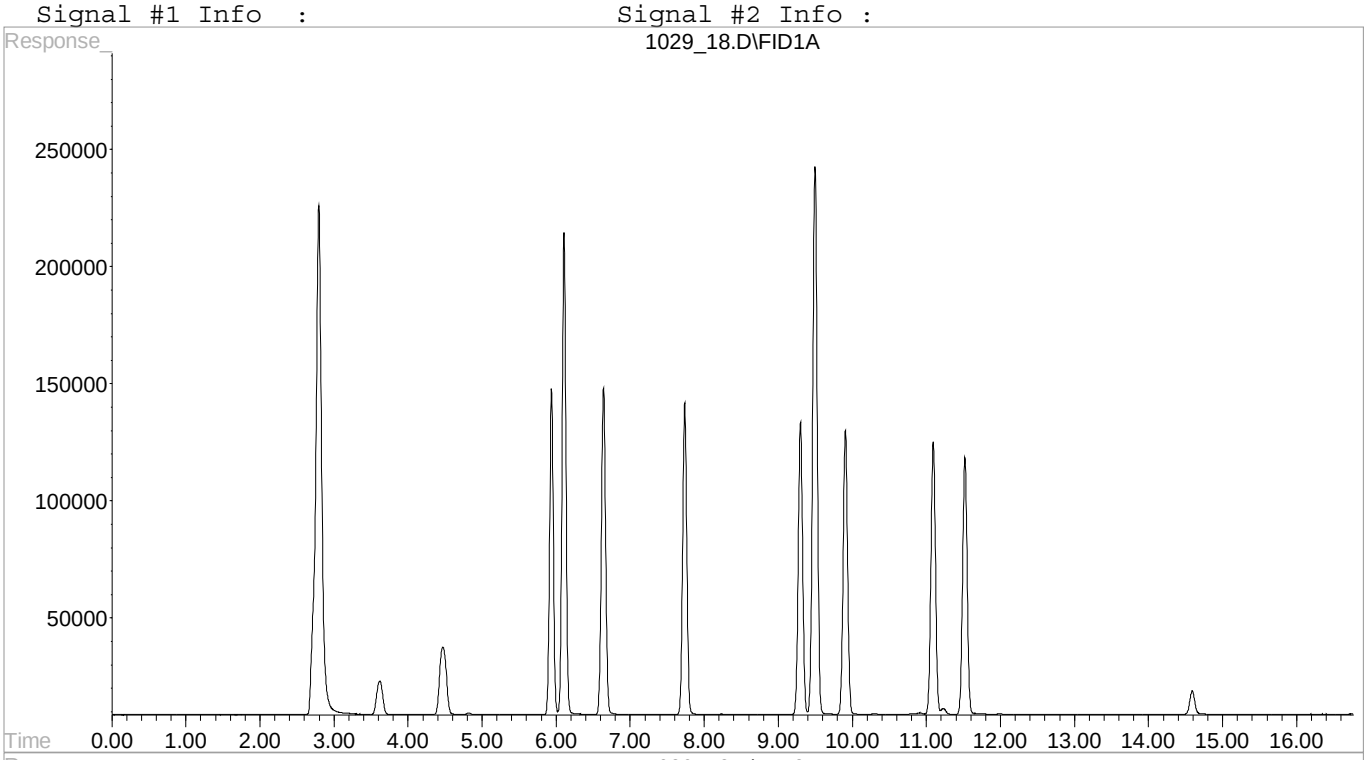
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.11	13356903	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
	Spiked Amount 200.000 Range 59 - 128		Recovery =	0.00%#	
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	7042057	208.3453099	ppb
	Spiked Amount 200.000 Range 54 - 144		Recovery =	104.17%	
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	3541026	94.4117745	ppb
11)	T,M benzene	5.94	11113758	97.8292434	ppb
12)	T,M toluene	7.74	10995979	97.7880457	ppb
13)	T,M ethylbenzene	9.30	10047408	98.2989204	ppb
14)	T,M m&p-xylene	9.50	22088283	196.7156068	ppb
15)	T,M o-xylene	9.91	9650681	98.0336251	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	13604778	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	9853183	NoCal	ppb
18)	T,M Naphthalene	14.59	1439643	NoCal	ppb

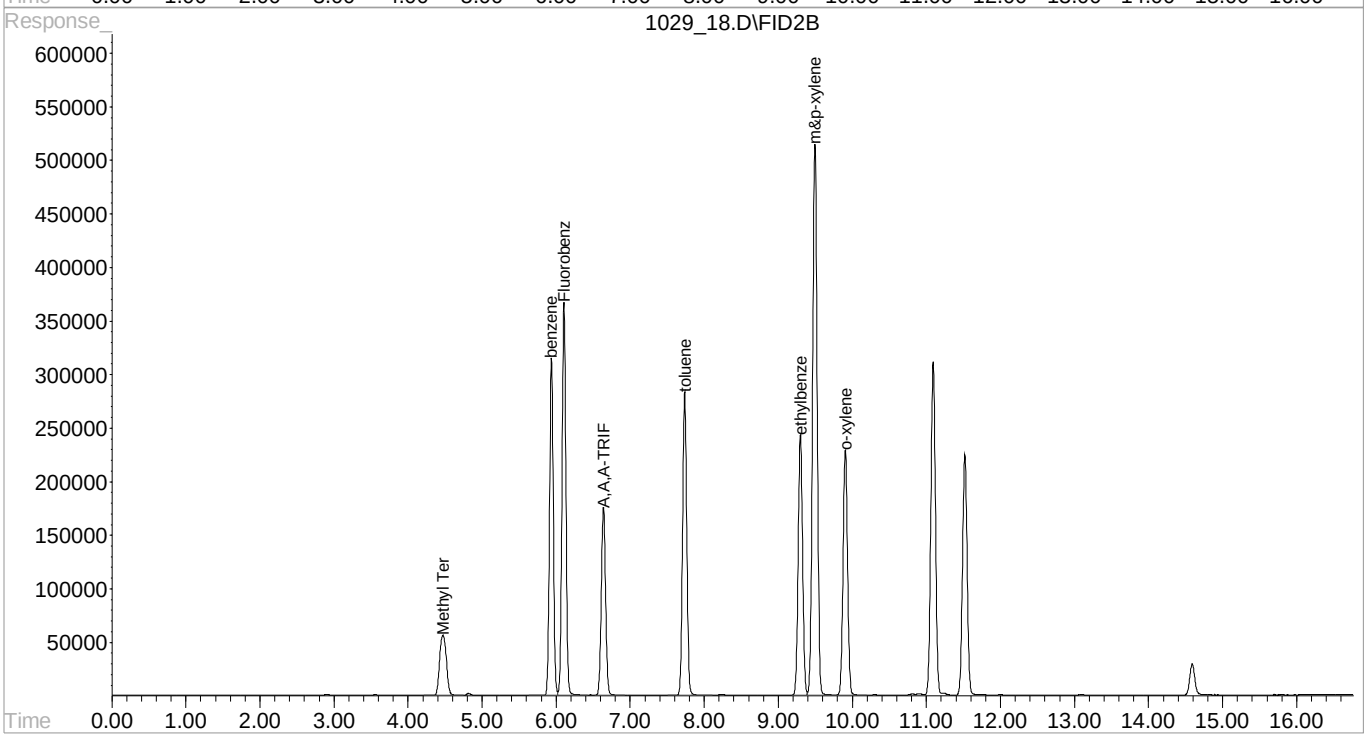
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 18.D\FID2B.CH
Acq On : 29 Oct 2014 8:31 pm Operator: 621
Sample : STD BTEX 100 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID2B.CH
Acq On : 29 Oct 2014 8:53 pm Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

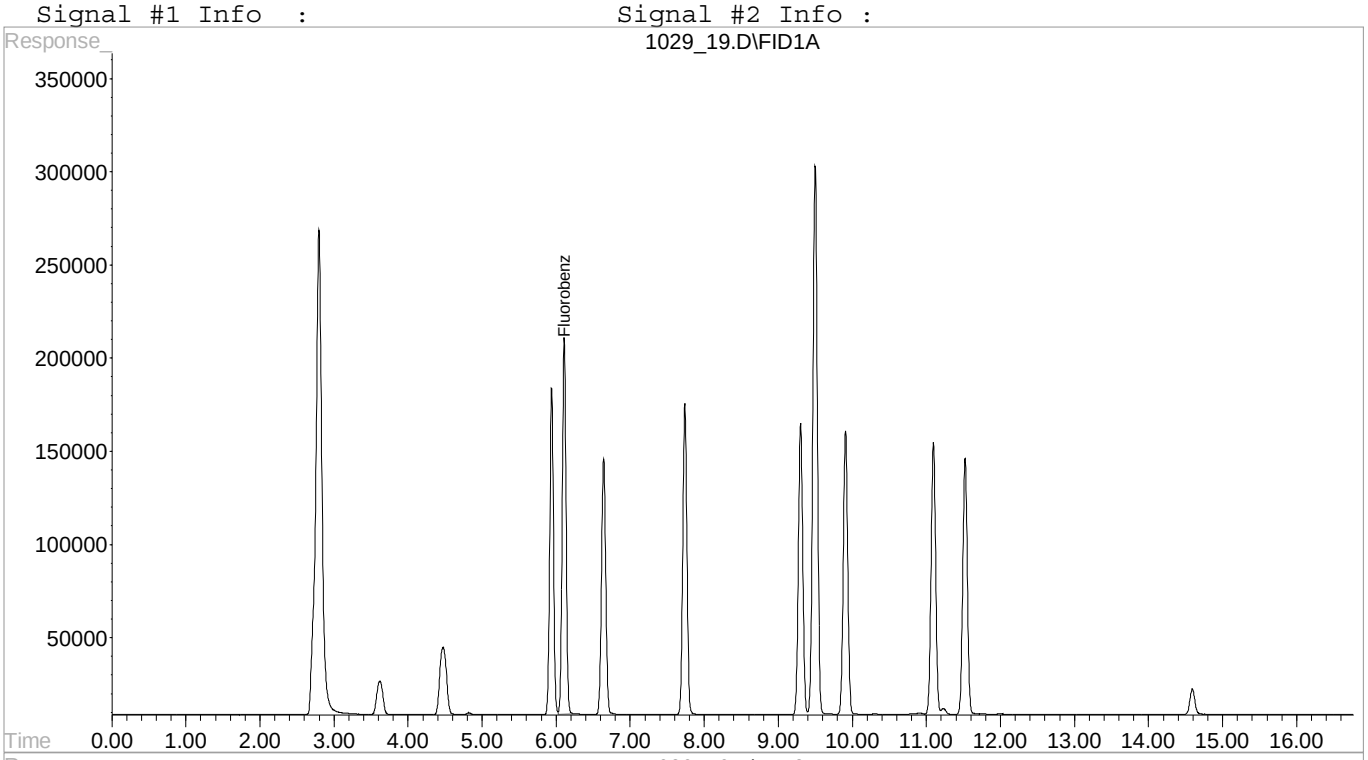
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	6.11	7233007	200.0000000	ppb
8)	I Fluorobenzene #2	6.11	13146732	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5468749	NoCal	ppb
	Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6939166	208.5832490	ppb
	Spiked Amount 200.000 Range 54 - 144		Recovery = 104.29%		
	Target Compounds				
2)	H,M TPHG C5 - C12	5.70	54717617	NoCal	ppm
3)	H,M TPHG C6 - C12	5.70	53618204	NoCal	ppm
4)	h,m TPHGAK C6 to C10	5.70	46932214	NoCal	ppm
5)	h,m TPH (GC/FID) Low Fraction	5.70	52896101	NoCal	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	4366560	118.2835642	ppb
11)	T,M benzene	5.94	13879282	124.1259892	ppb
12)	T,M toluene	7.74	13726967	124.0264799	ppb
13)	T,M ethylbenzene	9.30	12541676	124.6631965	ppb
14)	T,M m&p-xylene	9.50	27511389	248.9300576	ppb
15)	T,M o-xylene	9.91	12013813	123.9897977	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	16915537	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	12237029	NoCal	ppb
18)	T,M Naphthalene	14.59	1923354	NoCal	ppb

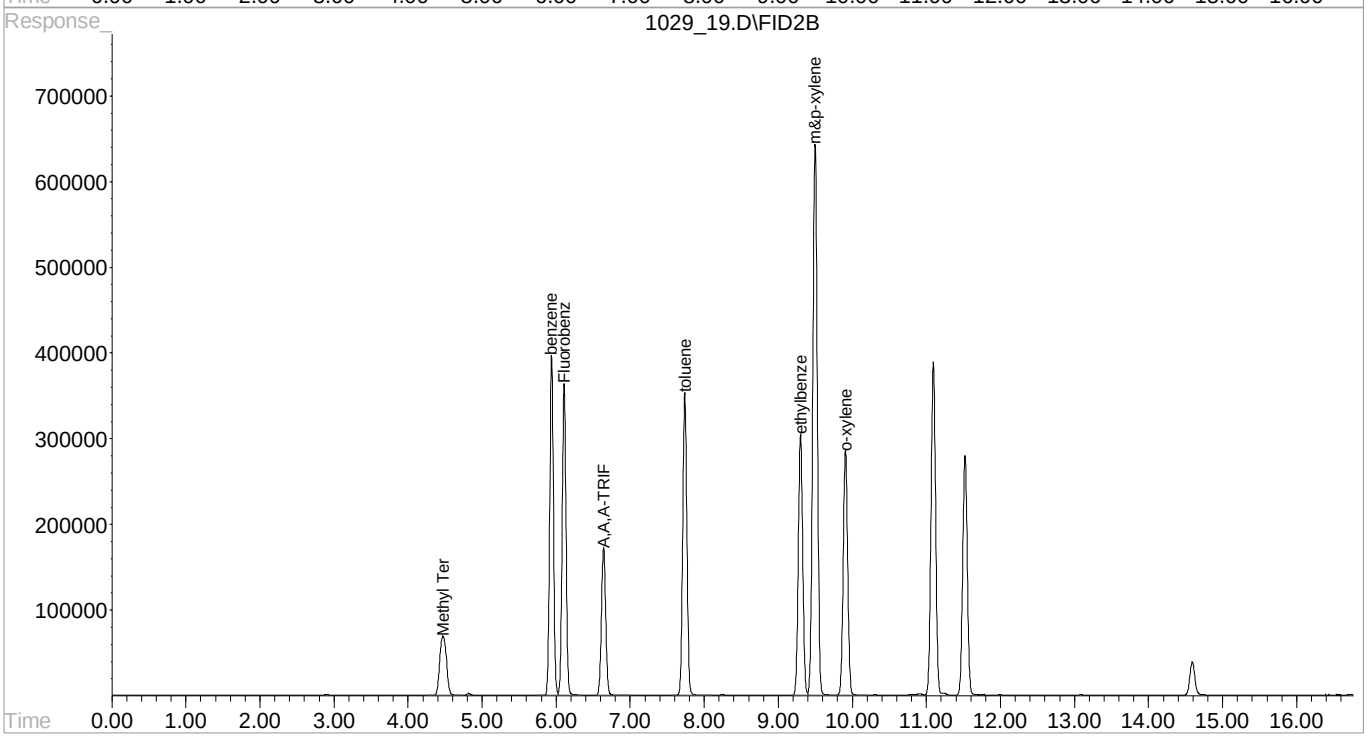
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID2B.CH
Acq On : 29 Oct 2014 8:53 pm Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID2B.CH
Acq On : 29 Oct 2014 8:53 pm Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

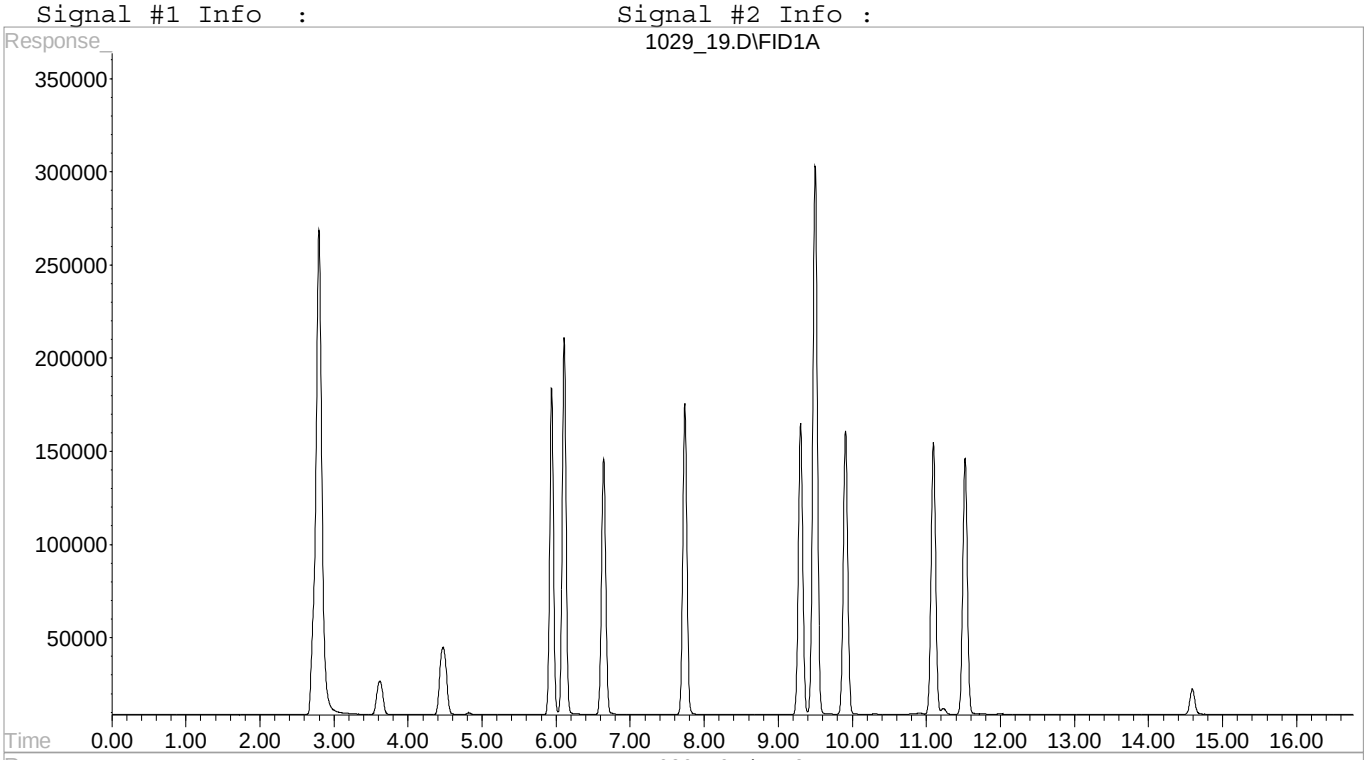
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.11	13146732	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6939166	208.5832490	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	104.29%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.47	4366560	118.2835642	ppb
11)	T,M benzene	5.94	13879282	124.1259892	ppb
12)	T,M toluene	7.74	13726967	124.0264799	ppb
13)	T,M ethylbenzene	9.30	12541676	124.6631965	ppb
14)	T,M m&p-xylene	9.50	27511389	248.9300576	ppb
15)	T,M o-xylene	9.91	12013813	123.9897977	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	16915537	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	12237029	NoCal	ppb
18)	T,M Naphthalene	14.59	1923354	NoCal	ppb

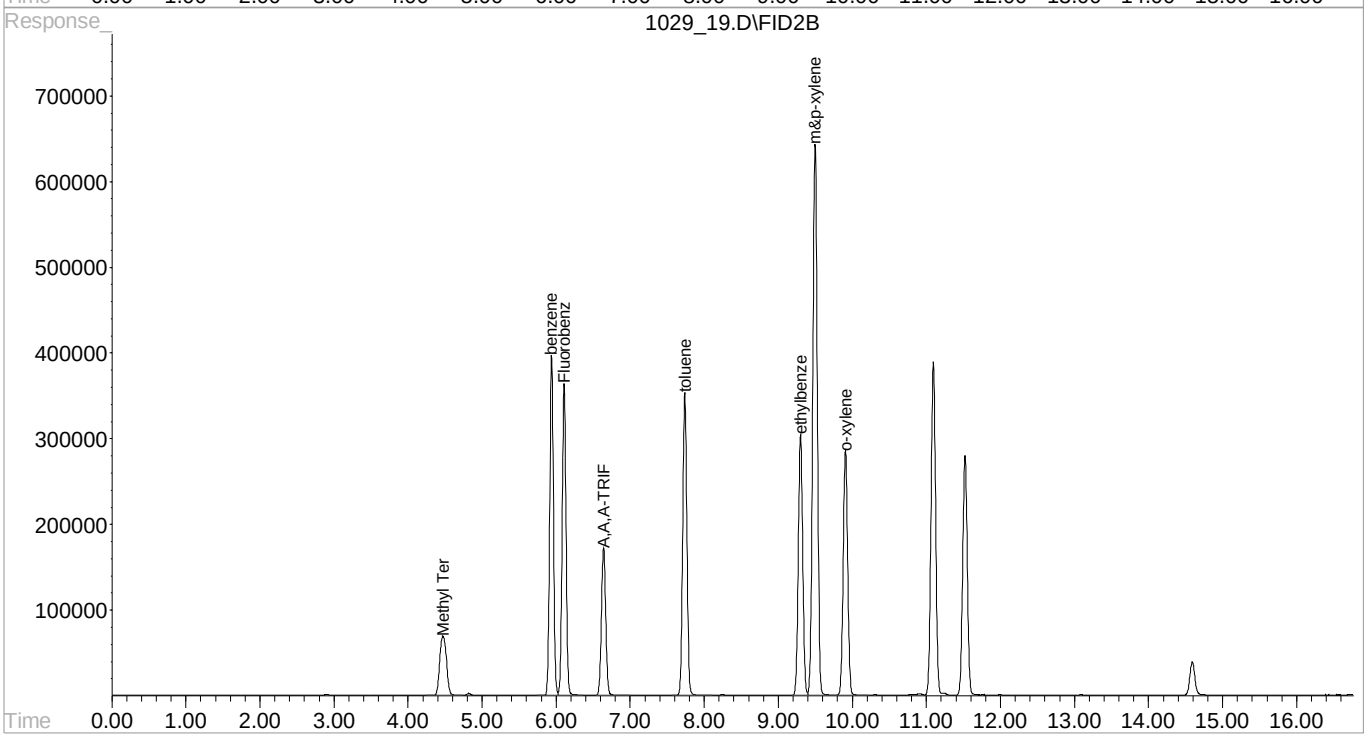
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 19.D\FID2B.CH
Acq On : 29 Oct 2014 8:53 pm Operator: 621
Sample : STD BTEX 150 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID2B.CH
Acq On : 29 Oct 2014 9:15 pm Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

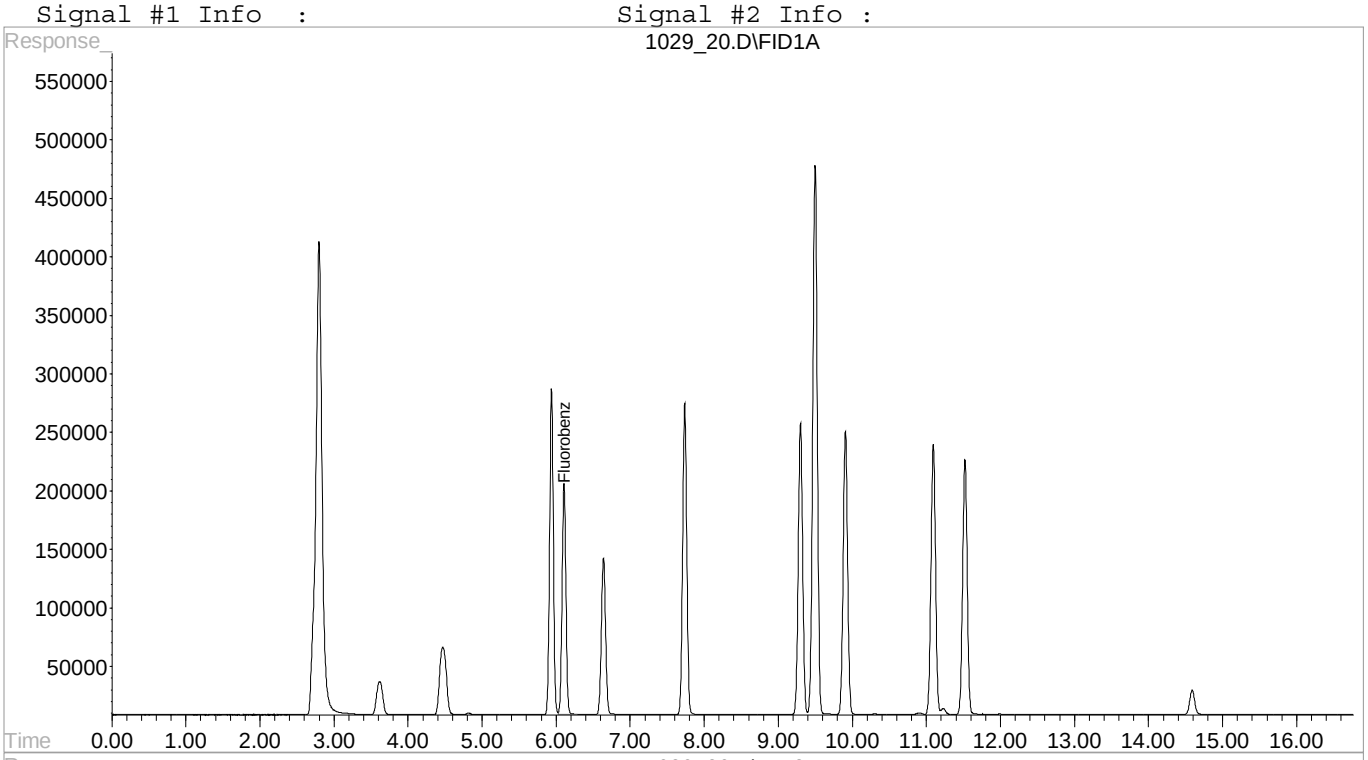
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	7052797	200.0000000	ppb
8) I Fluorobenzene #2	6.11	12857265	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5328093	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6762548	207.8508306	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 103.93%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	86575288	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	84933309	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	74332644	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	83782563	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.47	6877929	190.5074280	ppb
11) T,M benzene	5.94	21892007	200.1937431	ppb
12) T,M toluene	7.74	21584299	199.4100204	ppb
13) T,M ethylbenzene	9.30	19746677	200.6993171	ppb
14) T,M m&p-xylene	9.50	43105187	398.8077205	ppb
15) T,M o-xylene	9.91	18828609	198.6975528	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	26447191	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	19151621	NoCal	ppb
18) T,M Naphthalene	14.59	2833444	NoCal	ppb

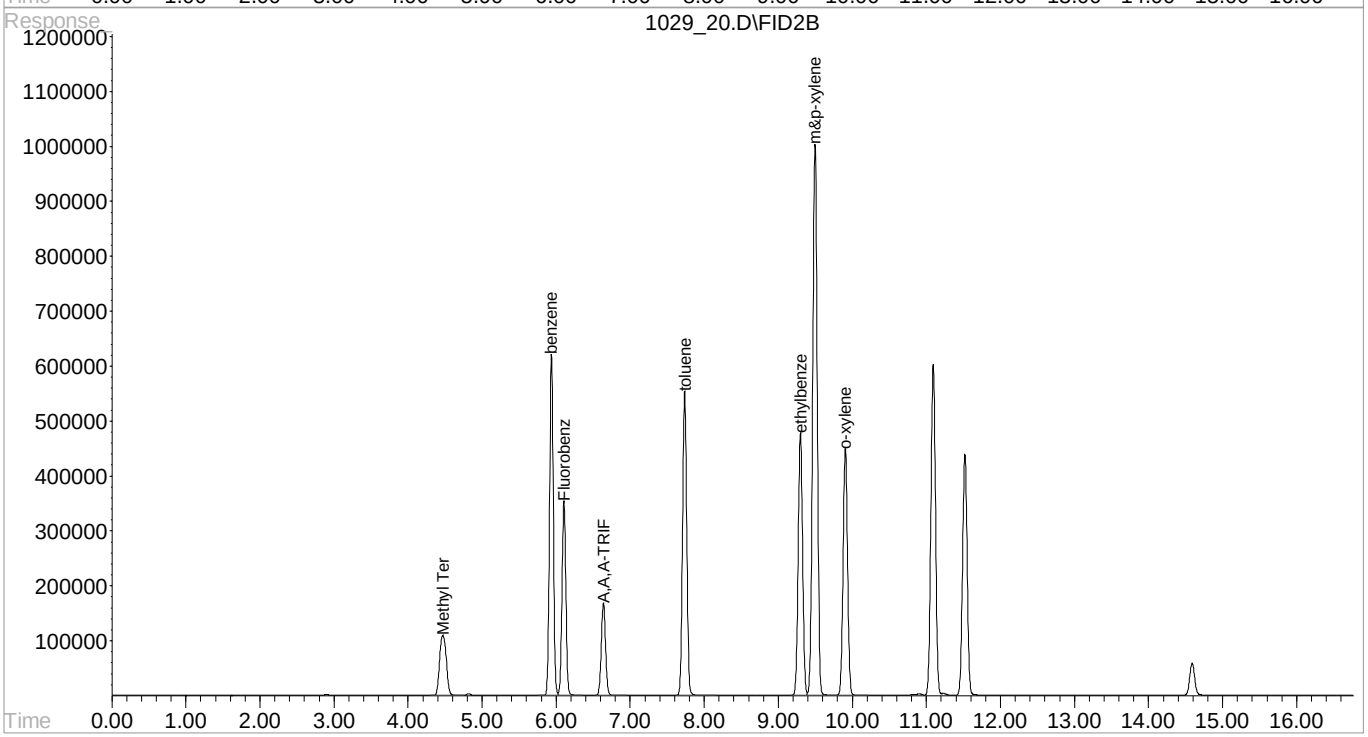
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID2B.CH
Acq On : 29 Oct 2014 9:15 pm Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

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Signal #1 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID1A.CH   Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID2B.CH
Acq On    : 29 Oct 2014   9:15 pm                    Operator: 621
Sample    : STD BTEX 200 ppb 14G09861                Inst    : VOCGC1
Misc      : soil SURIS14F10114                       Multiplr: 1.00
IntFile Signal #1: BTEX.E       IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30  8:50 2014  Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC01
Last Update  : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

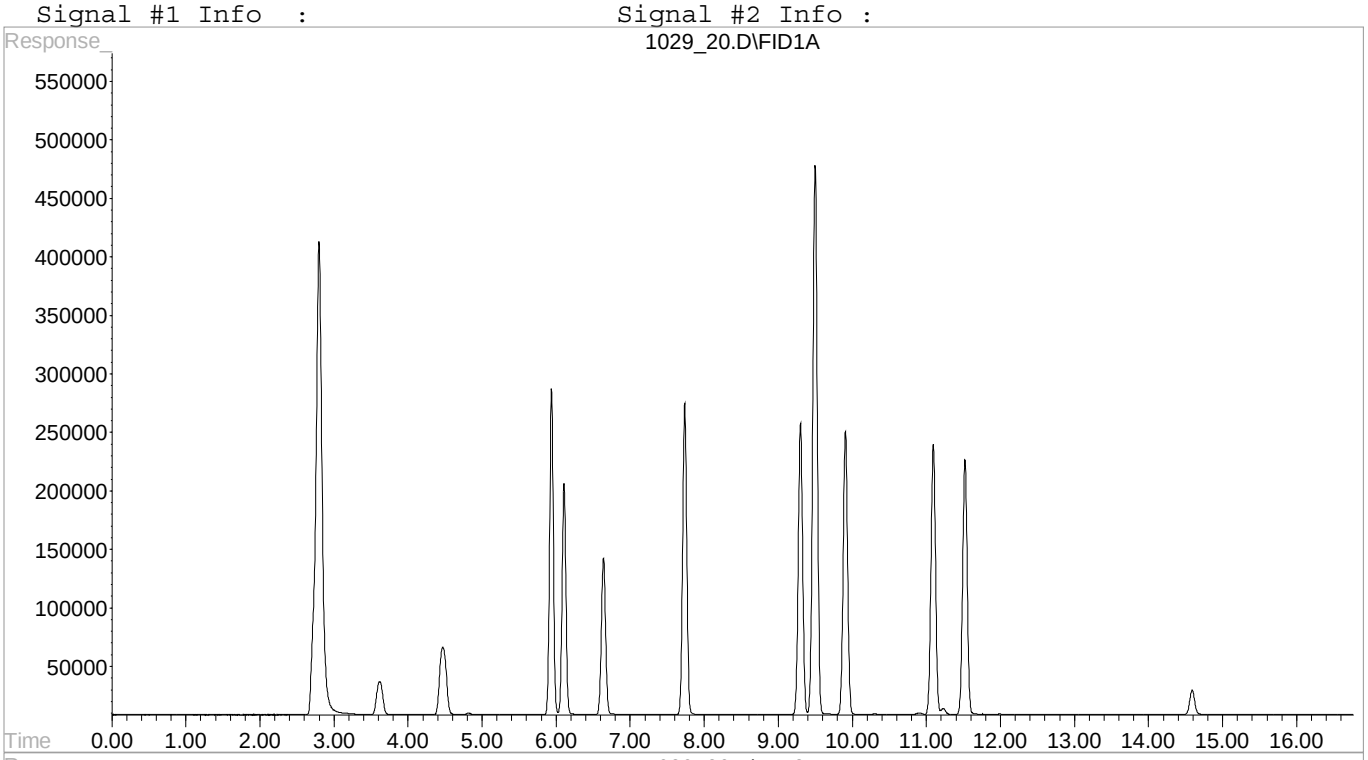
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	0.00	0	N.D.	ppb d
8) I	Fluorobenzene #2	6.11	12857265	200.0000000	ppb
	System Monitoring Compounds				
6) S	A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9) S	A,A,A-TRIFLUOROTOLUENE(PID	6.64	6762548	207.8508306	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	103.93%		
	Target Compounds				
2) H,M	TPHG C5 - C12	0.00	0	N.D.	ppm
3) H,M	TPHG C6 - C12	0.00	0	N.D.	ppm
4) h,m	TPHGAK C6 to C10	0.00	0	N.D.	ppm
5) h,m	TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10) T,M	Methyl Tert-Butyl Ether	4.47	6877929	190.5074280	ppb
11) T,M	benzene	5.94	21892007	200.1937431	ppb
12) T,M	toluene	7.74	21584299	199.4100204	ppb
13) T,M	ethylbenzene	9.30	19746677	200.6993171	ppb
14) T,M	m&p-xylene	9.50	43105187	398.8077205	ppb
15) T,M	o-xylene	9.91	18828609	198.6975528	ppb
16) T,M	1,3,5-Trimethylbenzene	11.09	26447191	NoCal	ppb
17) T,M	1,2,4-Trimethylbenzene	11.52	19151621	NoCal	ppb
18) T,M	Naphthalene	14.59	2833444	NoCal	ppb

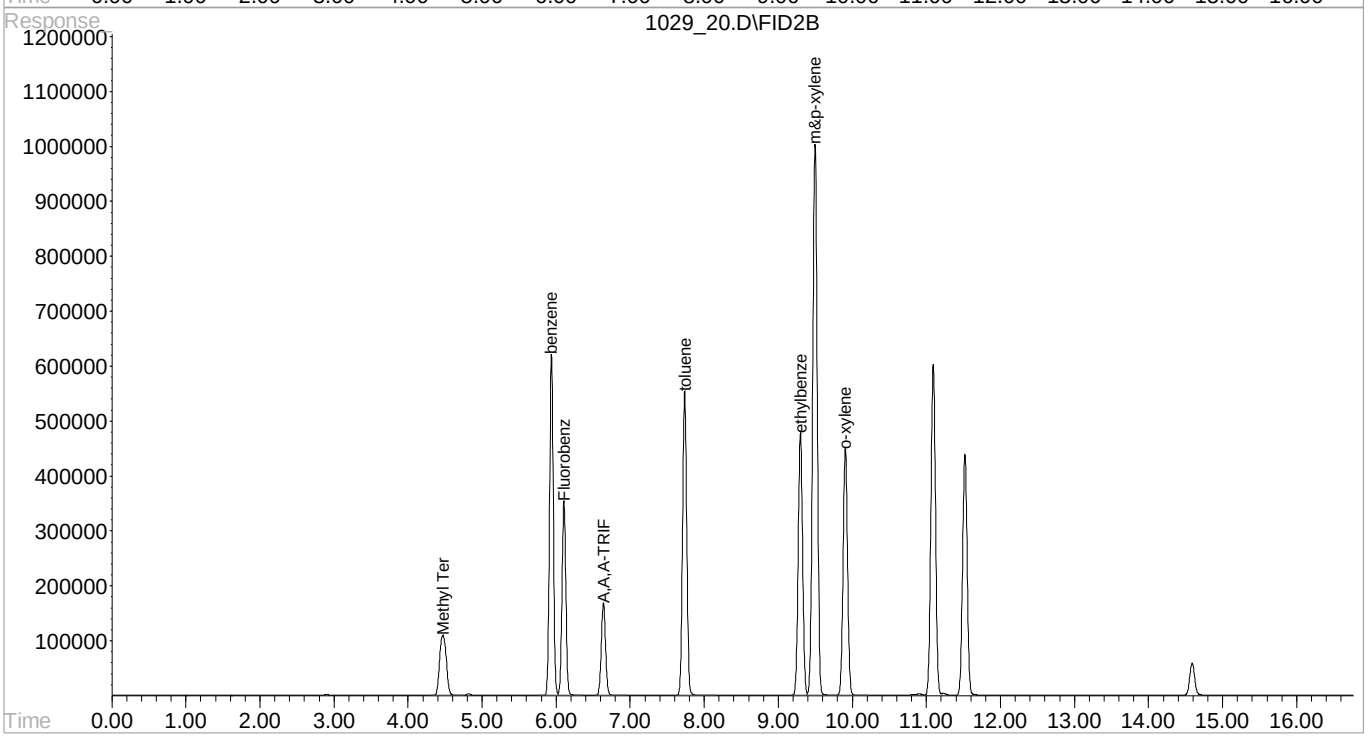
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 20.D\FID2B.CH
Acq On : 29 Oct 2014 9:15 pm Operator: 621
Sample : STD BTEX 200 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:50 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 29 Oct 2014 9:37 pm Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

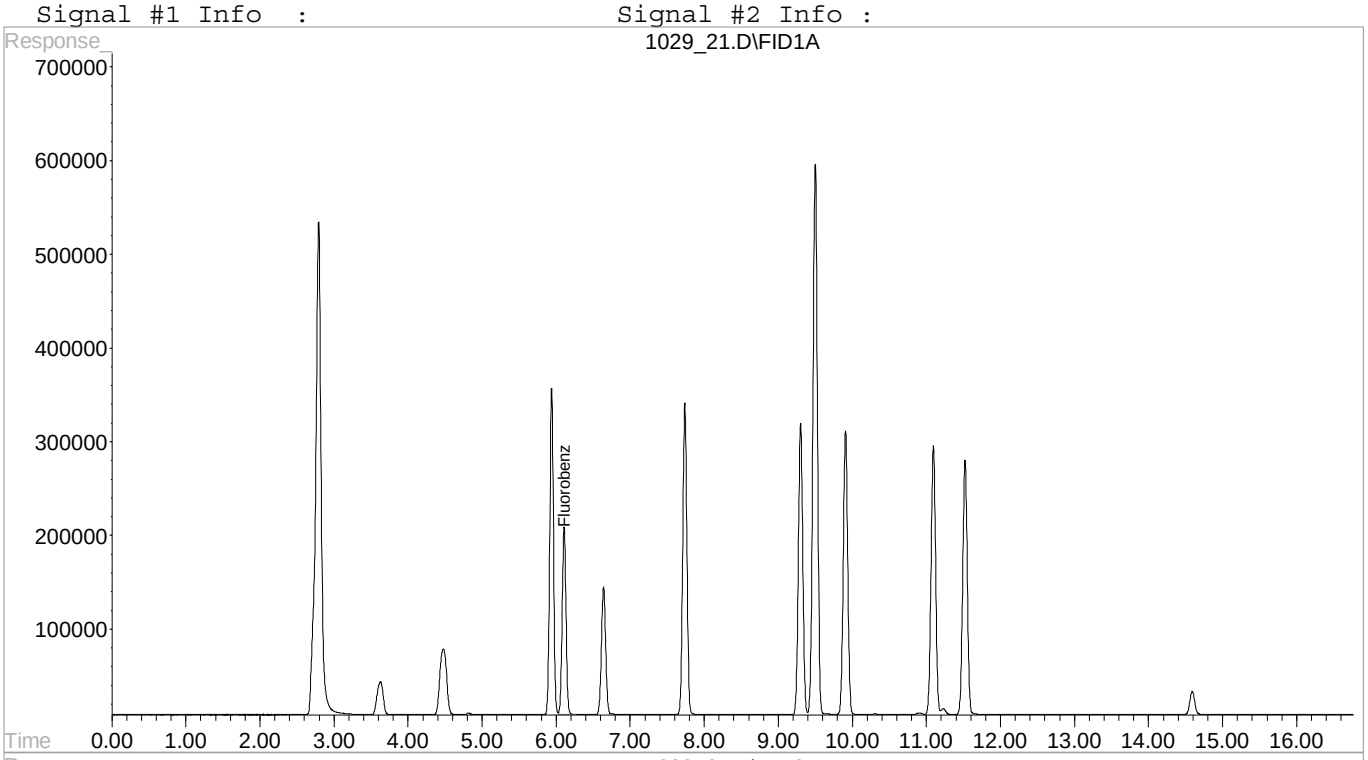
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.11	7159114	200.0000000	ppb
8) I Fluorobenzene #2	6.11	12992848	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.64	5411425	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6818222	207.3751904	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 103.69%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	107901748	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	105873017	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	92777163	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	104511768	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.48	8283082	227.0337409	ppb
11) T,M benzene	5.94	27221168	246.3292247	ppb
12) T,M toluene	7.74	26808792	245.0927960	ppb
13) T,M ethylbenzene	9.30	24494314	246.3550242	ppb
14) T,M m&p-xylene	9.50	53366984	488.5971662	ppb
15) T,M o-xylene	9.91	23279030	243.0991454	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	32526522	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.52	23531284	NoCal	ppb
18) T,M Naphthalene	14.59	3310453	NoCal	ppb

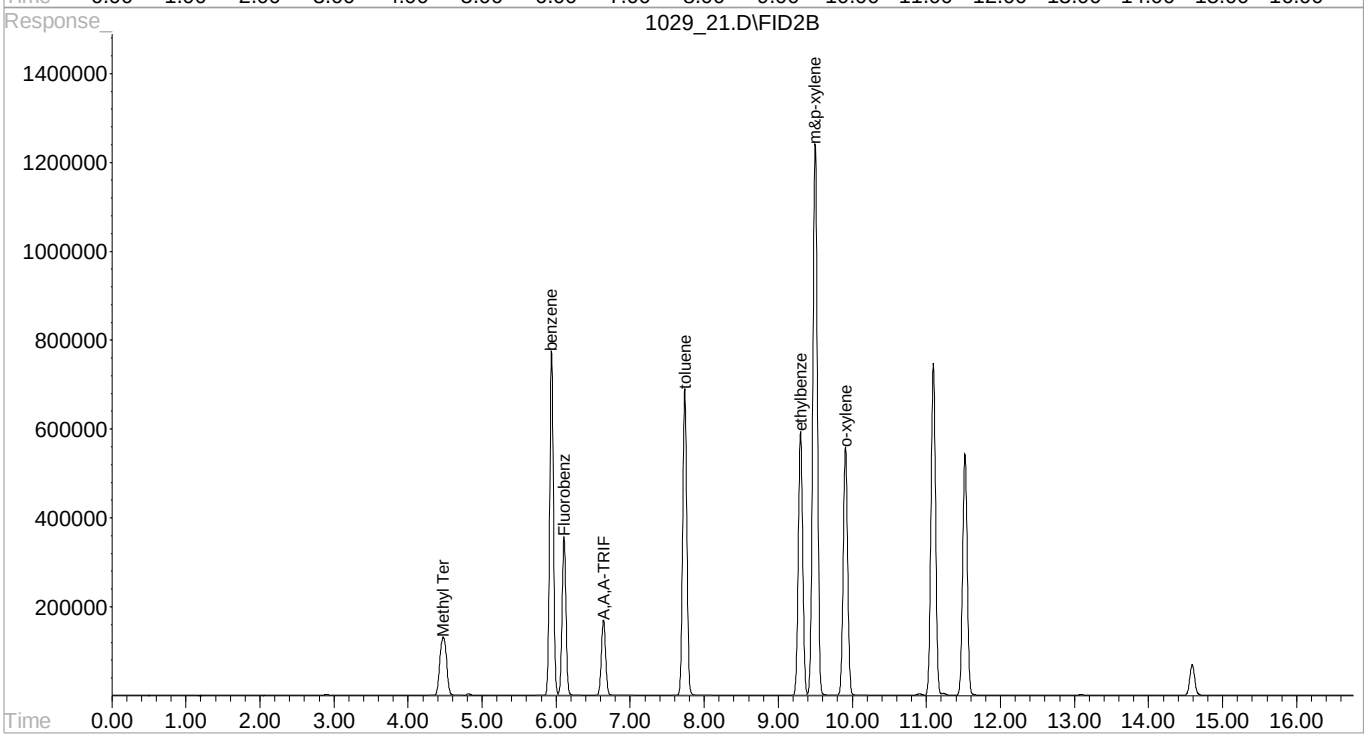
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 29 Oct 2014 9:37 pm Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:49 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 29 Oct 2014 9:37 pm Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:51 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

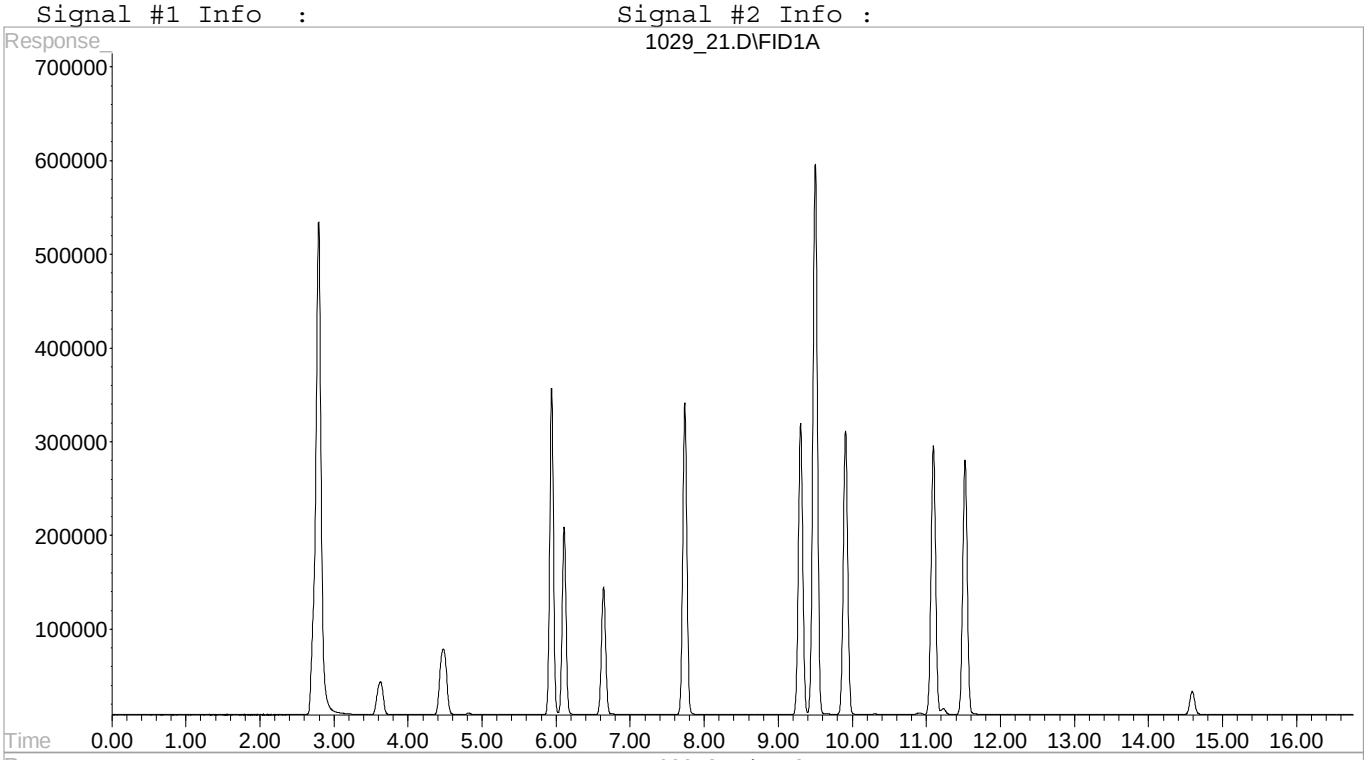
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	0.00	0	N.D.	ppb d
8)	I Fluorobenzene #2	6.11	12992848	200.0000000	ppb
	System Monitoring Compounds				
6)	S A,A,A-TRIFLUOROTOLUENE(FID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 59 - 128	Recovery =	0.00%#		
9)	S A,A,A-TRIFLUOROTOLUENE(PID	6.64	6818222	207.3751904	ppb
Spiked Amount	200.000 Range 54 - 144	Recovery =	103.69%		
	Target Compounds				
2)	H,M TPHG C5 - C12	0.00	0	N.D.	ppm
3)	H,M TPHG C6 - C12	0.00	0	N.D.	ppm
4)	h,m TPHGAK C6 to C10	0.00	0	N.D.	ppm
5)	h,m TPH (GC/FID) Low Fraction	0.00	0	N.D.	ppm
10)	T,M Methyl Tert-Butyl Ether	4.48	8283082	227.0337409	ppb
11)	T,M benzene	5.94	27221168	246.3292247	ppb
12)	T,M toluene	7.74	26808792	245.0927960	ppb
13)	T,M ethylbenzene	9.30	24494314	246.3550242	ppb
14)	T,M m&p-xylene	9.50	53366984	488.5971662	ppb
15)	T,M o-xylene	9.91	23279030	243.0991454	ppb
16)	T,M 1,3,5-Trimethylbenzene	11.09	32526522	NoCal	ppb
17)	T,M 1,2,4-Trimethylbenzene	11.52	23531284	NoCal	ppb
18)	T,M Naphthalene	14.59	3310453	NoCal	ppb

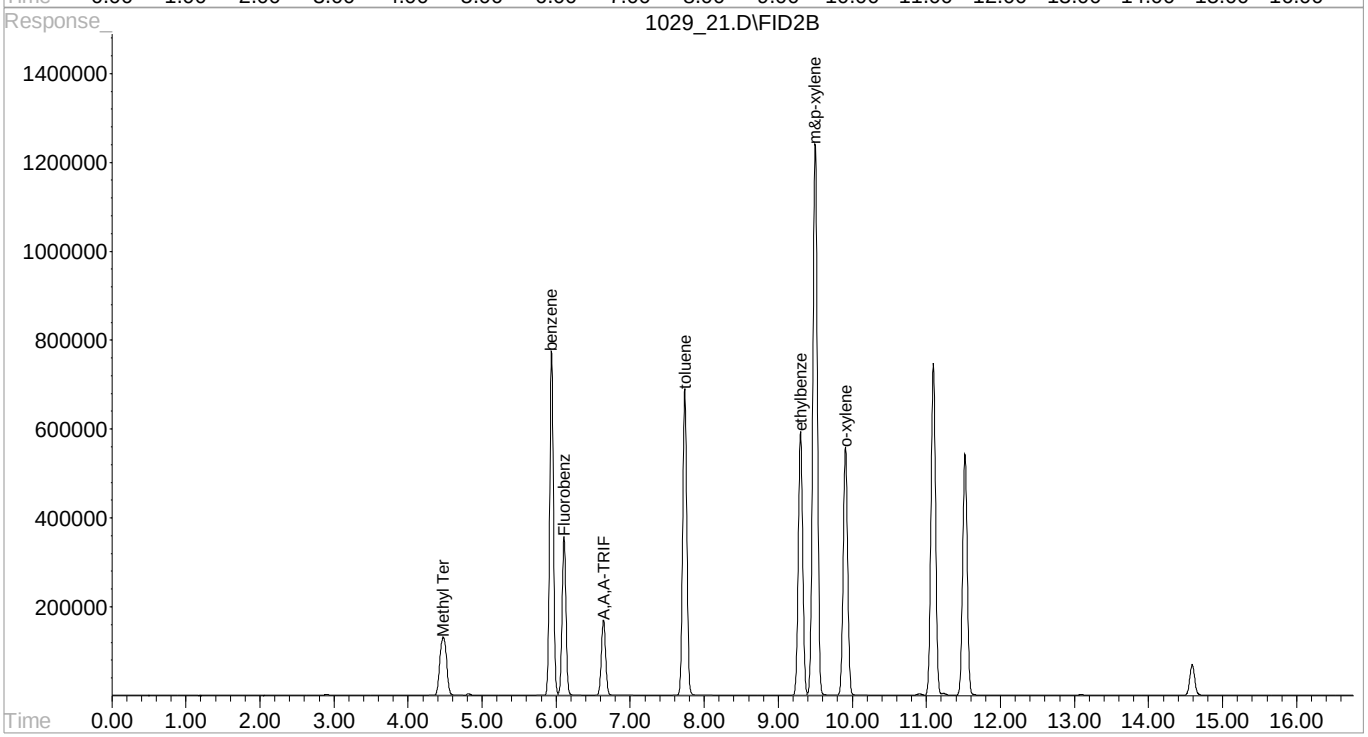
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 21.D\FID2B.CH
Acq On : 29 Oct 2014 9:37 pm Operator: 621
Sample : STD BTEX 250 ppb 14G09861 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:51 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:48:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID2B.CH
Acq On : 29 Oct 2014 11:06 pm Operator: 621
Sample : STD GRO .055 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

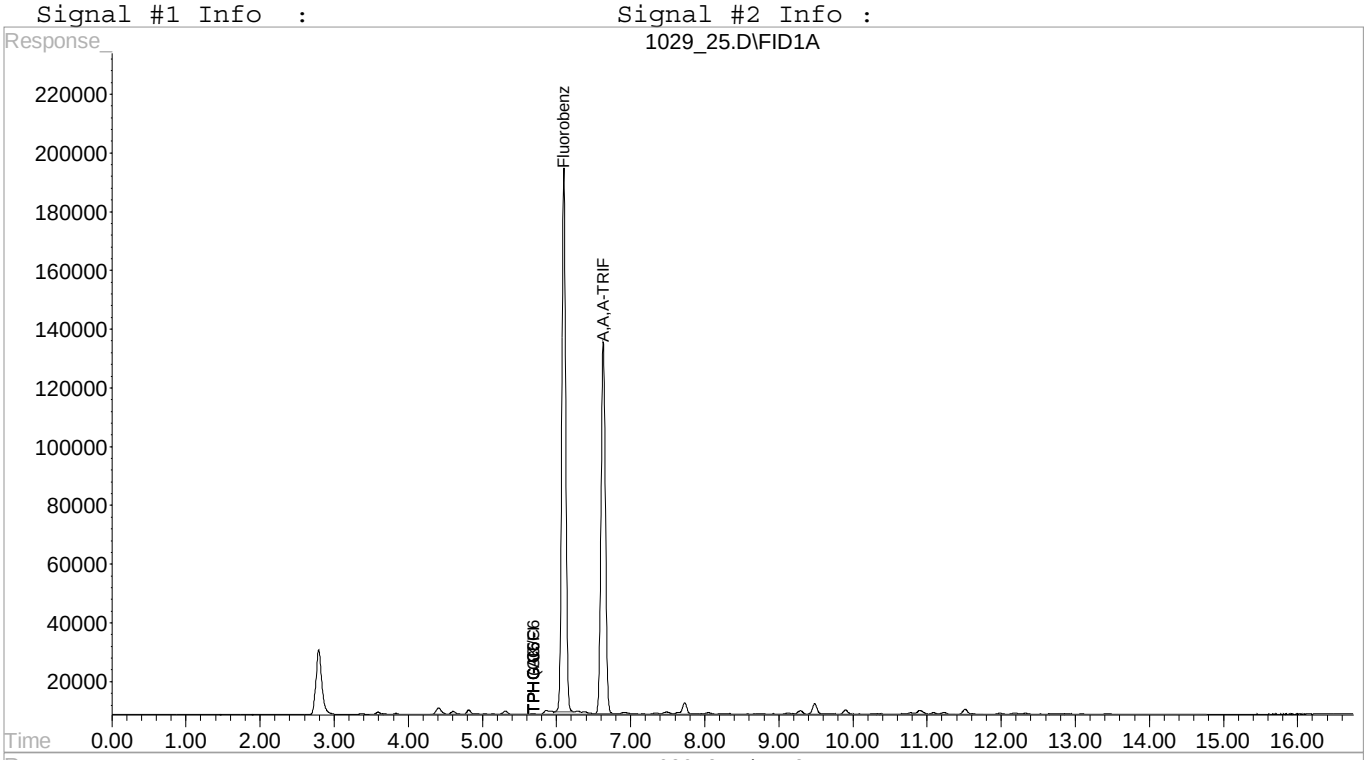
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	6825546	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12354386	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5179667	197.1641570	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 98.58%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6606733	210.6092309	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 105.30%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	2387002	0.0723326	ppm
3) H,M TPHG C6 - C12	5.70	2305317	0.0721734	ppm
4) h,m TPHGAK C6 to C10	5.70	1907296	0.0741187	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	1997182	0.0731172	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	80055	2.2084532	ppb
11) T,M benzene	5.93	92806	0.8475581	ppb
12) T,M toluene	7.73	410388	3.8063481	ppb
13) T,M ethylbenzene	9.29	115644	1.1820021	ppb
14) T,M m&p-xylene	9.49	413194	3.8405699	ppb
15) T,M o-xylene	9.90	140636	1.4733739	ppb
16) T,M 1,3,5-Trimethylbenzene	11.09	83198	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	195315	NoCal	ppb
18) T,M Naphthalene	14.62	11216	NoCal	ppb

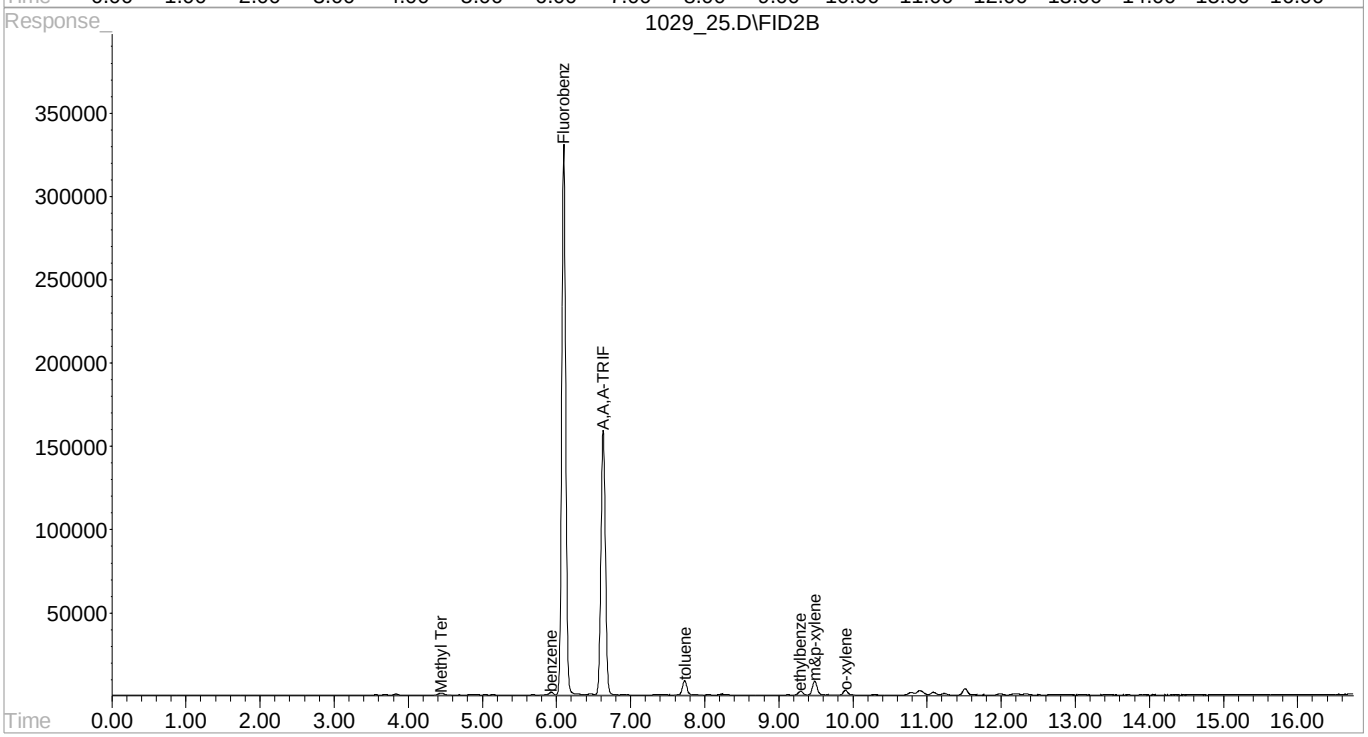
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID2B.CH
Acq On : 29 Oct 2014 11:06 pm Operator: 621
Sample : STD GRO .055 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID2B.CH
Acq On : 29 Oct 2014 11:06 pm Operator: 621
Sample : STD GRO .055 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

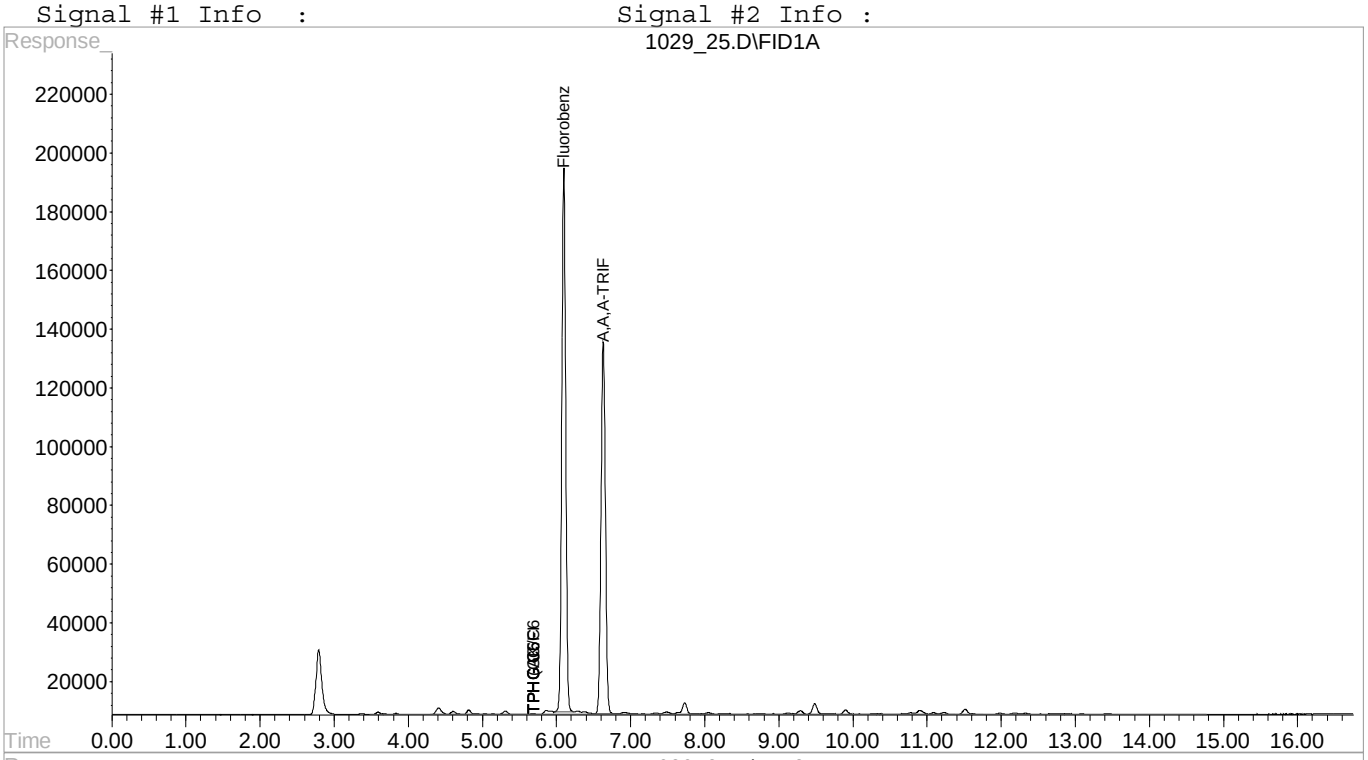
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	6825546	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5179667	197.1641570	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery =	98.58%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	5.70	2387002	0.0723326	ppm
3) H,M TPHG C6 - C12	5.70	2305317	0.0721734	ppm
4) h,m TPHGAK C6 to C10	5.70	1907296	0.0741187	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	1997182	0.0731172	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M Naphthalene	0.00	0	N.D.	ppb d

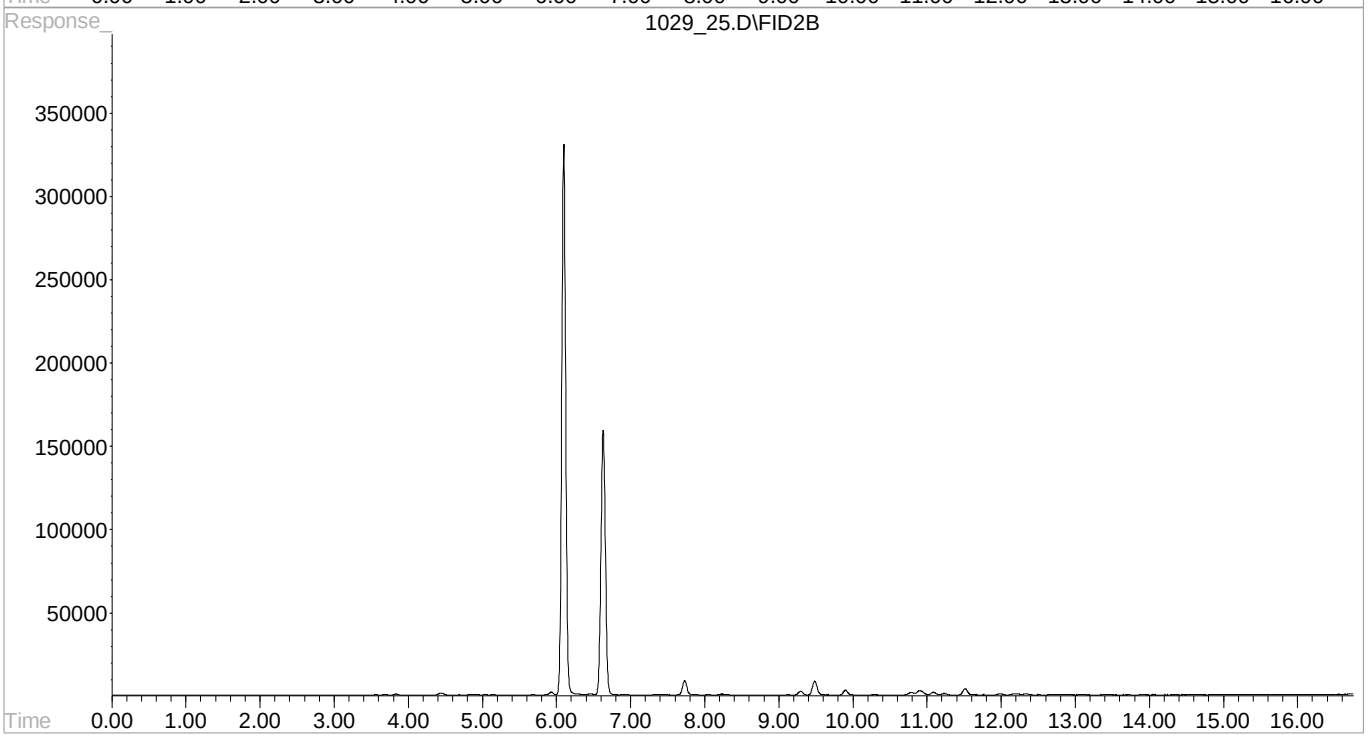
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 25.D\FID2B.CH
Acq On : 29 Oct 2014 11:06 pm Operator: 621
Sample : STD GRO .055 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID2B.CH
Acq On : 29 Oct 2014 11:28 pm Operator: 621
Sample : STD GRO .11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

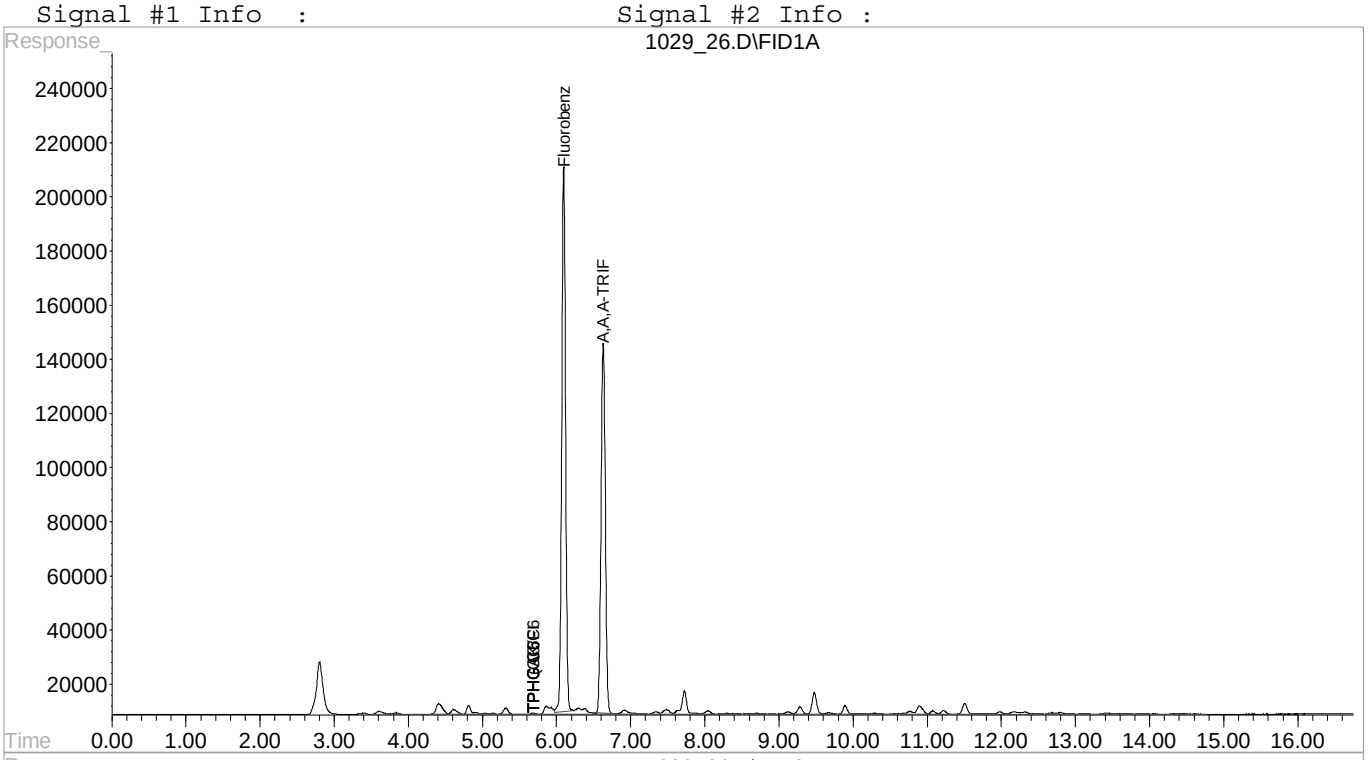
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.10	7209533	200.0000000	ppb
8) I Fluorobenzene #2	6.10	12911392	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5424894	195.5003885	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 97.75%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	6923370	211.1817072	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 105.59%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	4407890	0.1264568	ppm
3) H,M TPHG C6 - C12	5.70	4293778	0.1272671	ppm
4) h,m TPHGAK C6 to C10	5.70	3545018	0.1304243	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	3752513	0.1300632	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	153703	4.0572415	ppb
11) T,M benzene	5.93	184757	1.6145169	ppb
12) T,M toluene	7.72	823390	7.3074856	ppb
13) T,M ethylbenzene	9.29	227292	2.2229353	ppb
14) T,M m&p-xylene	9.48	815285	7.2510200	ppb
15) T,M o-xylene	9.89	293294	2.9401328	ppb
16) T,M 1,3,5-Trimethylbenzene	11.08	162562	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.51	410383	NoCal	ppb
18) T,M Naphthalene	14.60	15696	NoCal	ppb

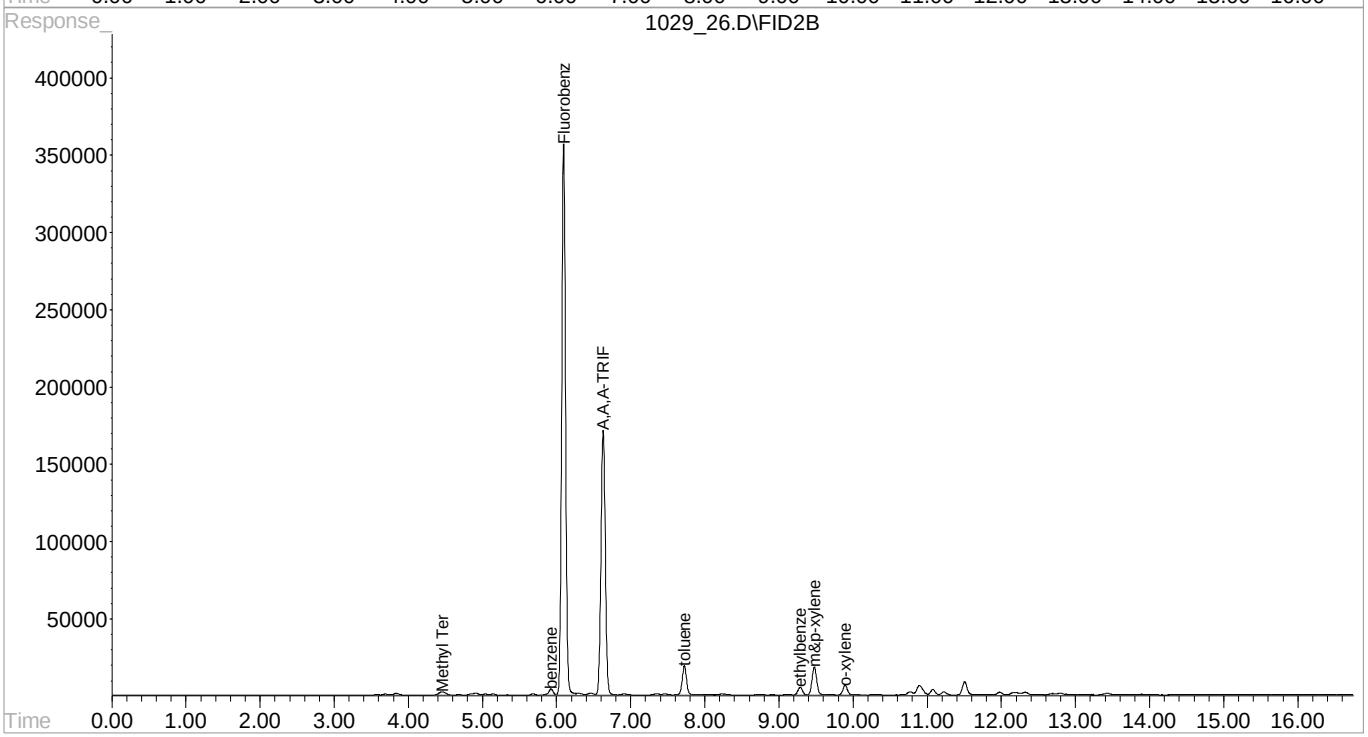
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID2B.CH
Acq On : 29 Oct 2014 11:28 pm Operator: 621
Sample : STD GRO .11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID2B.CH
Acq On : 29 Oct 2014 11:28 pm Operator: 621
Sample : STD GRO .11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

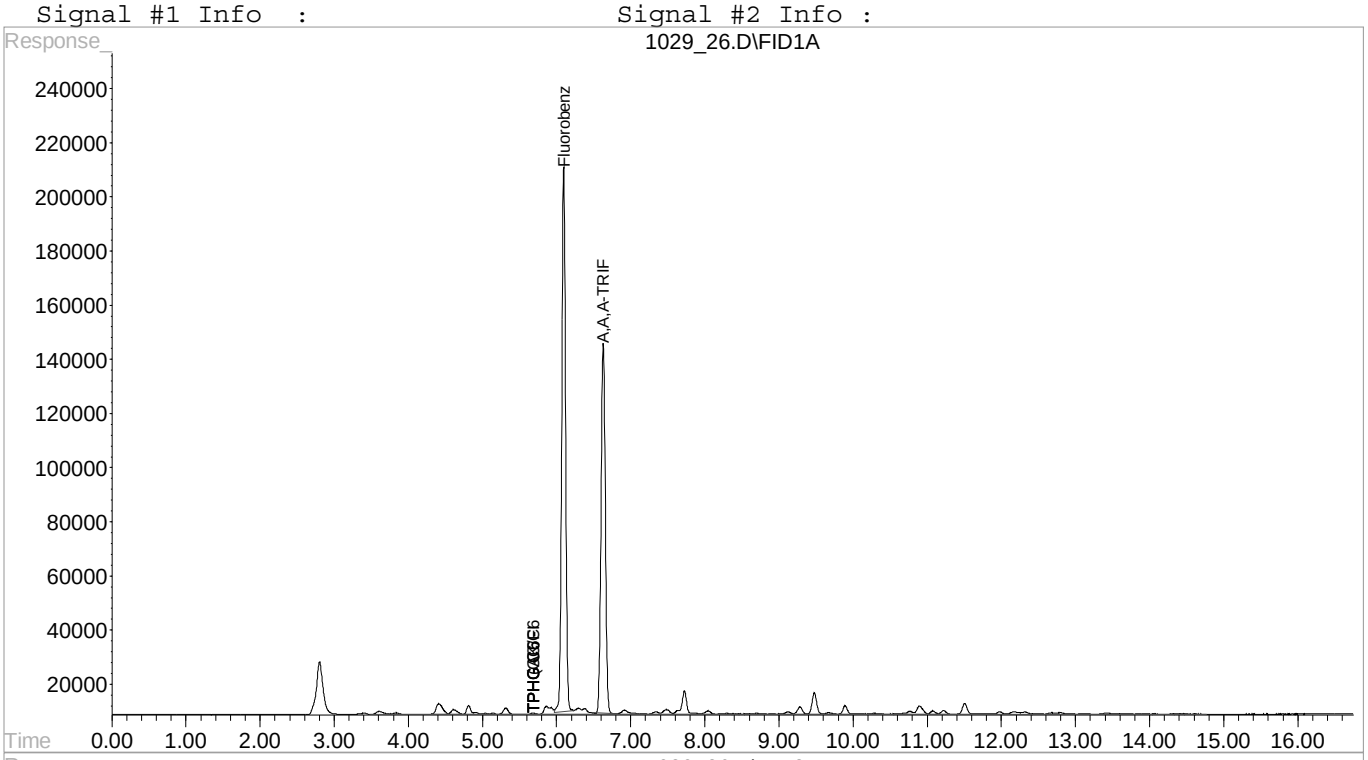
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Fluorobenzene #1	6.10	7209533	200.0000000	ppb	
8) I	Fluorobenzene #2	0.00	0	N.D.	ppb	d
	System Monitoring Compounds					
6) S	A,A,A-TRIFLUOROTOLUENE(FID	6.63	5424894	195.5003885	ppb	
Spiked Amount	200.000 Range 59 - 128	Recovery	=	97.75%		
9) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount	200.000 Range 54 - 144	Recovery	=	0.00%#		
	Target Compounds					
2) H,M	TPHG C5 - C12	5.70	4407890	0.1264568	ppm	
3) H,M	TPHG C6 - C12	5.70	4293778	0.1272671	ppm	
4) h,m	TPHGAK C6 to C10	5.70	3545018	0.1304243	ppm	
5) h,m	TPH (GC/FID) Low Fraction	5.70	3752513	0.1300632	ppm	
10) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
11) T,M	benzene	0.00	0	N.D.	ppb	d
12) T,M	toluene	0.00	0	N.D.	ppb	d
13) T,M	ethylbenzene	0.00	0	N.D.	ppb	d
14) T,M	m&p-xylene	0.00	0	N.D.	ppb	d
15) T,M	o-xylene	0.00	0	N.D.	ppb	d
16) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
17) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M	Naphthalene	0.00	0	N.D.	ppb	d

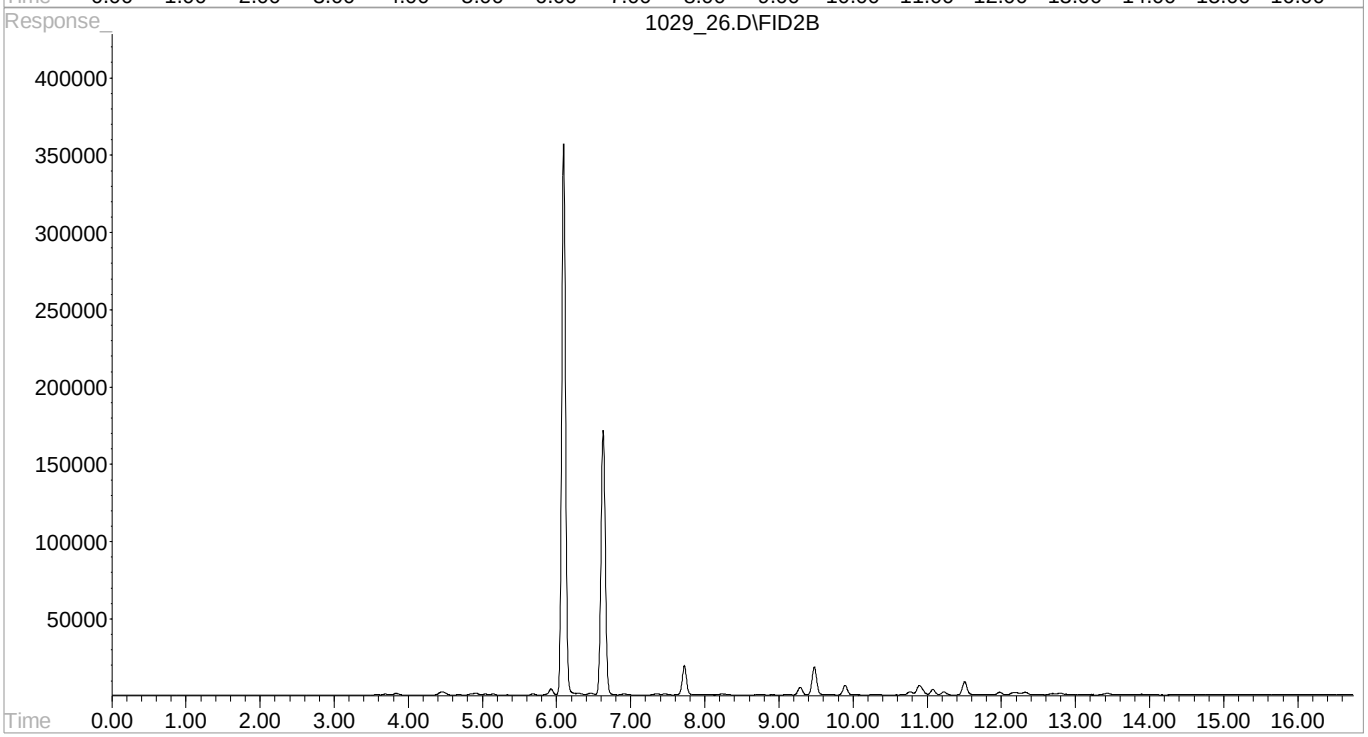
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 26.D\FID2B.CH
Acq On : 29 Oct 2014 11:28 pm Operator: 621
Sample : STD GRO .11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID2B.CH
Acq On : 29 Oct 2014 11:50 pm Operator: 621
Sample : STD GRO .55 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

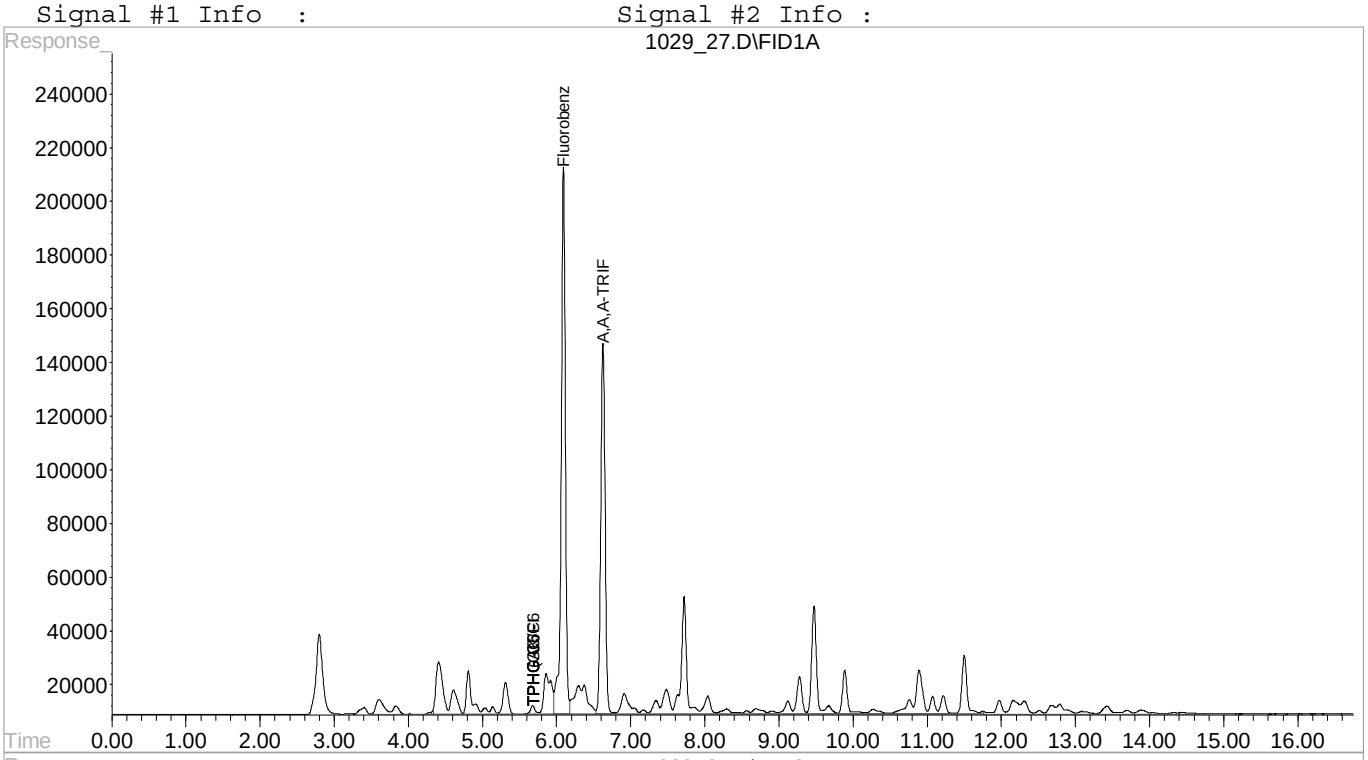
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7903566	200.0000000	ppb
8) I Fluorobenzene #2	6.09	13179881	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5571323	183.1465730	ppb
Spiked Amount 200.000 Range 59 - 128 Recovery = 91.57%				
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.63	7109788	212.4501258	ppb
Spiked Amount 200.000 Range 54 - 144 Recovery = 106.23%				
Target Compounds				
2) H,M TPHG C5 - C12	5.70	21057751	0.5510712	ppm
3) H,M TPHG C6 - C12	5.70	20369342	0.5507288	ppm
4) h,m TPHGAK C6 to C10	5.70	16284801	0.5465207	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	17316718	0.5474972	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	752311	19.4539019	ppb
11) T,M benzene	5.92	882909	7.5582236	ppb
12) T,M toluene	7.72	3835411	33.3453962	ppb
13) T,M ethylbenzene	9.28	1131546	10.8411928	ppb
14) T,M m&p-xylene	9.47	3982738	34.7003021	ppb
15) T,M o-xylene	9.89	1450240	14.2418344	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	808674	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	2131190	NoCal	ppb
18) T,M Naphthalene	14.58	51829	NoCal	ppb

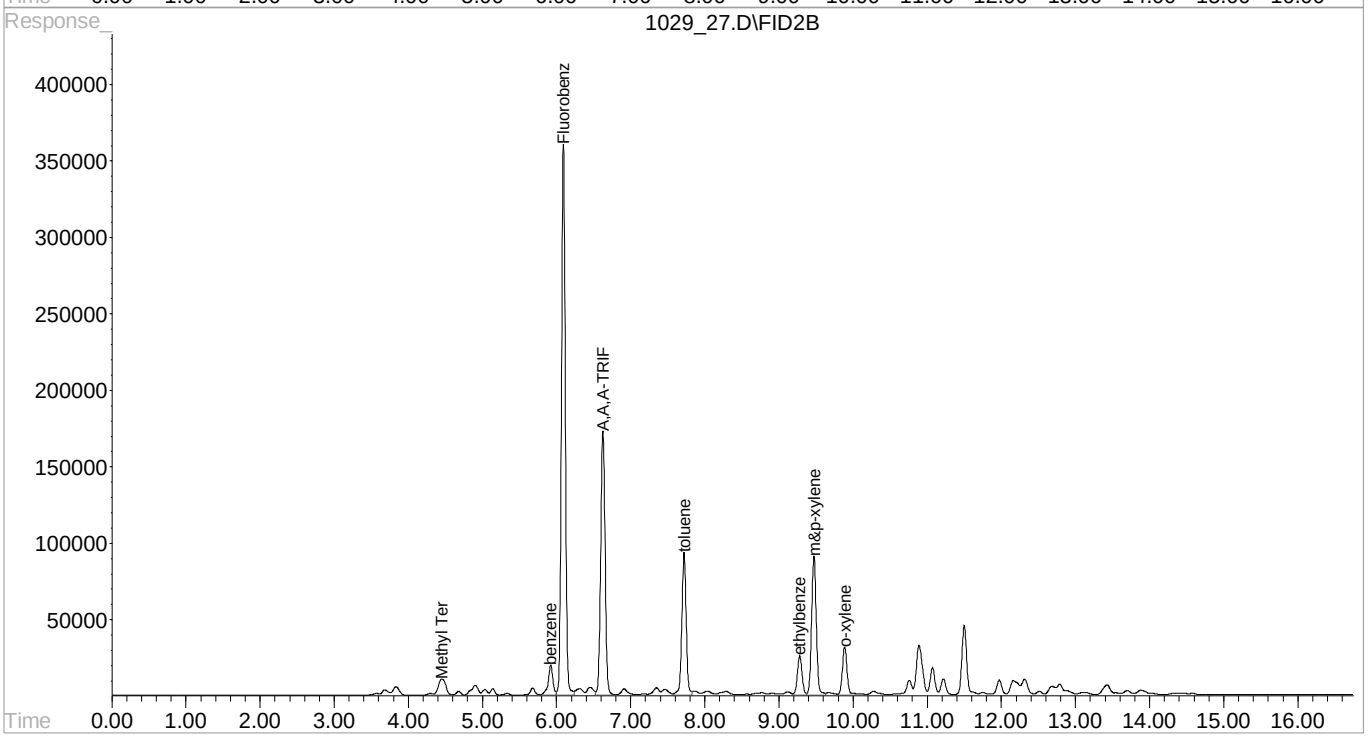
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID2B.CH
Acq On : 29 Oct 2014 11:50 pm Operator: 621
Sample : STD GRO .55 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID2B.CH
Acq On : 29 Oct 2014 11:50 pm Operator: 621
Sample : STD GRO .55 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

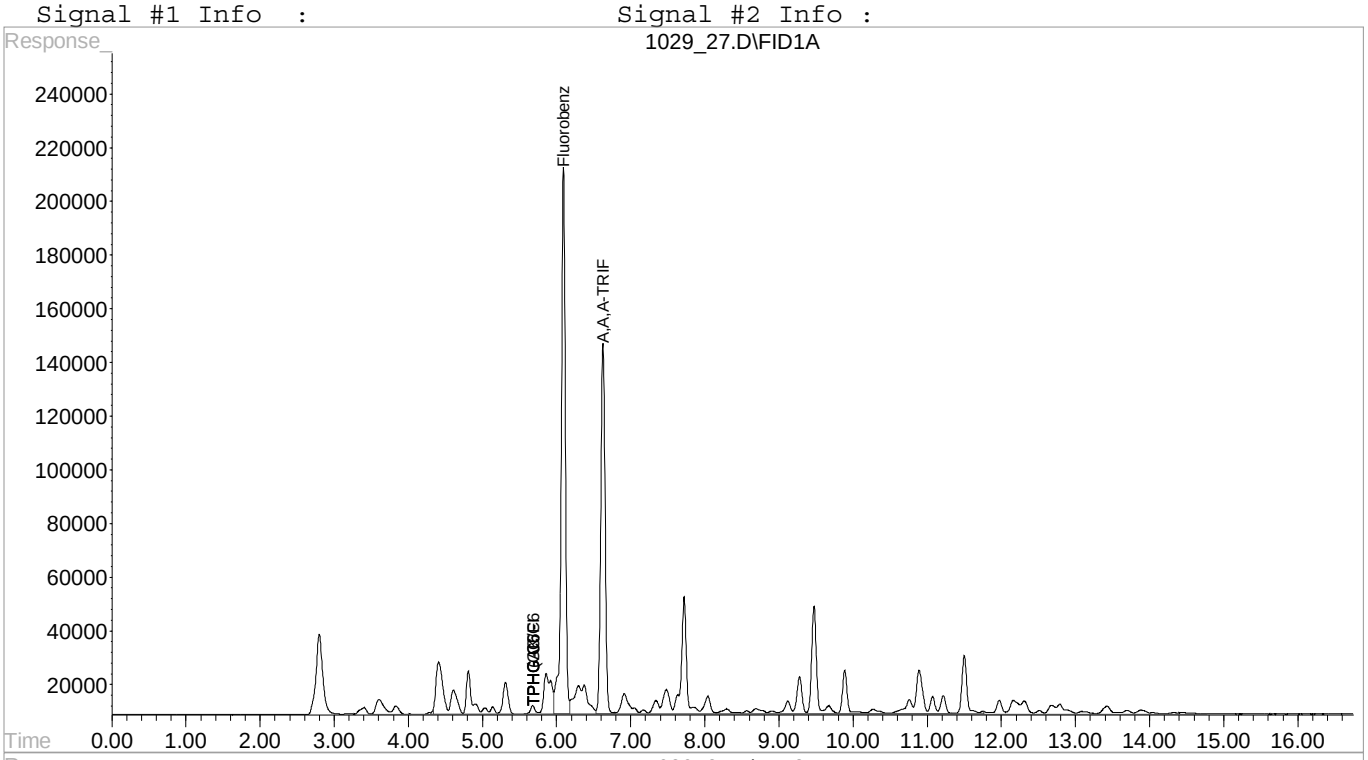
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7903566	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.63	5571323	183.1465730	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery =	91.57%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	5.70	21057751	0.5510712	ppm
3) H,M TPHG C6 - C12	5.70	20369342	0.5507288	ppm
4) h,m TPHGAK C6 to C10	5.70	16284801	0.5465207	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	17316718	0.5474972	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M Naphthalene	0.00	0	N.D.	ppb d

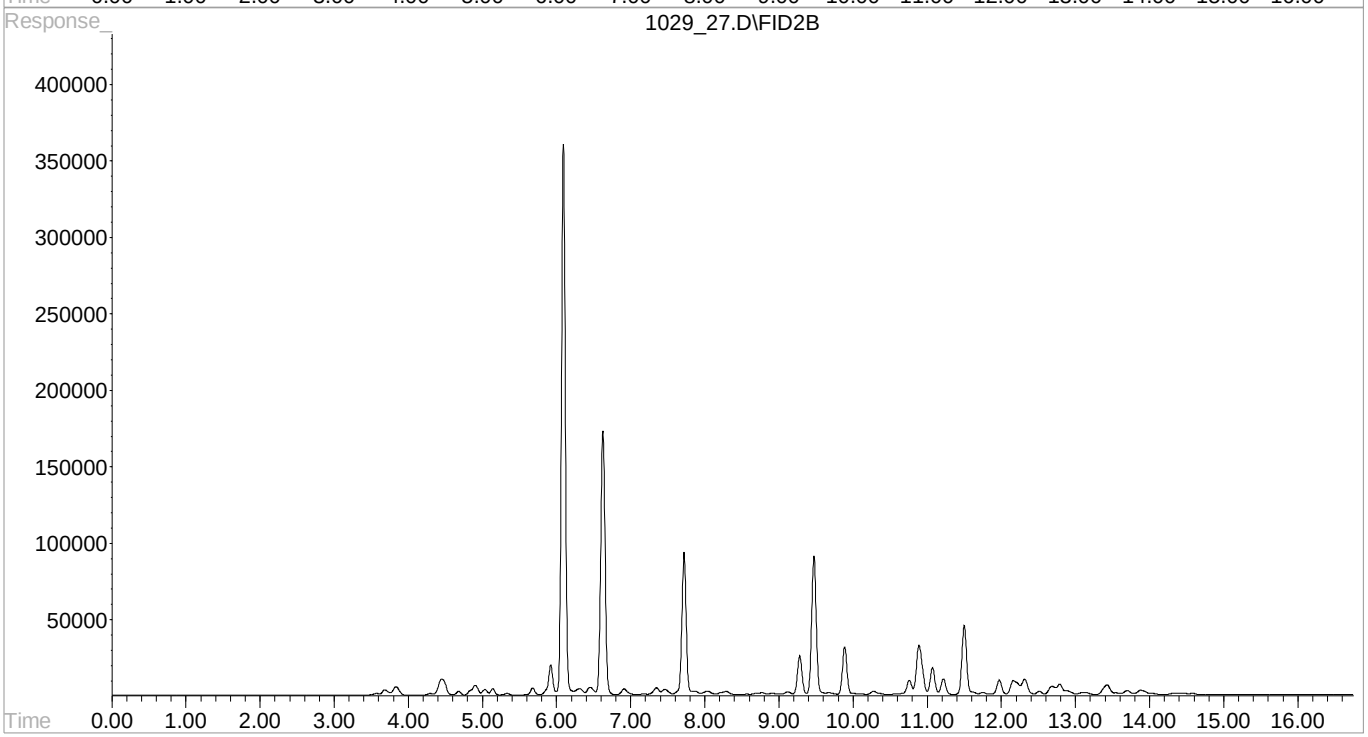
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 27.D\FID2B.CH
Acq On : 29 Oct 2014 11:50 pm Operator: 621
Sample : STD GRO .55 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID2B.CH
Acq On : 30 Oct 2014 12:12 am Operator: 621
Sample : STD GRO 1.1 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

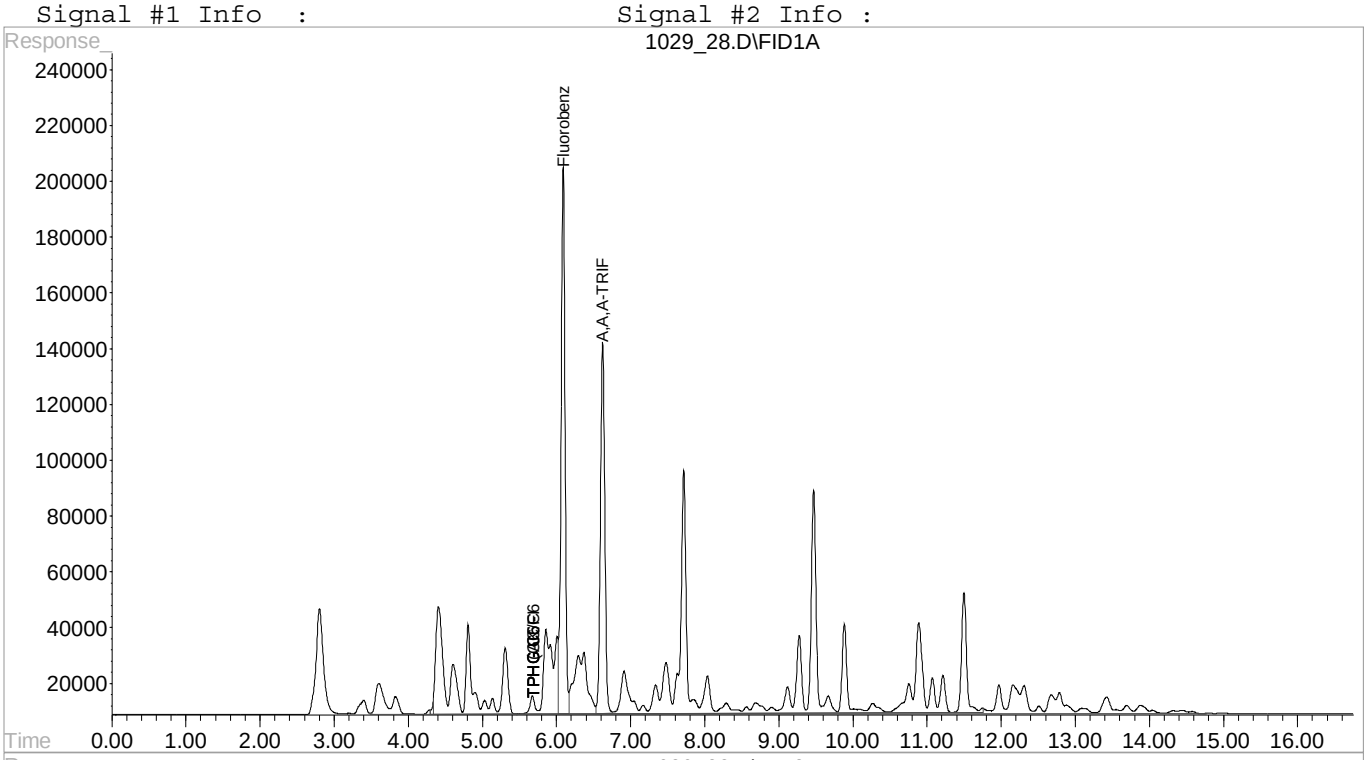
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7366789	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12774509	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5447336	192.1186165	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 96.06%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	6992480	215.5752121	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 107.79%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	43049469	1.2086717	ppm
3) H,M TPHG C6 - C12	5.70	41732633	1.2105463	ppm
4) h,m TPHGAK C6 to C10	5.70	33309062	1.1993099	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	35354342	1.1992340	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	1463215	39.0377406	ppb
11) T,M benzene	5.92	1755459	15.5046525	ppb
12) T,M toluene	7.72	7531885	67.5608240	ppb
13) T,M ethylbenzene	9.28	2233935	22.0822123	ppb
14) T,M m&p-xylene	9.47	7821705	70.3104949	ppb
15) T,M o-xylene	9.88	2851540	28.8916810	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	1584021	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	4213799	NoCal	ppb
18) T,M Naphthalene	14.58	130196	NoCal	ppb

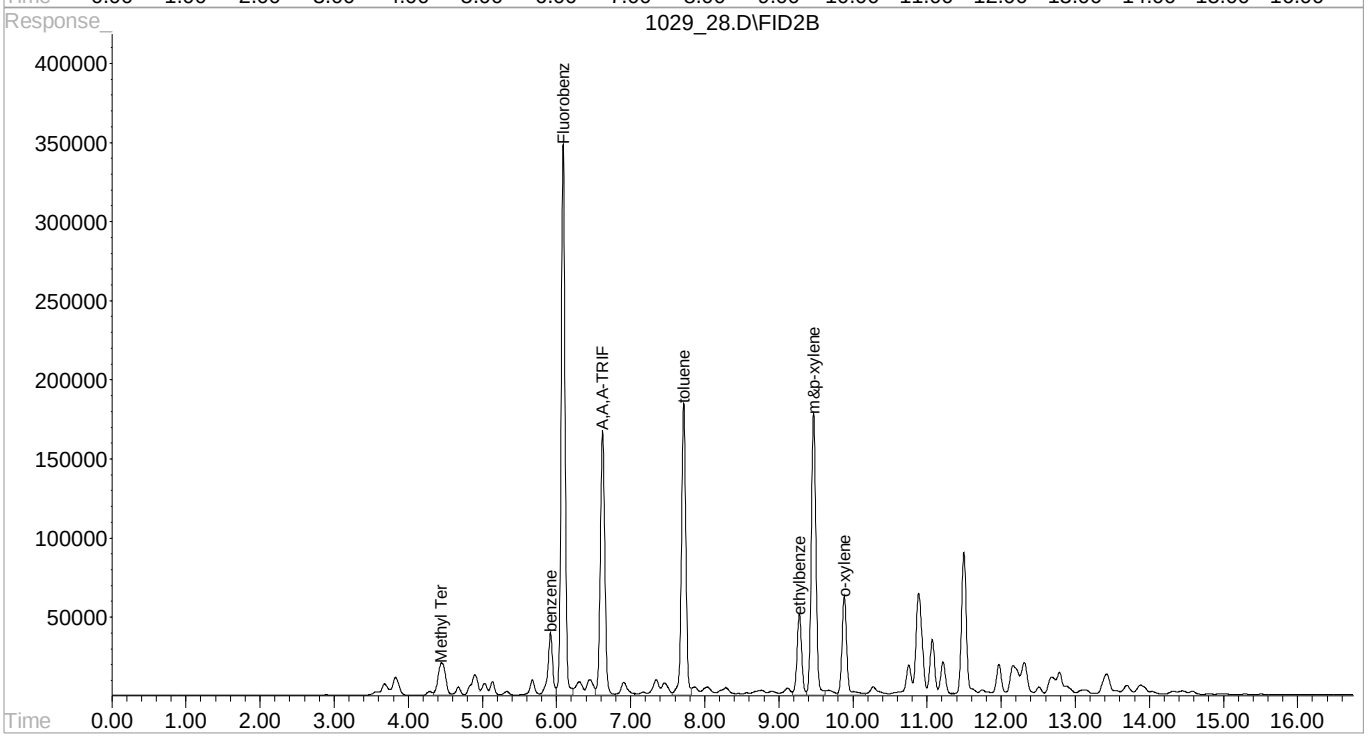
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID2B.CH
Acq On : 30 Oct 2014 12:12 am Operator: 621
Sample : STD GRO 1.1 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID2B.CH
Acq On : 30 Oct 2014 12:12 am Operator: 621
Sample : STD GRO 1.1 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

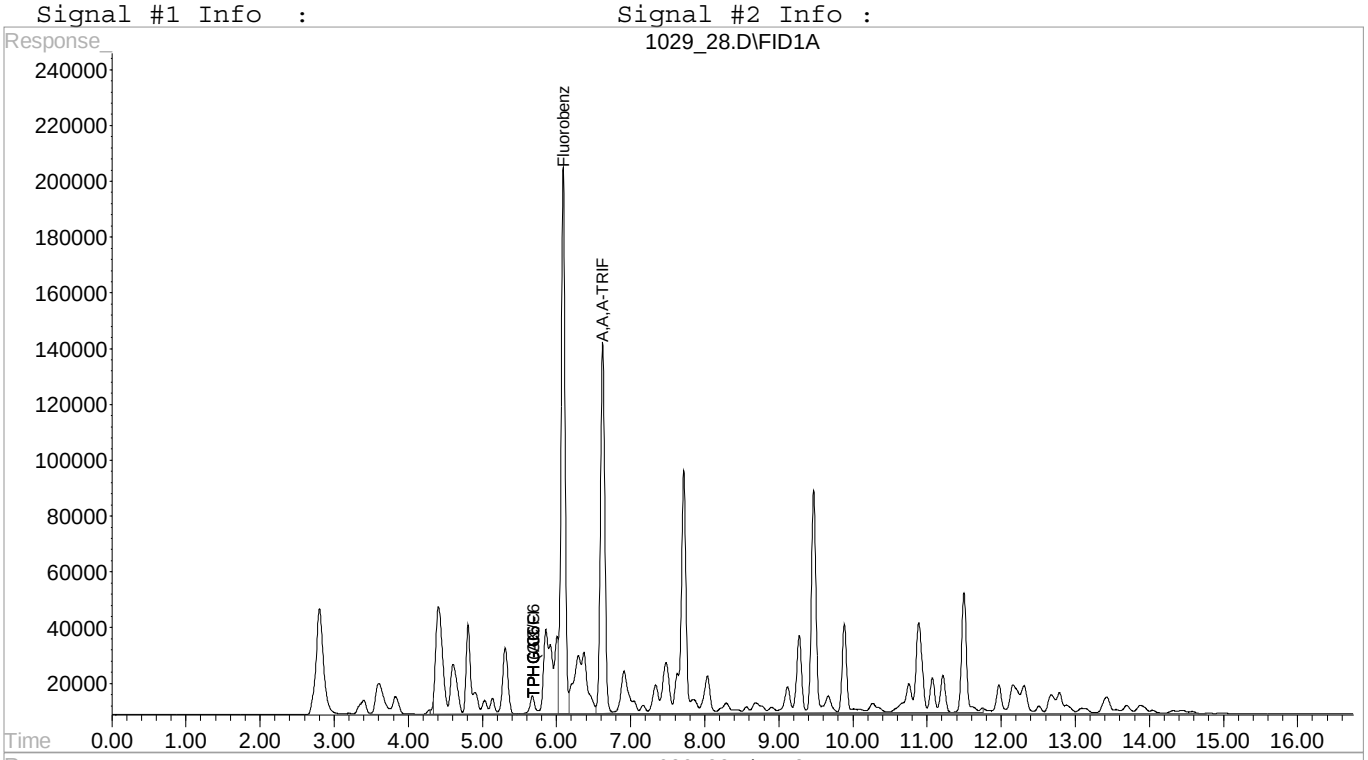
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7366789	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5447336	192.1186165	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery =	96.06%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	5.70	43049469	1.2086717	ppm
3) H,M TPHG C6 - C12	5.70	41732633	1.2105463	ppm
4) h,m TPHGAK C6 to C10	5.70	33309062	1.1993099	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	35354342	1.1992340	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M Naphthalene	0.00	0	N.D.	ppb d

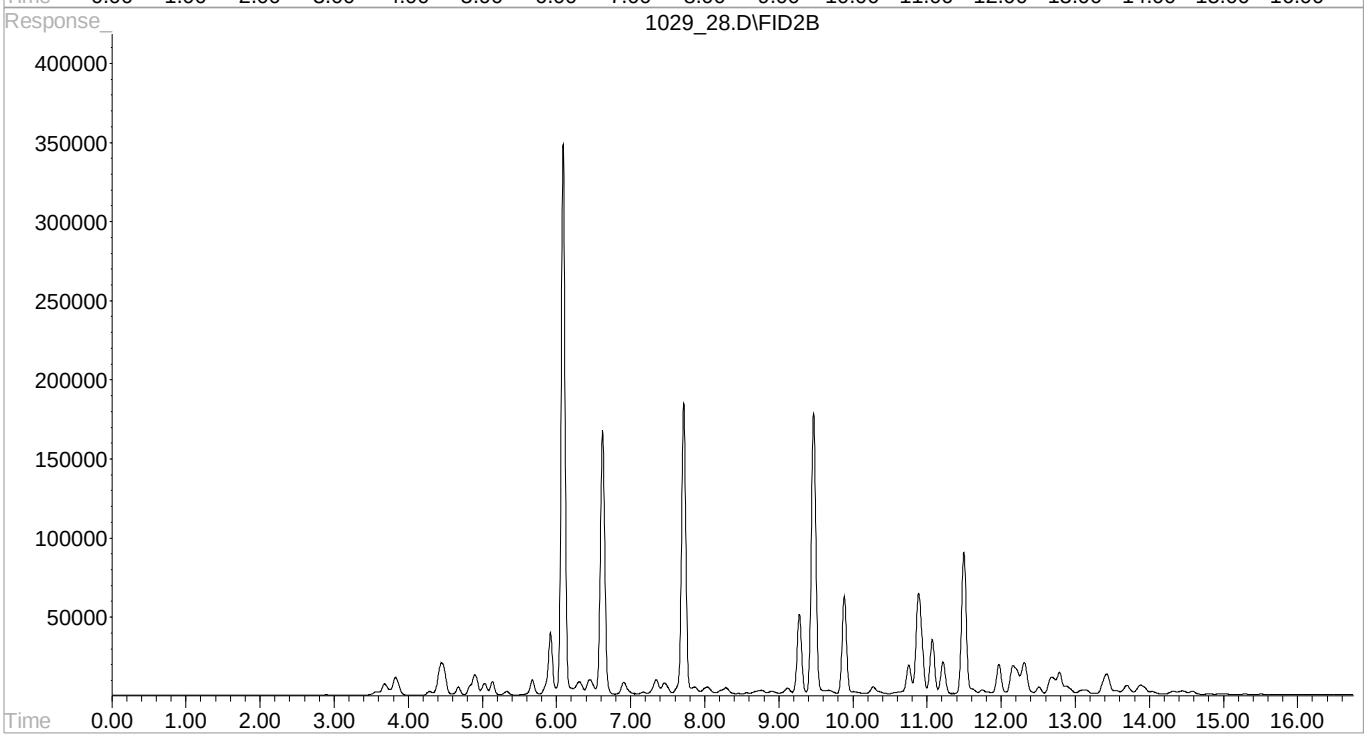
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 28.D\FID2B.CH
Acq On : 30 Oct 2014 12:12 am Operator: 621
Sample : STD GRO 1.1 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID2B.CH
Acq On : 30 Oct 2014 12:33 am Operator: 621
Sample : STD GRO 2.75 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

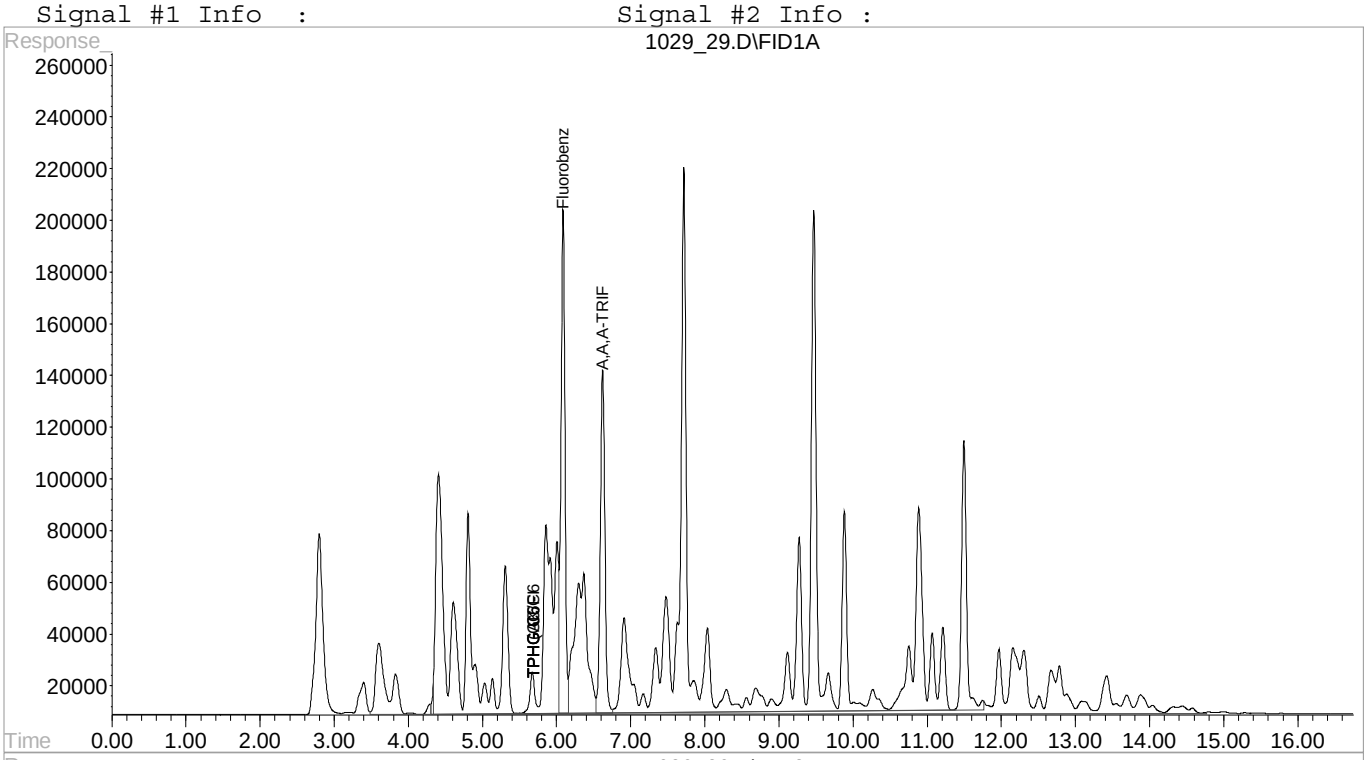
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7435461	200.0000000	ppb
8) I Fluorobenzene #2	6.09	12966286	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5652153	197.5010974	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 98.75%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	7317576	222.2610876	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 111.13%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	104542176	2.9080538	ppm
3) H,M TPHG C6 - C12	5.70	101218171	2.9089378	ppm
4) h,m TPHGAK C6 to C10	5.70	80876131	2.8850925	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	85832607	2.8845882	ppm
10) T,M Methyl Tert-Butyl Ether	4.45	3419560	89.8825241	ppb
11) T,M benzene	5.92	4180411	36.3763371	ppb
12) T,M toluene	7.72	17860633	157.8398692	ppb
13) T,M ethylbenzene	9.28	5319050	51.8005890	ppb
14) T,M m&p-xylene	9.47	18642777	165.1041470	ppb
15) T,M o-xylene	9.88	6783612	67.7147046	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	3747736	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	10034261	NoCal	ppb
18) T,M Naphthalene	14.58	323749	NoCal	ppb

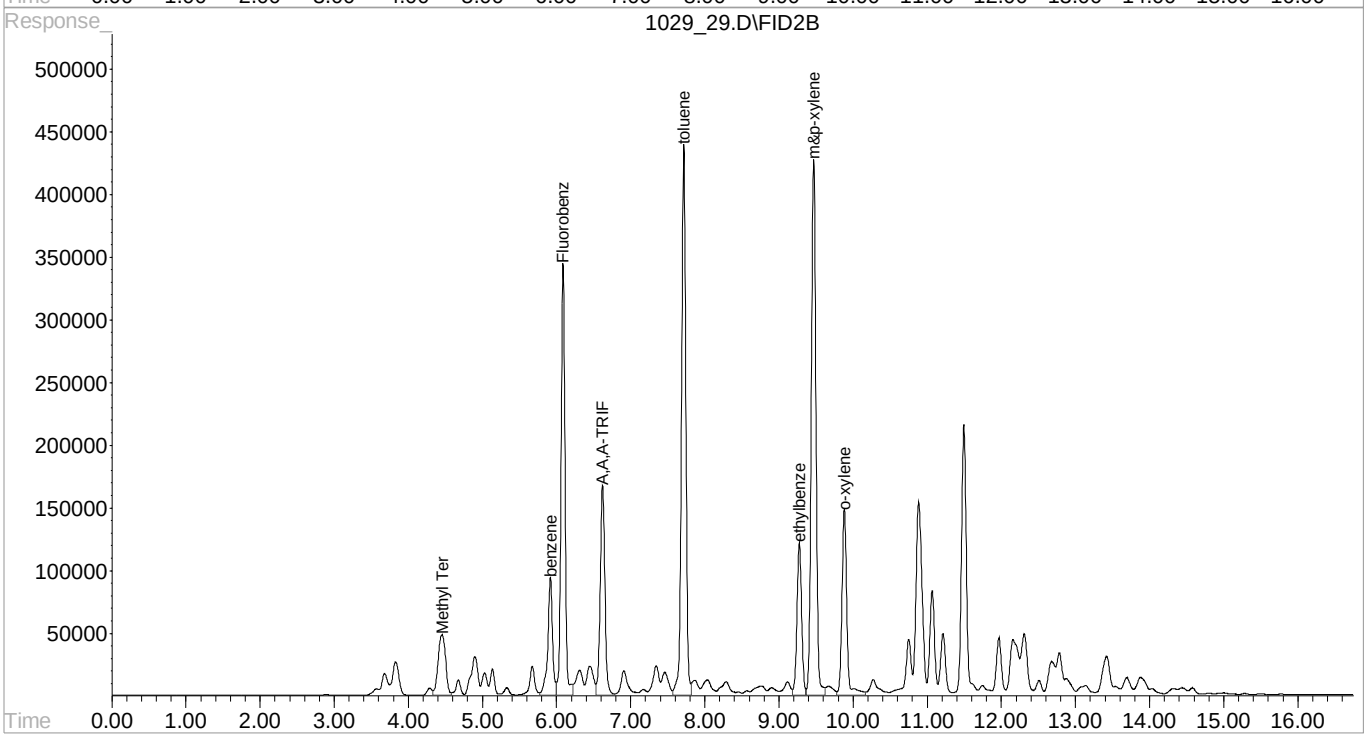
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID2B.CH
Acq On : 30 Oct 2014 12:33 am Operator: 621
Sample : STD GRO 2.75 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID2B.CH
Acq On : 30 Oct 2014 12:33 am Operator: 621
Sample : STD GRO 2.75 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

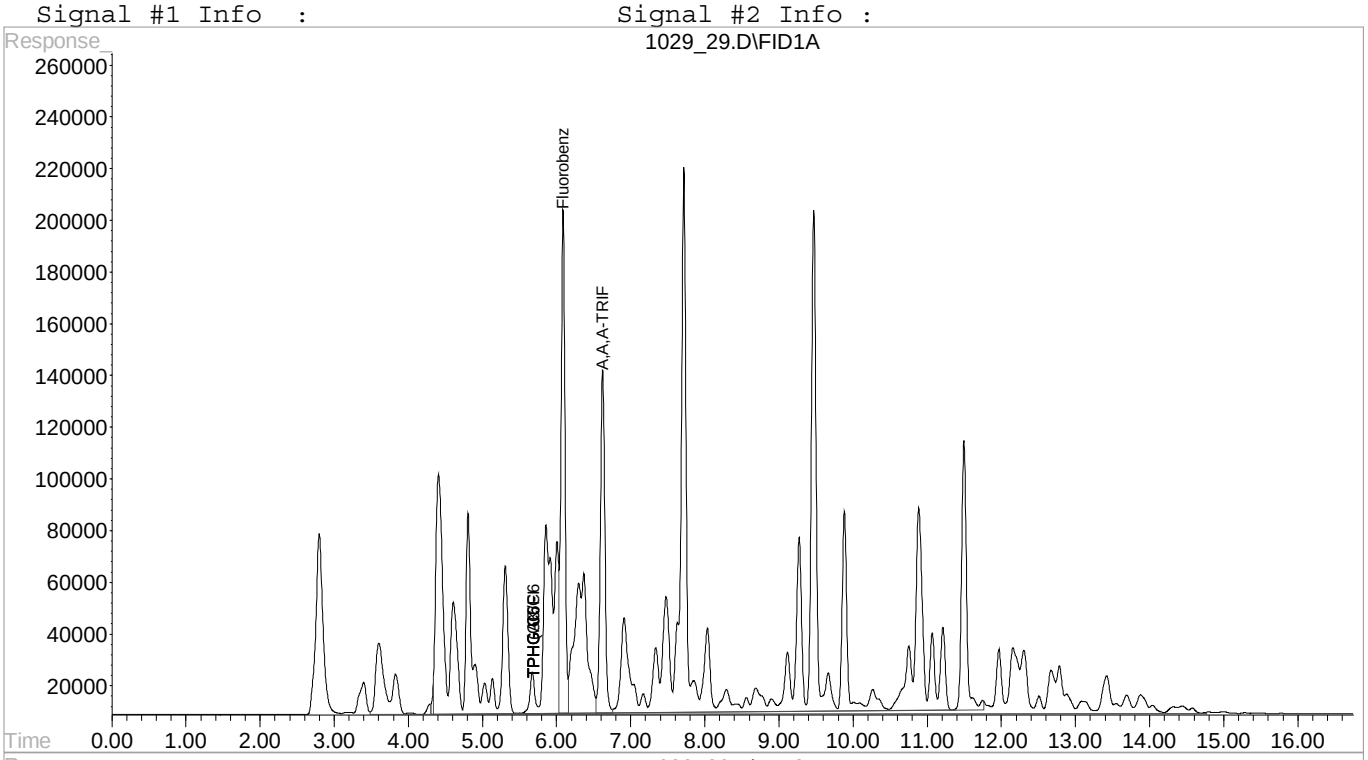
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7435461	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	5652153	197.5010974	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery =	98.75%	
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C5 - C12	5.70	104542176	2.9080538	ppm
3) H,M TPHG C6 - C12	5.70	101218171	2.9089378	ppm
4) h,m TPHGAK C6 to C10	5.70	80876131	2.8850925	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	85832607	2.8845882	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M Naphthalene	0.00	0	N.D.	ppb d

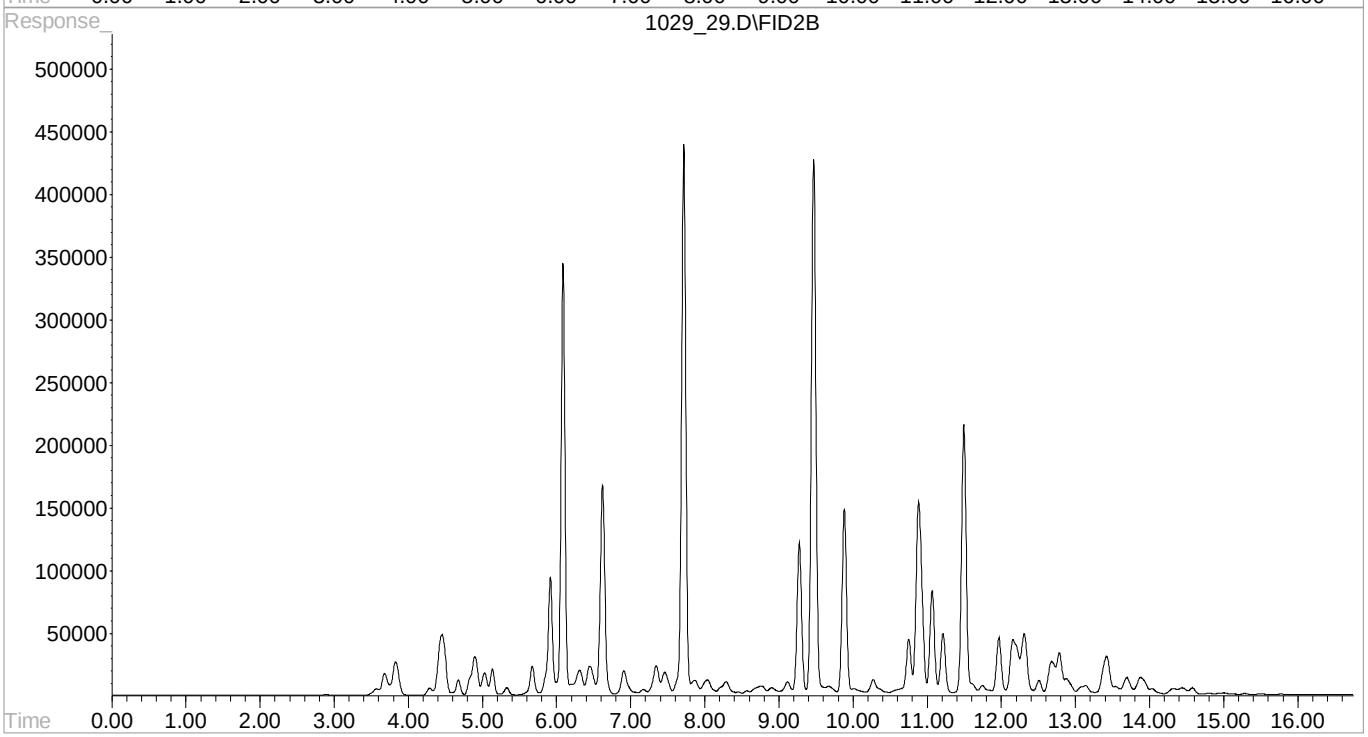
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 29.D\FID2B.CH
Acq On : 30 Oct 2014 12:33 am Operator: 621
Sample : STD GRO 2.75 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:56 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID2B.CH
Acq On : 30 Oct 2014 12:55 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:54 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

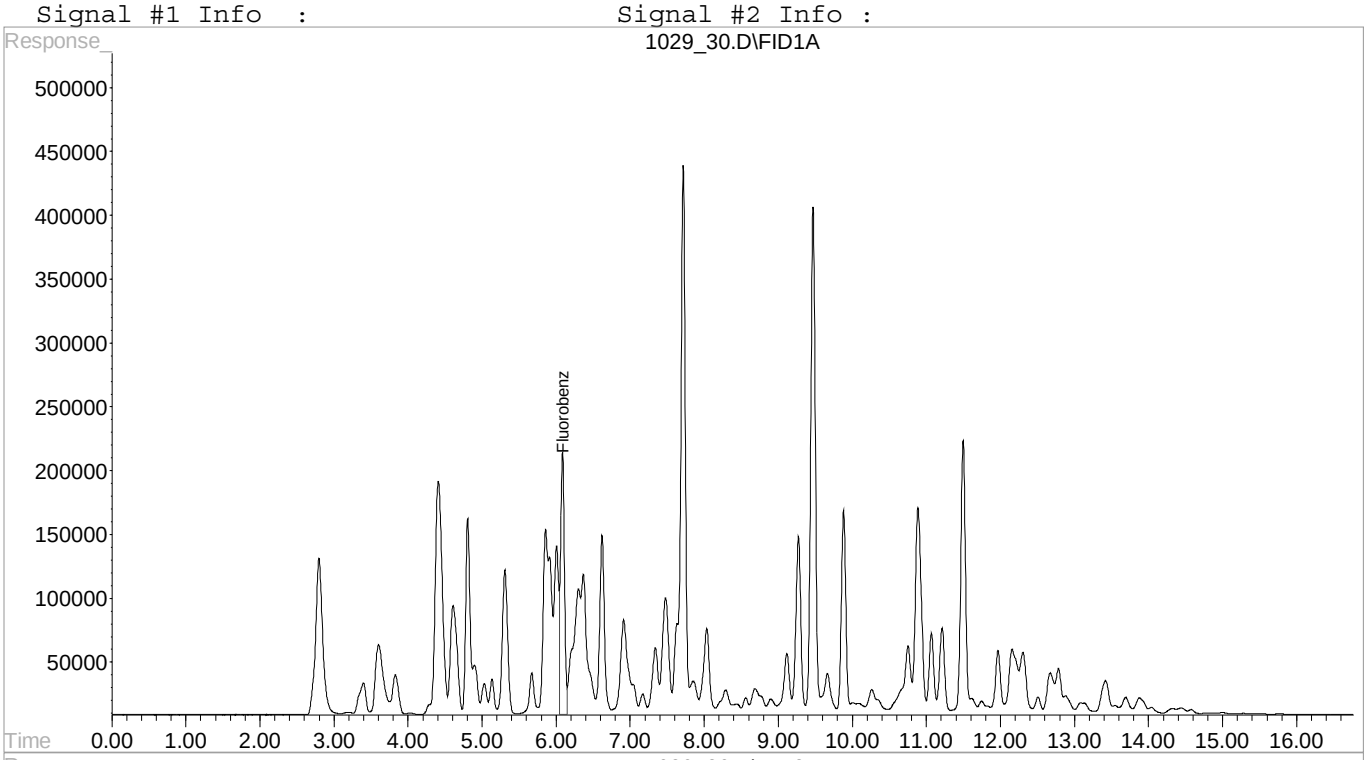
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.09	7851717	200.0000000	ppb
8) I Fluorobenzene #2	6.09	13425512	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	6346297	NoCal	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	8154351	239.2050627	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 119.60%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	208789445	NoCal	ppm
3) H,M TPHG C6 - C12	5.70	202089380	NoCal	ppm
4) h,m TPHGAK C6 to C10	5.70	162809625	NoCal	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	172817585	NoCal	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	6526665	165.6842106	ppb
11) T,M benzene	5.92	8276716	69.5573041	ppb
12) T,M toluene	7.72	35389614	302.0511113	ppb
13) T,M ethylbenzene	9.28	10581580	99.5258474	ppb
14) T,M m&p-xylene	9.47	36924795	315.8276853	ppb
15) T,M o-xylene	9.88	12691170	122.3512407	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	7395208	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	19891253	NoCal	ppb
18) T,M Naphthalene	14.58	523193	NoCal	ppb

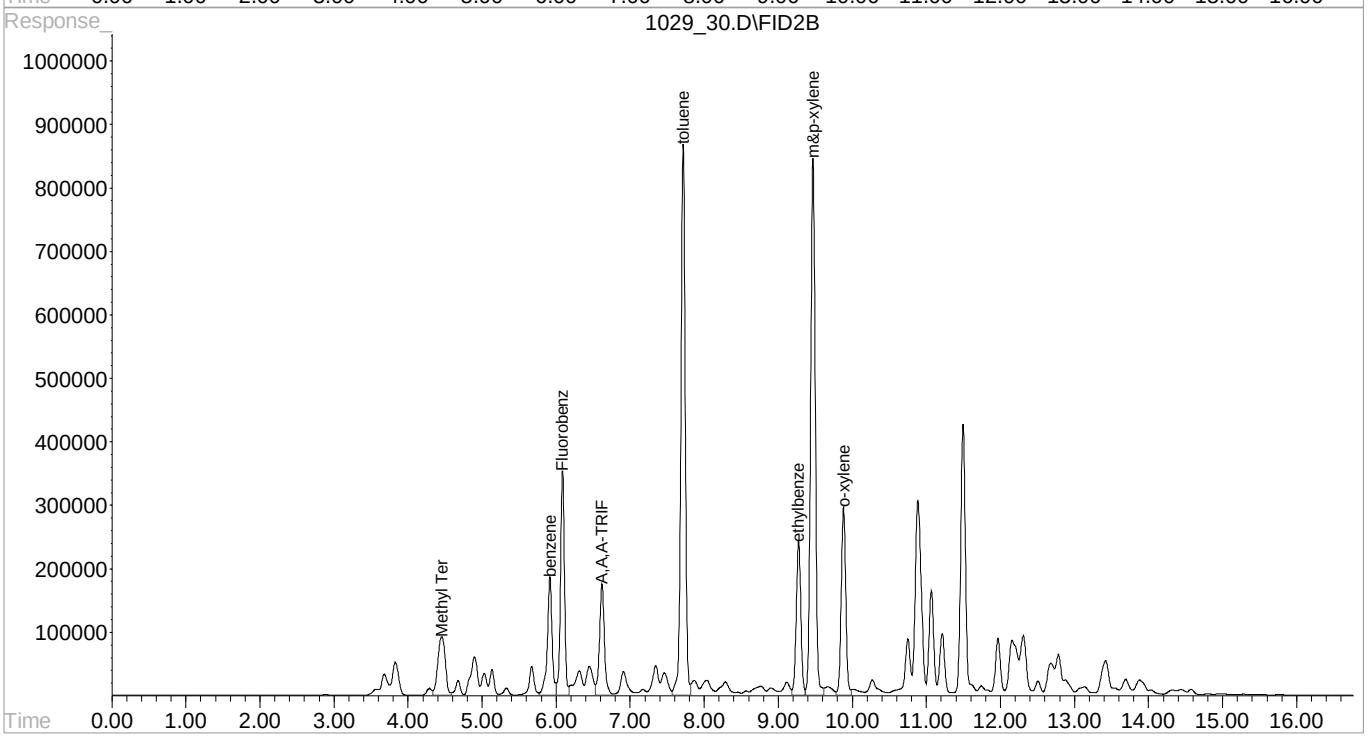
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID2B.CH
Acq On : 30 Oct 2014 12:55 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:54 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID2B.CH
Acq On : 30 Oct 2014 12:55 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:57 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

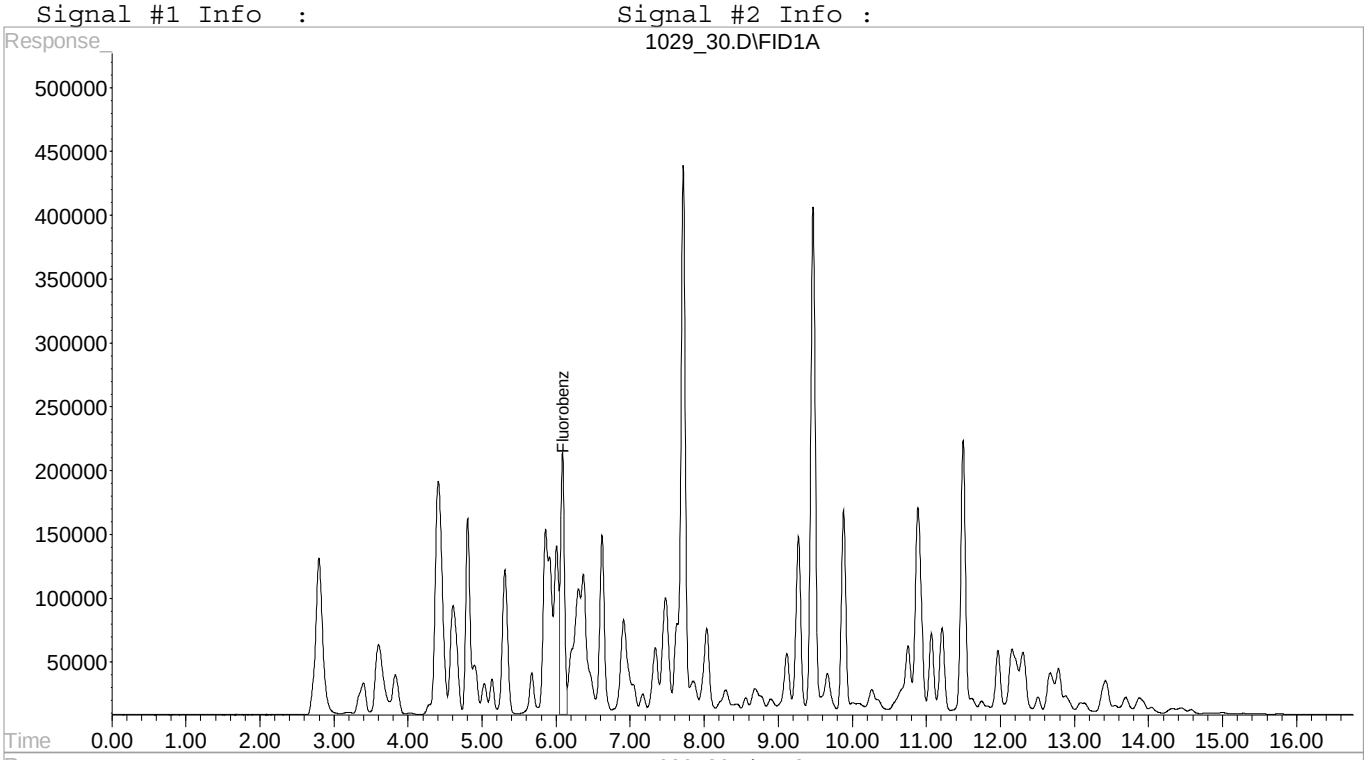
Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I Fluorobenzene #1	6.09	7851717	200.0000000	ppb	
8) I Fluorobenzene #2	0.00	0	N.D.	ppb	d
System Monitoring Compounds					
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	6346297	NoCal	ppb	
Spiked Amount 200.000 Range 59 - 128		Recovery =	0.00%#		
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount 200.000 Range 54 - 144		Recovery =	0.00%#		
Target Compounds					
2) H,M TPHG C5 - C12	5.70	208789445	NoCal	ppm	
3) H,M TPHG C6 - C12	5.70	202089380	NoCal	ppm	
4) h,m TPHGAK C6 to C10	5.70	162809625	NoCal	ppm	
5) h,m TPH (GC/FID) Low Fraction	5.70	172817585	NoCal	ppm	
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
11) T,M benzene	0.00	0	N.D.	ppb	d
12) T,M toluene	0.00	0	N.D.	ppb	d
13) T,M ethylbenzene	0.00	0	N.D.	ppb	d
14) T,M m&p-xylene	0.00	0	N.D.	ppb	d
15) T,M o-xylene	0.00	0	N.D.	ppb	d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M Naphthalene	0.00	0	N.D.	ppb	d

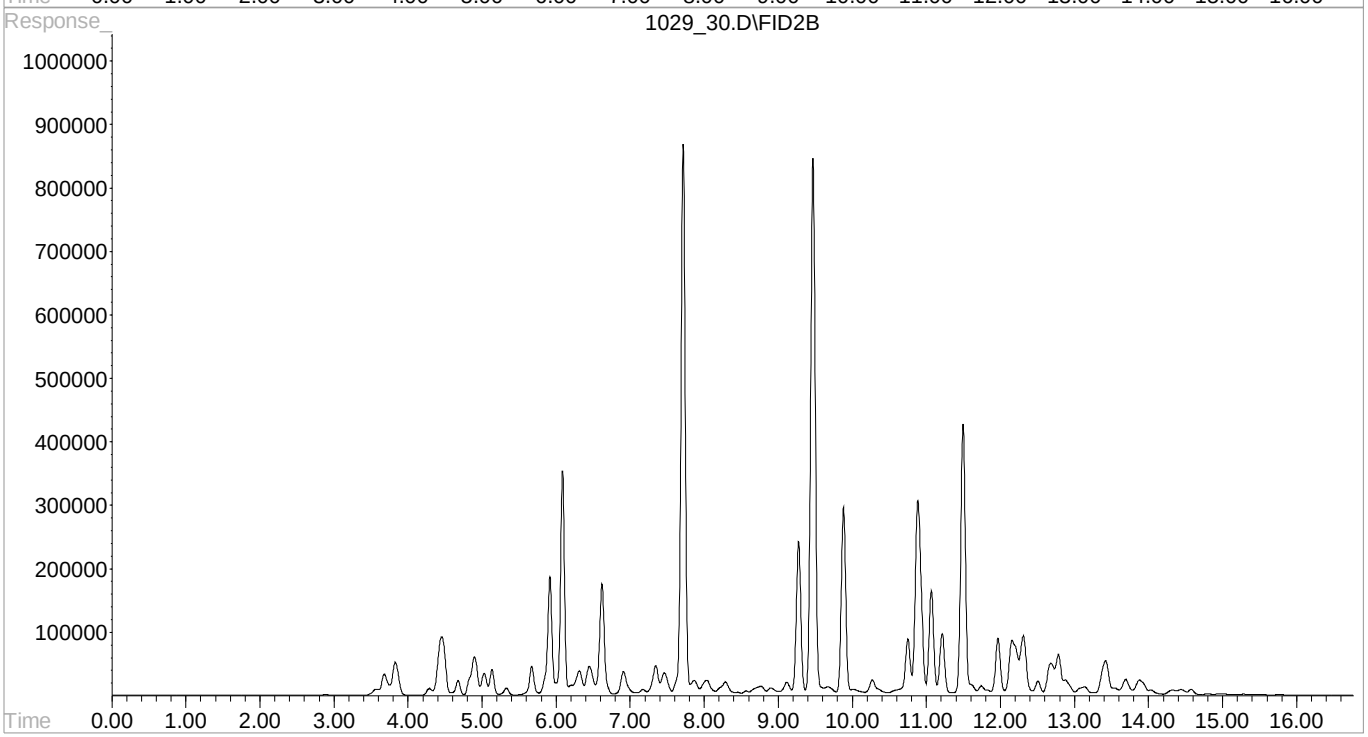
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 30.D\FID2B.CH
Acq On : 30 Oct 2014 12:55 am Operator: 621
Sample : MSTD GRO 5.5g ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:57 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:52:49 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID2B.CH
Acq On : 30 Oct 2014 1:17 am Operator: 621
Sample : STD GRO 11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.08	7781492	200.0000000	ppb
8) I Fluorobenzene #2	6.09	13865474	200.0000000	ppb
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	7279240	243.0450036	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 121.52%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	6.62	9395944	266.8809092	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 133.44%		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	403564289	10.7267622	ppm
3) H,M TPHG C6 - C12	5.70	390520508	10.7241979	ppm
4) h,m TPHGAK C6 to C10	5.70	317879682	10.8354552	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	337096989	10.8250873	ppm
10) T,M Methyl Tert-Butyl Ether	4.46	11863676	291.6118760	ppb
11) T,M benzene	5.92	15766191	128.2943653	ppb
12) T,M toluene	7.72	66571444	550.1596156	ppb
13) T,M ethylbenzene	9.28	20183633	183.8149523	ppb
14) T,M m&p-xylene	9.47	69399058	574.7537397	ppb
15) T,M o-xylene	9.88	24038391	224.3924469	ppb
16) T,M 1,3,5-Trimethylbenzene	11.07	13983792	NoCal	ppb
17) T,M 1,2,4-Trimethylbenzene	11.50	37429530	NoCal	ppb
18) T,M Naphthalene	14.57	782089	NoCal	ppb

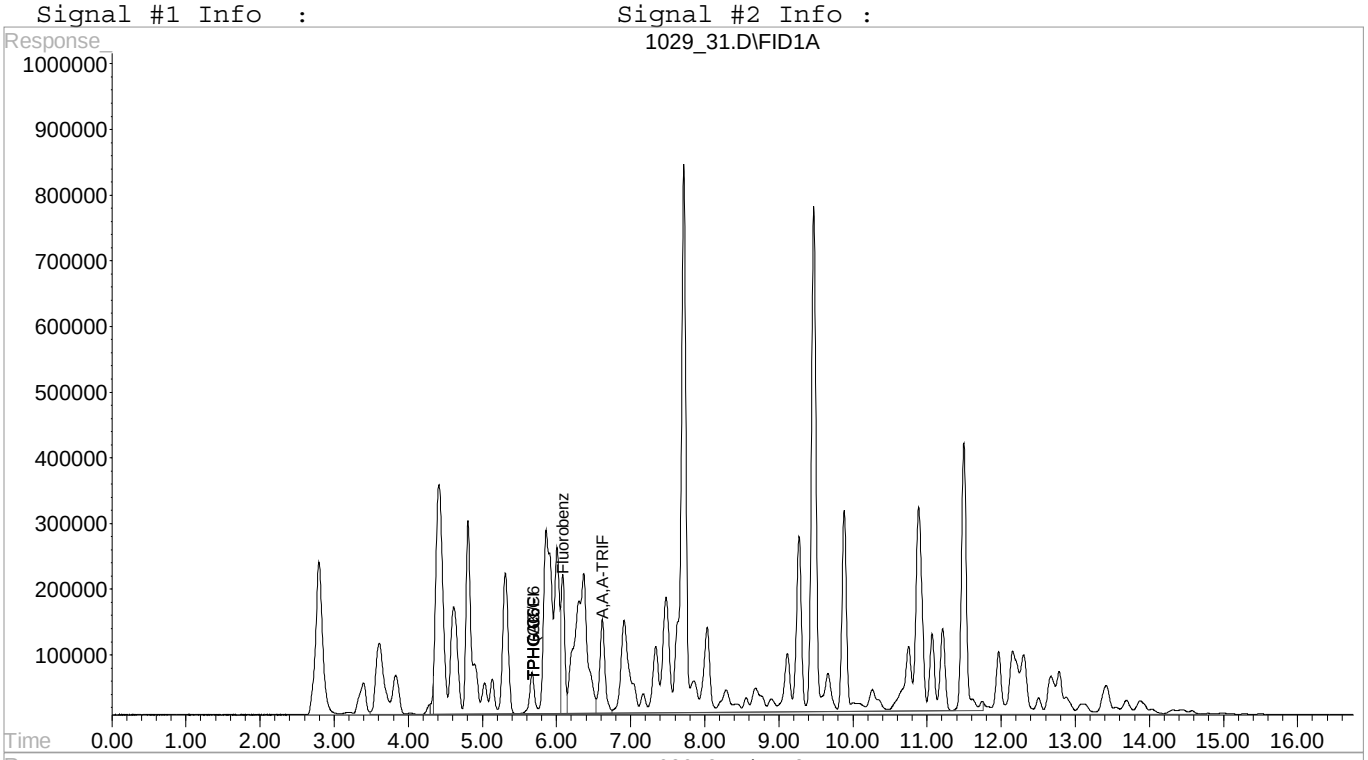
(f)=RT Delta > 1/2 Window (m)=manual int.
1029_31.D BG01J30N.M Thu Oct 30 08:55:30 2014 Page 1

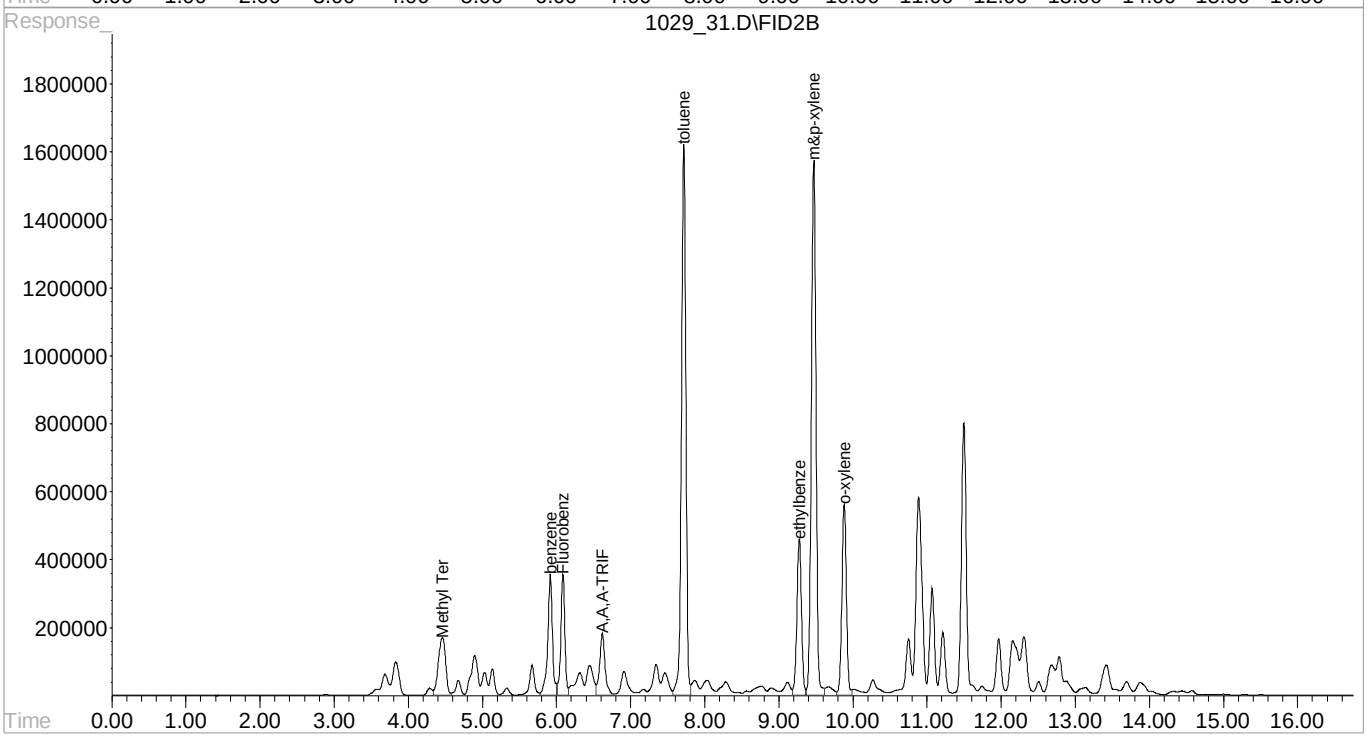
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID2B.CH
Acq On : 30 Oct 2014 1:17 am Operator: 621
Sample : STD GRO 11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:55 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID2B.CH
Acq On : 30 Oct 2014 1:17 am Operator: 621
Sample : STD GRO 11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:57 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Initial Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

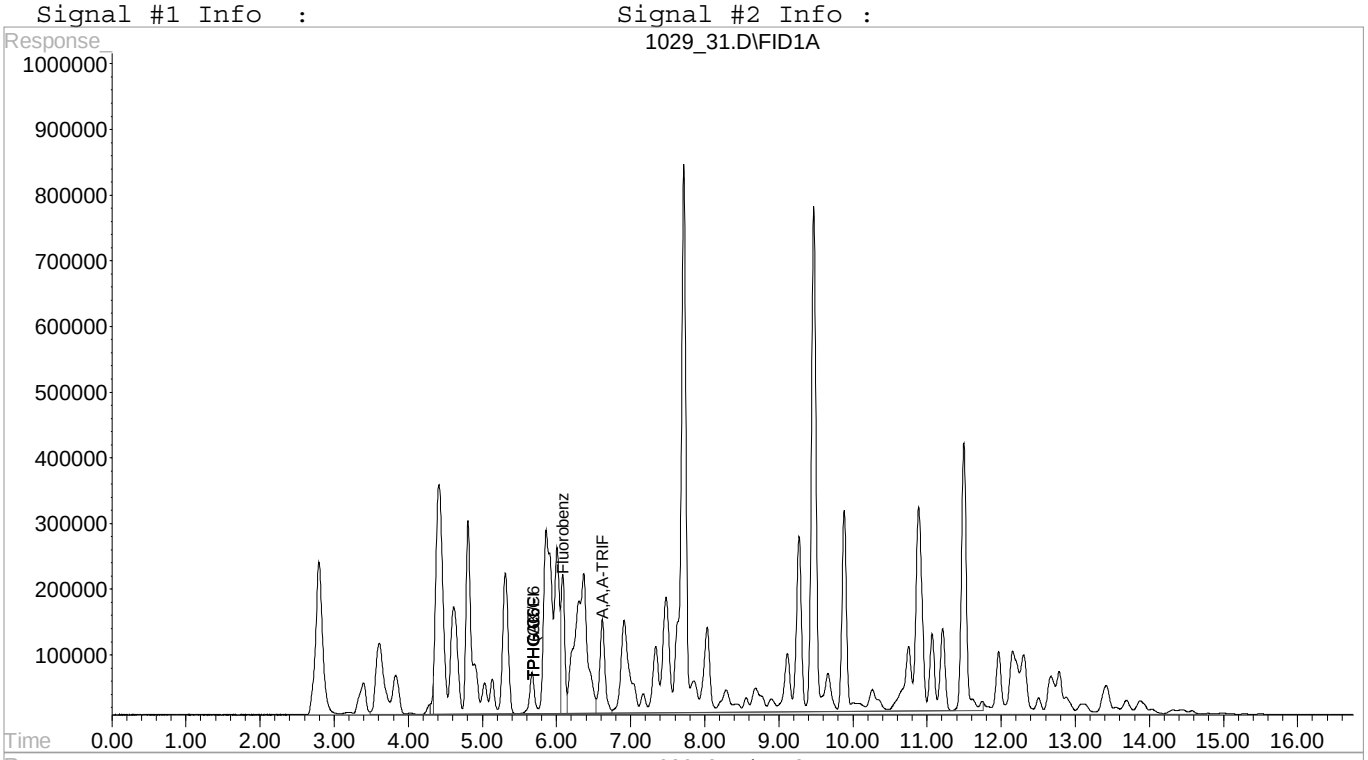
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	6.08	7781492	200.0000000	ppb
8) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
6) S A,A,A-TRIFLUOROTOLUENE(FID	6.62	7279240	243.0450036	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 121.52%		
9) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 54 - 144		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C5 - C12	5.70	403564289	10.7267622	ppm
3) H,M TPHG C6 - C12	5.70	390520508	10.7241979	ppm
4) h,m TPHGAK C6 to C10	5.70	317879682	10.8354552	ppm
5) h,m TPH (GC/FID) Low Fraction	5.70	337096989	10.8250873	ppm
10) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
11) T,M benzene	0.00	0	N.D.	ppb d
12) T,M toluene	0.00	0	N.D.	ppb d
13) T,M ethylbenzene	0.00	0	N.D.	ppb d
14) T,M m&p-xylene	0.00	0	N.D.	ppb d
15) T,M o-xylene	0.00	0	N.D.	ppb d
16) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
17) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M Naphthalene	0.00	0	N.D.	ppb d

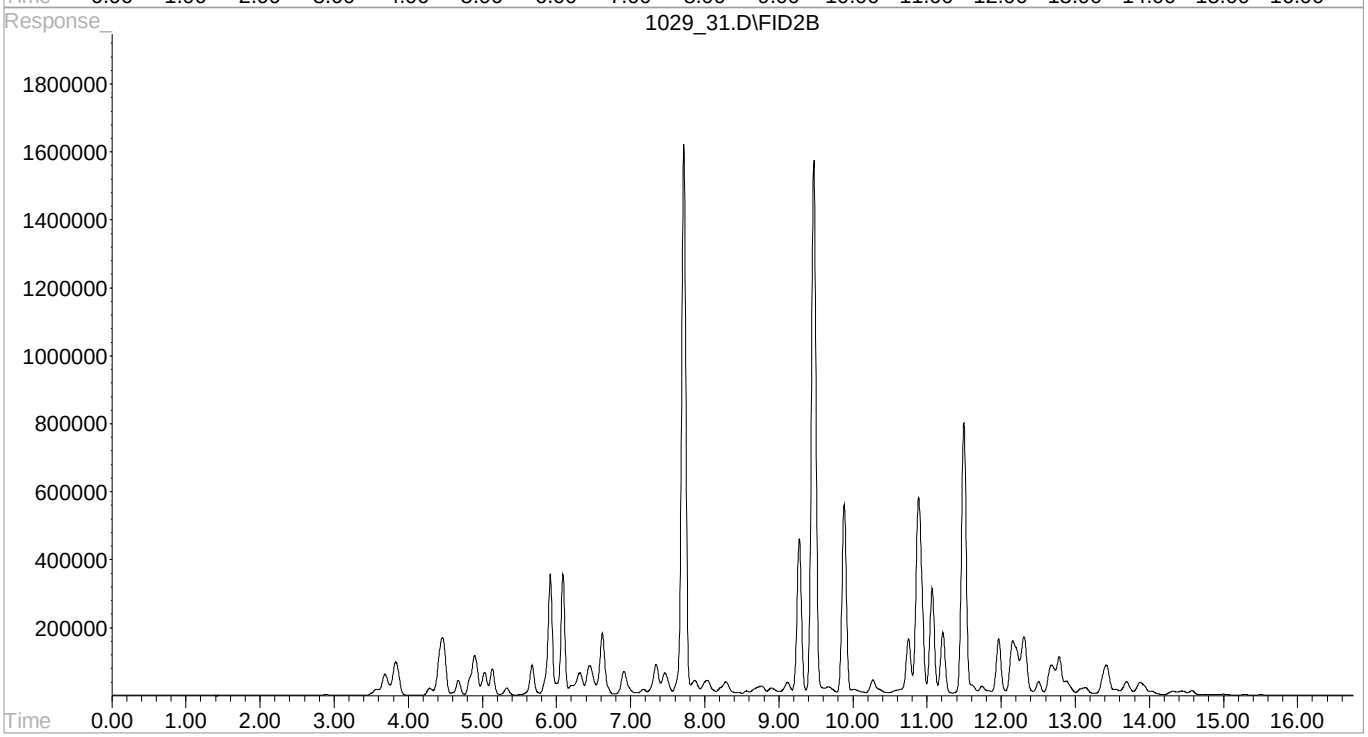
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA\102914\1029 31.D\FID2B.CH
Acq On : 30 Oct 2014 1:17 am Operator: 621
Sample : STD GRO 11 ppm 14J27632 Inst : VOCGC1
Misc : soil SURIS14F10114 Multiplr: 1.00
IntFile Signal #1: BTEX.E IntFile Signal #2: EVENTS3.E
Quant Time: Oct 30 8:57 2014 Quant Results File: BG01J30N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG01J30N.M (Chemstation Integrator)
Title : WIS GRO VOCGC01
Last Update : Thu Oct 30 08:54:58 2014
Response via : Single Level Calibration
DataAcq Meth : GC1BG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Volatile Organic Compounds by Method 8260B

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Workgroup: **WG750823**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L729802-02 1x	10/23/2014	10/30/2014
L729802-06 1x	10/23/2014	10/30/2014
L729802-07 1x	10/23/2014	10/30/2014
L729802-08 1x	10/23/2014	10/30/2014
L729802-09 1x	10/23/2014	10/30/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG752032**
Description: **Volatiles by Method 8260B (SS)**

Sample Name	Collect Date	Analysis Date
L729802-01 1x	10/23/2014	11/01/2014
L729802-03 1x	10/23/2014	11/01/2014
L729802-04 1x	10/23/2014	11/01/2014
L729802-05 1x	10/23/2014	11/01/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS21	LCS WG750823	LCS WG750823	1030_03.D	10/30/2014	1:05 PM
VOCMS21	LCSD WG750823	LCSD WG750823	1030_04.D	10/30/2014	1:27 PM
VOCMS21	MS WG750823	MS WG750823	1030_05.D	10/30/2014	2:06 PM
VOCMS21	MSD WG750823	MSD WG750823	1030_06.D	10/30/2014	2:28 PM
VOCMS21	Blank WG750823	Blank WG750823	1030_08.D	10/30/2014	3:12 PM
VOCMS21	TU515-TRIPBLANK01-NT01	L729802-02	1030_09.D	10/30/2014	3:41 PM
VOCMS21	H-TU904-GW03-NT01	L729802-09	1030_10.D	10/30/2014	4:04 PM
VOCMS21	H-TU904-GW01-DT01	L729802-06	1030_23.D	10/30/2014	11:00 PM
VOCMS21	H-TU904-GW01-NT01	L729802-07	1030_24.D	10/30/2014	11:22 PM
VOCMS21	H-TU904-GW07-NT01	L729802-08	1030_25.D	10/30/2014	11:44 PM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS21	LCS WG752032	LCS WG752032	1101_03.D	11/1/2014	10:05 AM
VOCMS21	LCSD WG752032	LCSD WG752032	1101_04.D	11/1/2014	10:27 AM
VOCMS21	MS WG752032	MS WG752032	1101_05.D	11/1/2014	10:58 AM
VOCMS21	MSD WG752032	MSD WG752032	1101_06.D	11/1/2014	11:20 AM
VOCMS21	Blank WG752032	Blank WG752032	1101_09.D	11/1/2014	12:26 PM
VOCMS21	TU515-SB08-NS01	L729802-03	1101_10.D	11/1/2014	12:58 PM
VOCMS21	TU515-SB02-NS01	L729802-01	1101_22.D	11/1/2014	5:23 PM
VOCMS21	TU515-SB10-NS01	L729802-04	1101_23.D	11/1/2014	5:45 PM
VOCMS21	TU515-SB10-NS02	L729802-05	1101_24.D	11/1/2014	6:07 PM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000214	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000264	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000286	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000365	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000277	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000199	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000303	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000317	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000306	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000741	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000388	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000211	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00105	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000343	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000305	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000265	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000358	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000266	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000239	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000207	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000226	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000279	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00468	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000301	
2-Hexanone	591-78-6	< 0.0100	< 0.00380	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000240	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00188	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000270	
Bromobenzene	108-86-1	< 0.00100	< 0.000284	
Bromochloromethane	74-97-5	< 0.00100	< 0.000390	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000254	
Bromoform	75-25-2	< 0.00100	< 0.000424	
Bromomethane	74-83-9	< 0.00500	< 0.00134	
Carbon disulfide	75-15-0	< 0.00100	< 0.000280	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000328	
Chlorobenzene	108-90-7	< 0.00100	< 0.000212	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000373	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000946	
Chloroform	67-66-3	< 0.00500	< 0.000229	
Chloromethane	74-87-3	< 0.00250	< 0.000375	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000235	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000262	
Dibromomethane	74-95-3	< 0.00100	< 0.000382	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000713	
Ethylbenzene	100-41-4	< 0.00100	< 0.000297	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000342	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000243	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000720	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000212	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000258	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000206	
o-Xylene	95-47-6	< 0.00100	< 0.000340	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000204	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000201	
Styrene	100-42-5	< 0.00100	< 0.000234	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000206	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000276	
Toluene	108-88-3	< 0.00500	< 0.000434	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000264	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000267	
Trichloroethene	79-01-6	< 0.00100	< 0.000279	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.000382	
Vinyl chloride	75-01-4	< 0.00100	< 0.000291	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0285	114	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0264	106	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0269	108	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0259	104	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0263	105	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0267	107	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0258	103	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0253	101	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0303	121	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0272	109	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0285	114	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0282	113	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0269	108	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0253	101	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0269	108	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0264	105	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0275	110	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0255	102	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0260	104	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0272	109	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1201	96.1	55 - 149	
2-Chlorotoluene	1	0.025	0.0268	107	74.7 - 122	
2-Hexanone	1	0.125	0.1360	109	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0268	107	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1324	106	70.5 - 133	
Acetone	1	0.125	0.1149	91.9	35.6 - 163	
Benzene	1	0.025	0.0257	103	74.8 - 121	
Bromobenzene	1	0.025	0.0251	101	77.5 - 116	
Bromochloromethane	1	0.025	0.0266	107	77.6 - 119	
Bromodichloromethane	1	0.025	0.0279	111	75.1 - 116	
Bromoform	1	0.025	0.0299	120	67.5 - 130	
Bromomethane	1	0.025	0.0297	119	49.9 - 162	
Carbon disulfide	1	0.025	0.0260	104	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0273	109	70.2 - 123	
Chlorobenzene	1	0.025	0.0252	101	78.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0273	109	74 - 121	
Chloroethane	1	0.025	0.0299	119	61.7 - 135	
Chloroform	1	0.025	0.0260	104	76 - 121	
Chloromethane	1	0.025	0.0244	97.6	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0273	109	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0282	113	78.2 - 120	
Dibromomethane	1	0.025	0.0269	108	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0222	88.7	54.8 - 135	
Ethylbenzene	1	0.025	0.0269	107	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0283	113	64.7 - 129	
Isopropylbenzene	1	0.025	0.0270	108	78.6 - 132	
m&p-Xylenes	1	0.05	0.0534	107	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0252	101	71.2 - 126	
Methylene Chloride	1	0.025	0.0237	95	70.3 - 120	
Naphthalene	1	0.025	0.0259	103	68.4 - 128	
n-Butylbenzene	1	0.025	0.0284	113	76.2 - 126	
n-Propylbenzene	1	0.025	0.0265	106	78.2 - 122	
o-Xylene	1	0.025	0.0259	104	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0272	109	74 - 131	
sec-Butylbenzene	1	0.025	0.0265	106	74.4 - 127	
Styrene	1	0.025	0.0263	105	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0271	108	75.3 - 126	
Tetrachloroethene	1	0.025	0.0261	104	72.6 - 126	
Toluene	1	0.025	0.0252	101	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0254	102	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0275	110	74.3 - 123	
Trichloroethene	1	0.025	0.0260	104	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0262	105	63.5 - 135	
Vinyl chloride	1	0.025	0.0222	88.7	65.9 - 128	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0293	117	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0243	97.1	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0283	113	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0267	107	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0239	95.6	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0247	98.8	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0245	98	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0276	110	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0274	109	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0282	113	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0278	111	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0287	115	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0280	112	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0265	106	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0245	98.2	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0265	106	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0272	109	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0283	113	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0261	104	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0261	104	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0245	98.2	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1126	90.1	55 - 149	
2-Chlorotoluene	1	0.025	0.0277	111	74.7 - 122	
2-Hexanone	1	0.125	0.1434	115	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0278	111	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1377	110	70.5 - 133	
Acetone	1	0.125	0.1056	84.5	35.6 - 163	
Benzene	1	0.025	0.0253	101	74.8 - 121	
Bromobenzene	1	0.025	0.0263	105	77.5 - 116	
Bromochloromethane	1	0.025	0.0241	96.6	77.6 - 119	
Bromodichloromethane	1	0.025	0.0274	110	75.1 - 116	
Bromoform	1	0.025	0.0314	126	67.5 - 130	
Bromomethane	1	0.025	0.0284	114	49.9 - 162	
Carbon disulfide	1	0.025	0.0238	95	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0253	101	70.2 - 123	
Chlorobenzene	1	0.025	0.0261	104	78.1 - 119	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0282	113	74 - 121	
Chloroethane	1	0.025	0.0265	106	61.7 - 135	
Chloroform	1	0.025	0.0240	96	76 - 121	
Chloromethane	1	0.025	0.0230	91.9	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0239	95.8	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0277	111	78.2 - 120	
Dibromomethane	1	0.025	0.0260	104	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0213	85.3	54.8 - 135	
Ethylbenzene	1	0.025	0.0273	109	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0274	109	64.7 - 129	
Isopropylbenzene	1	0.025	0.0275	110	78.6 - 132	
m&p-Xylenes	1	0.05	0.0552	110	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0227	90.9	71.2 - 126	
Methylene Chloride	1	0.025	0.0217	86.9	70.3 - 120	
Naphthalene	1	0.025	0.0257	103	68.4 - 128	
n-Butylbenzene	1	0.025	0.0280	112	76.2 - 126	
n-Propylbenzene	1	0.025	0.0275	110	78.2 - 122	
o-Xylene	1	0.025	0.0262	105	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0285	114	74 - 131	
sec-Butylbenzene	1	0.025	0.0276	110	74.4 - 127	
Styrene	1	0.025	0.0276	110	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0280	112	75.3 - 126	
Tetrachloroethene	1	0.025	0.0277	111	72.6 - 126	
Toluene	1	0.025	0.0255	102	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0229	91.7	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0280	112	74.3 - 123	
Trichloroethene	1	0.025	0.0259	104	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0243	97.3	63.5 - 135	
Vinyl chloride	1	0.025	0.0214	85.6	65.9 - 128	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0285	114	0.0293	117	74.2 - 124		2.83	20	
1,1,1-Trichloroethane	1	0.025	0.0264	106	0.0243	97.1	73.2 - 123		8.5	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0269	108	0.0283	113	70.7 - 122		5.22	20	
1,1,2-Trichloroethane	1	0.025	0.0259	104	0.0267	107	77.7 - 118		3.15	20	
1,1-Dichloroethane	1	0.025	0.0263	105	0.0239	95.6	70.7 - 126		9.62	20	
1,1-Dichloroethene	1	0.025	0.0267	107	0.0247	98.8	67.8 - 129		7.61	20	
1,1-Dichloropropene	1	0.025	0.0258	103	0.0245	98	73.1 - 125		5.36	20	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	0.0276	110	64.9 - 135		4.14	20	
1,2,3-Trichloropropane	1	0.025	0.0253	101	0.0274	109	71.8 - 121		7.7	20	
1,2,4-Trichlorobenzene	1	0.025	0.0303	121	0.0282	113	69.7 - 136		7.06	20	
1,2,4-Trimethylbenzene	1	0.025	0.0272	109	0.0278	111	75 - 123		1.89	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0285	114	0.0287	115	65.4 - 128		0.83	20	
1,2-Dibromoethane	1	0.025	0.0282	113	0.0280	112	76.6 - 121		0.55	20	
1,2-Dichlorobenzene	1	0.025	0.0269	108	0.0265	106	78.4 - 117		1.75	20	
1,2-Dichloroethane	1	0.025	0.0253	101	0.0245	98.2	68.8 - 124		3.16	20	
1,2-Dichloropropane	1	0.025	0.0269	108	0.0265	106	76.5 - 119		1.56	20	
1,3,5-Trimethylbenzene	1	0.025	0.0264	105	0.0272	109	75.6 - 124		3.13	20	
1,3-Dichlorobenzene	1	0.025	0.0275	110	0.0283	113	70.8 - 128		2.93	20	
1,3-Dichloropropane	1	0.025	0.0255	102	0.0261	104	77.4 - 117		2.15	20	
1,4-Dichlorobenzene	1	0.025	0.0260	104	0.0261	104	78.8 - 115		0.38	20	
2,2-Dichloropropane	1	0.025	0.0272	109	0.0245	98.2	62.4 - 133		10.2	20	
2-Butanone (MEK)	1	0.125	0.1201	96.1	0.1126	90.1	55 - 149		6.45	20	
2-Chlorotoluene	1	0.025	0.0268	107	0.0277	111	74.7 - 122		3.17	20	
2-Hexanone	1	0.125	0.1360	109	0.1434	115	65.6 - 144		5.27	20	
4-Chlorotoluene	1	0.025	0.0268	107	0.0278	111	77.5 - 120		3.52	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1324	106	0.1377	110	70.5 - 133		3.92	20	
Acetone	1	0.125	0.1149	91.9	0.1056	84.5	35.6 - 163		8.4	23.9	
Benzene	1	0.025	0.0257	103	0.0253	101	74.8 - 121		1.57	20	
Bromobenzene	1	0.025	0.0251	101	0.0263	105	77.5 - 116		4.41	20	
Bromochloromethane	1	0.025	0.0266	107	0.0241	96.6	77.6 - 119		9.85	20	
Bromodichloromethane	1	0.025	0.0279	111	0.0274	110	75.1 - 116		1.55	20	
Bromoform	1	0.025	0.0299	120	0.0314	126	67.5 - 130		4.74	20	
Bromomethane	1	0.025	0.0297	119	0.0284	114	49.9 - 162		4.33	20	
Carbon disulfide	1	0.025	0.0260	104	0.0238	95	64.6 - 140		9.09	20	
Carbon tetrachloride	1	0.025	0.0273	109	0.0253	101	70.2 - 123		7.65	20	
Chlorobenzene	1	0.025	0.0252	101	0.0261	104	78.1 - 119		3.24	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0273	109	0.0282	113	74 - 121		3.42	20	
Chloroethane	1	0.025	0.0299	119	0.0265	106	61.7 - 135		12.1	20	
Chloroform	1	0.025	0.0260	104	0.0240	96	76 - 121		8.11	20	
Chloromethane	1	0.025	0.0244	97.6	0.0230	91.9	61.5 - 129		6.05	20	
cis-1,2-Dichloroethene	1	0.025	0.0273	109	0.0239	95.8	76 - 119		13	20	
cis-1,3-Dichloropropene	1	0.025	0.0282	113	0.0277	111	78.2 - 120		1.82	20	
Dibromomethane	1	0.025	0.0269	108	0.0260	104	79.5 - 118		3.31	20	
Dichlorodifluoromethane	1	0.025	0.0222	88.7	0.0213	85.3	54.8 - 135		3.95	20	
Ethylbenzene	1	0.025	0.0269	107	0.0273	109	78.8 - 122		1.42	20	
Hexachloro-1,3-butadiene	1	0.025	0.0283	113	0.0274	109	64.7 - 129		3.22	20	
Isopropylbenzene	1	0.025	0.0270	108	0.0275	110	78.6 - 132		1.78	20	
m&p-Xylenes	1	0.05	0.0534	107	0.0552	110	78.8 - 121		3.33	20	
Methyl tert-butyl ether	1	0.025	0.0252	101	0.0227	90.9	71.2 - 126		10.2	20	
Methylene Chloride	1	0.025	0.0237	95	0.0217	86.9	70.3 - 120		8.85	20	
Naphthalene	1	0.025	0.0259	103	0.0257	103	68.4 - 128		0.56	20	
n-Butylbenzene	1	0.025	0.0284	113	0.0280	112	76.2 - 126		1.18	20	
n-Propylbenzene	1	0.025	0.0265	106	0.0275	110	78.2 - 122		3.39	20	
o-Xylene	1	0.025	0.0259	104	0.0262	105	77.6 - 122		1.11	20	
p-Isopropyltoluene	1	0.025	0.0272	109	0.0285	114	74 - 131		4.42	20	
sec-Butylbenzene	1	0.025	0.0265	106	0.0276	110	74.4 - 127		4.17	20	
Styrene	1	0.025	0.0263	105	0.0276	110	80.4 - 126		4.78	20	
tert-Butylbenzene	1	0.025	0.0271	108	0.0280	112	75.3 - 126		3.36	20	
Tetrachloroethene	1	0.025	0.0261	104	0.0277	111	72.6 - 126		5.83	20	
Toluene	1	0.025	0.0252	101	0.0255	102	79.7 - 116		1.06	20	
trans-1,2-Dichloroethene	1	0.025	0.0254	102	0.0229	91.7	72.6 - 121		10.4	20	
trans-1,3-Dichloropropene	1	0.025	0.0275	110	0.0280	112	74.3 - 123		1.72	20	
Trichloroethene	1	0.025	0.0260	104	0.0259	104	77.7 - 118		0.14	20	
Trichlorofluoromethane	1	0.025	0.0262	105	0.0243	97.3	63.5 - 135		7.46	20	
Vinyl chloride	1	0.025	0.0222	88.7	0.0214	85.6	65.9 - 128		3.57	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0296	118	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0276	110	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0306	122	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0280	112	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0273	109	75 - 124	
1,1-Dichloroethene	1	0.025	0.0281	112	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0283	113	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0303	121	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0288	115	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0312	125	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0290	116	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0307	123	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0299	120	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0274	110	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0265	106	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0280	112	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0281	112	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0292	117	72 - 126	
1,3-Dichloropropane	1	0.025	0.0276	110	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0266	107	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0285	114	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1382	111	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0289	116	75.6 - 121	
2-Hexanone	1	0.125	0.1608	129	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0286	114	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1497	120	70.4 - 137	
Acetone	1	0.125	0.1257	101	35.1 - 175	
Benzene	1	0.025	0.0272	109	77.1 - 121	
Bromobenzene	1	0.025	0.0271	108	78.2 - 115	
Bromochloromethane	1	0.025	0.0288	115	78.4 - 119	
Bromodichloromethane	1	0.025	0.0284	114	74.9 - 115	
Bromoform	1	0.025	0.0320	128	65.9 - 132	
Bromomethane	1	0.025	0.0341	136	48.7 - 165	
Carbon disulfide	1	0.025	0.0304	121	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0293	117	70 - 124	
Chlorobenzene	1	0.025	0.0274	110	79.1 - 119	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0296	118	73.5 - 121	
Chloroethane	1	0.025	0.0323	129	66.2 - 132	
Chloroform	1	0.025	0.0273	109	76.7 - 122	
Chloromethane	1	0.025	0.0286	114	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0280	112	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0297	119	79.6 - 120	
Dibromomethane	1	0.025	0.0271	108	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0272	109	57.1 - 137	
Ethylbenzene	1	0.025	0.0287	115	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0292	117	68.2 - 123	
Isopropylbenzene	1	0.025	0.0285	114	80 - 135	
m&p-Xylenes	1	0.05	0.0581	116	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0262	105	73 - 129	
Methylene Chloride	1	0.025	0.0245	97.9	72.6 - 120	
Naphthalene	1	0.025	0.0273	109	69.8 - 128	
n-Butylbenzene	1	0.025	0.0295	118	77.5 - 126	
n-Propylbenzene	1	0.025	0.0289	116	77.9 - 123	
o-Xylene	1	0.025	0.0281	112	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0296	118	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0288	115	75.8 - 126	
Styrene	1	0.025	0.0283	113	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0288	115	76.4 - 126	
Tetrachloroethene	1	0.025	0.0297	119	73.9 - 125	
Toluene	1	0.025	0.0272	109	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0271	108	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0298	119	75.9 - 124	
Trichloroethene	1	0.025	0.0279	111	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0294	118	67.7 - 131	
Vinyl chloride	1	0.025	0.0268	107	66.7 - 130	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0283	113	72.9 - 124	
1,1,1-Trichloroethane	1	0.025	0.0255	102	73.7 - 124	
1,1,2,2-Tetrachloroethane	1	0.025	0.0282	113	69.4 - 122	
1,1,2-Trichloroethane	1	0.025	0.0267	107	79.1 - 118	
1,1-Dichloroethane	1	0.025	0.0246	98.3	75 - 124	
1,1-Dichloroethene	1	0.025	0.0265	106	70.4 - 129	
1,1-Dichloropropene	1	0.025	0.0256	102	74.9 - 124	
1,2,3-Trichlorobenzene	1	0.025	0.0284	114	69.3 - 131	
1,2,3-Trichloropropane	1	0.025	0.0266	107	71.4 - 123	
1,2,4-Trichlorobenzene	1	0.025	0.0293	117	71.9 - 137	
1,2,4-Trimethylbenzene	1	0.025	0.0278	111	75.5 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0297	119	62.8 - 133	
1,2-Dibromoethane	1	0.025	0.0278	111	78.6 - 120	
1,2-Dichlorobenzene	1	0.025	0.0269	108	78.3 - 118	
1,2-Dichloroethane	1	0.025	0.0257	103	70.1 - 124	
1,2-Dichloropropane	1	0.025	0.0274	110	77.9 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0273	109	75.9 - 124	
1,3-Dichlorobenzene	1	0.025	0.0281	112	72 - 126	
1,3-Dichloropropane	1	0.025	0.0257	103	79.1 - 117	
1,4-Dichlorobenzene	1	0.025	0.0265	106	78.3 - 117	
2,2-Dichloropropane	1	0.025	0.0252	101	61.3 - 136	
2-Butanone (MEK)	1	0.125	0.1210	96.8	53.7 - 153	
2-Chlorotoluene	1	0.025	0.0277	111	75.6 - 121	
2-Hexanone	1	0.125	0.1460	117	66.7 - 148	
4-Chlorotoluene	1	0.025	0.0275	110	77.3 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1413	113	70.4 - 137	
Acetone	1	0.125	0.1136	90.9	35.1 - 175	
Benzene	1	0.025	0.0266	106	77.1 - 121	
Bromobenzene	1	0.025	0.0262	105	78.2 - 115	
Bromochloromethane	1	0.025	0.0257	103	78.4 - 119	
Bromodichloromethane	1	0.025	0.0282	113	74.9 - 115	
Bromoform	1	0.025	0.0305	122	65.9 - 132	
Bromomethane	1	0.025	0.0321	128	48.7 - 165	
Carbon disulfide	1	0.025	0.0283	113	66.9 - 145	
Carbon tetrachloride	1	0.025	0.0266	106	70 - 124	
Chlorobenzene	1	0.025	0.0261	104	79.1 - 119	

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0271	109	73.5 - 121	
Chloroethane	1	0.025	0.0309	124	66.2 - 132	
Chloroform	1	0.025	0.0245	97.9	76.7 - 122	
Chloromethane	1	0.025	0.0277	111	63.4 - 131	
cis-1,2-Dichloroethene	1	0.025	0.0252	101	78.2 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0289	116	79.6 - 120	
Dibromomethane	1	0.025	0.0270	108	79.4 - 120	
Dichlorodifluoromethane	1	0.025	0.0266	106	57.1 - 137	
Ethylbenzene	1	0.025	0.0270	108	79.7 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0275	110	68.2 - 123	
Isopropylbenzene	1	0.025	0.0270	108	80 - 135	
m&p-Xylenes	1	0.05	0.0556	111	79 - 121	
Methyl tert-butyl ether	1	0.025	0.0239	95.5	73 - 129	
Methylene Chloride	1	0.025	0.0228	91	72.6 - 120	
Naphthalene	1	0.025	0.0259	104	69.8 - 128	
n-Butylbenzene	1	0.025	0.0289	116	77.5 - 126	
n-Propylbenzene	1	0.025	0.0274	110	77.9 - 123	
o-Xylene	1	0.025	0.0265	106	77.8 - 122	
p-Isopropyltoluene	1	0.025	0.0284	114	75.8 - 129	
sec-Butylbenzene	1	0.025	0.0273	109	75.8 - 126	
Styrene	1	0.025	0.0273	109	82.4 - 126	
tert-Butylbenzene	1	0.025	0.0277	111	76.4 - 126	
Tetrachloroethene	1	0.025	0.0272	109	73.9 - 125	
Toluene	1	0.025	0.0270	108	79.7 - 118	
trans-1,2-Dichloroethene	1	0.025	0.0245	97.9	73.8 - 122	
trans-1,3-Dichloropropene	1	0.025	0.0299	120	75.9 - 124	
Trichloroethene	1	0.025	0.0274	109	77.9 - 118	
Trichlorofluoromethane	1	0.025	0.0273	109	67.7 - 131	
Vinyl chloride	1	0.025	0.0252	101	66.7 - 130	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0296	118	0.0283	113	72.9 - 124		4.46	20	
1,1,1-Trichloroethane	1	0.025	0.0276	110	0.0255	102	73.7 - 124		7.85	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0306	122	0.0282	113	69.4 - 122		8.12	20	
1,1,2-Trichloroethane	1	0.025	0.0280	112	0.0267	107	79.1 - 118		4.55	20	
1,1-Dichloroethane	1	0.025	0.0273	109	0.0246	98.3	75 - 124		10.6	20	
1,1-Dichloroethene	1	0.025	0.0281	112	0.0265	106	70.4 - 129		5.71	20	
1,1-Dichloropropene	1	0.025	0.0283	113	0.0256	102	74.9 - 124		10.1	20	
1,2,3-Trichlorobenzene	1	0.025	0.0303	121	0.0284	114	69.3 - 131		6.31	20	
1,2,3-Trichloropropane	1	0.025	0.0288	115	0.0266	107	71.4 - 123		7.95	20	
1,2,4-Trichlorobenzene	1	0.025	0.0312	125	0.0293	117	71.9 - 137		6.02	20	
1,2,4-Trimethylbenzene	1	0.025	0.0290	116	0.0278	111	75.5 - 122		4.3	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0307	123	0.0297	119	62.8 - 133		3.47	20	
1,2-Dibromoethane	1	0.025	0.0299	120	0.0278	111	78.6 - 120		7.32	20	
1,2-Dichlorobenzene	1	0.025	0.0274	110	0.0269	108	78.3 - 118		2.06	20	
1,2-Dichloroethane	1	0.025	0.0265	106	0.0257	103	70.1 - 124		3.22	20	
1,2-Dichloropropane	1	0.025	0.0280	112	0.0274	110	77.9 - 119		1.97	20	
1,3,5-Trimethylbenzene	1	0.025	0.0281	112	0.0273	109	75.9 - 124		2.75	20	
1,3-Dichlorobenzene	1	0.025	0.0292	117	0.0281	112	72 - 126		3.93	20	
1,3-Dichloropropane	1	0.025	0.0276	110	0.0257	103	79.1 - 117		7.26	20	
1,4-Dichlorobenzene	1	0.025	0.0266	107	0.0265	106	78.3 - 117		0.42	20	
2,2-Dichloropropane	1	0.025	0.0285	114	0.0252	101	61.3 - 136		12.5	20	
2-Butanone (MEK)	1	0.125	0.1382	111	0.1210	96.8	53.7 - 153		13.3	21.2	
2-Chlorotoluene	1	0.025	0.0289	116	0.0277	111	75.6 - 121		4.39	20	
2-Hexanone	1	0.125	0.1608	129	0.1460	117	66.7 - 148		9.65	20	
4-Chlorotoluene	1	0.025	0.0286	114	0.0275	110	77.3 - 120		3.9	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1497	120	0.1413	113	70.4 - 137		5.74	20	
Acetone	1	0.125	0.1257	101	0.1136	90.9	35.1 - 175		10.1	26.1	
Benzene	1	0.025	0.0272	109	0.0266	106	77.1 - 121		2.15	20	
Bromobenzene	1	0.025	0.0271	108	0.0262	105	78.2 - 115		3.55	20	
Bromochloromethane	1	0.025	0.0288	115	0.0257	103	78.4 - 119		11.4	20	
Bromodichloromethane	1	0.025	0.0284	114	0.0282	113	74.9 - 115		0.55	20	
Bromoform	1	0.025	0.0320	128	0.0305	122	65.9 - 132		5.04	20	
Bromomethane	1	0.025	0.0341	136	0.0321	128	48.7 - 165		5.99	20	
Carbon disulfide	1	0.025	0.0304	121	0.0283	113	66.9 - 145		7.05	20	
Carbon tetrachloride	1	0.025	0.0293	117	0.0266	106	70 - 124		9.9	20	
Chlorobenzene	1	0.025	0.0274	110	0.0261	104	79.1 - 119		4.96	20	

Parameters in bold text are reported in this SDG

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(800) 767-5859
Fax (615) 758-5859
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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0296	118	0.0271	109	73.5 - 121		8.7	20	
Chloroethane	1	0.025	0.0323	129	0.0309	124	66.2 - 132		4.28	20	
Chloroform	1	0.025	0.0273	109	0.0245	97.9	76.7 - 122		10.8	20	
Chloromethane	1	0.025	0.0286	114	0.0277	111	63.4 - 131		3.07	20	
cis-1,2-Dichloroethene	1	0.025	0.0280	112	0.0252	101	78.2 - 119		10.6	20	
cis-1,3-Dichloropropene	1	0.025	0.0297	119	0.0289	116	79.6 - 120		2.65	20	
Dibromomethane	1	0.025	0.0271	108	0.0270	108	79.4 - 120		0.29	20	
Dichlorodifluoromethane	1	0.025	0.0272	109	0.0266	106	57.1 - 137		2.29	20	
Ethylbenzene	1	0.025	0.0287	115	0.0270	108	79.7 - 122		6.36	20	
Hexachloro-1,3-butadiene	1	0.025	0.0292	117	0.0275	110	68.2 - 123		5.94	20	
Isopropylbenzene	1	0.025	0.0285	114	0.0270	108	80 - 135		5.32	20	
m&p-Xylenes	1	0.05	0.0581	116	0.0556	111	79 - 121		4.33	20	
Methyl tert-butyl ether	1	0.025	0.0262	105	0.0239	95.5	73 - 129		9.23	20	
Methylene Chloride	1	0.025	0.0245	97.9	0.0228	91	72.6 - 120		7.26	20	
Naphthalene	1	0.025	0.0273	109	0.0259	104	69.8 - 128		5.19	20	
n-Butylbenzene	1	0.025	0.0295	118	0.0289	116	77.5 - 126		2.08	20	
n-Propylbenzene	1	0.025	0.0289	116	0.0274	110	77.9 - 123		5.28	20	
o-Xylene	1	0.025	0.0281	112	0.0265	106	77.8 - 122		5.83	20	
p-Isopropyltoluene	1	0.025	0.0296	118	0.0284	114	75.8 - 129		4.14	20	
sec-Butylbenzene	1	0.025	0.0288	115	0.0273	109	75.8 - 126		5.21	20	
Styrene	1	0.025	0.0283	113	0.0273	109	82.4 - 126		3.7	20	
tert-Butylbenzene	1	0.025	0.0288	115	0.0277	111	76.4 - 126		3.83	20	
Tetrachloroethene	1	0.025	0.0297	119	0.0272	109	73.9 - 125		8.85	20	
Toluene	1	0.025	0.0272	109	0.0270	108	79.7 - 118		0.55	20	
trans-1,2-Dichloroethene	1	0.025	0.0271	108	0.0245	97.9	73.8 - 122		10.2	20	
trans-1,3-Dichloropropene	1	0.025	0.0298	119	0.0299	120	75.9 - 124		0.15	20	
Trichloroethene	1	0.025	0.0279	111	0.0274	109	77.9 - 118		1.85	20	
Trichlorofluoromethane	1	0.025	0.0294	118	0.0273	109	67.7 - 131		7.59	20	
Vinyl chloride	1	0.025	0.0268	107	0.0252	101	66.7 - 130		6.09	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Matrix Spike / Matrix Spike Duplicate

L729802-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0268	107	0.0268	107	64 - 128		0.09	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0238	95.3	0.0235	93.8	58.7 - 134		1.59	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0272	109	0.0283	113	56 - 132		4.04	22.2	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0249	99.7	0.0254	102	66.3 - 125		2.04	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0239	95.6	0.0230	92.1	58.5 - 132		3.66	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0248	99.3	0.0242	96.9	51.1 - 140		2.4	20.2	
1,1-Dichloropropene	1	0.025	<0.0004	0.0241	96.5	0.0235	93.9	57.3 - 136		2.66	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0283	113	0.0276	110	59.1 - 138		2.39	23.7	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0269	108	0.0270	108	61.4 - 128		0.49	22.4	
1,2,4-Trichlorobenzene	1	0.025	<0.0002	0.0290	116	0.0288	115	63.6 - 143		0.6	21.9	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0254	102	0.0266	106	57.4 - 137		4.34	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0287	115	0.0285	114	57.3 - 136		0.48	27	
1,2-Dibromoethane	1	0.025	<0.0004	0.0266	106	0.0266	107	67.1 - 125		0.06	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0256	102	0.0259	103	68.2 - 123		1.02	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0239	95.6	0.0249	99.5	60 - 126		3.95	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0253	101	0.0261	105	64.2 - 123		3.4	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0244	97.7	0.0258	103	63.6 - 132		5.58	20.5	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0263	105	0.0276	110	63.1 - 131		4.87	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0244	97.8	0.0253	101	67.9 - 121		3.31	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0253	101	0.0255	102	68.6 - 123		0.49	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0255	102	0.0245	98.1	50.5 - 144		3.82	21.9	
2-Butanone (MEK)	1	0.125	<0.0039	0.1207	96.6	0.1156	92.5	22.4 - 138		4.3	27	
2-Chlorotoluene	1	0.025	<0.0004	0.0252	101	0.0265	106	63.6 - 128		4.78	20	
2-Hexanone	1	0.125	<0.0038	0.1413	113	0.1418	113	43.3 - 137		0.36	25.5	
4-Chlorotoluene	1	0.025	<0.0004	0.0252	101	0.0263	105	65.7 - 127		4.34	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1382	111	0.1423	114	60.8 - 140		2.91	25.1	
Acetone	1	0.125	<0.01	0.1112	83.7	0.1048	78.6	10 - 130		5.84	27.9	
Benzene	1	0.025	<0.0003	0.0236	94.4	0.0246	98.2	54.3 - 133		4	20	
Bromobenzene	1	0.025	<0.0004	0.0240	96.2	0.0248	99.3	63.9 - 124		3.17	20	
Bromochloromethane	1	0.025	<0.0005	0.0250	100	0.0243	97.3	66.5 - 122		2.66	20.8	
Bromodichloromethane	1	0.025	<0.0004	0.0260	104	0.0268	107	63.9 - 121		3.23	20	
Bromoform	1	0.025	<0.0005	0.0295	118	0.0309	124	59.5 - 134		4.51	20.5	
Bromomethane	1	0.025	<0.0009	0.0278	111	0.0274	110	41.7 - 155		1.44	21.9	
Carbon disulfide	1	0.025	0.0009	0.0243	93.8	0.0236	91	43.3 - 149		2.98	20.3	
Carbon tetrachloride	1	0.025	<0.0004	0.0253	101	0.0243	97.1	55.7 - 134		4.16	20	
Chlorobenzene	1	0.025	<0.0003	0.0233	93.2	0.0243	97.2	67 - 125		4.2	20	

Parameters in bold text are reported in this SDG

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Matrix Spike / Matrix Spike Duplicate

L729802-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0259	103	0.0269	107	64.3 - 125		3.77	20.8	
Chloroethane	1	0.025	<0.0005	0.0274	109	0.0276	110	51.5 - 136		0.84	40	
Chloroform	1	0.025	<0.0003	0.0242	97	0.0232	92.9	63 - 129		4.31	20	
Chloromethane	1	0.025	<0.0003	0.0221	88.3	0.0228	91.1	42.4 - 135		3.07	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0246	98.6	0.0238	95.4	59.2 - 129		3.28	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0266	107	0.0265	106	66.4 - 125		0.41	20	
Dibromomethane	1	0.025	<0.0003	0.0249	99.8	0.0255	102	68.2 - 124		2.35	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0216	86.2	0.0215	86.1	40.6 - 144		0.13	20.2	
Ethylbenzene	1	0.025	<0.0004	0.0246	98.5	0.0252	101	61.4 - 133		2.17	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0251	100	0.0259	104	55.1 - 136		3.17	23.6	
Isopropylbenzene	1	0.025	<0.0003	0.0250	99.8	0.0256	102	66.8 - 141		2.37	20	
m&p-Xylenes	1	0.05	<0.0007	0.0501	100	0.0520	104	61.7 - 133		3.73	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0242	96.6	0.0233	93	57.7 - 134		3.8	20	
Methylene Chloride	1	0.025	<0.001	0.0217	86.8	0.0208	83.2	58.1 - 122		4.19	20	
Naphthalene	1	0.025	<0.001	0.0260	104	0.0261	104	58 - 135		0.28	25.5	
n-Butylbenzene	1	0.025	<0.0004	0.0271	109	0.0271	108	62.7 - 140		0.29	20.3	
n-Propylbenzene	1	0.025	<0.0003	0.0250	100	0.0262	105	65.9 - 131		4.65	20	
o-Xylene	1	0.025	<0.0003	0.0239	95.6	0.0251	100	63.3 - 130		4.76	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0258	103	0.0270	108	63.2 - 139		4.63	20.4	
sec-Butylbenzene	1	0.025	<0.0004	0.0248	99.1	0.0262	105	62.2 - 136		5.47	20.3	
Styrene	1	0.025	<0.0003	0.0253	101	0.0259	103	66.8 - 133		2.34	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0247	98.8	0.0262	105	63.3 - 134		5.85	21	
Tetrachloroethene	1	0.025	<0.0004	0.0251	101	0.0259	104	53 - 139		3.18	20	
Toluene	1	0.025	<0.0008	0.0236	94.5	0.0247	98.6	61.4 - 130		4.29	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0236	94.6	0.0218	87.2	56.5 - 129		8.15	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0267	107	0.0277	111	64.1 - 128		3.63	20	
Trichloroethene	1	0.025	0.0057	0.0291	93.8	0.0296	95.7	44.1 - 149		1.69	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0241	96.3	0.0234	93.5	49.6 - 145		2.96	21.2	
Vinyl chloride	1	0.025	<0.0003	0.0211	84.3	0.0212	85	47.8 - 137		0.85	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729802-03

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.0358	<0.0003	0.0371	104	0.0395	111	64 - 128		6.51	20	
1,1,1-Trichloroethane	1	0.0358	<0.0003	0.0350	97.7	0.0353	98.6	58.7 - 134		0.9	20	
1,1,2,2-Tetrachloroethane	1	0.0358	<0.0004	0.0380	106	0.0423	118	56 - 132		10.7	22.2	
1,1,2-Trichloroethane	1	0.0358	<0.0003	0.0345	96.5	0.0385	108	66.3 - 125		11	20	
1,1-Dichloroethane	1	0.0358	<0.0002	0.0333	93	0.0341	95.4	58.5 - 132		2.48	20	
1,1-Dichloroethene	1	0.0358	<0.0003	0.0338	94.4	0.0354	99.1	51.1 - 140		4.81	20.2	
1,1-Dichloropropene	1	0.0358	<0.0003	0.0339	94.7	0.0346	96.6	57.3 - 136		1.98	20	
1,2,3-Trichlorobenzene	1	0.0358	<0.0003	0.0368	103	0.0393	110	59.1 - 138		6.48	23.7	
1,2,3-Trichloropropane	1	0.0358	<0.0007	0.0366	102	0.0410	115	61.4 - 128		11.2	22.4	
1,2,4-Trichlorobenzene	1	0.0358	<0.0004	0.0391	109	0.0404	113	63.6 - 143		3.35	21.9	
1,2,4-Trimethylbenzene	1	0.0358	<0.0002	0.0355	99.3	0.0378	106	57.4 - 137		6.33	20	
1,2-Dibromo-3-Chloropropane	1	0.0358	<0.0011	0.0381	106	0.0416	116	57.3 - 136		8.94	27	
1,2-Dibromoethane	1	0.0358	<0.0003	0.0370	103	0.0411	115	67.1 - 125		10.6	20	
1,2-Dichlorobenzene	1	0.0358	<0.0003	0.0343	95.8	0.0379	106	68.2 - 123		10.2	20	
1,2-Dichloroethane	1	0.0358	<0.0003	0.0347	97.1	0.0369	103	60 - 126		6.17	20	
1,2-Dichloropropane	1	0.0358	<0.0004	0.0362	101	0.0390	109	64.2 - 123		7.24	20	
1,3,5-Trimethylbenzene	1	0.0358	<0.0003	0.0348	97.2	0.0369	103	63.6 - 132		5.93	20.5	
1,3-Dichlorobenzene	1	0.0358	<0.0002	0.0362	101	0.0393	110	63.1 - 131		8.26	20	
1,3-Dichloropropane	1	0.0358	<0.0002	0.0343	95.9	0.0374	104	67.9 - 121		8.57	20	
1,4-Dichlorobenzene	1	0.0358	<0.0002	0.0338	94.6	0.0368	103	68.6 - 123		8.41	20	
2,2-Dichloropropane	1	0.0358	<0.0003	0.0357	99.8	0.0359	100	50.5 - 144		0.49	21.9	
2-Butanone (MEK)	1	0.179	<0.0047	0.1756	98.2	0.1895	106	22.4 - 138		7.65	27	
2-Chlorotoluene	1	0.0358	<0.0003	0.0358	100	0.0371	104	63.6 - 128		3.44	20	
2-Hexanone	1	0.179	<0.0038	0.1921	107	0.2175	122	43.3 - 137		12.4	25.5	
4-Chlorotoluene	1	0.0358	<0.0002	0.0356	99.4	0.0377	105	65.7 - 127		5.81	20	
4-Methyl-2-pentanone (MIBK)	1	0.179	<0.0019	0.1912	107	0.2216	124	60.8 - 140		14.7	25.1	
Acetone	1	0.179	<0.01	0.1548	83	0.1729	93.1	10 - 130		11.1	27.9	
Benzene	1	0.0358	<0.0003	0.0338	94.5	0.0361	101	54.3 - 133		6.59	20	
Bromobenzene	1	0.0358	<0.0003	0.0345	96.4	0.0361	101	63.9 - 124		4.68	20	
Bromochloromethane	1	0.0358	<0.0004	0.0360	101	0.0365	102	66.5 - 122		1.58	20	
Bromodichloromethane	1	0.0358	<0.0003	0.0376	105	0.0398	111	63.9 - 121		5.86	20	
Bromoform	1	0.0358	<0.0004	0.0415	116	0.0456	128	59.5 - 134		9.43	20.8	
Bromomethane	1	0.0358	<0.0013	0.0399	111	0.0407	114	41.7 - 155		2.21	20.5	
Carbon disulfide	1	0.0358	<0.0003	0.0307	85.8	0.0319	89.3	43.3 - 149		4.03	21	
Carbon tetrachloride	1	0.0358	<0.0003	0.0356	99.6	0.0365	102	55.7 - 134		2.51	20.3	
Chlorobenzene	1	0.0358	<0.0002	0.0335	93.5	0.0359	100	67 - 125		6.93	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729802-03

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.0358	<0.0004	0.0376	105	0.0404	113	64.3 - 125		7.12	20	
Chloroethane	1	0.0358	<0.0009	0.0371	104	0.0396	111	51.5 - 136		6.52	20.8	
Chloroform	1	0.0358	<0.0002	0.0345	96.4	0.0347	97	63 - 129		0.63	20	
Chloromethane	1	0.0358	<0.0004	0.0309	86.3	0.0326	91.1	42.4 - 135		5.41	20	
cis-1,2-Dichloroethene	1	0.0358	<0.0002	0.0344	96.2	0.0341	95.4	59.2 - 129		0.88	20	
cis-1,3-Dichloropropene	1	0.0358	<0.0003	0.0386	108	0.0413	116	66.4 - 125		6.94	20	
Dibromomethane	1	0.0358	<0.0004	0.0370	103	0.0404	113	68.2 - 124		8.85	20	
Dichlorodifluoromethane	1	0.0358	<0.0007	0.0292	81.7	0.0311	86.8	40.6 - 144		6.07	20.2	
Ethylbenzene	1	0.0358	<0.0003	0.0350	97.9	0.0371	104	61.4 - 133		5.88	20	
Hexachloro-1,3-butadiene	1	0.0358	<0.0003	0.0339	94.9	0.0345	96.6	55.1 - 136		1.73	23.6	
Isopropylbenzene	1	0.0358	<0.0002	0.0350	97.8	0.0370	103	66.8 - 141		5.48	20	
m&p-Xylenes	1	0.0715	<0.0007	0.0706	98.6	0.0753	105	61.7 - 133		6.57	20	
Methyl tert-butyl ether	1	0.0358	<0.0002	0.0332	92.8	0.0355	99.2	57.7 - 134		6.62	20	
Methylene Chloride	1	0.0358	<0.001	0.0297	83.2	0.0311	86.9	58.1 - 122		4.44	20	
Naphthalene	1	0.0358	<0.001	0.0329	92.1	0.0355	99.1	58 - 135		7.35	25.5	
n-Butylbenzene	1	0.0358	<0.0003	0.0363	101	0.0384	107	62.7 - 140		5.65	20	
n-Propylbenzene	1	0.0358	<0.0002	0.0348	97.4	0.0370	103	10 - 176		5.92	26.6	
o-Xylene	1	0.0358	<0.0003	0.0341	95.5	0.0366	102	63.3 - 130		7.08	20	
p-Isopropyltoluene	1	0.0358	<0.0002	0.0360	101	0.0382	107	63.2 - 139		5.74	20.4	
sec-Butylbenzene	1	0.0358	<0.0002	0.0344	96.3	0.0366	102	62.2 - 136		6.23	20.3	
Styrene	1	0.0358	<0.0002	0.0355	99.2	0.0377	105	66.8 - 133		5.98	20	
tert-Butylbenzene	1	0.0358	<0.0002	0.0349	97.7	0.0376	105	63.3 - 134		7.47	20.3	
Tetrachloroethene	1	0.0358	<0.0003	0.0339	94.8	0.0369	103	53 - 139		8.33	20	
Toluene	1	0.0358	<0.0004	0.0344	96.2	0.0376	105	61.4 - 130		8.77	20	
trans-1,2-Dichloroethene	1	0.0358	<0.0003	0.0316	88.4	0.0325	90.9	56.5 - 129		2.76	20	
trans-1,3-Dichloropropene	1	0.0358	<0.0003	0.0386	108	0.0426	119	64.1 - 128		9.77	20	
Trichloroethene	1	0.0358	<0.0003	0.0342	95.6	0.0367	102	44.1 - 149		6.92	20	
Trichlorofluoromethane	1	0.0358	<0.0004	0.0334	93.4	0.0355	99.3	49.6 - 145		6.11	21.2	
Vinyl chloride	1	0.0358	<0.0003	0.0297	83.1	0.0308	86.2	47.8 - 137		3.76	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Internal Standard Response and Retention Time Summary

File ID: 1030_02
Analyzed: 10/30/14 115500

	IS4		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	260415	7.68	606584	4.21	108945	5.33	334878	3.90
Upper Limit	521000	8.18	1210000	4.71	218000	5.83	670000	4.40
Lower Limit	130000	7.18	303000	3.71	54500	4.83	167000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729802-02	169914	7.68	463774	4.21	75318	5.33	259260	3.90
L729802-09	182571	7.68	478109	4.21	80883	5.33	259235	3.90
L729802-06	198139	7.68	548352	4.21	94211	5.33	297523	3.90
L729802-07	185996	7.68	499727	4.21	82225	5.33	269619	3.90
L729802-08	178769	7.68	488032	4.21	78791	5.33	261840	3.90
MSD WG750823	258771	7.68	604726	4.21	105298	5.33	331450	3.90
MS WG750823	262044	7.68	632063	4.21	110285	5.33	353463	3.90
LCSD WG750823	252087	7.68	603393	4.21	102441	5.33	334006	3.90
LCS WG750823	252932	7.68	619876	4.21	106885	5.33	341488	3.90
BLANK WG750823	176032	7.68	466732	4.21	76311	5.33	257774	3.90

Legend:
IS4 -- 1,4-DICHLOROBENZENE-D4
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS1 -- PENTAFLUOROBENZENE

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1101_02
Analyzed: 11/01/14 093100

	IS4		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	257116	7.68	606491	4.21	104528	5.33	338122	3.90
Upper Limit	514000	8.18	1210000	4.71	209000	5.83	676000	4.40
Lower Limit	129000	7.18	303000	3.71	52300	4.83	169000	3.40
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729802-03	187259	7.68	505167	4.21	85775	5.33	277301	3.90
L729802-01	184623	7.68	497462	4.21	81587	5.33	272954	3.90
L729802-04	189863	7.68	511226	4.21	84612	5.33	282011	3.90
L729802-05	180555	7.68	490181	4.21	82576	5.33	273716	3.90
MSD WG752032	262973	7.68	603618	4.21	109273	5.33	332457	3.90
MS WG752032	267261	7.68	617981	4.21	109365	5.33	345261	3.90
LCSD WG752032	247930	7.68	579771	4.21	102968	5.33	320840	3.90
LCS WG752032	245922	7.68	584335	4.21	98956	5.33	322792	3.89
BLANK WG752032	134833	7.68	379340	4.21	63752	5.33	203772	3.90

Legend:
IS4 -- 1,4-DICHLOROBENZENE-D4
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS1 -- PENTAFLUOROBENZENE

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG750823**
Analysis Date:	10/30/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-02, -06, -07, -08, -09		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729802-02	VOCMS21	1030_09	0.0386	96.6	0.0393	98.1	0.0399	99.8		
L729802-06	VOCMS21	1030_23	0.0367	91.7	0.0411	103	0.0403	101		
L729802-07	VOCMS21	1030_24	0.0377	94.3	0.0396	99.0	0.0393	98.2		
L729802-08	VOCMS21	1030_25	0.0391	97.8	0.0409	102	0.0396	98.9		
L729802-09	VOCMS21	1030_10	0.0379	94.8	0.0409	102	0.0398	99.5		
LCS WG750823	VOCMS21	1030_03	0.0396	99.1	0.0401	100	0.0400	100	0.0413	103
LCSD WG750823	VOCMS21	1030_04	0.0394	98.5	0.0362	90.6	0.0397	99.4	0.0415	104
MS WG750823	VOCMS21	1030_05	0.0391	97.7	0.0388	97.1	0.0399	99.6	0.0414	104
MSD WG750823	VOCMS21	1030_06	0.0394	98.4	0.0375	93.8	0.0392	98.1	0.0422	105
BLANK WG750823	VOCMS21	1030_08	0.0393	98.2	0.0390	97.6	0.0398	99.4	0.0420	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 71 - 126
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 78.3 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 88.50 - 111
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 85 - 114

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG752032**
Analysis Date:	11/1/2014	Analyst:	644
Instrument ID:	VOCMS21		
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729802-01	VOCMS21	1101_22	0.0374	93.4	0.0406	101	0.0385	96.2		
L729802-03	VOCMS21	1101_10	0.0371	92.8	0.0401	100	0.0393	98.3		
L729802-04	VOCMS21	1101_23	0.0377	94.2	0.0397	99.2	0.0383	95.8		
L729802-05	VOCMS21	1101_24	0.0374	93.6	0.0397	99.3	0.0388	97.1		
LCS WG752032	VOCMS21	1101_03	0.0397	99.3	0.0405	101	0.0401	100	0.0425	106
LCSD WG752032	VOCMS21	1101_04	0.0385	96.3	0.0369	92.2	0.0404	101	0.0421	105
MS WG752032	VOCMS21	1101_05	0.0391	97.7	0.0406	101	0.0407	102	0.0421	105
MSD WG752032	VOCMS21	1101_06	0.0385	96.2	0.0372	92.9	0.0407	102	0.0417	104
BLANK WG752032	VOCMS21	1101_09	0.0373	93.2	0.0405	101	0.0394	98.4	0.0404	101

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 71 - 126
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 78.3 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 88.50 - 111
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 85 - 114

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1030_02.D Date: 10/30/2014 Time: 11:55 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	16.9
75	30 - 60% of mass 95	48.3
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	1.4
174	50 - 150% of mass 95	71.3
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	96.7
177	5 - 9% of mass 176	5.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG750823	LCS WG750823	1030_03.D	10/30/2014	1:05 PM
LCSD WG750823	LCSD WG750823	1030_04.D	10/30/2014	1:27 PM
MS WG750823	MS WG750823	1030_05.D	10/30/2014	2:06 PM
MSD WG750823	MSD WG750823	1030_06.D	10/30/2014	2:28 PM
Blank WG750823	Blank WG750823	1030_08.D	10/30/2014	3:12 PM
TU515-TRIPBLANK01-NT01	L729802-02	1030_09.D	10/30/2014	3:41 PM
H-TU904-GW03-NT01	L729802-09	1030_10.D	10/30/2014	4:04 PM
H-TU904-GW01-DT01	L729802-06	1030_23.D	10/30/2014	11:00 PM
H-TU904-GW01-NT01	L729802-07	1030_24.D	10/30/2014	11:22 PM
H-TU904-GW07-NT01	L729802-08	1030_25.D	10/30/2014	11:44 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Instrument Performance Summary

FileID: 1101_01.D Date: 11/1/2014 Time: 9:09 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	17.5
75	30 - 60% of mass 95	47.2
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.5
174	50 - 150% of mass 95	68.3
175	5 - 9% of mass 174	7.7
176	95 - 101% of mass 174	95.7
177	5 - 9% of mass 176	6.1

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG752032	LCS WG752032	1101_03.D	11/1/2014	10:05 AM
LCSD WG752032	LCSD WG752032	1101_04.D	11/1/2014	10:27 AM
MS WG752032	MS WG752032	1101_05.D	11/1/2014	10:58 AM
MSD WG752032	MSD WG752032	1101_06.D	11/1/2014	11:20 AM
Blank WG752032	Blank WG752032	1101_09.D	11/1/2014	12:26 PM
TU515-SB08-NS01	L729802-03	1101_10.D	11/1/2014	12:58 PM
TU515-SB02-NS01	L729802-01	1101_22.D	11/1/2014	5:23 PM
TU515-SB10-NS01	L729802-04	1101_23.D	11/1/2014	5:45 PM
TU515-SB10-NS02	L729802-05	1101_24.D	11/1/2014	6:07 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 100	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE		0.427	0.347	0.295	0.230	0.201	0.178	0.183	0.182	0.247156	36.39
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.611766	12.43
CHLOROMETHANE	1.030	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.960	1.070272	16.41
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.045378	11.70
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.760	0.651	0.660	0.716	0.741	0.765608	12.28
BROMOMETHANE					0.696	0.491	0.440	0.457	0.458	0.501045	19.30
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.168324	13.65
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.780	0.849	0.900	0.888319	13.81
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.337705	13.11
ETHYL ETHER	0.469	0.730	0.660	0.680	0.642	0.533	0.538	0.571	0.604	0.600904	13.06
ACROLEIN		0.124	0.115	0.106	0.110	0.095	0.089	0.097	0.104	0.104633	10.14
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.055948	10.71
1,1,2-TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.730	0.733	0.680	0.586	0.624	0.680	0.716	0.687081	10.69
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.192852	15.00
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.869779	15.36
CARBON DISULFIDE	2.229	2.840	2.575	2.593	2.298	2.050	2.162	2.453	2.554	2.433482	9.96
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.805789	14.03
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.238862	12.08
n-Hexane	0.669	1.021	1.020	0.964	0.891	0.793	0.812	0.937	0.923	0.894767	12.23
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.738605	9.66
METHYL TERT-BUTYL ETHER	1.634	2.260	2.317	2.248	2.136	1.868	1.910	2.136	2.186	2.089490	10.34
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.464298	8.29
VINYL ACETATE	0.893	1.120	1.318	1.409	1.231	1.073	1.192	1.264	1.188	1.168171	13.13
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.400	2.557	2.899	2.925	2.733644	10.89
2,2-Dichloropropane	0.900	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.061469	9.63
CIS-1,2-DICHLOROETHENE	0.540	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.769104	14.08
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.085347	11.49

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 100	Average RRF	%RSD
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.376727	11.00
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.233927	11.02
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.200	1.288	1.279	1.230830	7.37
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.520	0.501988	3.20
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.080	1.086	1.006217	12.01
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	0.890101	14.72
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.158918	10.51
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	3.915122	8.92
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.740	1.730	1.572889	13.85
BENZENE	2.730	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.326471	8.90
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.876153	7.51
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.388255	8.84
1,2-DICHLOROPROPANE	0.221	0.357	0.360	0.350	0.304	0.291	0.321	0.352	0.344	0.324422	13.30
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.200	0.172	0.190	0.205	0.203	0.196627	12.57
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.473839	13.60
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.498061	2.46
2-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.111060	13.49
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.610	0.597	0.553	0.650	0.720	0.724	0.624370	13.86
4-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.150	0.156	0.162	0.150385	12.18
TOLUENE-D8	1.309	1.305	1.309	1.240	1.280	1.277	1.298	1.297	1.264	1.281335	2.16
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.906215	10.61
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.122453	13.88
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.720	1.928	1.930	1.882867	8.46
TETRACHLOROETHENE	1.288	1.791	1.870	1.700	1.523	1.365	1.502	1.714	1.752	1.629039	12.10
1,3-Dichloropropane	3.530	4.382	4.086	4.000	3.617	3.267	3.459	3.753	3.803	3.766505	8.67
2-HEXANONE			0.761	0.650	0.839	0.757	0.798	0.845	0.938	0.812815	11.41
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.880	1.658134	9.97
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.490	1.587	1.750	1.795	1.642784	6.63
CHLOROBENZENE	5.709	7.380	7.304	6.709	5.781	5.297	5.945	6.620	6.779	6.451333	11.16

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 100	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.280	1.670	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.697925	12.47
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	3.553273	12.40
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	4.371278	13.09
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.155571	11.27
STYRENE		6.639	6.050	6.309	5.759	5.666	6.596	7.162	7.677	6.628967	11.79
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.070	0.887959	15.43
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	11.10407	12.91
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.593080	2.58
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.400	4.866	5.377	5.538	5.182816	10.58
1,1,2,2-TETRACHLOROETHANE	1.895	2.910	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.443572	11.38
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.660605	6.09
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.680	0.733	0.611329	14.66
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	13.78357	11.27
4-ETHYLTOLUENE	8.29	11.56	11.16	10.80	9.95	9.57	10.75	11.88	12.22	10.86318	11.94
2-Chlorotoluene	1.860	2.682	2.497	2.616	2.282	2.108	2.394	2.620	2.700	2.456866	12.13
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	7.800333	12.98
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.20	10.20	10.52	9.40328	11.62
tert-Butylbenzene	5.257	7.920	8.030	8.095	6.835	6.706	7.639	8.439	8.565	7.629434	14.16
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.20	8.94187	14.18
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.20	12.69765	12.18
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.770	4.267890	12.67
p-Isopropyltoluene	6.54	9.49	10.33	9.94	9.01	8.62	9.83	10.86	11.29	9.76767	15.33
DICYCLOPENTADIENE	9.34	13.30	12.82	13.41	12.02	11.35	12.85	14.37	14.66	12.84556	12.59
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.990	1.790	1.640	1.822	1.935	1.982	1.924168	9.86
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.400	4.361	3.904	3.469	3.928	4.178	4.208	3.994494	11.54
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.677066	10.46
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	3.930775	13.86
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.130	0.135	0.146	0.135128	7.31
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	0.908050	13.68

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 100	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.630	0.544	0.456	0.528	0.564	0.533	0.546882	15.31
Naphthalene		0.692	1.056	1.509	1.906	1.640	1.989	2.236	2.433	1.784534	35.25
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.780	0.847	0.935	0.803333	12.87
1-Methylnaphthalene										0.000000	0.00
2-Methylnaphthalene										0.000000	0.00
ETHANOL										0.006884	10.35
Bromoethane										0.455995	9.14
2-PROPANOL										0.040100	6.72
Methyl Acetate										0.437487	4.62
ACETONITRILE										0.085743	4.93
ALLYL CHLORIDE										0.346224	5.37
tert-BUTYL ALCOHOL										0.089563	7.19
chloroprene										0.708232	4.00
ETHYL TERT-BUTYL ETHER										2.177364	3.76
PROPIONITRILE										0.094343	3.75
Ethyl Acetate										0.612038	4.53
METHACRYLONITRILE										0.292252	3.94
Cyclohexane										1.266836	4.57
tert-butyl formate										0.286589	6.81
ISOBUTANOL										0.000000	0.00
t-Amyl Alcohol										0.054948	9.86
TERT-AMYL METHYL ETHER										2.016199	6.62
N-BUTANOL										0.011102	19.45
Methyl Cyclohexane										0.825828	15.16
2-nitropropane										0.073628	12.70
METHYL METHACRYLATE										0.348250	8.82
1,4-DIOXANE										0.004168	6.80
n-octane										0.394143	7.92
3,3-DIMETHYL-1-BUTANOL										0.023167	20.81

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Quality Control Summary
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Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS21
Method Name : V821I16N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 100	Average RRF	%RSD
ETHYL METHACRYLATE										2.979101	9.90
CIS-1,4-DICHLORO-2-BUTENE										0.610665	8.35
Cyclohexanone										0.508509	5.32
PENTACHLOROETHANE										0.000000	0.00
Hexachloroethane										1.249422	5.74

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/30/2014
FileName : 1030_02.D Time : 11:55 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.5223	14.6		
Chloromethane	1.0703	0.9255	5.03	>0.1	**
Vinyl chloride	1.0454	0.9154	12.4		
Bromomethane	0.5010	0.5825	22		**
Chloroethane	0.1683	0.1860	10.5		
Trichlorofluoromethane	0.8883	0.8517	4.12		
1,1-Dichloroethene	1.0559	1.0322	2.25		
Acetone	0.1929	0.1666	13.6		
Carbon Disulfide	2.4335	2.4021	1.29		
Methylene Chloride	0.8058	0.7243	10.1		
trans-1,2-Dichloroethene	0.7386	0.6689	9.44		
Methyl tert-butyl ether	2.0895	1.8649	10.8		
1,1-Dichloroethane	1.4643	1.3461	8.07	>0.1	
2,2-Dichloropropane	1.0615	1.0051	5.31		
cis-1,2-Dichloroethene	0.7691	0.7178	6.67		
2-Butanone (MEK)	0.0853	0.0815	4.53		
Bromochloromethane	0.3767	0.3625	3.76		
Chloroform	1.2308	1.1423	7.2		
1,1,1-Trichloroethane	1.0062	0.9487	5.71		
Carbon tetrachloride	0.8901	0.8779	1.37		
1,1-Dichloropropene	1.1589	1.0992	5.15		
Benzene	3.3265	3.2874	1.18		
1,2-Dichloroethane	0.8762	0.8496	3.03		
Trichloroethene	0.3883	0.3928	1.17		
1,2-Dichloropropane	0.3244	0.3388	4.43		
Dibromomethane	0.1966	0.1992	1.29		
Bromodichloromethane	0.4738	0.5014	5.81		
cis-1,3-Dichloropropene	0.6244	0.6812	9.1		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1606	6.82		
Toluene	1.9062	1.9056	0.03		
trans-1,3-Dichloropropene	0.1225	0.1385	13.1		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/30/2014
FileName : 1030_02.D Time : 11:55 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	1.8571	1.37	
Tetrachloroethene	1.6290	1.6385	0.58	
1,3-Dichloropropane	3.7665	3.6773	2.37	
2-Hexanone	0.8128	0.8666	6.62	
Chlorodibromomethane	1.6581	1.7420	5.06	
1,2-Dibromoethane	1.6428	1.6803	2.28	
Chlorobenzene	6.4513	6.2265	3.49	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.8550	9.25	
Ethylbenzene	3.5533	3.6449	2.58	
m&p-Xylene	4.3713	4.5610	4.34	
o-Xylene	4.1556	4.2143	1.41	
Styrene	6.6290	6.7240	1.43	
Bromoform	0.8880	1.0130	14.1	>0.1
Isopropylbenzene	11.1041	11.3037	1.8	
Bromobenzene	5.1828	5.1347	0.93	
1,1,2,2-Tetrachloroethane	2.4436	2.5841	5.75	>0.3
1,2,3-Trichloropropane	0.6606	0.6861	3.86	
n-Propylbenzene	13.7836	14.0419	1.87	
2-Chlorotoluene	2.4569	2.5522	3.88	
4-Chlorotoluene	7.8003	7.9874	2.4	
1,3,5-Trimethylbenzene	9.4033	9.5772	1.85	
tert-Butylbenzene	7.6294	7.8474	2.86	
1,2,4-Trimethylbenzene	8.9419	9.2806	3.79	
sec-Butylbenzene	12.6977	12.8758	1.4	
1,3-Dichlorobenzene	4.2679	4.4546	4.38	
p-Isopropyltoluene	9.7677	10.1836	4.26	
1,4-Dichlorobenzene	1.9242	1.9306	0.34	
1,2-Dichlorobenzene	1.6771	1.6944	1.03	
n-Butylbenzene	3.9308	4.1666	6	
1,2-Dibromo-3-Chloropropane	0.1351	0.1354	0.23	
1,2,4-Trichlorobenzene	0.9081	0.9699	6.81	

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 10/30/2014
FileName : 1030_02.D Time : 11:55 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.5577	1.99	
Naphthalene	1.7845	2.1077	7.95	**
1,2,3-Trichlorobenzene	0.8033	0.8195	2.01	

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 11/1/2014
FileName : 1101_02.D Time : 9:31 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.6118	0.6328	3.43		
Chloromethane	1.0703	1.0363	6.41	>0.1	**
Vinyl chloride	1.0454	1.0226	2.18		
Bromomethane	0.5010	0.6329	33.1		**
Chloroethane	0.1683	0.1986	18		
Trichlorofluoromethane	0.8883	0.9493	6.86		
1,1-Dichloroethene	1.0559	1.0967	3.86		
Acetone	0.1929	0.1878	2.63		
Carbon Disulfide	2.4335	2.7116	11.4		
Methylene Chloride	0.8058	0.7313	9.25		
trans-1,2-Dichloroethene	0.7386	0.7085	4.07		
Methyl tert-butyl ether	2.0895	2.0077	3.92		
1,1-Dichloroethane	1.4643	1.4474	1.15	>0.1	
2,2-Dichloropropane	1.0615	1.0969	3.34		
cis-1,2-Dichloroethene	0.7691	0.8026	4.35		
2-Butanone (MEK)	0.0853	0.0941	10.2		
Bromochloromethane	0.3767	0.3956	5		
Chloroform	1.2308	1.2454	1.18		
1,1,1-Trichloroethane	1.0062	1.0389	3.25		
Carbon tetrachloride	0.8901	0.9736	9.38		
1,1-Dichloropropene	1.1589	1.2592	8.65		
Benzene	3.3265	3.5797	7.61		
1,2-Dichloroethane	0.8762	0.9145	4.38		
Trichloroethene	0.3883	0.4214	8.54		
1,2-Dichloropropane	0.3244	0.3648	12.4		
Dibromomethane	0.1966	0.2140	8.81		
Bromodichloromethane	0.4738	0.5355	13		
cis-1,3-Dichloropropene	0.6244	0.7367	18		
4-Methyl-2-pentanone (MIBK)	0.1504	0.1753	16.6		
Toluene	1.9062	2.0187	5.9		
trans-1,3-Dichloropropene	0.1225	0.1407	14.9		

*** - calibrated by linear regression*

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 11/1/2014
FileName : 1101_02.D Time : 9:31 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.8829	2.0212	7.35	
Tetrachloroethene	1.6290	1.8611	14.2	
1,3-Dichloropropane	3.7665	4.0204	6.74	
2-Hexanone	0.8128	0.9957	22.5	
Chlorodibromomethane	1.6581	1.8954	14.3	
1,2-Dibromoethane	1.6428	1.8742	14.1	
Chlorobenzene	6.4513	6.7889	5.23	>0.3
1,1,1,2-Tetrachloroethane	1.6979	1.9435	14.5	
Ethylbenzene	3.5533	3.9646	11.6	
m&p-Xylene	4.3713	4.9251	12.7	
o-Xylene	4.1556	4.4803	7.82	
Styrene	6.6290	7.3115	10.3	
Bromoform	0.8880	1.1030	24.2	>0.1
Isopropylbenzene	11.1041	12.2882	10.7	
Bromobenzene	5.1828	5.5508	7.1	
1,1,2,2-Tetrachloroethane	2.4436	2.8252	15.6	>0.3
1,2,3-Trichloropropane	0.6606	0.7387	11.8	
n-Propylbenzene	13.7836	15.2723	10.8	
2-Chlorotoluene	2.4569	2.7567	12.2	
4-Chlorotoluene	7.8003	8.6977	11.5	
1,3,5-Trimethylbenzene	9.4033	10.2983	9.52	
tert-Butylbenzene	7.6294	8.4683	11	
1,2,4-Trimethylbenzene	8.9419	10.0052	11.9	
sec-Butylbenzene	12.6977	14.0304	10.5	
1,3-Dichlorobenzene	4.2679	4.8592	13.9	
p-Isopropyltoluene	9.7677	11.1093	13.7	
1,4-Dichlorobenzene	1.9242	2.0314	5.57	
1,2-Dichlorobenzene	1.6771	1.8313	9.2	
n-Butylbenzene	3.9308	4.4482	13.2	
1,2-Dibromo-3-Chloropropane	0.1351	0.1574	16.5	
1,2,4-Trichlorobenzene	0.9081	1.0682	17.6	

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: VOCMS21

Method Name : V821I16N.M Date : 11/1/2014
FileName : 1101_02.D Time : 9:31 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Hexachloro-1,3-butadiene	0.5469	0.6001	9.74	
Naphthalene	1.7845	2.2814	1.27	**
1,2,3-Trichlorobenzene	0.8033	0.8925	11.1	

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : STACEYE7

Released By : Stacey Eakes
Date Released : 12/5/2014 8:44:29 AM

Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_01	INSTBLK	V821I16N						1	1	10/30/14 1132	"water SSURR14I25028"
2	1030_02	ICV VMS 25 PPB 14J30895	V821I16N						1	1	10/30/14 1155	"water SSURR14I25028"
3	1030_02T	ICV VMS 25 ppb	V821I16N							1	10/30/14 1155	
4	1030_03	LCS	V821I16N	WG750823	V8260	GW			1	1	10/30/14 1305	"water SSURR14I25028/SPK14J30896"
5	1030_04	LCSD	V821I16N	WG750823	V8260	GW			1	1	10/30/14 1327	"water SSURR14I25028/SPK14J30896"
6	1030_05	MS	V821I16N	WG750823	V8260	GW			1	1	10/30/14 1406	"water SSURR14I25028/SPK14J30896"
7	1030_06	MSD	V821I16N	WG750823	V8260	GW			1	1	10/30/14 1428	"water SSURR14I25028/SPK14J30896"
8	1030_07	INSTBLK	V821I16N						1	1	10/30/14 1450	"water SSURR14I25028"
9	1030_08	BLANK	V821I16N	WG750823	V8260	GW			1	1	10/30/14 1512	"water SSURR14I25028"
10	1030_09	L729802-02	V821I16N	WG750823	V8260	GW	URSTAZ	AZ	1	1	10/30/14 1541	"water SSURR14I25028"
11	1030_10	L729802-09	V821I16N	WG750823	V8260	GW	URSTAZ	AZ	1	1	10/30/14 1604	"water SSURR14I25028"
12	1030_11	L729733-03	V821I16N	WG750823	V8260	GW	HALLKY	KY	10	10	10/30/14 1626	"water SSURR14I25028"
13	1030_12	L729733-04	V821I16N	WG750823	V8260	GW	HALLKY	KY	50	50	10/30/14 1648	"water SSURR14I25028"
14	1030_13	L729733-05	V821I16N	WG750823	V8260	GW	HALLKY	KY	1	1	10/30/14 1710	"water SSURR14I25028"
15	1030_14	L729733-06	V821I16N	WG750823	V8260	GW	HALLKY	KY	200	200	10/30/14 1733	"water SSURR14I25028"
16	1030_15	L729733-07	V821I16N	WG750823					10	10	10/30/14 1755	"water SSURR14I25028"
17	1030_16	L729733-08	V821I16N	WG750823					100	100	10/30/14 1817	"water SSURR14I25028"
18	1030_17	L729733-09	V821I16N	WG750823	V8260	GW	HALLKY	KY	50	50	10/30/14 1839	"water SSURR14I25028"
19	1030_18	L729733-10	V821I16N	WG750823	V8260	GW	HALLKY	KY	10	10	10/30/14 1901	"water SSURR14I25028"
20	1030_19	DNRL729733 -11	V821I16N	WG750823					1	1	10/30/14 1923	"water SSURR14I25028"
21	1030_20	L729759-04	V821I16N	WG750823	V8260	GW	PPM	AL	1	1	10/30/14 1945	"water SSURR14I25028"
22	1030_21	L729759-05	V821I16N	WG750823					1	1	10/30/14 2007	"water SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

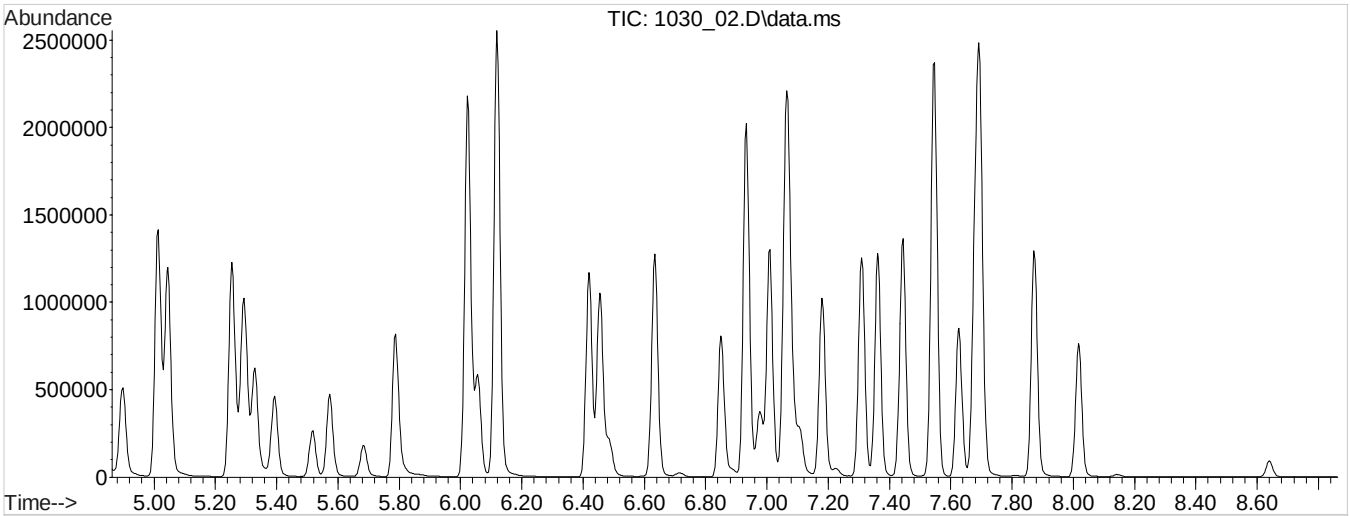
Instrument ID : VOCMS21
Computer Name : STACEYE7
Released By : Stacey Eakes
Date Released : 12/5/2014 8:44:29 AM
Run ID : 103014
Signature : _____

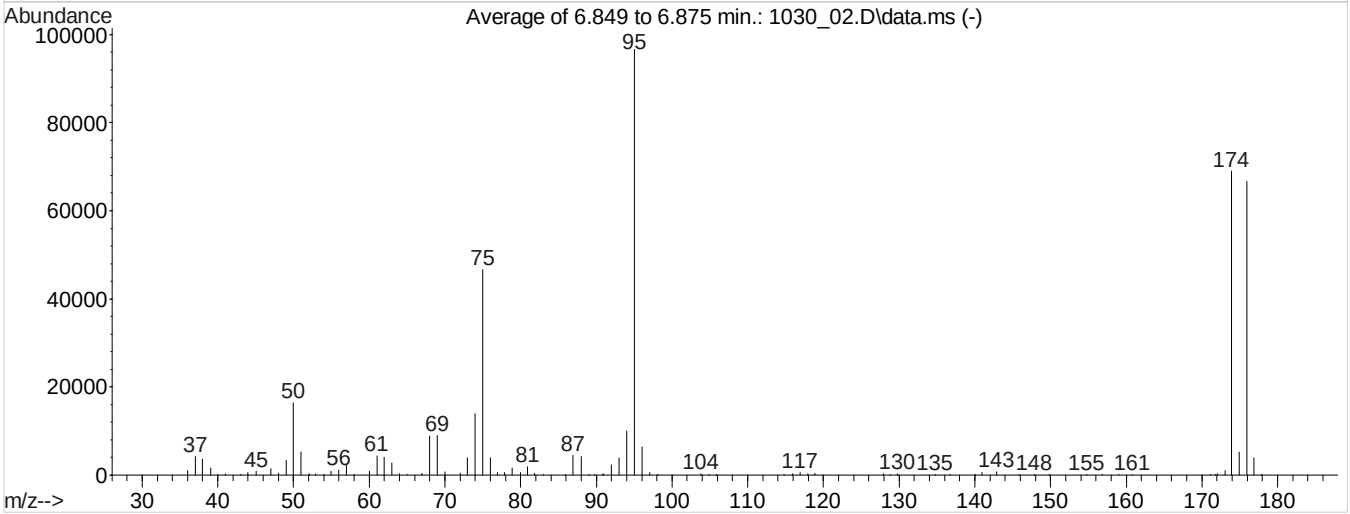
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1030_22	L729759-06	V821I16N	WG750823	V8260	GW	PPM	AL	10	10	10/30/14 2043	"water SSURR14I25028"
24	1030_23	L729802-06	V821I16N	WG750823	V8260	GW	URSTAZ	AZ	1	1	10/30/14 2300	"water SSURR14I25028"
25	1030_24	L729802-07	V821I16N	WG750823	V8260	GW	URSTAZ	AZ	1	1	10/30/14 2322	"water SSURR14I25028"
26	1030_25	L729802-08	V821I16N	WG750823	V8260	GW	URSTAZ	AZ	1	1	10/30/14 2344	"water SSURR14I25028"
27	1030_26	DNR L729813-01	V821I16N	WG750823					1	1	10/31/14 0006	"water SSURR14I25028"
28	1030_27	DNR L729813-02	V821I16N	WG750823					1	1	10/31/14 0028	"water SSURR14I25028"
29	1030_28	DNR L729813-03	V821I16N	WG750823					1	1	10/31/14 0050	"water SSURR14I25028"

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 02.D
Acq On : 30 Oct 2014 11:55 am
Operator : 644
Sample : ICV VMS 25 ppb
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





Spectrum Information: Average of 6.849 to 6.875 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	16332	PASS
75	95	30	60	48.3	46676	PASS
95	95	100	100	100.0	96689	PASS
96	95	5	9	6.6	6401	PASS
173	174	0.00	2	1.4	959	PASS
174	95	50	150	71.3	68975	PASS
175	174	5	9	7.5	5142	PASS
176	174	95	101	96.7	66733	PASS
177	176	5	9	5.8	3843	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 02.D
Acq On : 30 Oct 2014 11:55 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:53 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	334878	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	606584	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	108945	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	260415	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	334878	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	606584	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	108909	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	260415	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	154417	36.7430520 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 91.86%		
46) a,a,a-Trifluorotoluene	4.566	146	321399	42.5530438 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.38%		
50) TOLUENE-D8	5.013	98	780672	40.1767763 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.44%		
68) 4-BROMOFLUOROBENZENE	6.849	95	271516	38.4443179 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.11%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7721237	No Calib	
3) PROPENE	1.448	41	30018	19.0608867 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	109308	21.3422264 ppb	99
5) CHLOROMETHANE	1.631	50	193701	23.7434582 ppb	98
6) VINYL CHLORIDE	1.689	62	191598	21.8922746 ppb	99
7) 1,3-BUTADIENE	1.702	39	130127	20.3017978 ppb	95
8) BROMOMETHANE	1.911	94	121917	30.4995204 ppb	100
9) CHLOROETHANE	1.991	66	38922	27.6199639 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	178267	23.9703941 ppb	98
11) DICHLOROFLUOROMETHANE	2.110	67	268555	23.9798319 ppb	99
12) ETHYL ETHER	2.261	59	121899	24.2308218 ppb	98
13) ACROLEIN	2.576	56	113380	129.4314807 ppb	100
14) 1,1-DICHLOROETHENE	2.386	61	216038	24.4377265 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	138837	24.1363032 ppb	97
16) ACETONE	2.737	43	174362	107.9942150 ppb	100
17) IODOMETHANE	2.476	142	963023	132.2516516 ppb	99
18) CARBON DISULFIDE	2.419	76	502761	24.6778186 ppb	99
19) METHYLENE CHLORIDE	2.711	84	151604	22.4730724 ppb	99
20) ACRYLONITRILE	3.158	53	255195	127.6142904 ppb	99
21) n-Hexane	2.840	56	166458	22.2212308 ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.804	96	140002	22.6409796 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	390311	22.3122762 ppb	99
24) 1,1-DICHLOROETHANE	3.136	63	281741	22.9823188 ppb	100
25) VINYL ACETATE	3.251	43	1167884	119.4171147 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	534874	23.3713046 ppb	99
27) 2,2-Dichloropropane	3.486	77	210370	23.6728169 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	150229	23.3314655 ppb	100
29) 2-BUTANONE (MEK)	3.721	72	85272	119.3420535 ppb	97
30) BROMOCHLOROMETHANE	3.534	130	75881	24.0590921 ppb	97
31) TETRAHYDROFURAN	3.666	42	42619	21.7618986 ppb	97
32) CHLOROFORM	3.563	83	239074	23.2010547 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	198571	23.5720694 ppb	99
35) CARBON TETRACHLORIDE	3.656	117	183749	24.6580642 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 02.D
Acq On : 30 Oct 2014 11:55 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:53 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	230059	23.7115552 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	790196	24.1080957 ppb		97
38) HEPTANE	3.843	43	335999	25.5160432 ppb		100
39) BENZENE	3.888	78	688045	24.7062270 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	177815	24.2416209 ppb		99
42) TRICHLOROETHENE	4.209	130	148922	25.2936297 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	128444	26.1079361 ppb		100
44) DIBROMOMETHANE	4.451	93	75508	25.3232760 ppb		96
45) BROMODICHLOROMETHANE	4.528	83	190073	26.4520026 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	68751	40.8215077 ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.898	75	258252	27.2753678 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	304513	133.5270973 ppb		100
51) TOLUENE	5.045	91	722429	24.9915028 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	52501	28.2728056 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.393	97	126450	24.6576599 ppb		100
55) TETRACHLOROETHENE	5.296	164	111569	25.1457561 ppb		98
56) 1,3-Dichloropropane	5.573	76	250391	24.4080385 ppb		99
57) 2-HEXANONE	5.788	58	295034	133.2701751 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	118617	26.2651545 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	114411	25.5705417 ppb		97
60) CHLOROBENZENE	6.023	112	423966	24.1287173 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	126307	27.3125038 ppb		98
62) ETHYLBENZENE	6.023	106	248185	25.6448163 ppb		95
63) M&P-XYLENE	6.119	106	621125	52.1702886 ppb		98
64) O-XYLENE	6.418	106	286954	25.3532873 ppb		94
65) STYRENE	6.457	104	457844	25.3585475 ppb		100
66) Bromoform	6.486	173	68977	28.5209486 ppb		99
67) Isopropylbenzene	6.634	105	769677	25.4494927 ppb		100
69) Bromobenzene	6.933	77	349622	24.7676966 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	175951	26.4374344 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	46719	25.9659521 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	45158	27.1214088 ppb	#	93
73) n-Propylbenzene	6.933	91	956120	25.4684978 ppb		98
74) 4-ETHYLTOLUENE	7.010	105	761156	25.7258411 ppb		100
75) 2-Chlorotoluene	7.061	126	173781	25.9700921 ppb		95
76) 4-Chlorotoluene	7.180	91	543868	25.5995909 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	652116	25.4623417 ppb		99
78) tert-Butylbenzene	7.309	119	534333	25.7141606 ppb		99
79) 1,2,4-Trimethylbenzene	7.360	105	631920	25.9469663 ppb		99
80) sec-Butylbenzene	7.444	105	876719	25.3506980 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	303319	26.0939066 ppb		100
82) p-Isopropyltoluene	7.547	119	693411	26.0646937 ppb		99
83) DICYCLOPENTADIENE	7.547	66	907151	25.9286019 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	314231	25.0841815 ppb		94
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	647213	24.8873970 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	275780	25.2584386 ppb		98
88) n-Butylbenzene	7.872	91	678156	26.4999756 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	22044	25.0575016 ppb		91
90) 1,2,4-Trichlorobenzene	9.193	180	157863	26.7032678 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	90778	25.4965322 ppb		98
92) Naphthalene	9.454	128	343053	23.0115305 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	133382	25.5032520 ppb		100
94) 1-Methylnaphthalene	10.325	142	88375	No Calib		
95) 2-Methylnaphthalene	10.454	142	81277	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 02.D
Acq On : 30 Oct 2014 11:55 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:53 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

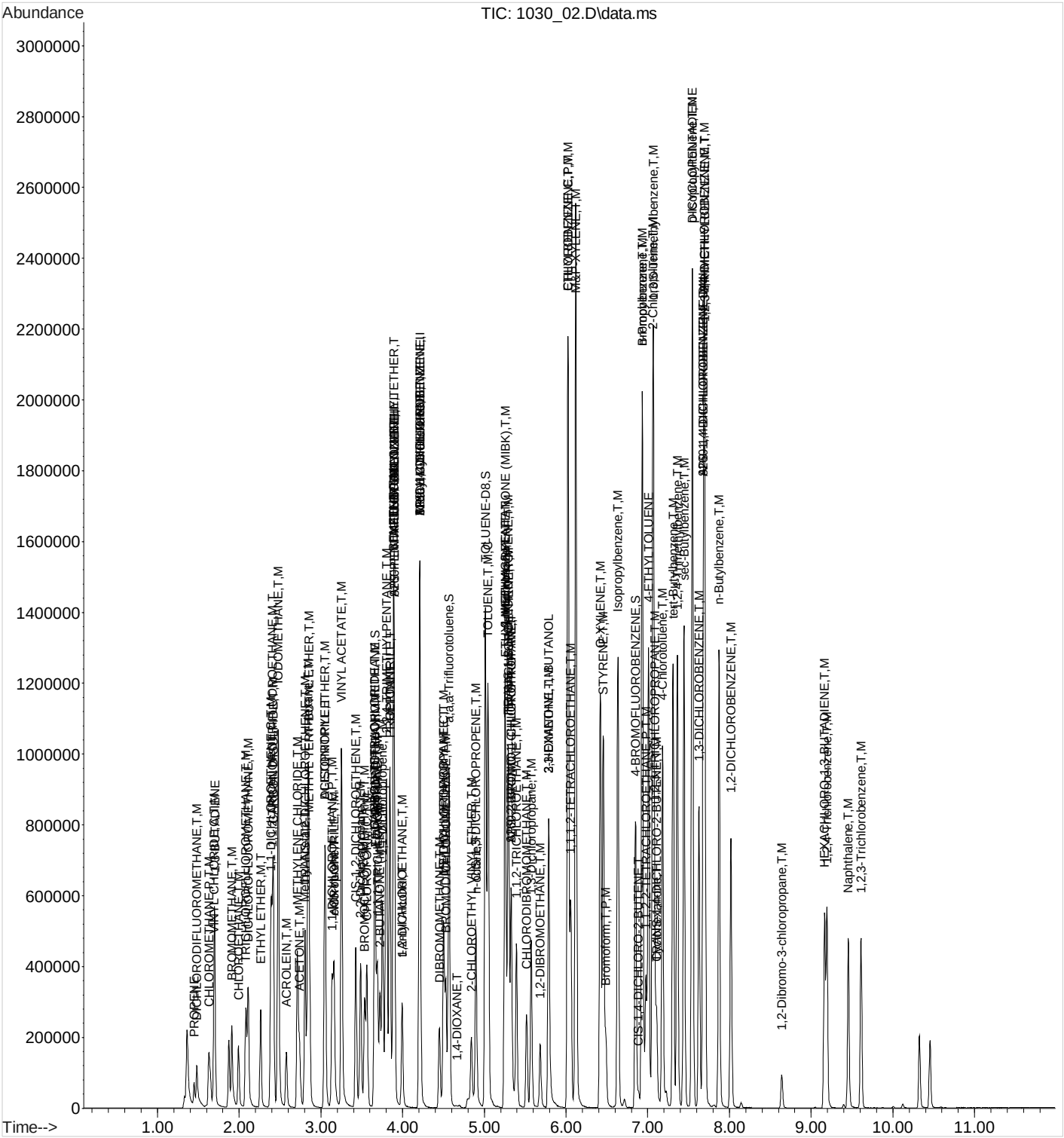
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.801	43	20931	5.7147659 ppb	#	100
101)	ACETONITRILE	3.049	41	76987	107.2483517 ppb	#	41
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	3.158	53	255195	43.0397690 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	3.846	54	2380	3.0132721 ppb	#	1
107)	Ethyl Acetate	3.666	43	8999	1.7562609 ppb	#	77
108)	METHACRYLONITRILE	3.894	67	1153	0.4712439 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.808	59	585	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.994	59	909	1.9759881 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.891	73	11778	0.6977689 ppb	#	58
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.209	83	10128	0.8087296 ppb	#	51
117)	2-nitropropane	5.254	43	760096	680.7643911 ppb	#	40
118)	METHYL METHACRYLATE	4.502	41	83607	15.8314558 ppb	#	16
119)	1,4-DIOXANE	4.663	88	1046	16.5491526 ppb	#	1
120)	n-octane	4.901	85	3576	0.5982907 ppb	#	37
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	98484	251.6420997 ppb	#	52
123)	ETHYL METHACRYLATE	5.258	69	5598	0.6901507 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	1853	1.1144702 ppb	#	25
125)	Cyclohexanone	7.106	55	1023	0.7388787 ppb	#	23
126)	PENTACHLOROETHANE	7.364	117	20852	No Calib	#	
127)	Hexachloroethane	8.000	117	806	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 02.D
Acq On : 30 Oct 2014 11:55 am
Operator : 644
Sample : ICV VMS 25 ppb 14J30895
Misc : water SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:53 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 1:05 pm
Operator : 644
Sample : LCS 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	341488	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	619876	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	106885	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	252932	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	341488	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	619876	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	106885	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	252932	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	171809	40.0901052 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.23%		
46) a,a,a-Trifluorotoluene	4.566	146	318905	41.3174554 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.29%		
50) TOLUENE-D8	5.013	98	794754	40.0244465 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.06%		
68) 4-BROMOFLUOROBENZENE	6.849	95	274572	39.6262998 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.07%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8164895	No Calib	
3) PROPENE	1.448	41	36262	22.7398961 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	115880	22.1874520 ppb	98
5) CHLOROMETHANE	1.628	50	202980	24.4029144 ppb	98
6) VINYL CHLORIDE	1.689	62	197979	22.1835074 ppb	100
7) 1,3-BUTADIENE	1.698	39	139324	21.3159251 ppb	96
8) BROMOMETHANE	1.907	94	121228	29.6976269 ppb	96
9) CHLOROETHANE	1.991	66	42913	29.8626267 ppb	94
10) TRICHLOROFLUOROMETHANE	2.081	101	198836	26.2186548 ppb	98
11) DICHLOROFLUOROMETHANE	2.107	67	300805	26.3395962 ppb	99
12) ETHYL ETHER	2.261	59	138082	26.9163545 ppb	100
13) ACROLEIN	2.576	56	126407	141.5095537 ppb	99
14) 1,1-DICHLOROETHENE	2.387	61	240250	26.6504912 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	163367	27.8510156 ppb	99
16) ACETONE	2.734	43	189145	114.8827137 ppb	100
17) IODOMETHANE	2.477	142	1129172	152.0672582 ppb	99
18) CARBON DISULFIDE	2.419	76	540560	26.0195788 ppb	100
19) METHYLENE CHLORIDE	2.711	84	163322	23.7414724 ppb	98
20) ACRYLONITRILE	3.158	53	282283	138.4277129 ppb	98
21) n-Hexane	2.840	56	184270	24.1228848 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.805	96	160392	25.4363532 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	448859	25.1625235 ppb	98
24) 1,1-DICHLOROETHANE	3.136	63	328918	26.3113180 ppb	98
25) VINYL ACETATE	3.251	43	1348415	135.2077577 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	608342	26.0669632 ppb	100
27) 2,2-Dichloropropane	3.486	77	246185	27.1668253 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	179112	27.2787268 ppb	96
29) 2-BUTANONE (MEK)	3.721	72	87533	120.1351350 ppb	98
30) BROMOCHLOROMETHANE	3.534	130	85684	26.6414030 ppb	96
31) TETRAHYDROFURAN	3.663	42	48221	24.1457617 ppb	94
32) CHLOROFORM	3.563	83	273583	26.0360836 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	226946	26.4189523 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	207710	27.3339610 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 1:05 pm
Operator : 644
Sample : LCS 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	255698	25.8439750 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	869850	26.0245733 ppb		96
38) HEPTANE	3.843	43	342486	25.5052354 ppb		99
39) BENZENE	3.888	78	728985	25.6696145 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	189486	25.3327046 ppb		99
42) TRICHLOROETHENE	4.210	130	156293	25.9763395 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	135259	26.9036385 ppb		99
44) DIBROMOMETHANE	4.451	93	81977	26.9032700 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	204676	27.8734789 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	72653	42.2133387 ppb		96
48) CIS-1,3-DICHLOROPROPENE	4.898	75	272801	28.1941502 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.255	58	308637	132.4334485 ppb		97
51) TOLUENE	5.046	91	744132	25.1902983 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	52140	27.4763150 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.393	97	130201	25.8784276 ppb		96
55) TETRACHLOROETHENE	5.296	164	113558	26.0873182 ppb		97
56) 1,3-Dichloropropane	5.573	76	256913	25.5264715 ppb		99
57) 2-HEXANONE	5.788	58	295430	136.0210231 ppb		98
58) CHLORODIBROMOMETHANE	5.518	129	120759	27.2548047 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	123684	28.1757971 ppb		96
60) CHLOROBENZENE	6.023	112	435138	25.2418254 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	129260	28.4897598 ppb		99
62) ETHYLBENZENE	6.023	106	255138	26.8713664 ppb		96
63) M&P-XYLENE	6.119	106	624128	53.4328621 ppb		99
64) O-XYLENE	6.418	106	288017	25.9376520 ppb		98
65) STYRENE	6.454	104	465678	26.2895474 ppb		100
66) Bromoform	6.486	173	71048	29.9434655 ppb		100
67) Isopropylbenzene	6.634	105	801739	27.0205492 ppb		99
69) Bromobenzene	6.933	77	348143	25.1382520 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	175519	26.8808034 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	44699	25.3220617 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	45506	27.8571543 ppb	#	92
73) n-Propylbenzene	6.933	91	977455	26.5386142 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	780461	26.8867095 ppb		99
75) 2-Chlorotoluene	7.062	126	176165	26.8337499 ppb		95
76) 4-Chlorotoluene	7.181	91	558654	26.8023561 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	662172	26.3532900 ppb		98
78) tert-Butylbenzene	7.309	119	551695	27.0613803 ppb		98
79) 1,2,4-Trimethylbenzene	7.364	105	650720	27.2338589 ppb		99
80) sec-Butylbenzene	7.444	105	898067	26.4684667 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	313528	27.4920017 ppb		99
82) p-Isopropyltoluene	7.547	119	710586	27.2250751 ppb		99
83) DICYCLOPENTADIENE	7.547	66	903081	26.3097525 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	315900	25.9634710 ppb		95
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	662846	26.2426145 ppb		100
87) 1,2-DICHLOROBENZENE	8.017	146	285570	26.9288950 ppb		99
88) n-Butylbenzene	7.872	91	704884	28.3593149 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.640	157	24318	28.4601665 ppb		96
90) 1,2,4-Trichlorobenzene	9.193	180	173725	30.2557971 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	97692	28.2502129 ppb		100
92) Naphthalene	9.457	128	379913	25.8546235 ppb		98
93) 1,2,3-Trichlorobenzene	9.611	180	146199	28.7809389 ppb		98
94) 1-Methylnaphthalene	10.325	142	126108	No Calib		
95) 2-Methylnaphthalene	10.454	142	121074	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 1:05 pm
Operator : 644
Sample : LCS 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

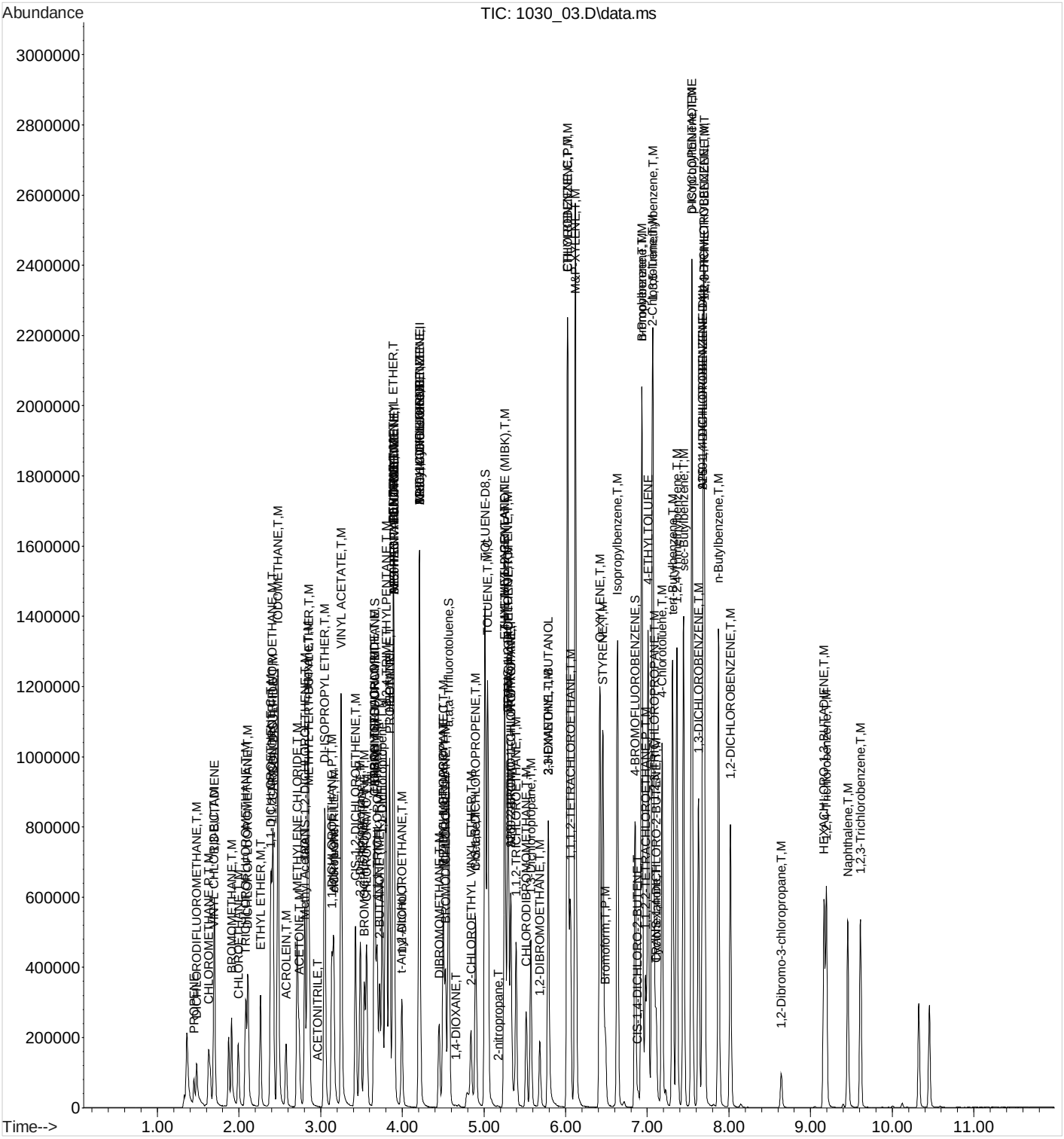
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	2.798	43	7960	2.1312417 ppb	#	95
101)	ACETONITRILE	2.959	41	1180	1.6120051 ppb	#	35
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	3.158	53	282283	46.6867524 ppb	#	24
105)	ETHYL TERT-BUTYL ETHER	3.203	59	547	N.D.		
106)	PROPIONITRILE	3.846	54	2523	3.1324909 ppb	#	1
107)	Ethyl Acetate	3.621	43	919	N.D.		
108)	METHACRYLONITRILE	3.898	67	1072	0.4296575 ppb	#	1
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	3.798	59	590	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	3.988	59	956	2.0379311 ppb	#	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11215	0.6515541 ppb	#	50
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.210	83	10100	0.7892001 ppb	#	49
117)	2-nitropropane	5.174	43	940	0.8238390 ppb	#	75
118)	METHYL METHACRYLATE	4.499	41	91351	16.9269085 ppb	#	16
119)	1,4-DIOXANE	4.653	88	1457	22.5574372 ppb	#	39
120)	n-octane	4.898	85	3361	0.5502618 ppb	#	26
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	99083	247.8102452 ppb	#	52
123)	ETHYL METHACRYLATE	5.251	69	5041	0.6332494 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.882	53	2117	1.2973612 ppb	#	24
125)	Cyclohexanone	7.107	55	785	0.5777157 ppb	#	23
126)	PENTACHLOROETHANE	7.364	117	21982	No Calib	#	
127)	Hexachloroethane	8.000	117	843	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 03.D
Acq On : 30 Oct 2014 1:05 pm
Operator : 644
Sample : LCS 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:55:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 04.D
Acq On : 30 Oct 2014 1:27 pm
Operator : 644
Sample : LCSD 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:06 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	334006	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	603393	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	102441	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	252087	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	334006	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	603393	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	102441	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	252087	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	151841	36.2244266 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 90.56%		
46) a,a,a-Trifluorotoluene	4.569	146	311735	41.4918079 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.73%		
50) TOLUENE-D8	5.013	98	768299	39.7491123 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.37%		
68) 4-BROMOFLUOROBENZENE	6.849	95	261728	39.4112685 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.53%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7269611	No Calib	
3) PROPENE	1.447	41	33079	21.1501989 ppb	98
4) DICHLORODIFLUOROMETHANE	1.479	85	108952	21.3282553 ppb	99
5) CHLOROMETHANE	1.631	50	186945	22.9708581 ppb	99
6) VINYL CHLORIDE	1.688	62	186857	21.4063014 ppb	100
7) 1,3-BUTADIENE	1.701	39	128995	20.1777300 ppb	94
8) BROMOMETHANE	1.907	94	113820	28.4390518 ppb	99
9) CHLOROETHANE	1.991	66	37178	26.4512580 ppb	99
10) TRICHLOROFLUOROMETHANE	2.081	101	180486	24.3321277 ppb	99
11) DICHLOROFLUOROMETHANE	2.110	67	272483	24.3940918 ppb	100
12) ETHYL ETHER	2.261	59	125007	24.9134965 ppb	99
13) ACROLEIN	2.576	56	115306	131.9738001 ppb	99
14) 1,1-DICHLOROETHENE	2.389	61	217764	24.6972778 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	145577	25.3740999 ppb	98
16) ACETONE	2.737	43	170095	105.6264166 ppb	99
17) IODOMETHANE	2.476	142	1013729	139.5785442 ppb	100
18) CARBON DISULFIDE	2.418	76	482752	23.7575481 ppb	100
19) METHYLENE CHLORIDE	2.711	84	146202	21.7288856 ppb	99
20) ACRYLONITRILE	3.158	53	266369	133.5497804 ppb	98
21) n-Hexane	2.840	56	164970	22.0800860 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.804	96	141333	22.9158990 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	396382	22.7184846 ppb	98
24) 1,1-DICHLOROETHANE	3.135	63	292177	23.8958326 ppb	99
25) VINYL ACETATE	3.251	43	1245616	127.6977932 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	537969	23.5679098 ppb	99
27) 2,2-Dichloropropane	3.486	77	217518	24.5410807 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	153740	23.9390806 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	80266	112.6292072 ppb	94
30) BROMOCHLOROMETHANE	3.534	130	75941	24.1409774 ppb	98
31) TETRAHYDROFURAN	3.666	42	45414	23.2496078 ppb	91
32) CHLOROFORM	3.563	83	246731	24.0066438 ppb	97
34) 1,1,1-TRICHLOROETHANE	3.688	97	203872	24.2645265 ppb	99
35) CARBON TETRACHLORIDE	3.659	117	188190	25.3199525 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 04.D
Acq On : 30 Oct 2014 1:27 pm
Operator : 644
Sample : LCSD 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:06 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	237044	24.4952642 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	814617	24.9180411 ppb		97
38) HEPTANE	3.843	43	333740	25.4106605 ppb		99
39) BENZENE	3.888	78	701879	25.2687746 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	179571	24.5449307 ppb		98
42) TRICHLOROETHENE	4.209	130	151923	25.9397931 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	129625	26.4873293 ppb		99
44) DIBROMOMETHANE	4.450	93	77202	26.0283210 ppb		97
45) BROMODICHLOROMETHANE	4.528	83	196172	27.4451640 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	64178	38.3077711 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.897	75	260761	27.6860019 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	312450	137.7319773 ppb		97
51) TOLUENE	5.045	91	732044	25.4580462 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	51633	27.9524174 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.392	97	128782	26.7067895 ppb		99
55) TETRACHLOROETHENE	5.296	164	115377	27.6550147 ppb		96
56) 1,3-Dichloropropane	5.573	76	251592	26.0822159 ppb		99
57) 2-HEXANONE	5.788	58	298474	143.3840690 ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	119768	28.2037798 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	117893	28.0216472 ppb		98
60) CHLOROBENZENE	6.023	112	430768	26.0723473 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	127446	29.3085139 ppb		99
62) ETHYLBENZENE	6.026	106	248019	27.2547692 ppb		98
63) M&P-XYLENE	6.119	106	618440	55.2427506 ppb		98
64) O-XYLENE	6.418	106	279125	26.2273387 ppb		99
65) STYRENE	6.454	104	468173	27.5769801 ppb		98
66) Bromoform	6.486	173	71401	31.3976723 ppb		99
67) Isopropylbenzene	6.634	105	782223	27.5064597 ppb		100
69) Bromobenzene	6.933	77	348706	26.2711921 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	177238	28.3216076 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	46272	27.3503242 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.109	53	46558	29.7375617 ppb	#	95
73) n-Propylbenzene	6.933	91	969100	27.4532025 ppb		98
74) 4-ETHYLTOLUENE	7.010	105	778697	27.9896780 ppb		100
75) 2-Chlorotoluene	7.061	126	174282	27.6985623 ppb		96
76) 4-Chlorotoluene	7.180	91	554628	27.7635377 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	654810	27.1908187 ppb		98
78) tert-Butylbenzene	7.309	119	546829	27.9862937 ppb		98
79) 1,2,4-Trimethylbenzene	7.363	105	635550	27.7528574 ppb		99
80) sec-Butylbenzene	7.444	105	897373	27.5953557 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	309415	28.3083363 ppb		100
82) p-Isopropyltoluene	7.547	119	711791	28.4542986 ppb		99
83) DICYCLOPENTADIENE	7.547	66	894461	27.1890741 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	316049	26.0627882 ppb		92
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	656479	26.0776605 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	279671	26.4610281 ppb		99
88) n-Butylbenzene	7.871	91	694255	28.0253101 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	24438	28.6964762 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	161345	28.1938976 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	94282	27.3555115 ppb		97
92) Naphthalene	9.453	128	376289	25.7108383 ppb		100
93) 1,2,3-Trichlorobenzene	9.611	180	139804	27.6142645 ppb		99
94) 1-Methylnaphthalene	10.322	142	128873	No Calib		
95) 2-Methylnaphthalene	10.453	142	130145	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 04.D
Acq On : 30 Oct 2014 1:27 pm
Operator : 644
Sample : LCSD 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:06 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

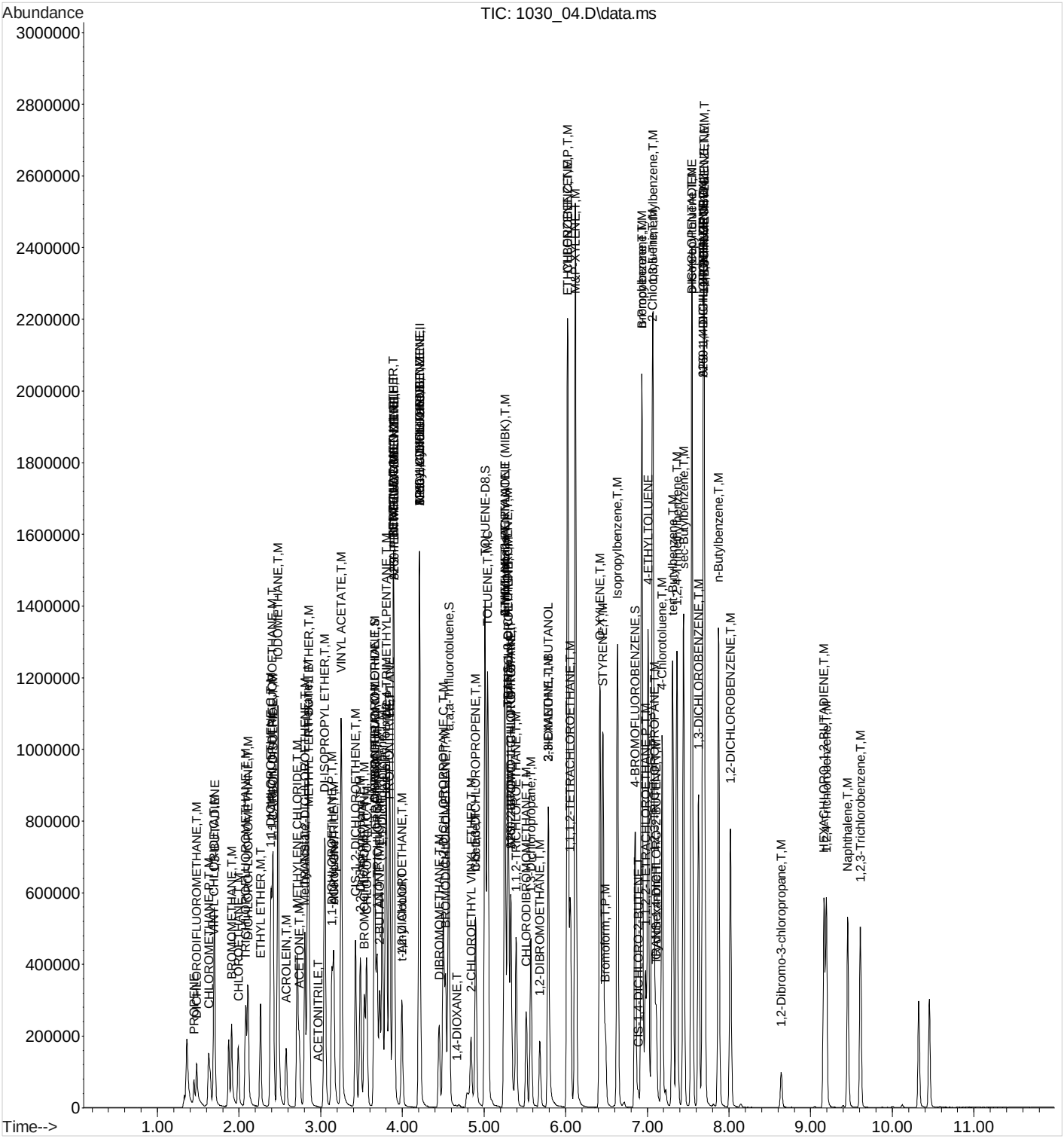
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5891	1.6126118 ppb #	98
101)	ACETONITRILE	2.965	41	792	1.1061926 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.158	53	266369	45.0415990 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.190	59	781	N.D.	
106)	PROPIONITRILE	3.836	54	2736	3.4730404 ppb #	1
107)	Ethyl Acetate	3.618	43	575	N.D.	
108)	METHACRYLONITRILE	3.894	67	1000	0.4097781 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.791	59	775	0.3238526 ppb #	1
111)	ISOBUTANOL	3.904	41	1255	No Calib #	
112)	t-Amyl Alcohol	3.991	59	975	2.1249925 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11656	0.6923440 ppb #	53
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	9935	0.7975138 ppb #	48
117)	2-nitropropane	5.254	43	765212	688.9708363 ppb #	40
118)	METHYL METHACRYLATE	4.656	41	671	N.D.	
119)	1,4-DIOXANE	4.663	88	916	14.5690164 ppb #	10
120)	n-octane	4.897	85	3550	0.5970817 ppb #	24
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	101678	261.0148401 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	4642	0.6084238 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.891	53	2255	1.4418815 ppb #	27
125)	Cyclohexanone	7.106	55	567	0.4353821 ppb #	1
126)	PENTACHLOROETHANE	7.363	117	20929	No Calib #	
127)	Hexachloroethane	8.003	117	928	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 04.D
Acq On : 30 Oct 2014 1:27 pm
Operator : 644
Sample : LCSD 1x WG750823
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:06 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 05.D
Acq On : 30 Oct 2014 2:06 pm
Operator : 644
Sample : MS 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:11 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	353463	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	632063	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	110285	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	262044	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	353463	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	632063	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	110284	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	262044	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	172319	38.8468617 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.12%		
46) a,a,a-Trifluorotoluene	4.566	146	325990	41.4210372 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.55%		
50) TOLUENE-D8	5.013	98	806892	39.8522160 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.63%		
68) 4-BROMOFLUOROBENZENE	6.849	95	279440	39.0855440 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.71%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7196725	No Calib	
3) PROPENE	1.447	41	35950	21.7439266 ppb	97
4) DICHLORODIFLUOROMETHANE	1.480	85	116500	21.5504507 ppb	99
5) CHLOROMETHANE	1.627	50	190200	22.0792117 ppb	99
6) VINYL CHLORIDE	1.689	62	194584	21.0644295 ppb	100
7) 1,3-BUTADIENE	1.698	39	137990	20.3965800 ppb	99
8) BROMOMETHANE	1.907	94	117855	27.7894786 ppb	98
9) CHLOROETHANE	1.988	66	40699	27.3624106 ppb	93
10) TRICHLOROFLUOROMETHANE	2.081	101	188974	24.0740374 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	280956	23.7680669 ppb	99
12) ETHYL ETHER	2.261	59	132275	24.9108433 ppb	97
13) ACROLEIN	2.576	56	134936	145.9398706 ppb	98
14) 1,1-DICHLOROETHENE	2.386	61	231610	24.8216482 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	154247	25.4053344 ppb	99
16) ACETONE	2.733	43	189429	111.1572451 ppb	100
17) IODOMETHANE	2.476	142	1083482	140.9706829 ppb	99
18) CARBON DISULFIDE	2.418	76	523202	24.3308477 ppb	99
19) METHYLENE CHLORIDE	2.711	84	154452	21.6914201 ppb	99
20) ACRYLONITRILE	3.158	53	307368	145.6224918 ppb	97
21) n-Hexane	2.840	56	175407	22.1846722 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	154354	23.6494758 ppb	95
23) METHYL TERT-BUTYL ETHER	2.856	73	445991	24.1547106 ppb	94
24) 1,1-DICHLOROETHANE	3.135	63	309145	23.8917894 ppb	99
25) VINYL ACETATE	3.251	43	1516551	146.9151365 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	594758	24.6214949 ppb	99
27) 2,2-Dichloropropane	3.486	77	239097	25.4907678 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	167473	24.6419856 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	91037	120.7112239 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	83193	24.9905395 ppb	93
31) TETRAHYDROFURAN	3.663	42	51980	25.1462055 ppb	93
32) CHLOROFORM	3.560	83	263698	24.2451499 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.688	97	211926	23.8346505 ppb	97
35) CARBON TETRACHLORIDE	3.656	117	199123	25.3161745 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 05.D
Acq On : 30 Oct 2014 2:06 pm
Operator : 644
Sample : MS 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:11 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	246975	24.1166213 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	831184	24.0252498 ppb		95
38) HEPTANE	3.843	43	331971	23.8846097 ppb		99
39) BENZENE	3.888	78	693707	23.5997998 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	185060	23.9027835 ppb		100
42) TRICHLOROETHENE	4.206	130	178609	29.1129502 ppb		98
43) 1,2-DICHLOROPROPANE	4.499	62	129502	25.2618863 ppb		99
44) DIBROMOMETHANE	4.447	93	77494	24.9416730 ppb		97
45) BROMODICHLOROMETHANE	4.528	83	194529	25.9808325 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	27098	15.4410860 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.897	75	262915	26.6485062 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.254	58	328446	138.2159395 ppb		97
51) TOLUENE	5.045	91	711639	23.6258545 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	51647	26.6917478 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.393	97	129447	24.9353730 ppb		99
55) TETRACHLOROETHENE	5.296	164	112884	25.1330042 ppb		94
56) 1,3-Dichloropropane	5.573	76	253881	24.4475431 ppb		98
57) 2-HEXANONE	5.788	58	316606	141.2768157 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	118267	25.8694658 ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	120560	26.6174375 ppb		97
60) CHLOROBENZENE	6.023	112	414500	23.3033628 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	125666	26.8437226 ppb	#	100
62) ETHYLBENZENE	6.023	106	241365	24.6370788 ppb		99
63) M&P-XYLENE	6.119	106	603885	50.1059530 ppb		99
64) O-XYLENE	6.418	106	273825	23.8993421 ppb		100
65) STYRENE	6.454	104	461512	25.2511232 ppb		99
66) Bromoform	6.486	173	72285	29.5255981 ppb		99
67) Isopropylbenzene	6.634	105	764012	24.9552346 ppb		99
69) Bromobenzene	6.933	77	343612	24.0461773 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	183156	27.1856407 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	48971	26.8868882 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	48671	28.8761089 ppb	#	91
73) n-Propylbenzene	6.933	91	950127	25.0013490 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	764928	25.5392019 ppb		99
75) 2-Chlorotoluene	7.061	126	170960	25.2380946 ppb		95
76) 4-Chlorotoluene	7.180	91	541225	25.1656541 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	633308	24.4275166 ppb		98
78) tert-Butylbenzene	7.309	119	519769	24.7093650 ppb		98
79) 1,2,4-Trimethylbenzene	7.360	105	626999	25.4320981 ppb		100
80) sec-Butylbenzene	7.444	105	867509	24.7796032 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	309087	26.2670368 ppb		100
82) p-Isopropyltoluene	7.547	119	693761	25.7609952 ppb		99
83) DICYCLOPENTADIENE	7.547	66	859560	24.2698207 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	319268	25.3278354 ppb		96
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	637366	24.3563896 ppb		99
87) 1,2-DICHLOROBENZENE	8.019	146	281249	25.5992060 ppb		99
88) n-Butylbenzene	7.872	91	698939	27.1423168 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	25374	28.6634245 ppb		97
90) 1,2,4-Trichlorobenzene	9.193	180	172335	28.9700553 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	89913	25.0965932 ppb		96
92) Naphthalene	9.453	128	396526	26.0265254 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	148796	28.2736169 ppb		99
94) 1-Methylnaphthalene	10.325	142	138851	No Calib		
95) 2-Methylnaphthalene	10.453	142	130497	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 05.D
Acq On : 30 Oct 2014 2:06 pm
Operator : 644
Sample : MS 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:11 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

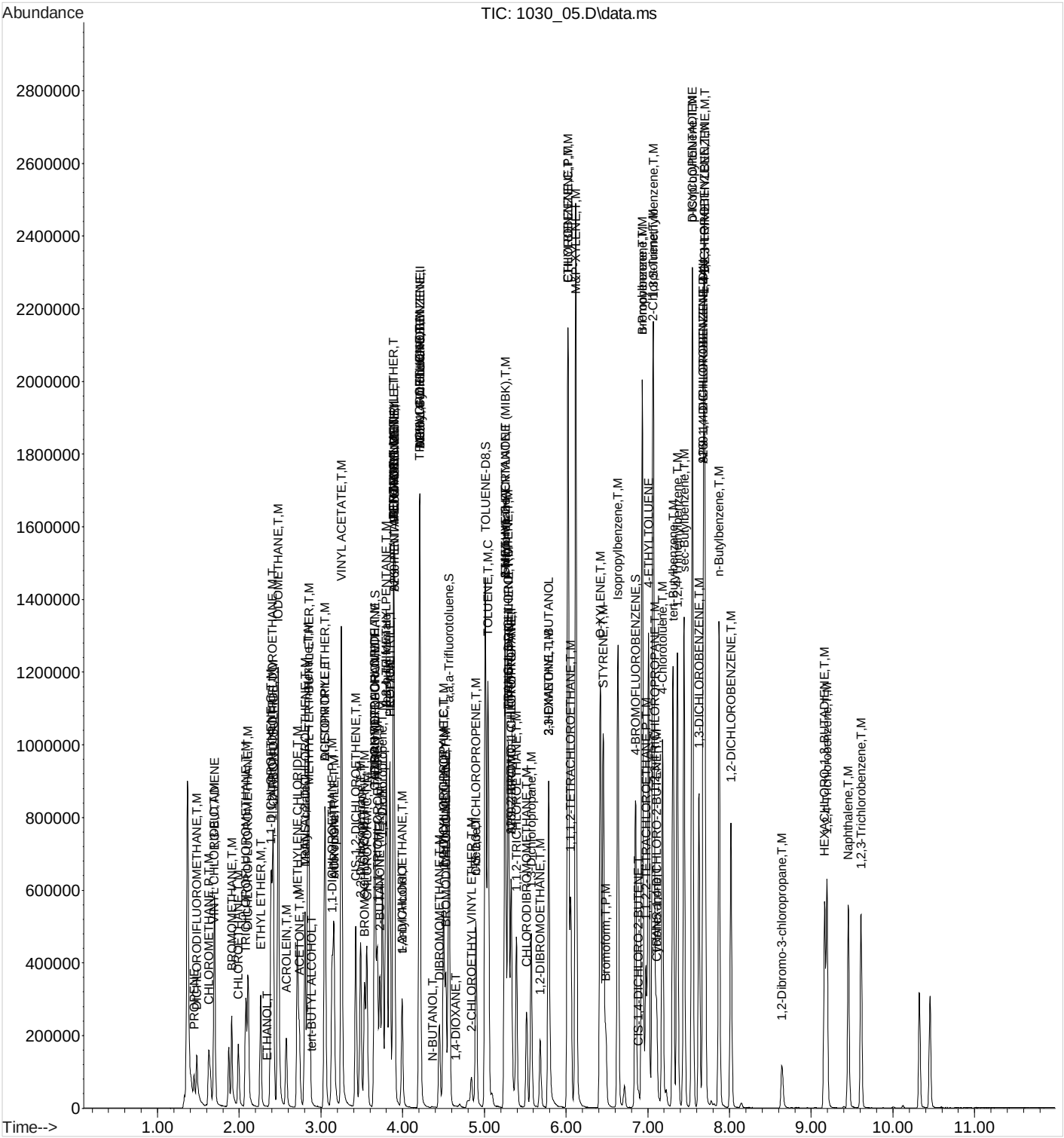
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.341	45	623	10.2422078 ppb #	39
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.804	43	6917	1.7892412 ppb #	99
101)	ACETONITRILE	3.049	41	85101	112.3183077 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.885	59	508	0.6418781 ppb #	59
104)	chloroprene	3.158	53	307368	49.1132959 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.277	59	617	N.D.	
106)	PROPIONITRILE	3.843	54	2325	2.7888619 ppb #	1
107)	Ethyl Acetate	3.608	43	827	N.D.	
108)	METHACRYLONITRILE	3.894	67	1123	0.4348494 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.798	59	786	0.3103691 ppb #	1
111)	ISOBUTANOL	3.920	41	616	No Calib #	
112)	t-Amyl Alcohol	3.994	59	938	1.9318168 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11657	0.6542888 ppb #	60
115)	N-BUTANOL	4.367	56	1515	150.5104153 ppb #	85
116)	Methyl Cyclohexane	4.209	83	10946	0.8388140 ppb #	47
117)	2-nitropropane	5.254	43	806105	692.8681234 ppb #	41
118)	METHYL METHACRYLATE	4.502	41	87744	15.9450624 ppb #	16
119)	1,4-DIOXANE	4.647	88	1319	20.0271640 ppb #	54
120)	n-octane	4.897	85	3334	0.5353168 ppb #	38
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	107161	262.5859525 ppb #	49
123)	ETHYL METHACRYLATE	5.254	69	5600	0.6817896 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2396	1.4230859 ppb #	28
125)	Cyclohexanone	7.110	55	1168	0.8330894 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21233	No Calib #	
127)	Hexachloroethane	7.997	117	974	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 05.D
Acq On : 30 Oct 2014 2:06 pm
Operator : 644
Sample : MS 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:11 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 06.D
Acq On : 30 Oct 2014 2:28 pm
Operator : 644
Sample : MSD 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	331450	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	604726	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	105298	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	258771	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	331450	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	604726	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	105298	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	258771	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	156003	37.5043515 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 93.76%		
46) a,a,a-Trifluorotoluene	4.566	146	317426	42.1561475 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.39%		
50) TOLUENE-D8	5.013	98	760069	39.2366403 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.09%		
68) 4-BROMOFLUOROBENZENE	6.849	95	268717	39.3657976 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.41%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	7171777	No Calib	
3) PROPENE	1.447	41	33205	21.4044857 ppb	95
4) DICHLORODIFLUOROMETHANE	1.483	85	109098	21.5215307 ppb	99
5) CHLOROMETHANE	1.631	50	183880	22.7673156 ppb	99
6) VINYL CHLORIDE	1.689	62	184031	21.2451350 ppb	99
7) 1,3-BUTADIENE	1.701	39	129010	20.3356964 ppb	98
8) BROMOMETHANE	1.907	94	109028	27.3925407 ppb	99
9) CHLOROETHANE	1.991	66	38488	27.5944598 ppb	91
10) TRICHLOROFLUOROMETHANE	2.081	101	172034	23.3715276 ppb	98
11) DICHLOROFLUOROMETHANE	2.107	67	262481	23.6798724 ppb	99
12) ETHYL ETHER	2.261	59	121591	24.4195707 ppb	97
13) ACROLEIN	2.576	56	121535	140.1759235 ppb	100
14) 1,1-DICHLOROETHENE	2.386	61	212027	24.2320644 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	144170	25.3226425 ppb	99
16) ACETONE	2.737	43	167549	104.8477425 ppb	99
17) IODOMETHANE	2.476	142	980223	136.0059560 ppb	99
18) CARBON DISULFIDE	2.418	76	476222	23.6169187 ppb	99
19) METHYLENE CHLORIDE	2.711	84	138894	20.8019414 ppb	98
20) ACRYLONITRILE	3.158	53	267675	135.2394993 ppb	100
21) n-Hexane	2.840	56	155097	20.9187355 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.808	96	133411	21.7982288 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	402610	23.2533879 ppb	93
24) 1,1-DICHLOROETHANE	3.135	63	279477	23.0334217 ppb	100
25) VINYL ACETATE	3.251	43	1371090	141.6450567 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	525933	23.2183035 ppb	99
27) 2,2-Dichloropropane	3.486	77	215809	24.5360291 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	151981	23.8476799 ppb	97
29) 2-BUTANONE (MEK)	3.721	72	81776	115.6329259 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	75966	24.3351508 ppb	95
31) TETRAHYDROFURAN	3.666	42	46464	23.9705896 ppb	94
32) CHLOROFORM	3.563	83	236847	23.2226546 ppb	96
34) 1,1,1-TRICHLOROETHANE	3.688	97	195599	23.4594115 ppb	99
35) CARBON TETRACHLORIDE	3.656	117	179119	24.2853432 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 06.D
Acq On : 30 Oct 2014 2:28 pm
Operator : 644
Sample : MSD 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	225510	23.4830882 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	772084	23.7991379 ppb		98
38) HEPTANE	3.843	43	316418	24.2775646 ppb		99
39) BENZENE	3.888	78	677026	24.5619886 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	180527	24.8658907 ppb		99
42) TRICHLOROETHENE	4.209	130	173793	29.6085327 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	128192	26.1367721 ppb		100
44) DIBROMOMETHANE	4.451	93	75907	25.5353055 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	192225	26.8336843 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.843	63	5751	3.4251981 ppb	#	88
48) CIS-1,3-DICHLOROPROPENE	4.897	75	250505	26.5384547 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.254	58	323512	142.2938972 ppb		98
51) TOLUENE	5.045	91	710681	24.6606327 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	51238	27.6774331 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.393	97	126136	25.4483283 ppb		99
55) TETRACHLOROETHENE	5.296	164	111257	25.9439252 ppb		96
56) 1,3-Dichloropropane	5.573	76	250563	25.2707590 ppb		100
57) 2-HEXANONE	5.788	58	303388	141.7902868 ppb		98
58) CHLORODIBROMOMETHANE	5.518	129	117255	26.8628184 ppb		99
59) 1,2-DIBROMOETHANE	5.682	107	115180	26.6340004 ppb		98
60) CHLOROBENZENE	6.023	112	412718	24.3020996 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	119872	26.8187806 ppb		97
62) ETHYLBENZENE	6.023	106	235511	25.1780702 ppb		99
63) M&P-XYLENE	6.119	106	598517	52.0125206 ppb		99
64) O-XYLENE	6.418	106	274185	25.0641434 ppb		99
65) STYRENE	6.454	104	451095	25.8500889 ppb		100
66) Bromoform	6.486	173	72198	30.8867357 ppb		97
67) Isopropylbenzene	6.634	105	746988	25.5547376 ppb		100
69) Bromobenzene	6.933	77	338626	24.8195754 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	182087	28.3069898 ppb	#	98
71) 1,2,3-TRICHLOROPROPANE	7.087	110	46985	27.0182444 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.110	53	46702	29.0201870 ppb	#	93
73) n-Propylbenzene	6.933	91	950383	26.1924888 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	758963	26.5401695 ppb		99
75) 2-Chlorotoluene	7.061	126	171220	26.4735920 ppb		95
76) 4-Chlorotoluene	7.180	91	539659	26.2812564 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	639393	25.8302462 ppb		100
78) tert-Butylbenzene	7.309	119	526189	26.1992766 ppb		99
79) 1,2,4-Trimethylbenzene	7.360	105	625218	26.5609216 ppb		100
80) sec-Butylbenzene	7.444	105	874854	26.1729253 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	309851	27.5790671 ppb		99
82) p-Isopropyltoluene	7.547	119	693758	26.9809404 ppb		98
83) DICYCLOPENTADIENE	7.547	66	857265	25.3513907 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	316825	25.4519313 ppb		94
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	645454	24.9774404 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	280582	25.8615131 ppb		98
88) n-Butylbenzene	7.872	91	688235	27.0646872 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	24937	28.5260712 ppb		95
90) 1,2,4-Trichlorobenzene	9.193	180	169171	28.7978701 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	91648	25.9044210 ppb		99
92) Naphthalene	9.454	128	392814	26.1003279 ppb		100
93) 1,2,3-Trichlorobenzene	9.608	180	143472	27.6067881 ppb		98
94) 1-Methylnaphthalene	10.322	142	139905	No Calib		
95) 2-Methylnaphthalene	10.453	142	135501	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 06.D
Acq On : 30 Oct 2014 2:28 pm
Operator : 644
Sample : MSD 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

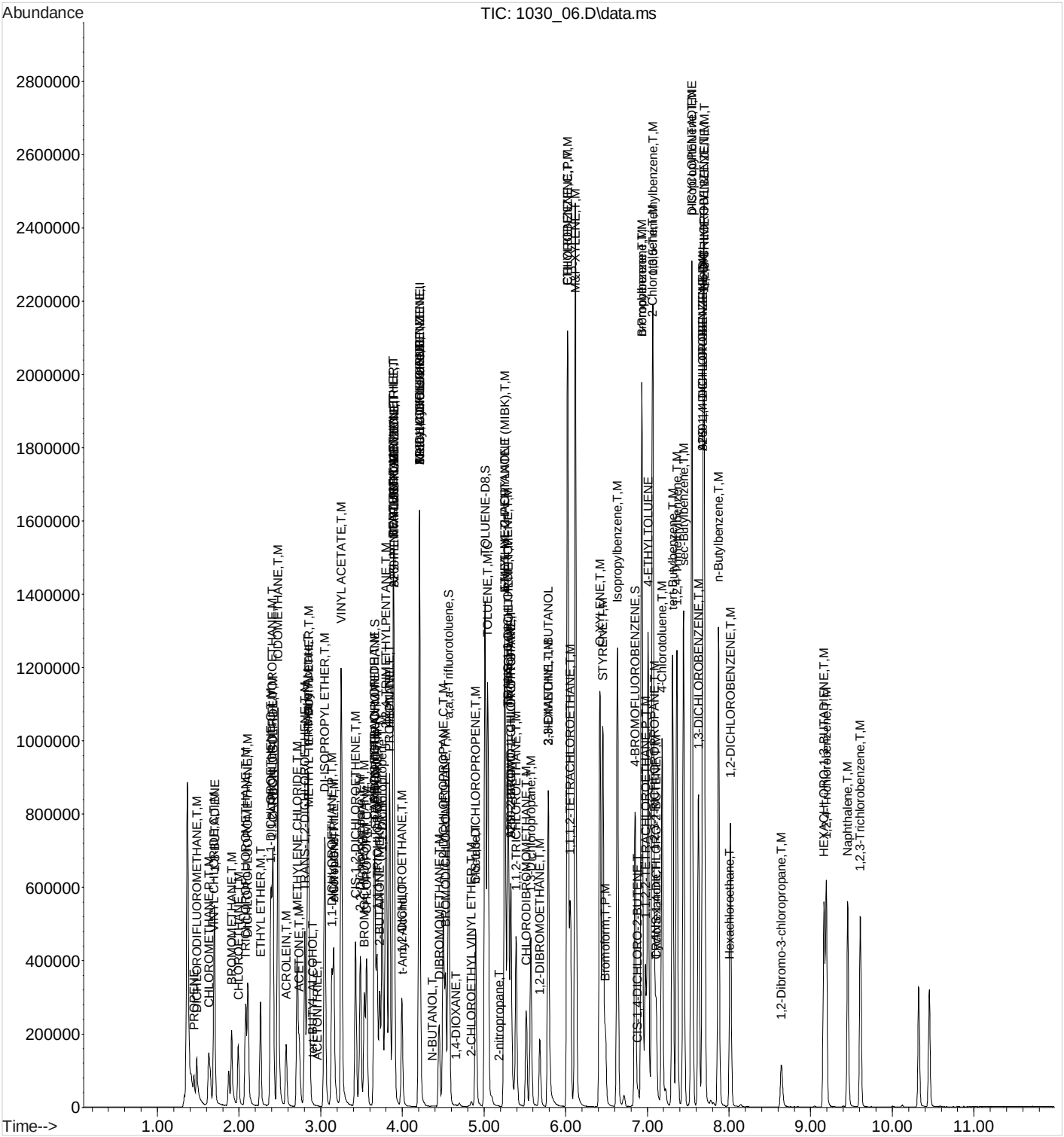
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.843	43	244158	67.3516154 ppb #	69
101)	ACETONITRILE	2.962	41	511	0.7192216 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.898	59	512	0.6898978 ppb #	59
104)	chloroprene	3.158	53	267675	45.6114812 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.271	59	853	N.D.	
106)	PROPIONITRILE	3.840	54	2676	3.4230725 ppb #	1
107)	Ethyl Acetate	3.553	43	730	N.D.	
108)	METHACRYLONITRILE	3.891	67	735	0.3035096 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	629	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	4.000	59	904	1.9854432 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11205	0.6706880 ppb #	57
115)	N-BUTANOL	4.367	56	1522	150.8771361 ppb #	82
116)	Methyl Cyclohexane	4.209	83	10202	0.8171415 ppb #	54
117)	2-nitropropane	5.187	43	705	0.6333588 ppb #	18
118)	METHYL METHACRYLATE	4.660	41	993	N.D.	
119)	1,4-DIOXANE	4.656	88	978	15.5208407 ppb #	72
120)	n-octane	4.897	85	3336	0.5598518 ppb #	29
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	106432	272.4259678 ppb #	50
123)	ETHYL METHACRYLATE	5.254	69	4913	0.6264717 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	2164	1.3461516 ppb #	29
125)	Cyclohexanone	7.110	55	1200	0.8964425 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21515	No Calib #	
127)	Hexachloroethane	8.003	117	1106	0.3362682 ppb #	36

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 06.D
Acq On : 30 Oct 2014 2:28 pm
Operator : 644
Sample : MSD 1x WG750823 L729802-09
Misc : water SSURR14I25028/SPK14J30896
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Oct 31 10:56:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 08.D
Acq On : 30 Oct 2014 3:12 pm
Operator : 644
Sample : BLANK 1X WG750823
Misc : soil SSURR14I25028
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:34:27 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

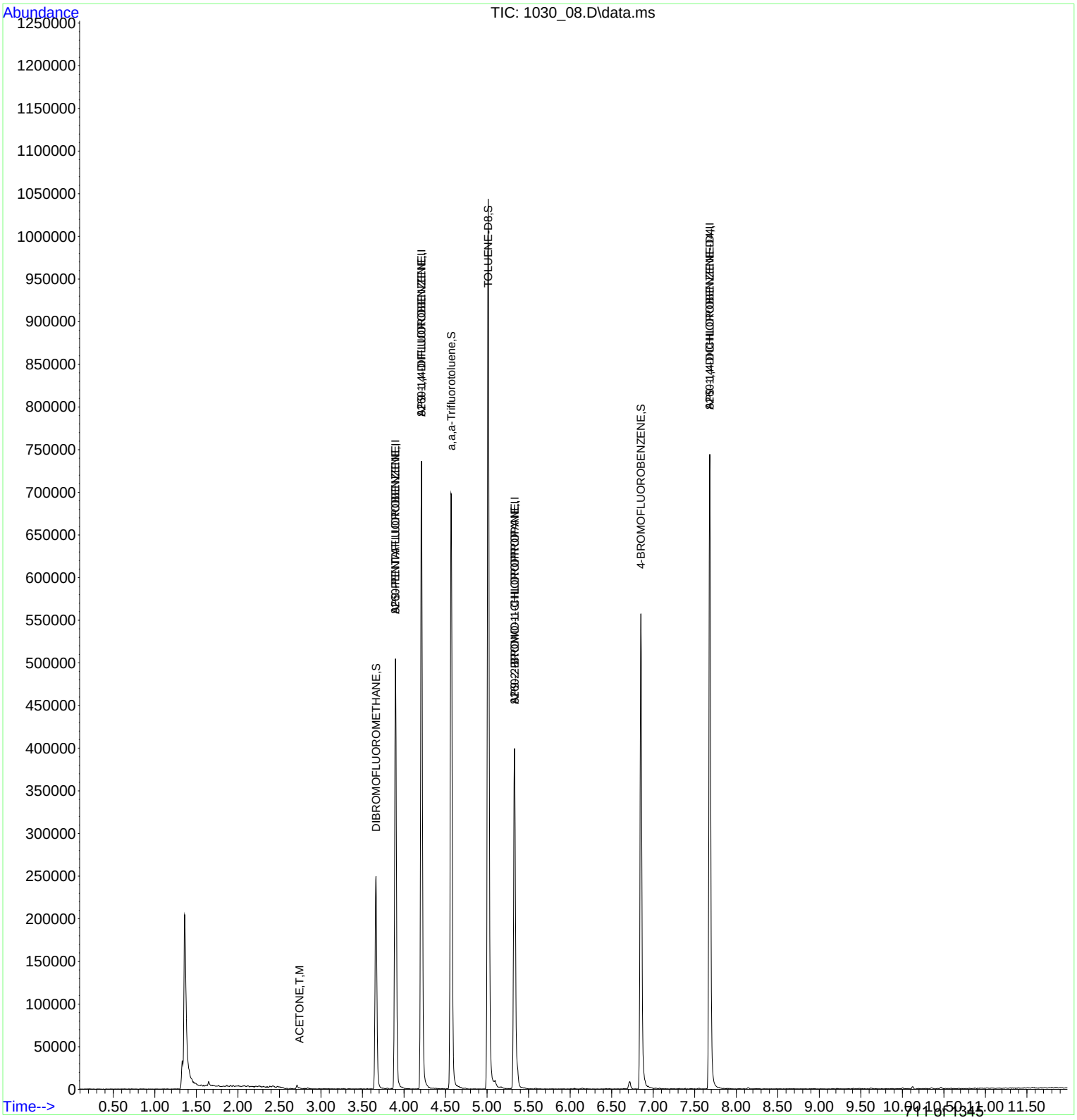
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	257774	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	466732	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	76311	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	176032	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	257774	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	466732	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	76311	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	176032	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	126324	39.0493214 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.62%		
46) a,a,a-Trifluorotoluene	4.569	146	243864	41.9620962 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.91%		
50) TOLUENE-D8	5.013	98	594658	39.7738034 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.43%		
68) 4-BROMOFLUOROBENZENE	6.852	95	194359	39.2881471 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.22%		
Target Compounds					Qvalue
16) ACETONE	2.743	43	1274	1.0250985 ppb #	40

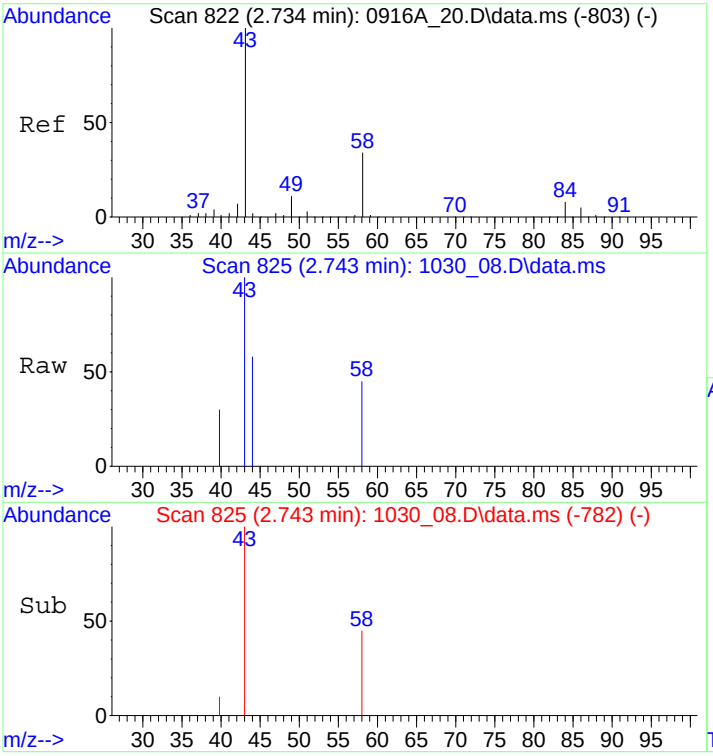
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 08.D
Acq On : 30 Oct 2014 3:12 pm
Operator : 644
Sample : BLANK 1X WG750823
Misc : soil SSURR14I25028
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:34:27 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

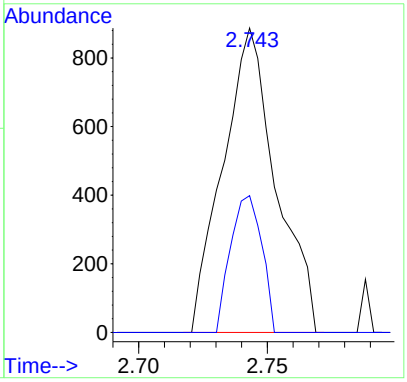




#16
ACETONE
Concen: 1.0250985 ppb
RT: 2.743 min Scan# 825
Delta R.T. 0.007 min
Lab File: 1030 08.D
Acq: 30 Oct 2014 3:12 pm

Tgt Ion: 43 Resp: 1274

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 09.D
Acq On : 30 Oct 2014 3:41 pm
Operator : 644
Sample : L729802-02 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:36:48 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

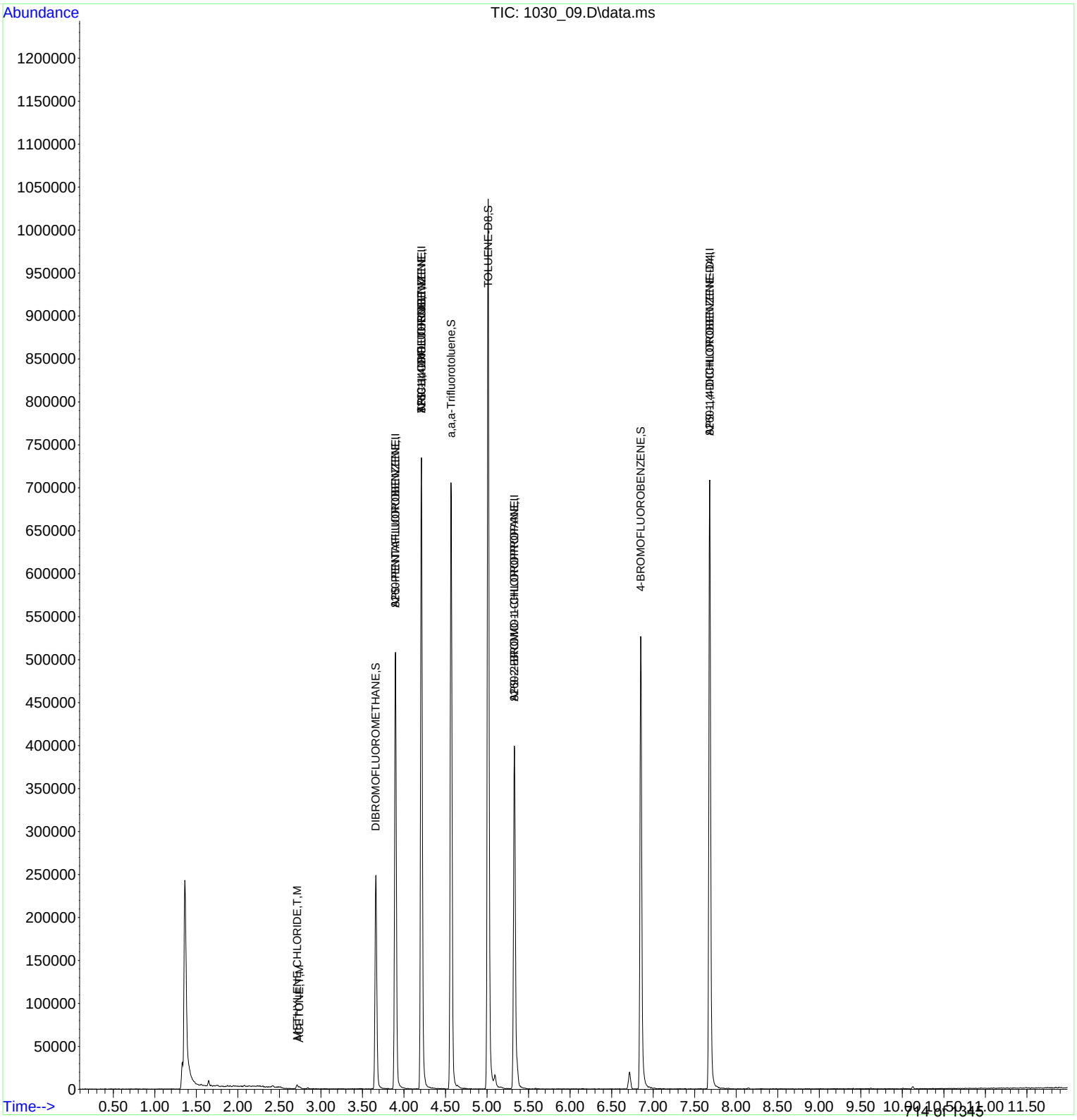
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	259260	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	463774	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	75318	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	169914	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	259260	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	463774	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	75318	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	169914	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	127734	39.2588640 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.15%		
46) a,a,a-Trifluorotoluene	4.566	146	238395	41.2826726 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.21%		
50) TOLUENE-D8	5.013	98	592806	39.9028235 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.76%		
68) 4-BROMOFLUOROBENZENE	6.849	95	188607	38.6280748 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.57%		
Target Compounds					Qvalue
16) ACETONE	2.740	43	3026	2.4208544 ppb #	86
19) METHYLENE CHLORIDE	2.714	84	1663	0.3184162 ppb	91
42) TRICHLOROETHENE	4.210	130	1424	0.3163347 ppb	91

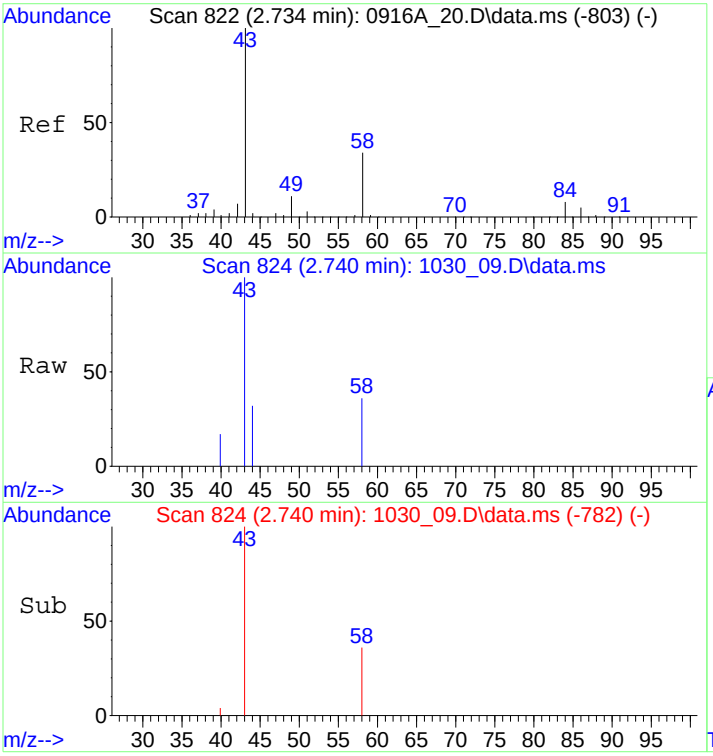
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 09.D
Acq On : 30 Oct 2014 3:41 pm
Operator : 644
Sample : L729802-02 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:36:48 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

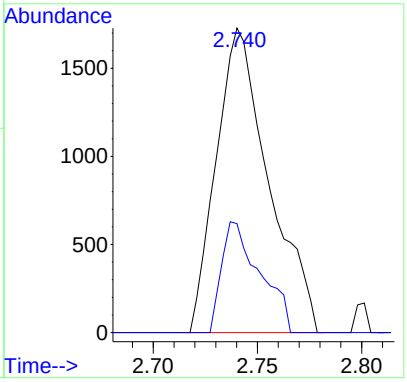


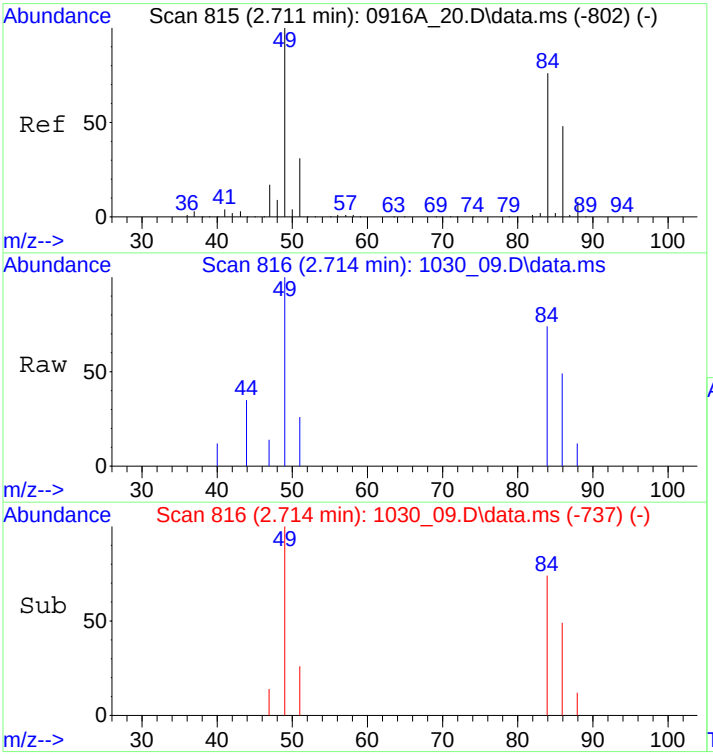


#16
ACETONE
Concen: 2.4208544 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1030 09.D
Acq: 30 Oct 2014 3:41 pm

Tgt Ion: 43 Resp: 3026

Ion	Ratio	Lower	Upper
43	100		
58	26.6	28.0	42.0#

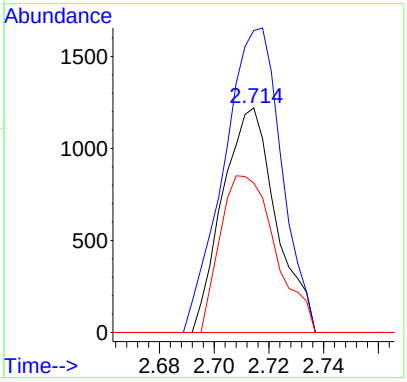


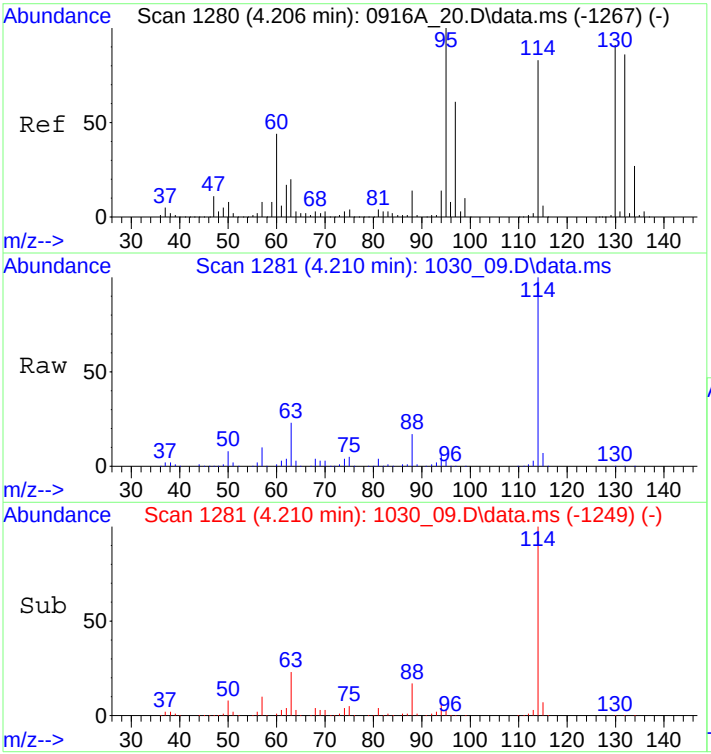


#19
METHYLENE CHLORIDE
Concen: 0.3184162 ppb
RT: 2.714 min Scan# 816
Delta R.T. 0.003 min
Lab File: 1030_09.D
Acq: 30 Oct 2014 3:41 pm

Tgt Ion: 84 Resp: 1663

Ion	Ratio	Lower	Upper
84	100		
49	145.9	108.7	163.1
86	71.9	50.8	76.2

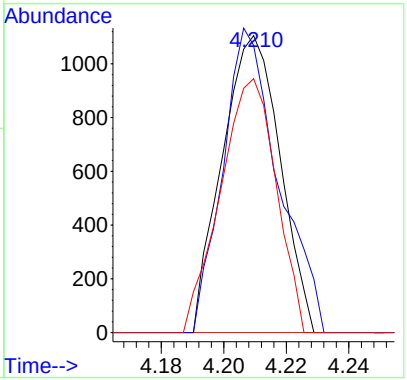




#42
TRICHLOROETHENE
Concen: 0.3163347 ppb
RT: 4.210 min Scan# 1281
Delta R.T. 0.003 min
Lab File: 1030 09.D
Acq: 30 Oct 2014 3:41 pm

Tgt Ion:130 Resp: 1424

Ion	Ratio	Lower	Upper
130	100		
132	98.2	75.8	113.6
97	82.0	55.5	83.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 10.D
Acq On : 30 Oct 2014 4:04 pm
Operator : 644
Sample : L729802-09 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:38:27 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

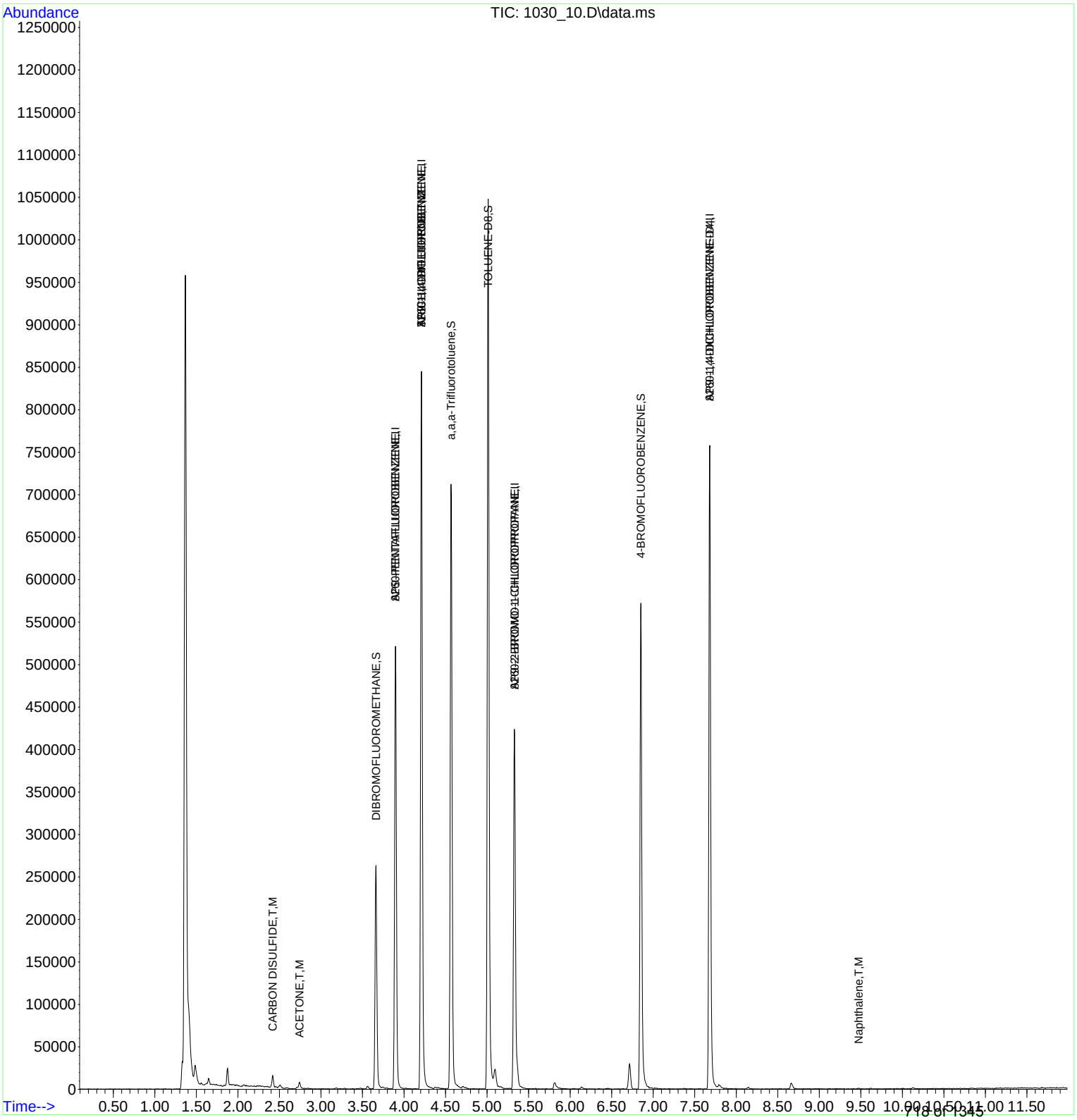
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	259235	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	478109	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	80883	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	182571	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	259235	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	478109	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	80883	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	182571	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	133200	40.9427794 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.36%		
46) a,a,a-Trifluorotoluene	4.566	146	247159	41.5170580 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.79%		
50) TOLUENE-D8	5.013	98	609667	39.8073442 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.52%		
68) 4-BROMOFLUOROBENZENE	6.852	95	198732	37.9013420 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.75%		
Target Compounds					Qvalue
16) ACETONE	2.743	43	8241	6.5935840 ppb	96
18) CARBON DISULFIDE	2.418	76	13719	0.8698826 ppb	97
42) TRICHLOROETHENE	4.209	130	26320	5.6715558 ppb	98
92) Naphthalene	9.473	128	839	2.8049921 ppb #	72

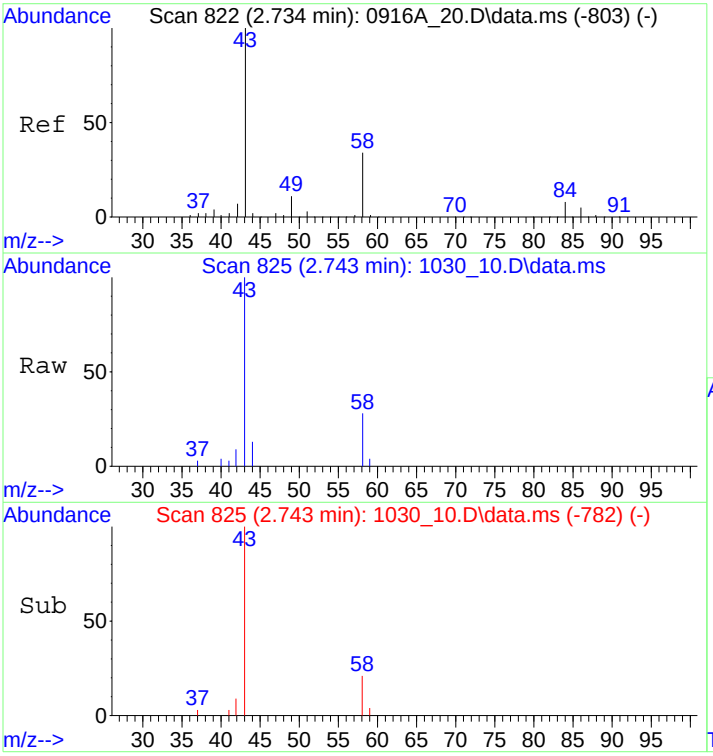
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 10.D
Acq On : 30 Oct 2014 4:04 pm
Operator : 644
Sample : L729802-09 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:38:27 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

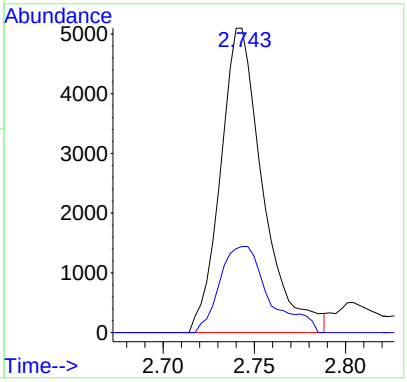


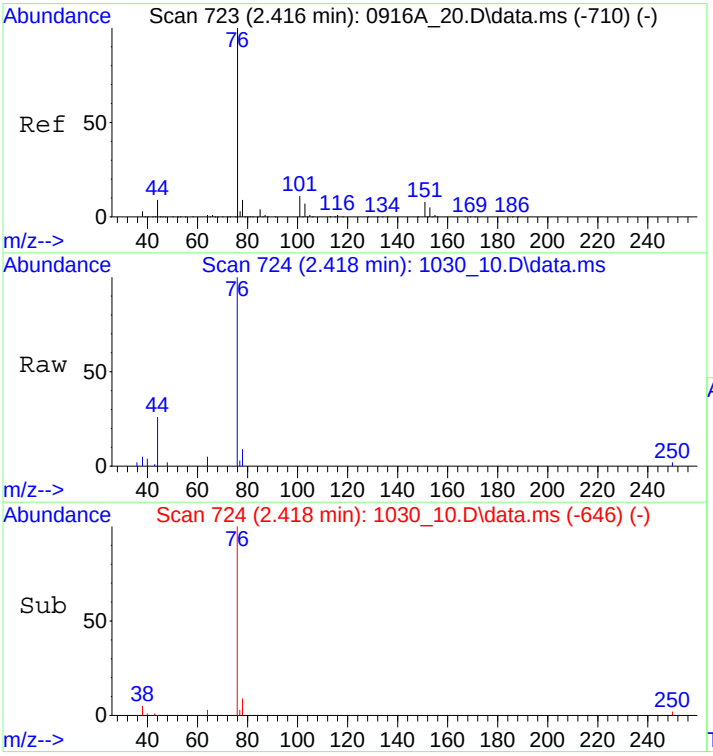


#16
ACETONE
Concen: 6.5935840 ppb
RT: 2.743 min Scan# 825
Delta R.T. 0.007 min
Lab File: 1030 10.D
Acq: 30 Oct 2014 4:04 pm

Tgt Ion: 43 Resp: 8241

Ion	Ratio	Lower	Upper
43	100		
58	32.6	28.0	42.0

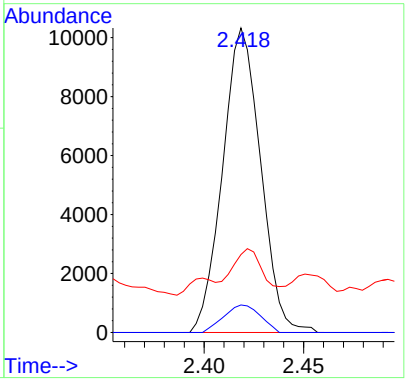


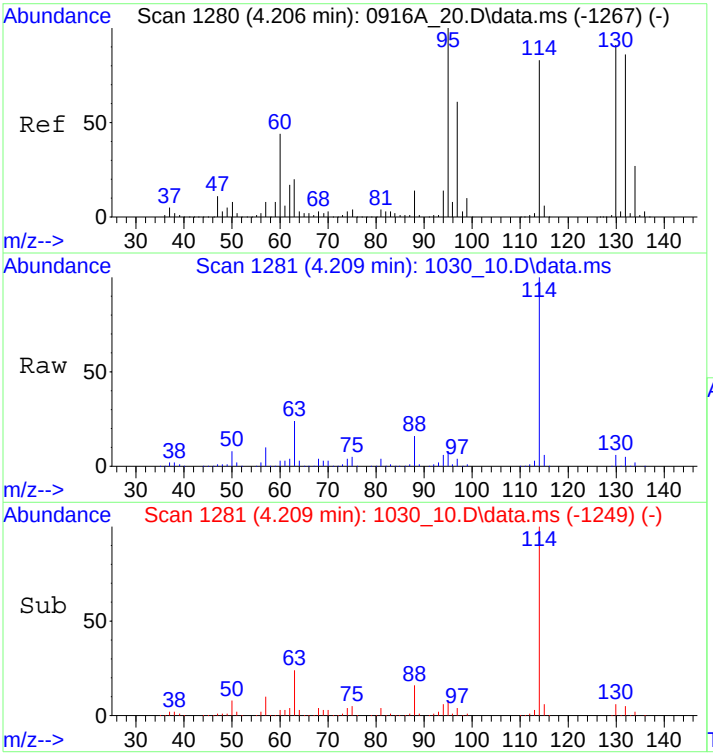


#18
CARBON DISULFIDE
Concen: 0.8698826 ppb
RT: 2.418 min Scan# 724
Delta R.T. -0.000 min
Lab File: 1030_10.D
Acq: 30 Oct 2014 4:04 pm

Tgt Ion: 76 Resp: 13719

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.8	11.6
44	10.9	7.8	11.6

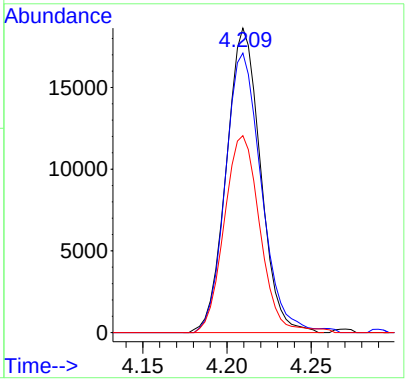


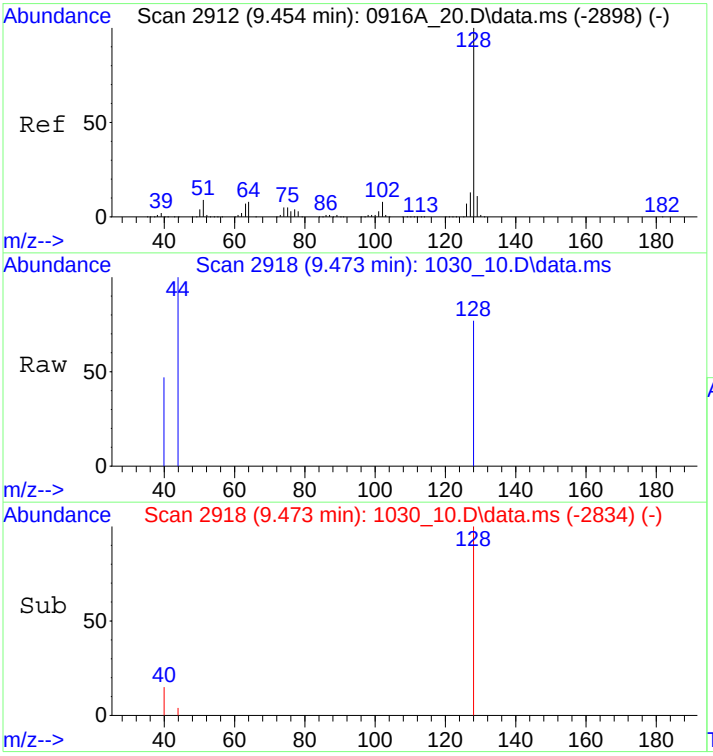


#42
TRICHLOROETHENE
Concen: 5.6715558 ppb
RT: 4.209 min Scan# 1281
Delta R.T. 0.003 min
Lab File: 1030 10.D
Acq: 30 Oct 2014 4:04 pm

Tgt Ion:130 Resp: 26320

Ion	Ratio	Lower	Upper
130	100		
132	96.7	75.8	113.6
97	67.6	55.5	83.3

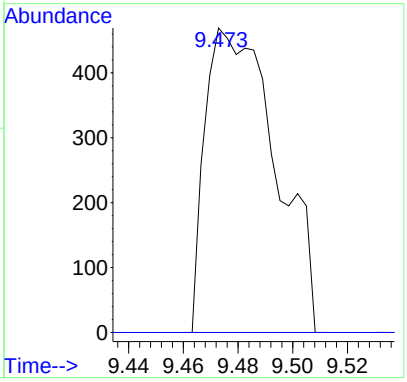




#92
Naphthalene
Concen: 2.8049921 ppb
RT: 9.473 min Scan# 2918
Delta R.T. 0.020 min
Lab File: 1030_10.D
Acq: 30 Oct 2014 4:04 pm

Tgt Ion:128 Resp: 839

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 23.D
Acq On : 30 Oct 2014 11:00 pm
Operator : 644
Sample : L729802-06 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:40:09 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

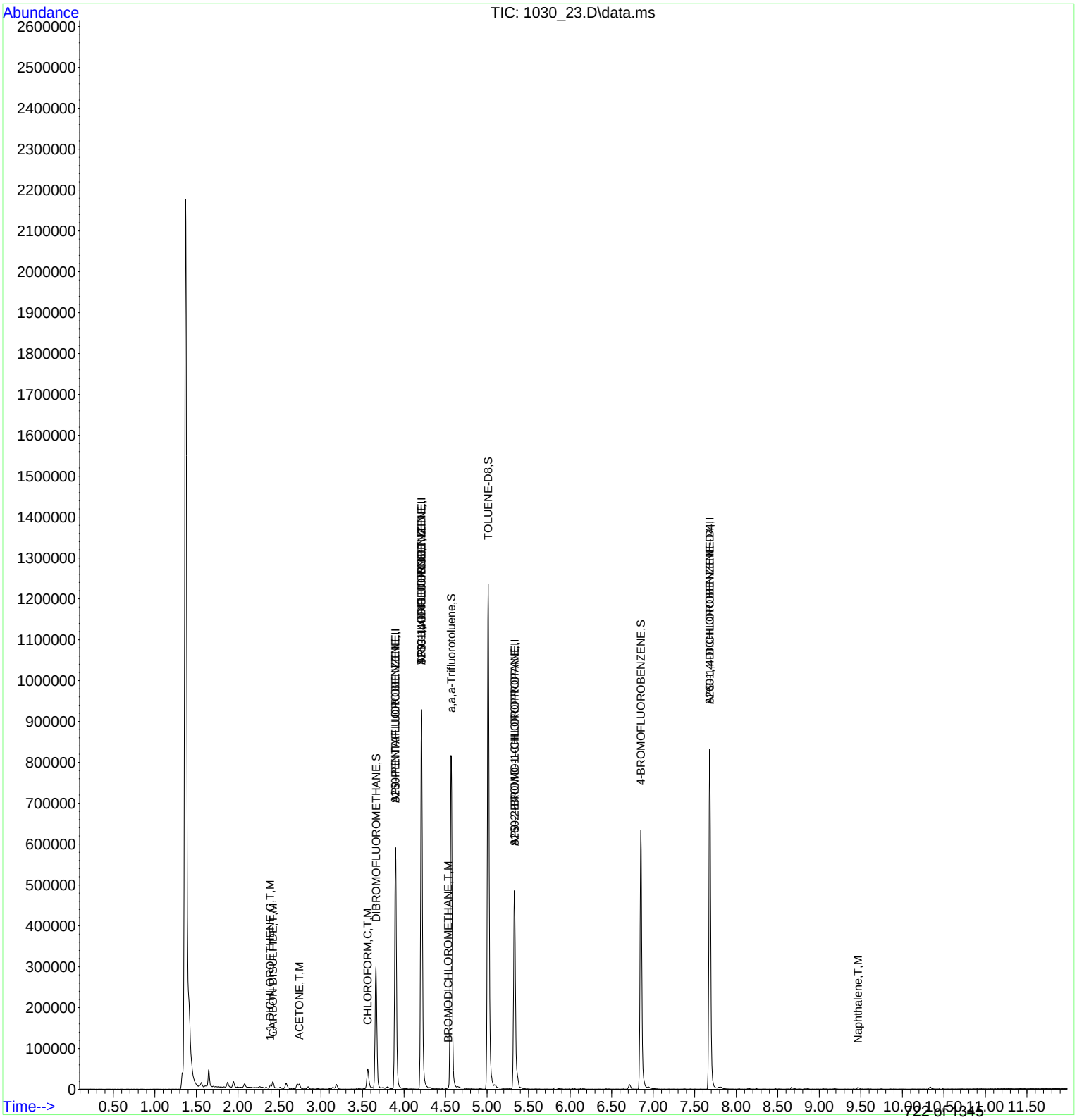
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	297523	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	548352	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	94211	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	198139	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	297523	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	548352	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	94030	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	198139	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	153623	41.1436134 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.86%		
46) a,a,a-Trifluorotoluene	4.570	146	284182	41.6211614 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.05%		
50) TOLUENE-D8	5.013	98	708481	40.3335279 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.83%		
68) 4-BROMOFLUOROBENZENE	6.852	95	224074	36.6888323 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 91.72%		
Target Compounds					Qvalue
14) 1,1-DICHLOROETHENE	2.390	61	3638	0.4631903 ppb	97
16) ACETONE	2.740	43	13352	9.3081001 ppb #	68
18) CARBON DISULFIDE	2.422	76	16933	0.9355030 ppb	98
32) CHLOROFORM	3.563	83	28490	3.1119593 ppb	99
42) TRICHLOROETHENE	4.209	130	16715	3.1404378 ppb	99
45) BROMODICHLOROMETHANE	4.534	83	2636	0.4058028 ppb #	69
92) Naphthalene	9.466	128	4786	3.1060621 ppb #	72

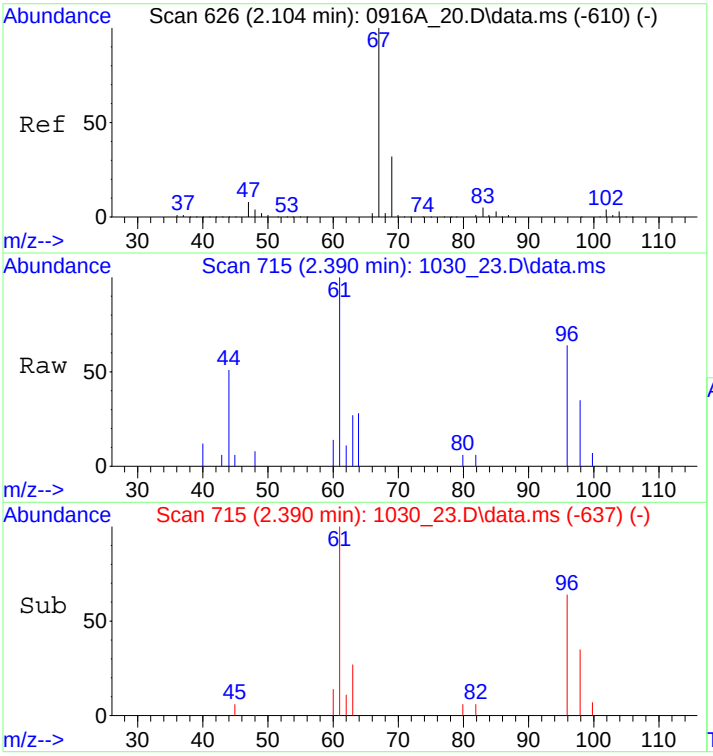
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 23.D
Acq On : 30 Oct 2014 11:00 pm
Operator : 644
Sample : L729802-06 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:40:09 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

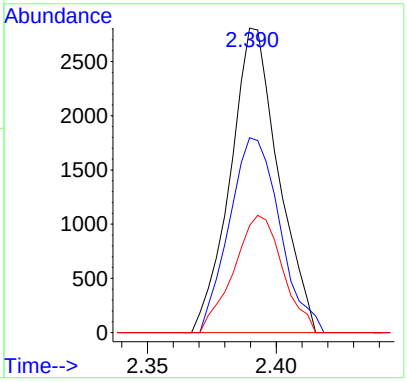


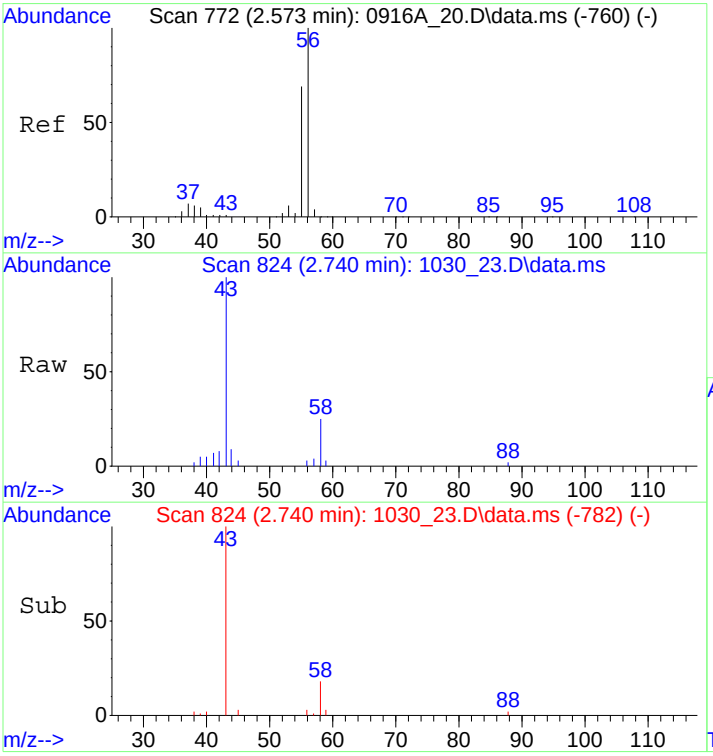


#14
1,1-DICHLOROETHENE
Concen: 0.4631903 ppb
RT: 2.390 min Scan# 715
Delta R.T. -0.000 min
Lab File: 1030 23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion: 61 Resp: 3638

Ion	Ratio	Lower	Upper
61	100		
96	67.5	51.4	77.2
98	39.2	32.2	48.2

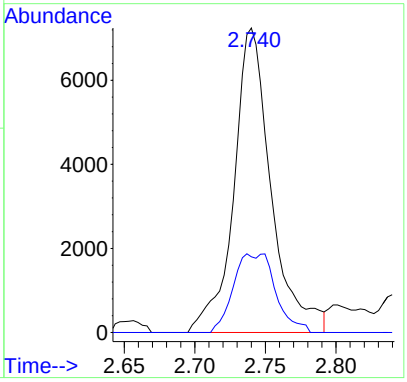


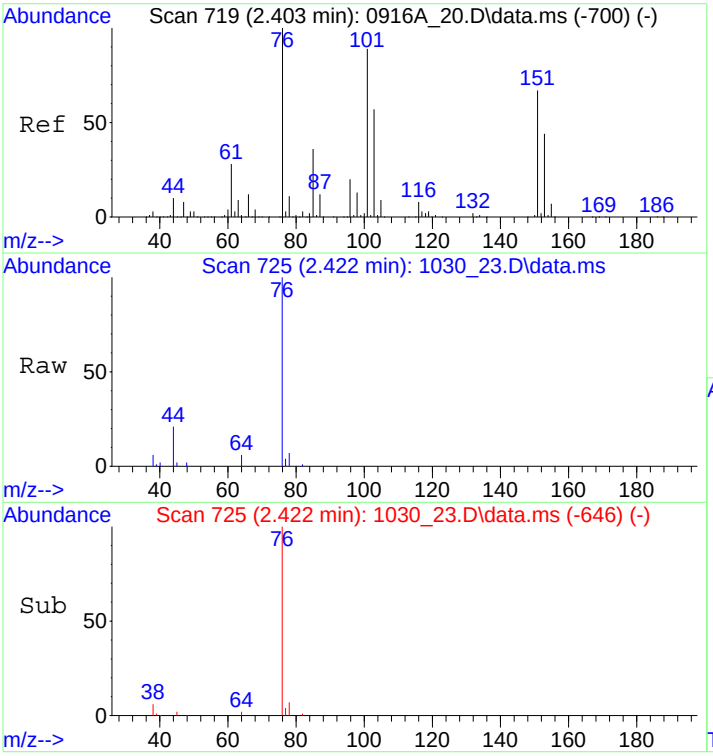


#16
ACETONE
Concen: 9.3081001 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1030_23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion: 43 Resp: 13352

Ion	Ratio	Lower	Upper
43	100		
58	16.4	28.0	42.0#

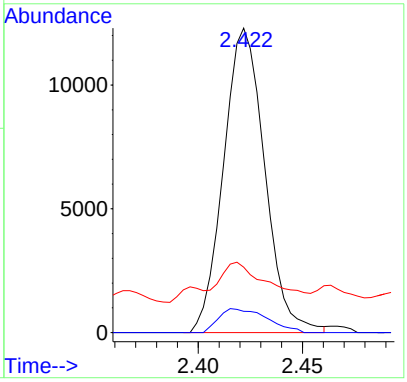


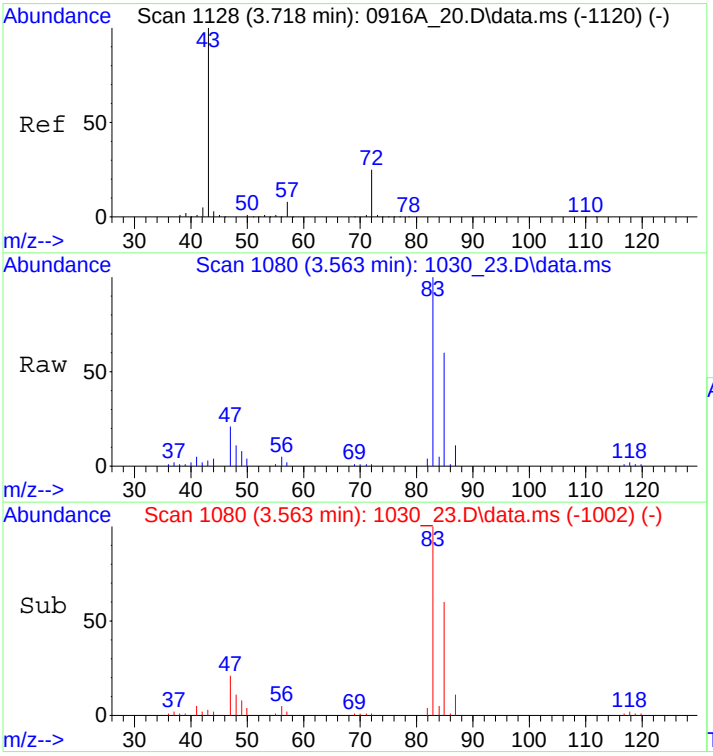


#18
CARBON DISULFIDE
Concen: 0.9355030 ppb
RT: 2.422 min Scan# 725
Delta R.T. 0.003 min
Lab File: 1030 23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion: 76 Resp: 16933

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.8	11.6
44	9.0	7.8	11.6

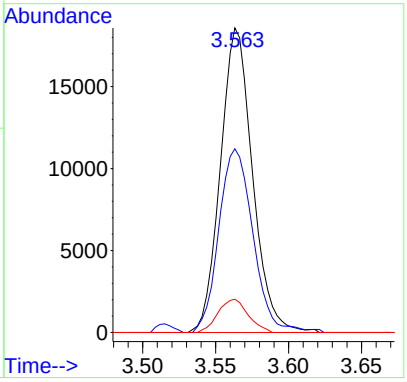


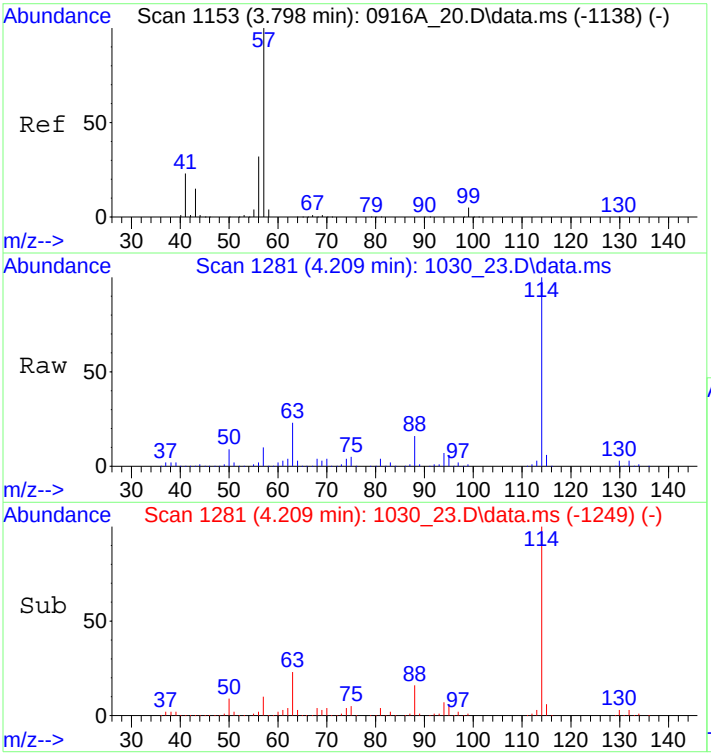


#32
CHLOROFORM
Concen: 3.1119593 ppb
RT: 3.563 min Scan# 1080
Delta R.T. -0.000 min
Lab File: 1030_23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion: 83 Resp: 28490

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.6	76.0
87	10.2	8.2	12.2

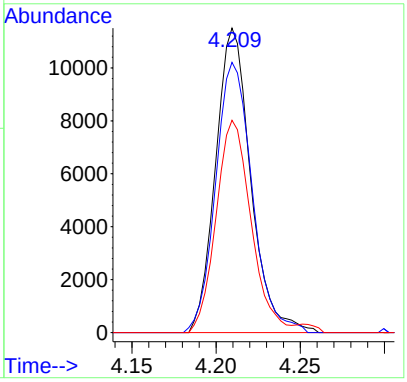


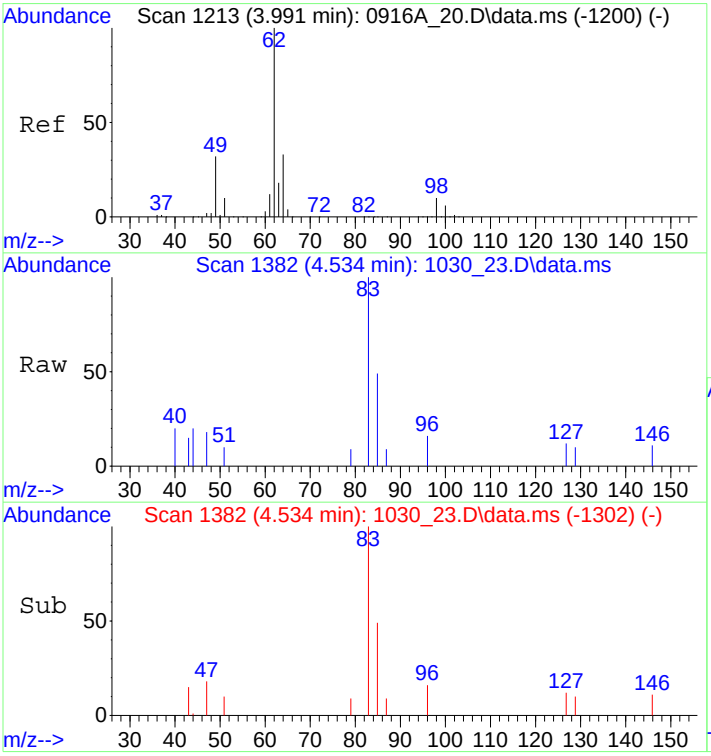


#42
TRICHLOROETHENE
Concen: 3.1404378 ppb
RT: 4.209 min Scan# 1281
Delta R.T. 0.003 min
Lab File: 1030 23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion:130 Resp: 16715

Ion	Ratio	Lower	Upper
130	100		
132	92.3	75.8	113.6
97	69.3	55.5	83.3

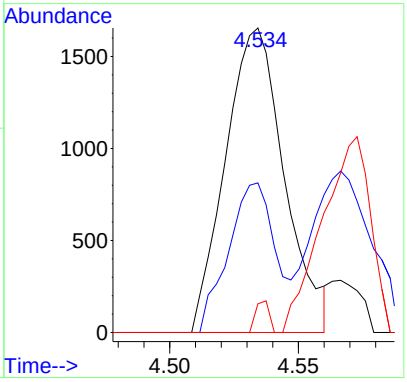


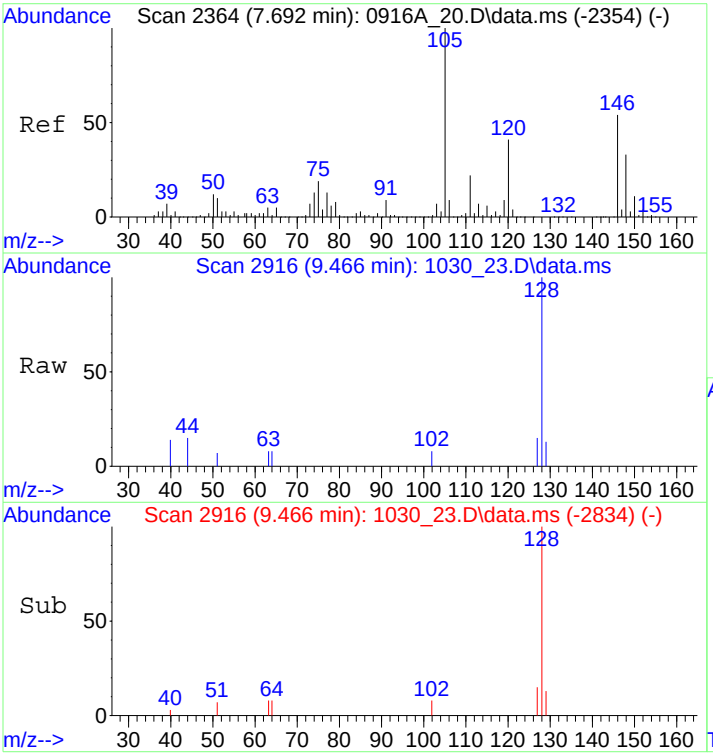


#45
BROMODICHLOROMETHANE
Concen: 0.4058028 ppb
RT: 4.534 min Scan# 1382
Delta R.T. 0.006 min
Lab File: 1030_23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion: 83 Resp: 2636

Ion	Ratio	Lower	Upper
83	100		
85	39.6	51.5	77.3#
87	0.0	8.2	12.2#

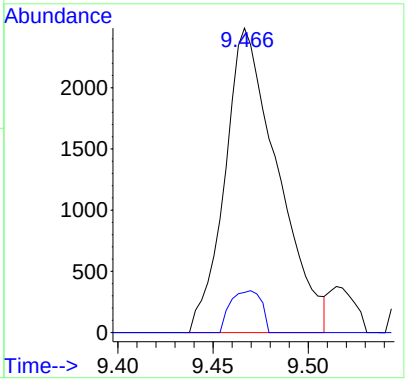




#92
Naphthalene
Concen: 3.1060621 ppb
RT: 9.466 min Scan# 2916
Delta R.T. 0.013 min
Lab File: 1030 23.D
Acq: 30 Oct 2014 11:00 pm

Tgt Ion:128 Resp: 4786

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 24.D
Acq On : 30 Oct 2014 11:22 pm
Operator : 644
Sample : L729802-07 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:46:59 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

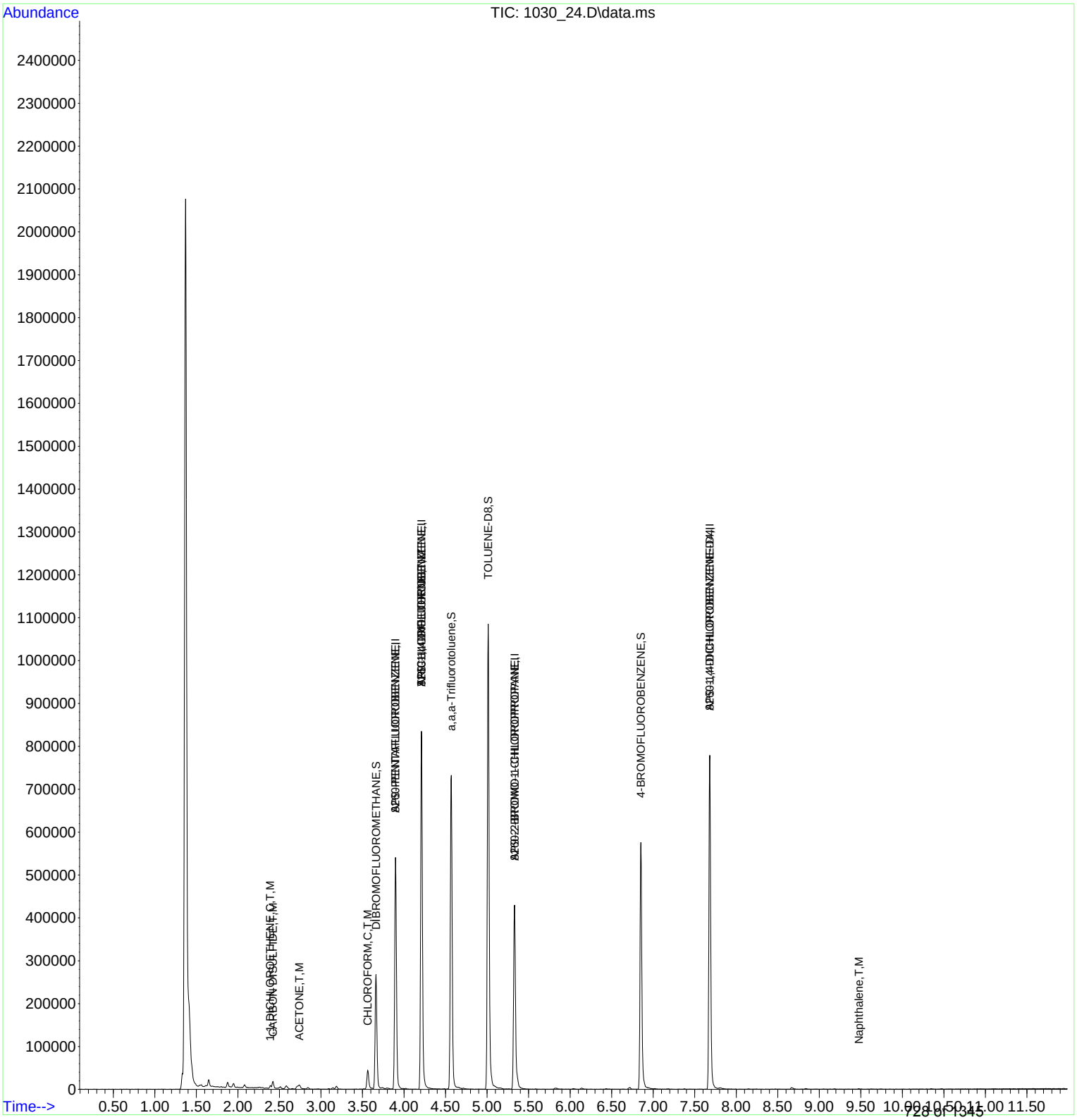
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	269619	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	499727	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	82225	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	185996	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	269619	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	499727	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	82225	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	185996	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	133965	39.5920134 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.98%		
46) a,a,a-Trifluorotoluene	4.570	146	250634	40.2795148 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.70%		
50) TOLUENE-D8	5.013	98	629070	39.2973798 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.24%		
68) 4-BROMOFLUOROBENZENE	6.852	95	201087	37.7245570 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.31%		
Target Compounds					Qvalue
14) 1,1-DICHLOROETHENE	2.390	61	3225	0.4531025 ppb	92
16) ACETONE	2.740	43	11409	8.7767222 ppb	100
18) CARBON DISULFIDE	2.422	76	16538	1.0082409 ppb #	91
32) CHLOROFORM	3.563	83	26535	3.1983839 ppb	99
42) TRICHLOROETHENE	4.209	130	13124	2.7056814 ppb	97
92) Naphthalene	9.476	128	1595	2.8662547 ppb #	72

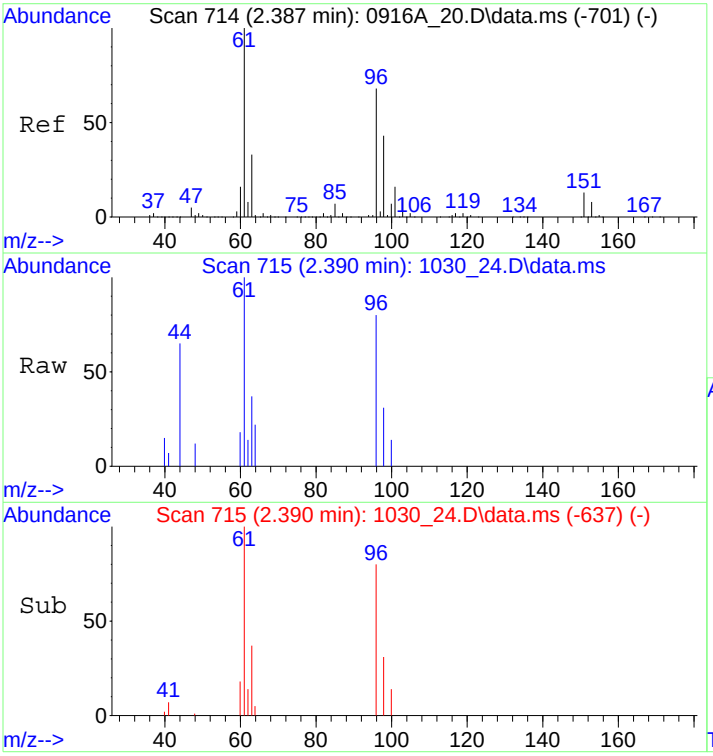
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 24.D
Acq On : 30 Oct 2014 11:22 pm
Operator : 644
Sample : L729802-07 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:46:59 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

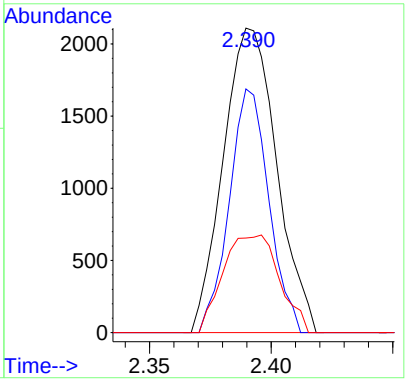


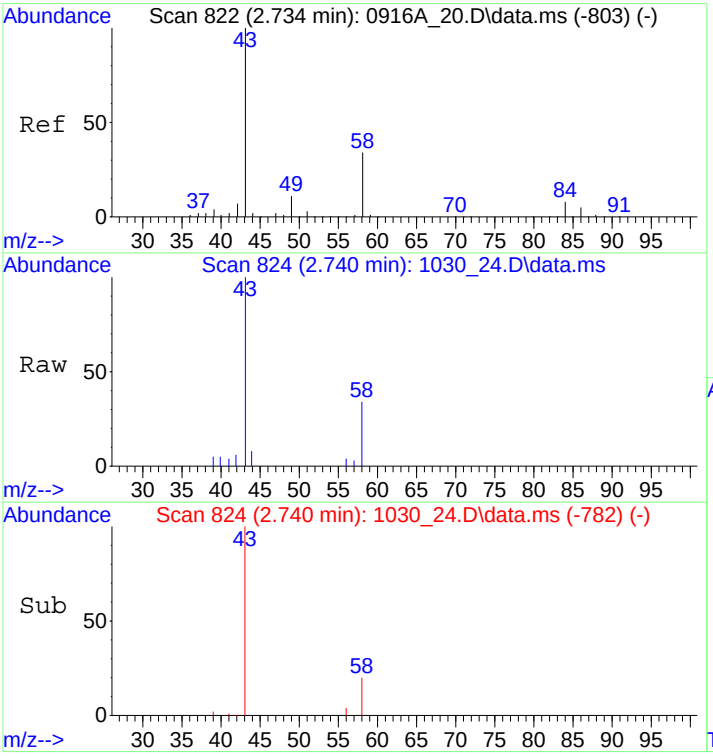


#14
1,1-DICHLOROETHENE
Concen: 0.4531025 ppb
RT: 2.390 min Scan# 715
Delta R.T. -0.000 min
Lab File: 1030 24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion: 61 Resp: 3225

Ion	Ratio	Lower	Upper
61	100		
96	59.4	51.4	77.2
98	33.7	32.2	48.2

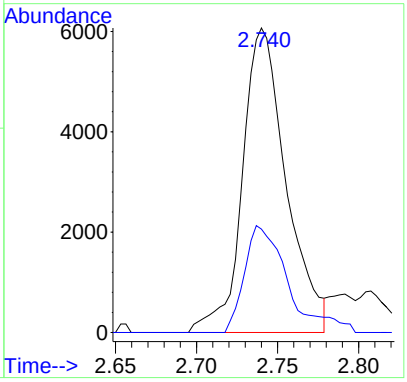


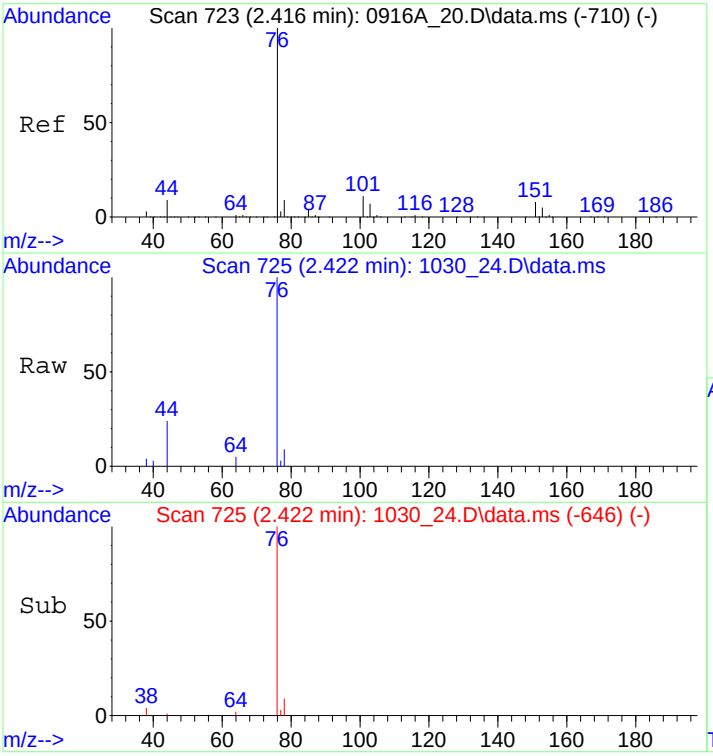


#16
ACETONE
Concen: 8.7767222 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1030_24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion: 43 Resp: 11409

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.0	42.0

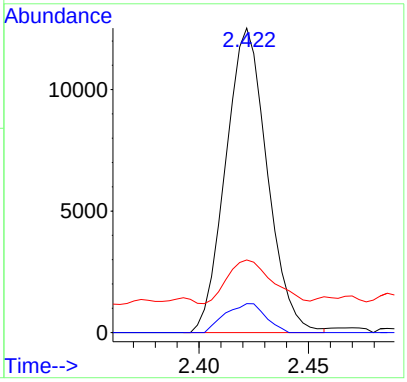


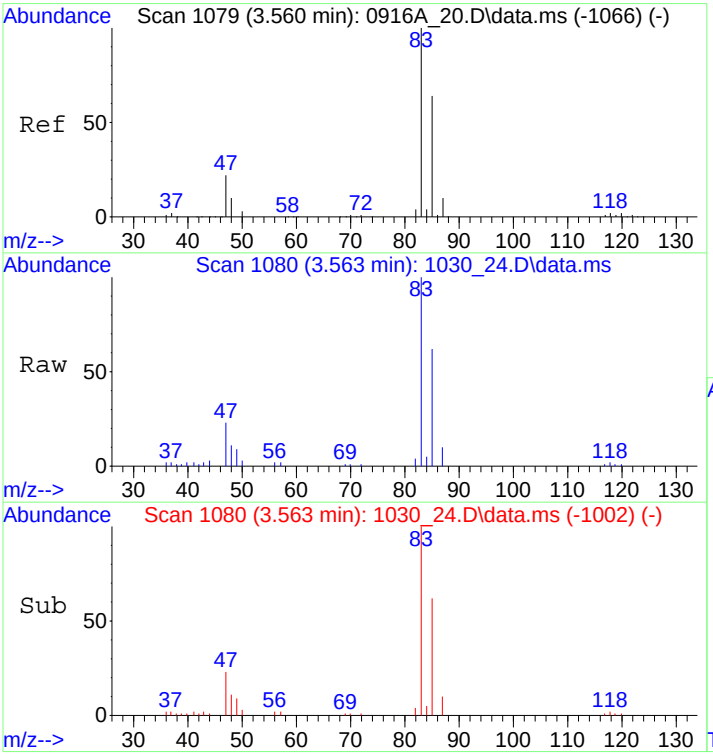


#18
CARBON DISULFIDE
Concen: 1.0082409 ppb
RT: 2.422 min Scan# 725
Delta R.T. 0.003 min
Lab File: 1030 24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion: 76 Resp: 16538

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.8	11.6
44	15.6	7.8	11.6#

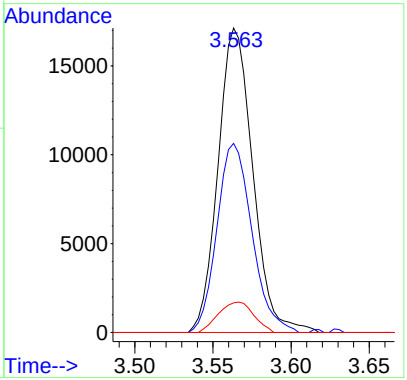


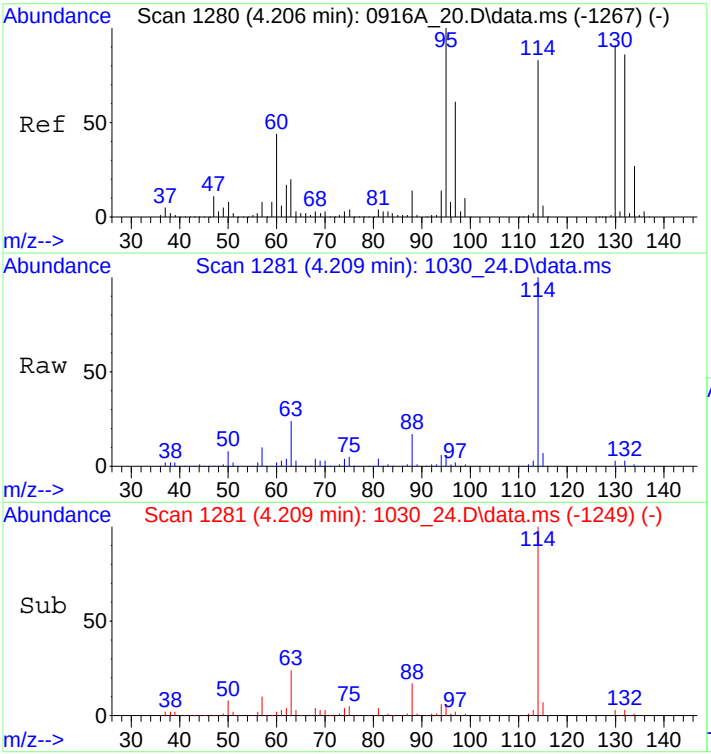


#32
CHLOROFORM
Concen: 3.1983839 ppb
RT: 3.563 min Scan# 1080
Delta R.T. -0.000 min
Lab File: 1030_24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion: 83 Resp: 26535

Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.6	76.0
87	10.1	8.2	12.2

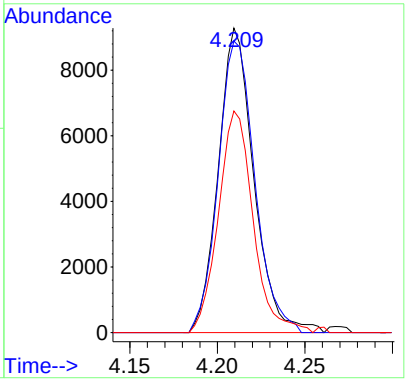


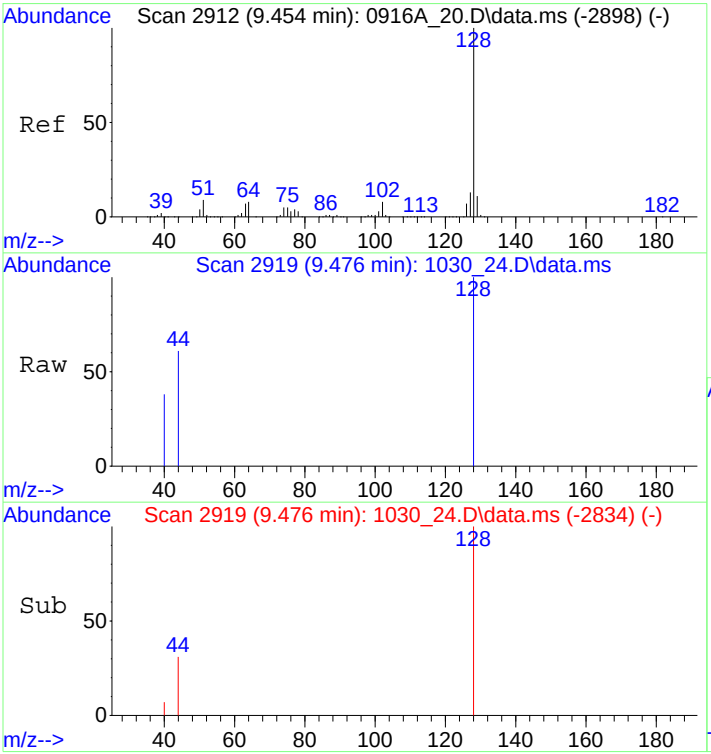


#42
TRICHLOROETHENE
Concen: 2.7056814 ppb
RT: 4.209 min Scan# 1281
Delta R.T. 0.003 min
Lab File: 1030 24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion:130 Resp: 13124

Ion	Ratio	Lower	Upper
130	100		
132	98.7	75.8	113.6
97	71.0	55.5	83.3

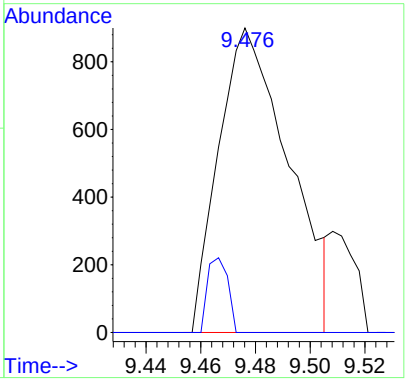




#92
Naphthalene
Concen: 2.8662547 ppb
RT: 9.476 min Scan# 2919
Delta R.T. 0.023 min
Lab File: 1030_24.D
Acq: 30 Oct 2014 11:22 pm

Tgt Ion:128 Resp: 1595

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 25.D
Acq On : 30 Oct 2014 11:44 pm
Operator : 644
Sample : L729802-08 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:49:50 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

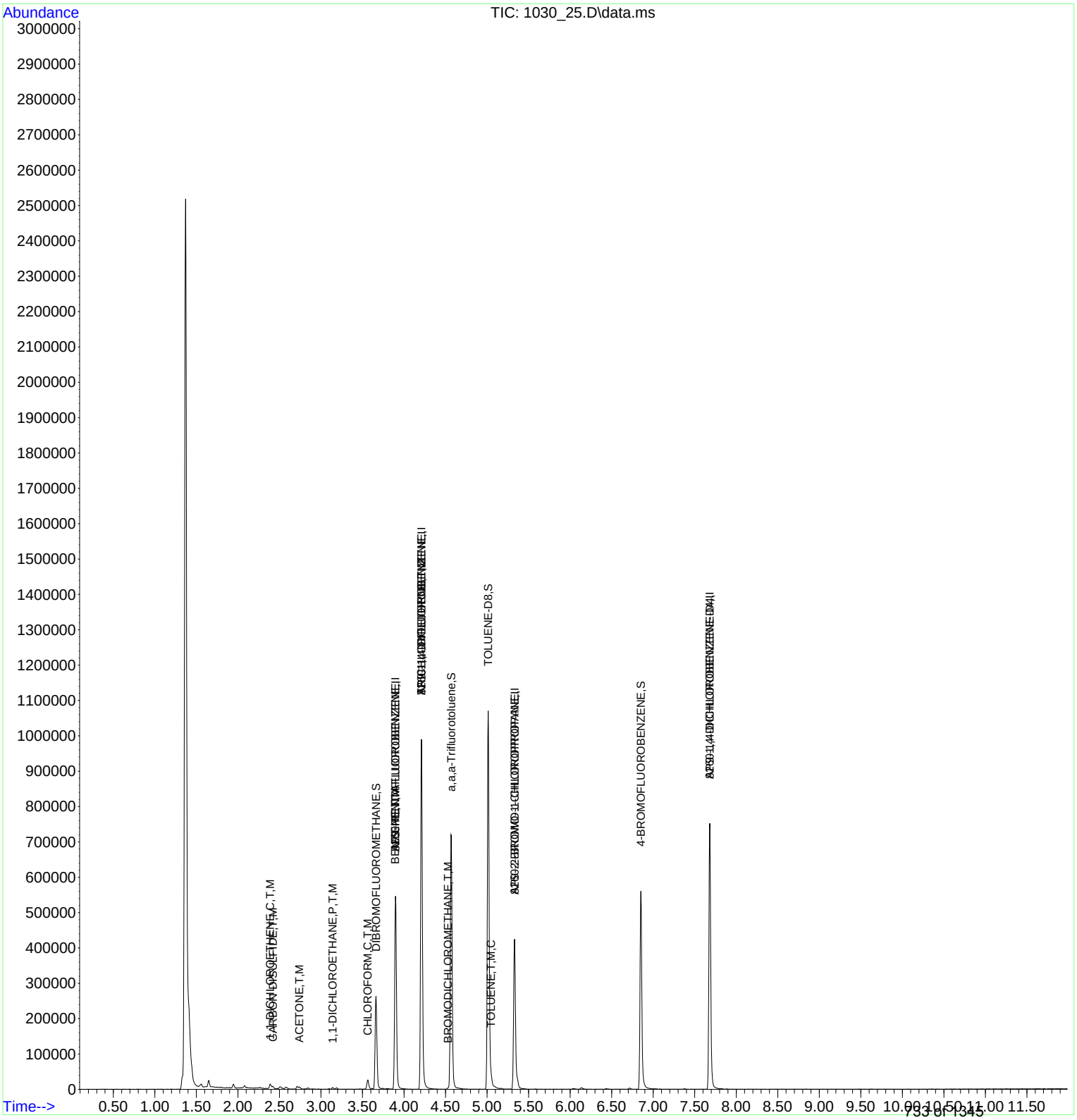
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	261840	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	488032	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	78791	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	178769	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	261840	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	488032	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	78791	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	178769	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	134434	40.9109780 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.28%		
46) a,a,a-Trifluorotoluene	4.569	146	248697	40.9260007 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.32%		
50) TOLUENE-D8	5.013	98	618616	39.5703857 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.93%		
68) 4-BROMOFLUOROBENZENE	6.852	95	199837	39.1240067 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.81%		
Target Compounds					Qvalue
14) 1,1-DICHLOROETHENE	2.389	61	6439	0.9315361 ppb	96
16) ACETONE	2.740	43	6951	5.5061313 ppb	99
18) CARBON DISULFIDE	2.422	76	6622	0.4157048 ppb #	93
24) 1,1-DICHLOROETHANE	3.142	63	3785	0.3948756 ppb	99
32) CHLOROFORM	3.563	83	16531	2.0517533 ppb	99
39) BENZENE	3.894	78	15054	0.6913407 ppb #	66
42) TRICHLOROETHENE	4.209	130	59675	12.5975873 ppb	97
45) BROMODICHLOROMETHANE	4.531	83	2896	0.5009326 ppb #	94
51) TOLUENE	5.048	91	13293	0.5715614 ppb	98

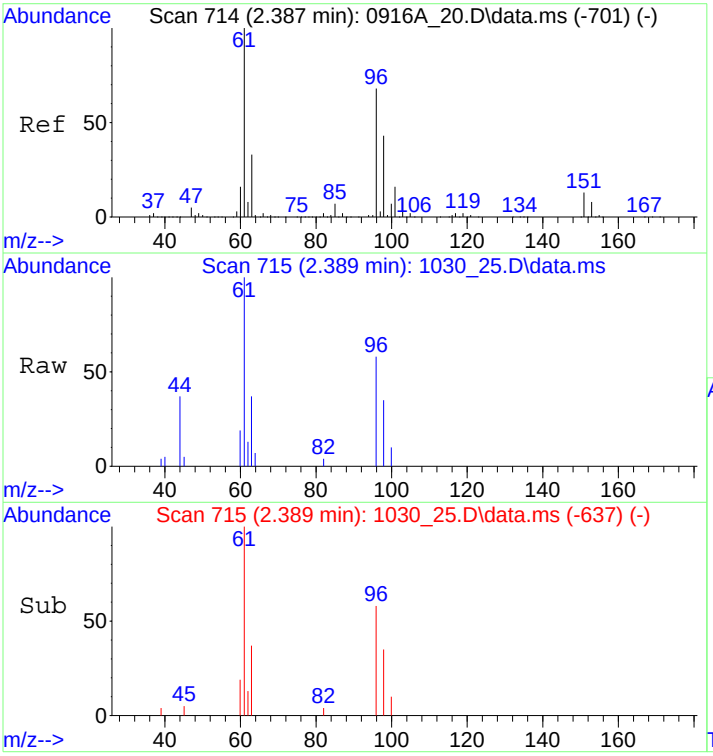
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\103014\
Data File : 1030 25.D
Acq On : 30 Oct 2014 11:44 pm
Operator : 644
Sample : L729802-08 1x WG750823 V8260
Misc : water SSURR14I25028
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:49:50 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

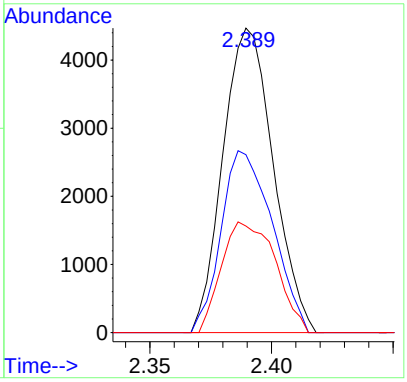


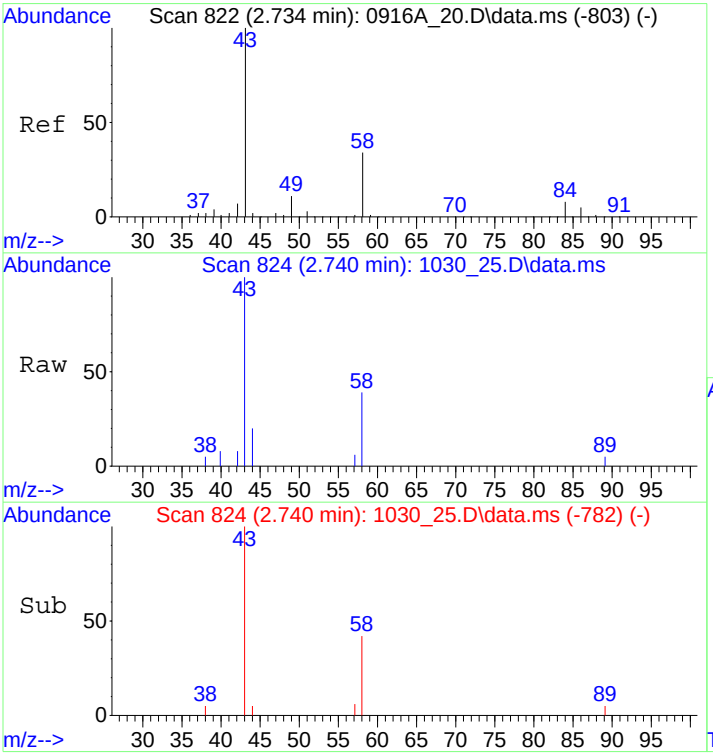


#14
1,1-DICHLOROETHENE
Concen: 0.9315361 ppb
RT: 2.389 min Scan# 715
Delta R.T. -0.000 min
Lab File: 1030 25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 61 Resp: 6439

Ion	Ratio	Lower	Upper
61	100		
96	60.5	51.4	77.2
98	38.9	32.2	48.2

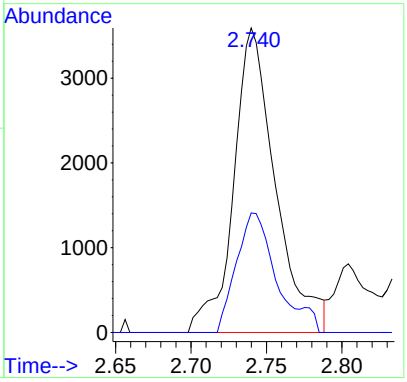


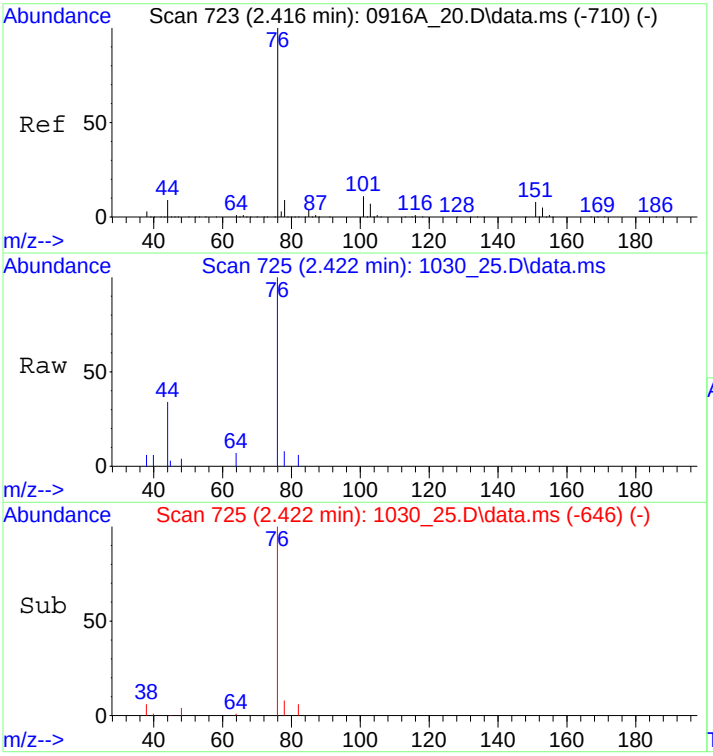


#16
ACETONE
Concen: 5.5061313 ppb
RT: 2.740 min Scan# 824
Delta R.T. 0.004 min
Lab File: 1030_25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 43 Resp: 6951

Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.0	42.0

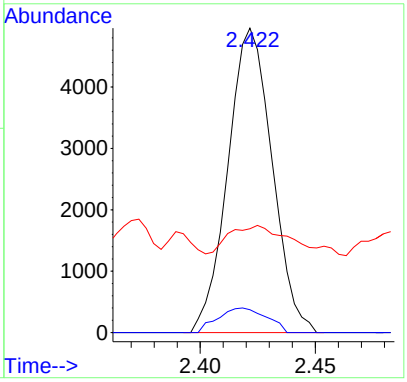


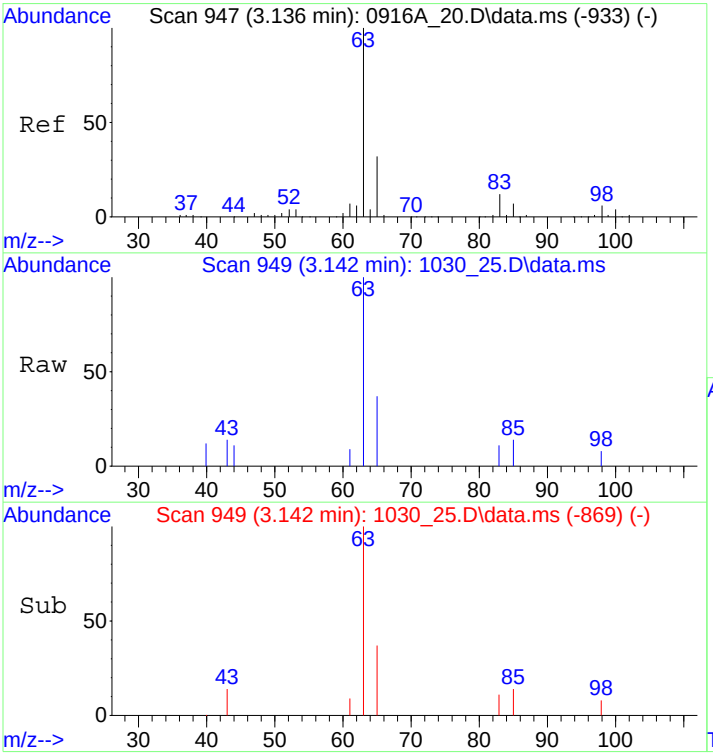


#18
CARBON DISULFIDE
Concen: 0.4157048 ppb
RT: 2.422 min Scan# 725
Delta R.T. 0.003 min
Lab File: 1030 25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 76 Resp: 6622

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.8	11.6
44	13.9	7.8	11.6#

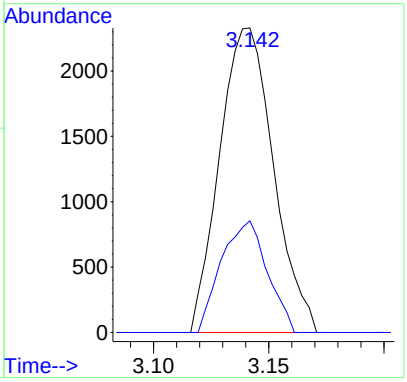


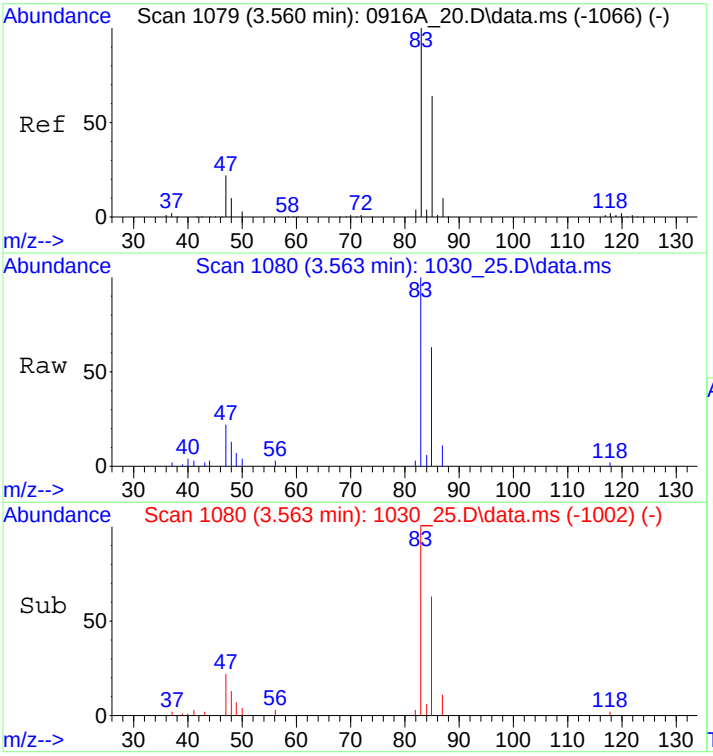


#24
1,1-DICHLOROETHANE
Concen: 0.3948756 ppb
RT: 3.142 min Scan# 949
Delta R.T. 0.006 min
Lab File: 1030_25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 63 Resp: 3785

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.4	38.2

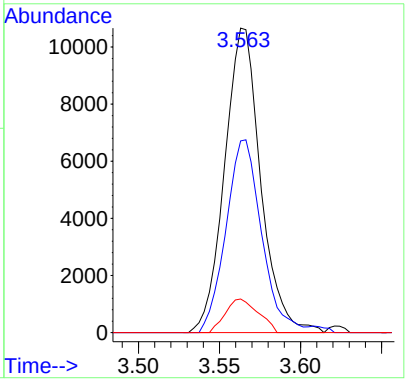


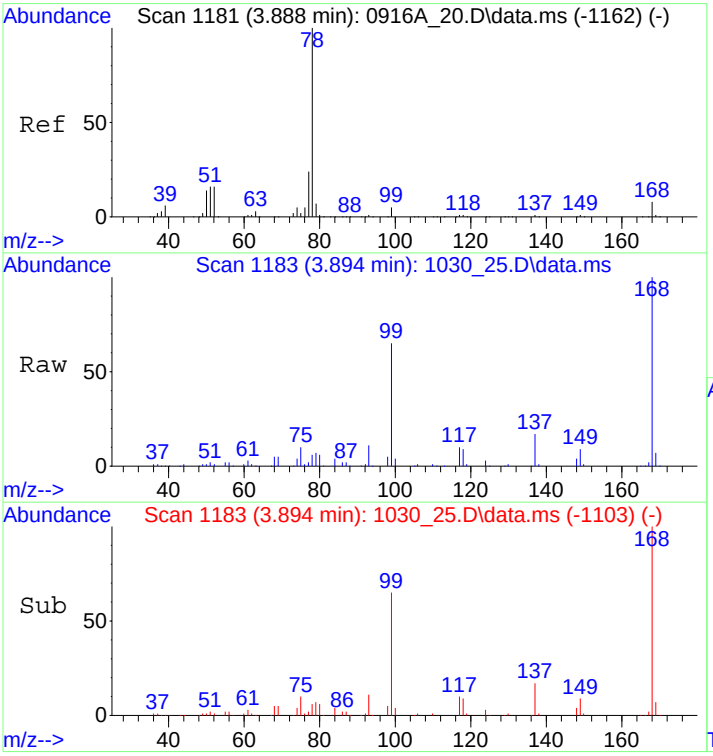


#32
CHLOROFORM
Concen: 2.0517533 ppb
RT: 3.563 min Scan# 1080
Delta R.T. -0.000 min
Lab File: 1030 25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 83 Resp: 16531

Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.6	76.0
87	10.0	8.2	12.2

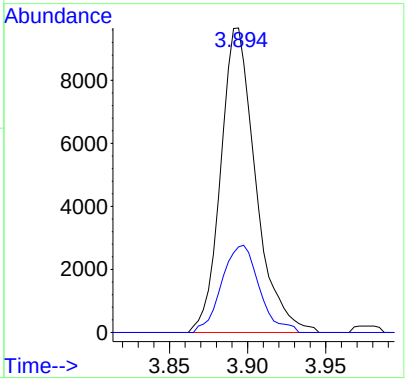


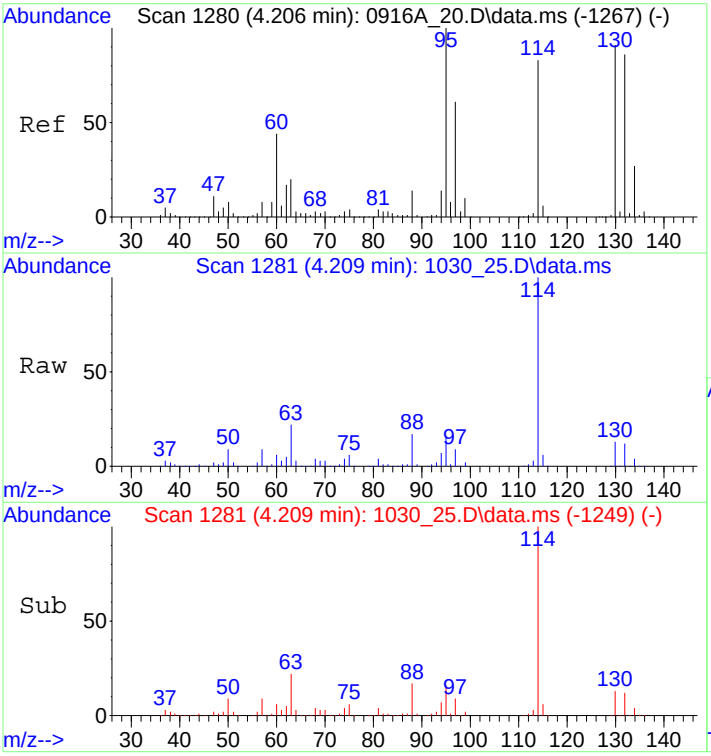


#39
BENZENE
Concen: 0.6913407 ppb
RT: 3.894 min Scan# 1183
Delta R.T. 0.006 min
Lab File: 1030_25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 78 Resp: 15054

Ion	Ratio	Lower	Upper
78	100		
51	30.7	13.0	19.4#

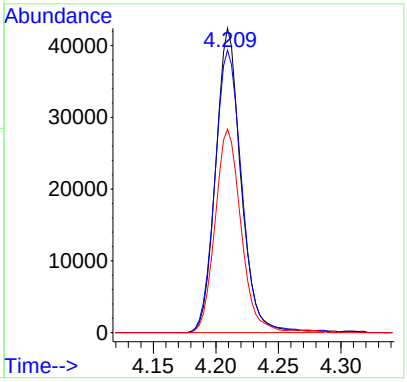


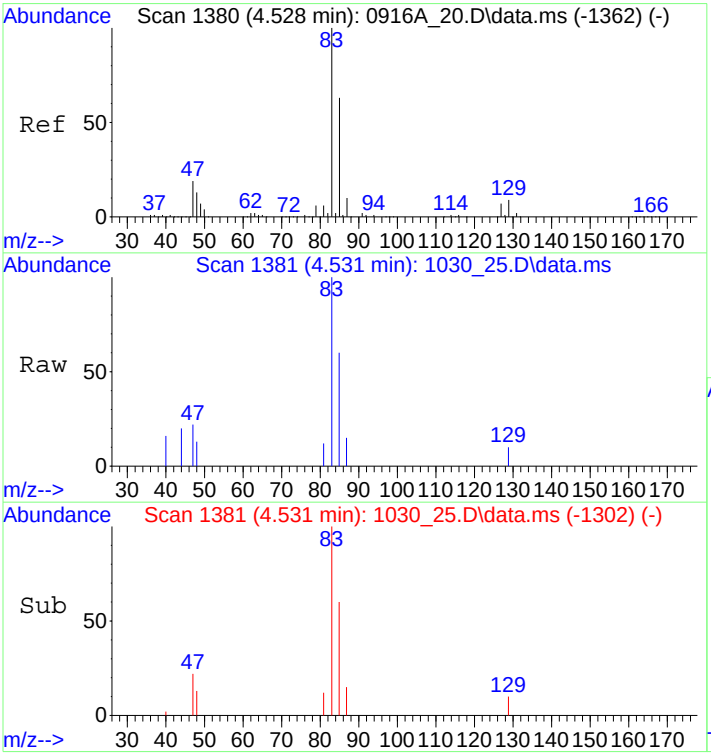


#42
TRICHLOROETHENE
Concen: 12.5975873 ppb
RT: 4.209 min Scan# 1281
Delta R.T. 0.003 min
Lab File: 1030 25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion:130 Resp: 59675

Ion	Ratio	Lower	Upper
130	100		
132	98.5	75.8	113.6
97	68.2	55.5	83.3

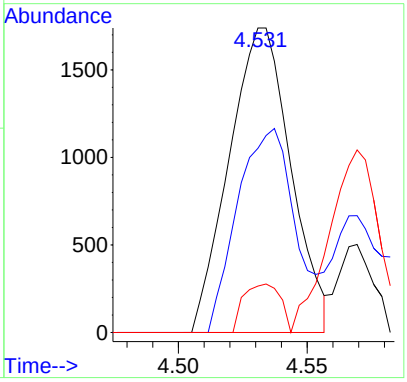


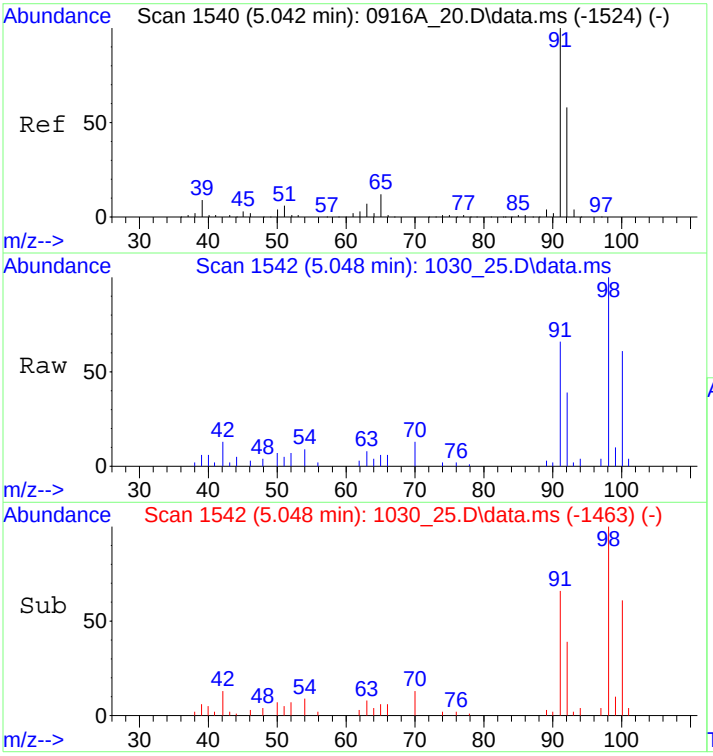


#45
BROMODICHLOROMETHANE
Concen: 0.5009326 ppb
RT: 4.531 min Scan# 1381
Delta R.T. 0.003 min
Lab File: 1030_25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 83 Resp: 2896

Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.5	77.3
87	0.0	8.2	12.2#

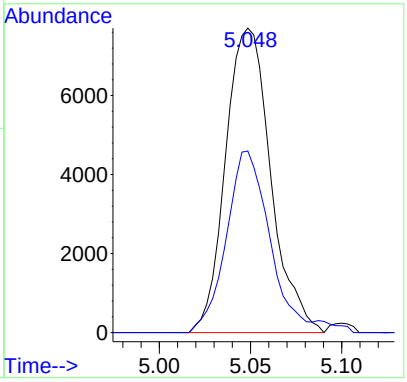




#51
TOLUENE
Concen: 0.5715614 ppb
RT: 5.048 min Scan# 1542
Delta R.T. 0.003 min
Lab File: 1030 25.D
Acq: 30 Oct 2014 11:44 pm

Tgt Ion: 91 Resp: 13293

Ion	Ratio	Lower	Upper
91	100		
92	56.8	46.6	69.8



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Ben Baker
Date Released : 11/2/2014 11:44:25 AM

Run ID : 110114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1101_01	INSTBLK	V821I16N						1	1	11/01/14 0909	"soil SSURR14I25028"
2	1101_01T	INSTBLK VMS								1	11/1/14 0909	
3	1101_02	ICV VMS 25 PPB 14K01969	V821I16N						1	1	11/01/14 0931	"soil SSURR14I25028"
4	1101_03	LCS	V821I16N	WG752032	V8260	SS			1	1	11/01/14 1005	"soil SSURR14I25028/SPK14K01970"
5	1101_04	LCSD	V821I16N	WG752032	V8260	SS			1	1	11/01/14 1027	"soil SSURR14I25028/SPK14K01970"
6	1101_05	MS	V821I16N	WG752032	V8260	SS			1	1	11/01/14 1058	"soil SSURR14I25028/SPK14K01970"
7	1101_06	MSD	V821I16N	WG752032	V8260	SS			1	1	11/01/14 1120	"soil SSURR14I25028/SPK14K01970"
8	1101_07	INSTBLK	V821I16N						1	1	11/01/14 1142	"soil SSURR14I25028"
9	1101_08	INSTBLK	V821I16N						1	1	11/01/14 1204	"soil SSURR14I25028"
10	1101_09	BLANK	V821I16N	WG752032	V8260	SS			1	1	11/01/14 1226	"soil SSURR14I25028"
11	1101_10	L729802-03	V821I16N	WG752032	V8260	SS	URSTAZ	NM	1	1	11/01/14 1258	"soil SSURR14I25028"
12	1101_11	L729528-01	V821I16N	WG752032	V8260	SS	FTNFAR	AR	5000	5000	11/01/14 1321	"soil SSURR14I25028"
13	1101_12	L729528-02	V821I16N	WG752032	V8260	SS	FTNFAR	AR	10000	10000	11/01/14 1343	"soil SSURR14I25028"
14	1101_13	DNR L729528-03	V821I16N	WG752032					100	100	11/01/14 1405	"soil SSURR14I25028"
15	1101_14	L729528-05	V821I16N	WG752032	V8260	SS	FTNFAR	AR	2000	2000	11/01/14 1427	"soil SSURR14I25028"
16	1101_15	L729528-06	V821I16N	WG752032	V8260	SS	FTNFAR	AR	2000	2000	11/01/14 1449	"soil SSURR14I25028"
17	1101_16	L729528-07	V821I16N	WG752032	V8260	SS	FTNFAR	AR	1000	1000	11/01/14 1511	"soil SSURR14I25028"
18	1101_17	L729528-10	V821I16N	WG752032	V8260	SS	FTNFAR	AR	1000	1000	11/01/14 1533	"soil SSURR14I25028"
19	1101_18	L729528-11	V821I16N	WG752032	V8260	SS	FTNFAR	AR	5	5	11/01/14 1555	"soil SSURR14I25028"
20	1101_19	L729547-02	V821I16N	WG752032	V8260	SS	SME	TN	1	0.84	11/01/14 1617	"soil SSURR14I25028"
21	1101_20	L729568-04	V821I16N	WG752032	V8260	SS	URSTAZ	NM	1	0.76	11/01/14 1639	"soil SSURR14I25028"
22	1101_21	L729691-01	V821I16N	WG752032	V8260	SS	SAFENTN	TN	100	100	11/01/14 1701	"soil SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Ben Baker
Date Released : 11/2/2014 11:44:25 AM

Run ID : 110114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1101_22	L729802-01	V821I16N	WG752032	V8260	SS	URSTAZ	NM	1	0.89	11/01/14 1723	"soil SSURR14I25028"
24	1101_23	L729802-04	V821I16N	WG752032	V8260	SS	URSTAZ	NM	1	0.89	11/01/14 1745	"soil SSURR14I25028"
25	1101_24	L729802-05	V821I16N	WG752032	V8260	SS	URSTAZ	NM	1	0.79	11/01/14 1807	"soil SSURR14I25028"
26	1101_25	L729845-03	V821I16N	WG752032	V8260	SS	TERRASATX	TX	2125	2125	11/01/14 1829	"soil SSURR14I25028"
27	1101_26	L729845-05	V821I16N	WG752032	V8260	SS	TERRASATX	TX	17.75	17.75	11/01/14 1851	"soil SSURR14I25028"
28	1101_27	L729845-07	V821I16N	WG752032	V8260	SS	TERRASATX	TX	77	77	11/01/14 1913	"soil SSURR14I25028"
29	1101_28	L729878-03	V821I16N	WG752032	V8260	SS	ENCANADCO	WY	5	5	11/01/14 2028	"soil SSURR14I25028"
30	1101_29	INSTBLK	V821I16N						1	1	11/01/14 2050	"water SSURR14I25028"
31	1101_29T	INSTBLK								1	11/1/14 2050	
32	1101_30	ICV VMS 25 PPB 14K01969	V821I16N						1	1	11/01/14 2112	"water SSURR14I25028"
33	1101_31	LCS	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2150	"water SSURR14I25028/SPK14K01970"
34	1101_32	LCSD	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2212	"water SSURR14I25028/SPK14K01970"
35	1101_33	MS	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2241	"water SSURR14I25028/SPK14K01970"
36	1101_34	MSD	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2303	"water SSURR14I25028/SPK14K01970"
37	1101_35	MS	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2325	"water SSURR14I25028/SPK14K01970"
38	1101_36	MSD	V821I16N	WG751360	V8260	GW			1	1	11/01/14 2347	"water SSURR14I25028/SPK14K01970"
39	1101_37	INSTBLK	V821I16N						1	1	11/02/14 0009	"water SSURR14I25028"
40	1101_38	INSTBLK	V821I16N						1	1	11/02/14 0031	"water SSURR14I25028"
41	1101_39	BLANK	V821I16N	WG751360	V8260	GW			1	1	11/02/14 0114	"water SSURR14I25028"
42	1101_41	L730147-29 (TB)	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0119	"water SSURR14I25028"
43	1101_42	L730147-32	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0141	"water SSURR14I25028"
44	1101_40	DNR L730105-01	V821I16N	WG751360					1	1	11/02/14 0156	"water SSURR14I25028"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Ben Baker
Date Released : 11/2/2014 11:44:25 AM

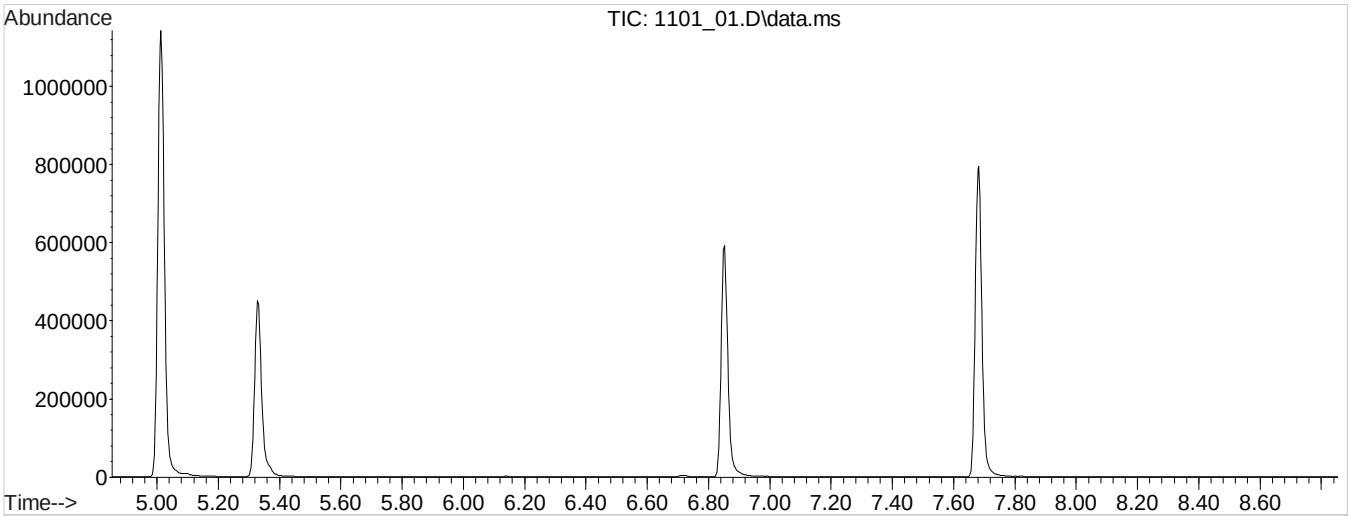
Run ID : 110114
Signature : _____

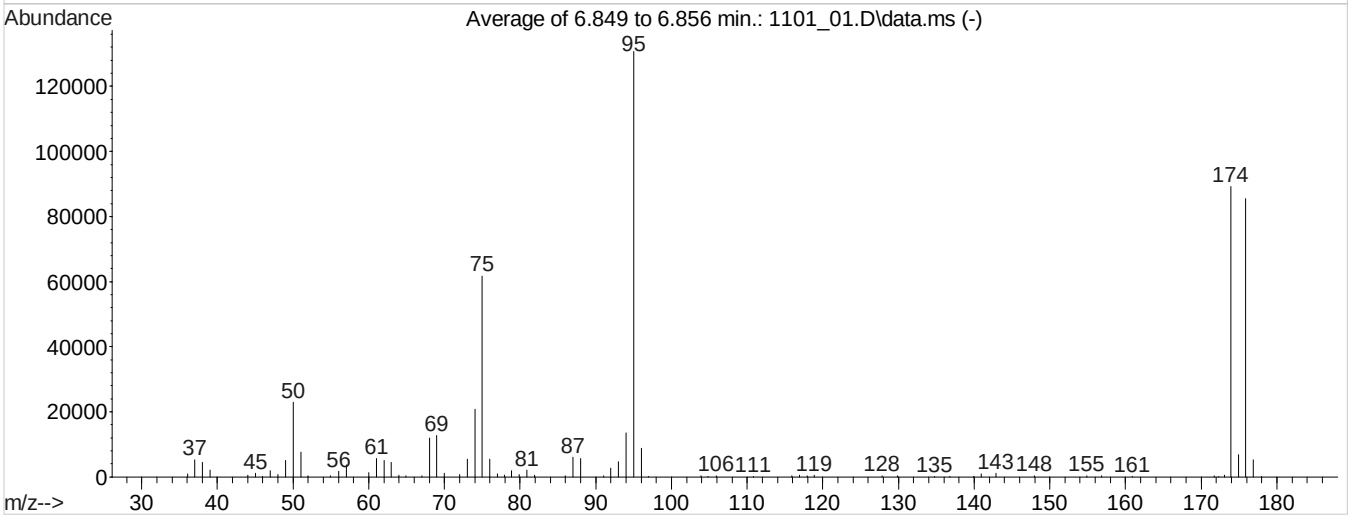
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
45	1101_43	L730147-25	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0203	"water SSURR14I25028"
46	1101_44	L730105-02	V821I16N	WG751360	V8260	GW	MACTECLEX	KY	1	1	11/02/14 0225	"water SSURR14I25028"
47	1101_45	L730105-03	V821I16N	WG751360	V8260	GW	MACTECLEX	KY	1	1	11/02/14 0247	"water SSURR14I25028"
48	1101_46	L730105-04	V821I16N	WG751360	V8260	GW	MACTECLEX	KY	1	1	11/02/14 0310	"water SSURR14I25028"
49	1101_47	L730105-05	V821I16N	WG751360	V8260	GW	MACTECLEX	KY	50	50	11/02/14 0332	"water SSURR14I25028"
50	1101_48	L730147-23	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0354	"water SSURR14I25028"
51	1101_49	DNR L730147-24	V821I16N	WG751360					200	200	11/02/14 0416	"water SSURR14I25028"
52	1101_50	L730147-26	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0438	"water SSURR14I25028"
53	1101_51	L730147-27	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0500	"water SSURR14I25028"
54	1101_52	L730147-30	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0523	"water SSURR14I25028"
55	1101_53	L730147-31	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0609	"water SSURR14I25028"
56	1101_54	L730147-33	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0632	"water SSURR14I25028"
57	1101_55	L730147-34	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0654	"water SSURR14I25028"
58	1101_56	L730147-35	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0716	"water SSURR14I25028"
59	1101_57	L730147-36	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0738	"water SSURR14I25028"
60	1101_58	L730147-37	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0800	"water SSURR14I25028"
61	1101_59	L730147-38	V821I16N	WG751360	V8260	GW	URSTAZ	NM	1	1	11/02/14 0822	"water SSURR14I25028"

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 01.D
Acq On : 1 Nov 2014 9:09 am
Operator : 644
Sample : INSTBLK VMS
Misc : water SSURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I16N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Wed Sep 17 10:39:25 2014





AutoFind: Scans 2102, 2103, 2104; Background Corrected with Scan 2090

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	22912	PASS
75	95	30	60	47.2	61773	PASS
95	95	100	100	100.0	130771	PASS
96	95	5	9	6.7	8784	PASS
173	174	0.00	2	0.5	440	PASS
174	95	50	150	68.3	89296	PASS
175	174	5	9	7.7	6877	PASS
176	174	95	101	95.7	85461	PASS
177	176	5	9	6.1	5249	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 02.D
Acq On : 1 Nov 2014 9:31 am
Operator : 644
Sample : ICV VMS 25 ppb 14K01969
Misc : soil SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:02 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	338122	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	606491	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	104528	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	257116	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	338122	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	606491	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	104528	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	257116	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	157657	37.1540843 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 92.89%		
46) a,a,a-Trifluorotoluene	4.566	146	313867	41.5621836 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.91%		
50) TOLUENE-D8	5.013	98	778430	40.0675363 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.17%		
68) 4-BROMOFLUOROBENZENE	6.849	95	265610	39.1972697 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.99%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8681058	No Calib	
3) PROPENE	1.447	41	34563	21.8578657 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	133718	25.8577561 ppb	100
5) CHLOROMETHANE	1.631	50	218992	26.6019045 ppb	99
6) VINYL CHLORIDE	1.685	62	216108	24.4559168 ppb	99
7) 1,3-BUTADIENE	1.698	39	146460	22.6307683 ppb	98
8) BROMOMETHANE	1.907	94	133742	33.2843398 ppb	99
9) CHLOROETHANE	1.988	66	41972	29.4985597 ppb	97
10) TRICHLOROFLUOROMETHANE	2.081	101	200602	26.7148453 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	287925	25.4627588 ppb	100
12) ETHYL ETHER	2.261	59	129191	25.4339287 ppb	96
13) ACROLEIN	2.573	56	127253	143.8747840 ppb	99
14) 1,1-DICHLOROETHENE	2.386	61	231759	25.9645290 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.402	101	153052	26.3522516 ppb	98
16) ACETONE	2.733	43	198415	121.7128241 ppb	99
17) IODOMETHANE	2.476	142	1063350	144.6284955 ppb	100
18) CARBON DISULFIDE	2.415	76	573032	27.8571863 ppb	100
19) METHYLENE CHLORIDE	2.711	84	154537	22.6880649 ppb	99
20) ACRYLONITRILE	3.158	53	279854	138.6027528 ppb	99
21) n-Hexane	2.840	56	186220	24.6208446 ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.804	96	149731	23.9820269 ppb	100
23) METHYL TERT-BUTYL ETHER	2.856	73	424276	24.0212022 ppb	96
24) 1,1-DICHLOROETHANE	3.135	63	305881	24.7120903 ppb	100
25) VINYL ACETATE	3.251	43	1410368	142.8277185 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	568804	24.6154227 ppb	98
27) 2,2-Dichloropropane	3.483	77	231800	25.8340653 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.425	96	169604	26.0878039 ppb	96
29) 2-BUTANONE (MEK)	3.721	72	99401	137.7815287 ppb	97
30) BROMOCHLOROMETHANE	3.534	130	83591	26.2493708 ppb	96
31) TETRAHYDROFURAN	3.663	42	52772	26.6876460 ppb	90
32) CHLOROFORM	3.560	83	263184	25.2957786 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.688	97	219550	25.8124078 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	205738	27.3439781 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 02.D
Acq On : 1 Nov 2014 9:31 am
Operator : 644
Sample : ICV VMS 25 ppb 14K01969
Misc : soil SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:02 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	266093	27.1623568 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	908812	27.4609350 ppb		96
38) HEPTANE	3.843	43	394329	29.6583680 ppb		97
39) BENZENE	3.888	78	756476	26.9028275 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	193257	26.0940616 ppb		99
42) TRICHLOROETHENE	4.206	130	159743	27.1356808 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	138262	28.1078834 ppb		100
44) DIBROMOMETHANE	4.450	93	81100	27.2028474 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	202968	28.2509001 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	103556	61.4967094 ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.897	75	279252	29.4978121 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.254	58	332328	145.7461510 ppb		99
51) TOLUENE	5.045	91	765202	26.4752389 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	53347	28.7327982 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.393	97	132048	26.8373428 ppb		98
55) TETRACHLOROETHENE	5.296	164	121588	28.5618632 ppb		96
56) 1,3-Dichloropropane	5.573	76	262651	26.6850417 ppb		100
57) 2-HEXANONE	5.785	58	325231	153.1184407 ppb		96
58) CHLORODIBROMOMETHANE	5.518	129	123824	28.5767290 ppb		97
59) 1,2-DIBROMOETHANE	5.682	107	122443	28.5220523 ppb		99
60) CHLOROBENZENE	6.023	112	443520	26.3081965 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	126968	28.6156118 ppb		98
62) ETHYLBENZENE	6.023	106	259007	27.8939634 ppb		97
63) M&P-XYLENE	6.119	106	643519	56.3352551 ppb		99
64) O-XYLENE	6.418	106	292701	26.9538535 ppb		98
65) STYRENE	6.454	104	477663	27.5742121 ppb		100
66) Bromoform	6.486	173	72061	31.0552200 ppb		98
67) Isopropylbenzene	6.634	105	802790	27.6660551 ppb		100
69) Bromobenzene	6.933	77	362635	26.7751089 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	184570	28.9043589 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	48258	27.9546910 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	47249	29.5763672 ppb	#	92
73) n-Propylbenzene	6.933	91	997739	27.7001766 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	782586	27.5678339 ppb		99
75) 2-Chlorotoluene	7.061	126	180098	28.0514136 ppb		93
76) 4-Chlorotoluene	7.180	91	568218	27.8759174 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	672789	27.3795957 ppb		99
78) tert-Butylbenzene	7.309	119	553231	27.7486286 ppb		98
79) 1,2,4-Trimethylbenzene	7.360	105	653640	27.9729179 ppb		99
80) sec-Butylbenzene	7.444	105	916607	27.6240490 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	317452	28.4637567 ppb		98
82) p-Isopropyltoluene	7.544	119	725773	28.4339613 ppb		99
83) DICYCLOPENTADIENE	7.544	66	926100	27.5887524 ppb		99
85) 1,4-DICHLOROBENZENE	7.691	146	326439	26.3930657 ppb		92
86) 1,2,3-TRIMETHYLBENZENE	7.695	105	665670	25.9255585 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	294291	27.2996832 ppb		99
88) n-Butylbenzene	7.872	91	714819	28.2910356 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	25287	29.1126384 ppb		97
90) 1,2,4-Trichlorobenzene	9.190	180	171664	29.4103492 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	96441	27.4346298 ppb		97
92) Naphthalene	9.453	128	366621	24.6826420 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	143424	27.7751914 ppb		98
94) 1-Methylnaphthalene	10.325	142	95794	No Calib		
95) 2-Methylnaphthalene	10.453	142	90552	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 02.D
Acq On : 1 Nov 2014 9:31 am
Operator : 644
Sample : ICV VMS 25 ppb 14K01969
Misc : soil SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:02 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

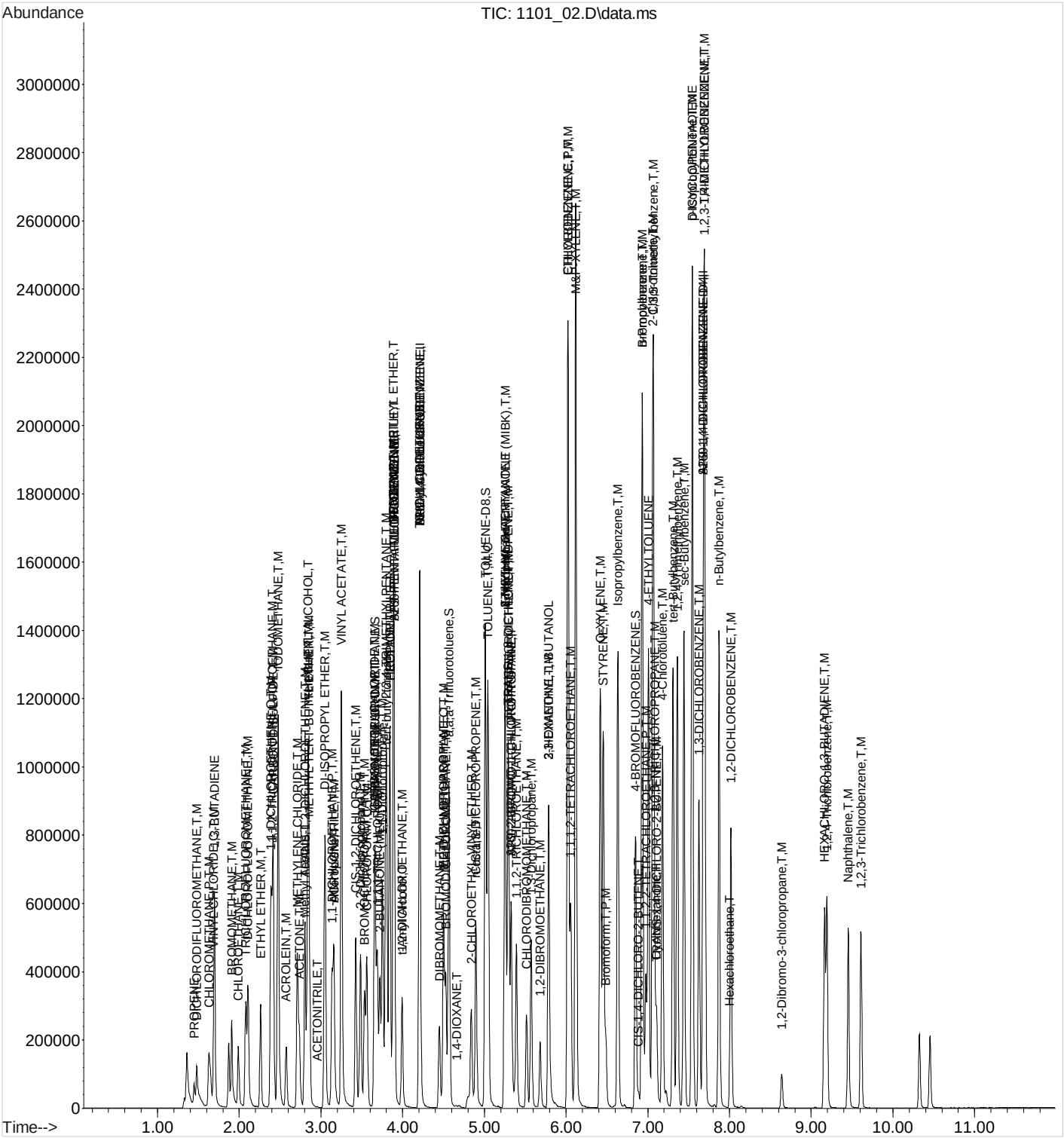
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.798	43	8303	2.2452086 ppb #	90
101)	ACETONITRILE	2.955	41	619	0.8540377 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.843	59	1118	1.4767303 ppb #	1
104)	chloroprene	3.158	53	279854	46.7457872 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.190	59	851	N.D.	
106)	PROPIONITRILE	3.843	54	3026	3.7944035 ppb #	1
107)	Ethyl Acetate	3.621	43	508	N.D.	
108)	METHACRYLONITRILE	3.894	67	1186	0.4800808 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.804	59	822	0.3393113 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.991	59	776	1.6706880 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	13310	0.7809645 ppb #	66
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	10051	0.8027041 ppb #	53
117)	2-nitropropane	5.254	43	827124	740.9102390 ppb #	40
118)	METHYL METHACRYLATE	4.499	41	91633	17.3538847 ppb #	16
119)	1,4-DIOXANE	4.659	88	1263	19.9854539 ppb #	27
120)	n-octane	4.894	85	3347	0.5600632 ppb #	26
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	107400	274.0772730 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	5057	0.6495837 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2240	1.4036932 ppb #	29
125)	Cyclohexanone	7.103	55	844	0.6351424 ppb #	23
126)	PENTACHLOROETHANE	7.364	117	22466	No Calib #	
127)	Hexachloroethane	8.000	117	1366	0.4183780 ppb #	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 02.D
Acq On : 1 Nov 2014 9:31 am
Operator : 644
Sample : ICV VMS 25 ppb 14K01969
Misc : soil SSURR14I25028
ALS Vial : 2 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:02 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 03.D
Acq On : 1 Nov 2014 10:05 am
Operator : 644
Sample : LCS 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.894	168	322792	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	584335	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	98956	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	245922	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.894	168	322792	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	584335	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	98956	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	245922	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	163969	40.4767579 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.19%		
46) a,a,a-Trifluorotoluene	4.566	146	309449	42.5308678 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.33%		
50) TOLUENE-D8	5.010	98	750000	40.0679200 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.17%		
68) 4-BROMOFLUOROBENZENE	6.849	95	254920	39.7379825 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.34%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8126550	No Calib	
3) PROPENE	1.451	41	33884	22.4694459 ppb	100
4) DICHLORODIFLUOROMETHANE	1.480	85	134377	27.2192761 ppb #	83
5) CHLOROMETHANE	1.631	50	224411	28.5645429 ppb	99
6) VINYL CHLORIDE	1.689	62	226041	26.7948290 ppb	99
7) 1,3-BUTADIENE	1.698	39	146070	23.6424219 ppb	96
8) BROMOMETHANE	1.907	94	130538	34.0680614 ppb	99
9) CHLOROETHANE	1.988	66	43871	32.2975328 ppb	98
10) TRICHLOROFLUOROMETHANE	2.081	101	210823	29.4093930 ppb	98
11) DICHLOROFLUOROMETHANE	2.107	67	302838	28.0535041 ppb	100
12) ETHYL ETHER	2.261	59	133267	27.4823886 ppb	97
13) ACROLEIN	2.573	56	127040	150.4554093 ppb	97
14) 1,1-DICHLOROETHENE	2.386	61	239536	28.1102883 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.402	101	164144	29.6042729 ppb	99
16) ACETONE	2.737	43	195574	125.6676874 ppb	100
17) IODOMETHANE	2.476	142	1121374	159.7639472 ppb	99
18) CARBON DISULFIDE	2.419	76	596188	30.3593362 ppb	99
19) METHYLENE CHLORIDE	2.711	84	159133	24.4723624 ppb	99
20) ACRYLONITRILE	3.158	53	302645	157.0089853 ppb	99
21) n-Hexane	2.840	56	198218	27.4517719 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	161475	27.0913172 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	441474	26.1819550 ppb	94
24) 1,1-DICHLOROETHANE	3.136	63	323001	27.3345239 ppb	100
25) VINYL ACETATE	3.248	43	1412517	149.8388403 ppb	99
26) DI-ISOPROPYL ETHER	3.049	45	587693	26.6407128 ppb	99
27) 2,2-Dichloropropane	3.483	77	244431	28.5355516 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.425	96	174087	28.0490682 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	95189	138.2094301 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	87665	28.8360839 ppb	93
31) TETRAHYDROFURAN	3.663	42	52604	27.8660974 ppb	94
32) CHLOROFORM	3.560	83	270967	27.2807080 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	223913	27.5756052 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	210816	29.3495481 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 03.D
Acq On : 1 Nov 2014 10:05 am
Operator : 644
Sample : LCS 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	264791	28.3131302 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.798	57	916062	28.9945786 ppb		96
38)	HEPTANE	3.843	43	382751	30.1547361 ppb		99
39)	BENZENE	3.888	78	729853	27.1887247 ppb		99
40)	1,2-DICHLOROETHANE	3.994	62	187314	26.4927691 ppb		98
42)	TRICHLOROETHENE	4.206	130	158058	27.8674884 ppb		99
43)	1,2-DICHLOROPROPANE	4.499	62	132513	27.9605851 ppb		98
44)	DIBROMOMETHANE	4.447	93	77907	27.1226708 ppb		97
45)	BROMODICHLOROMETHANE	4.528	83	196471	28.3834794 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	4.840	63	98200	60.5271966 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	270660	29.6742705 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.251	58	328843	149.6860136 ppb		98
51)	TOLUENE	5.045	91	756509	27.1669167 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	53390	29.8462864 ppb		96
54)	1,1,2-TRICHLOROETHANE	5.393	97	130327	27.9790261 ppb		98
55)	TETRACHLOROETHENE	5.296	164	119656	29.6907255 ppb		95
56)	1,3-Dichloropropane	5.573	76	257119	27.5939267 ppb		100
57)	2-HEXANONE	5.785	58	323362	160.8107416 ppb		99
58)	CHLORODIBROMOMETHANE	5.518	129	121472	29.6124525 ppb		98
59)	1,2-DIBROMOETHANE	5.682	107	121635	29.9292530 ppb		97
60)	CHLOROBENZENE	6.023	112	437848	27.4341650 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	124373	29.6091115 ppb		98
62)	ETHYLBENZENE	6.023	106	252462	28.7200540 ppb		98
63)	M&P-XYLENE	6.119	106	628337	58.1034653 ppb		99
64)	O-XYLENE	6.418	106	288999	28.1114667 ppb		97
65)	STYRENE	6.454	104	464204	28.3061561 ppb		99
66)	Bromoform	6.486	173	70375	32.0363657 ppb		99
67)	Isopropylbenzene	6.634	105	781572	28.4514749 ppb		100
69)	Bromobenzene	6.933	77	347628	27.1123266 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	6.975	83	184924	30.5904607 ppb	#	99
71)	1,2,3-TRICHLOROPROPANE	7.084	110	47138	28.8434388 ppb		96
72)	TRANS-1,4-DICHLORO-2-B...	7.106	53	47465	31.3845714 ppb	#	93
73)	n-Propylbenzene	6.933	91	985452	28.8995828 ppb		99
74)	4-ETHYLTOLUENE	7.007	105	785344	29.2227450 ppb		99
75)	2-Chlorotoluene	7.061	126	175949	28.9483072 ppb		93
76)	4-Chlorotoluene	7.180	91	551183	28.5627819 ppb		98
77)	1,3,5-Trimethylbenzene	7.068	105	652878	28.0653649 ppb		98
78)	tert-Butylbenzene	7.309	119	542699	28.7530915 ppb		99
79)	1,2,4-Trimethylbenzene	7.360	105	642200	29.0308639 ppb		99
80)	sec-Butylbenzene	7.444	105	903125	28.7503105 ppb		99
81)	1,3-DICHLOROBENZENE	7.627	146	308694	29.2370027 ppb		99
82)	p-Isopropyltoluene	7.544	119	715516	29.6105462 ppb		99
83)	DICYCLOPENTADIENE	7.544	66	902455	28.3981626 ppb		100
85)	1,4-DICHLOROBENZENE	7.692	146	315030	26.6300164 ppb		91
86)	1,2,3-TRIMETHYLBENZENE	7.695	105	655514	26.6921052 ppb		99
87)	1,2-DICHLOROBENZENE	8.016	146	282893	27.4368689 ppb		99
88)	n-Butylbenzene	7.872	91	713092	29.5073388 ppb		98
89)	1,2-Dibromo-3-chloropr...	8.640	157	25541	30.7435402 ppb		99
90)	1,2,4-Trichlorobenzene	9.193	180	174006	31.1685715 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	98049	29.1616631 ppb		99
92)	Naphthalene	9.454	128	392123	27.2779140 ppb		98
93)	1,2,3-Trichlorobenzene	9.608	180	149568	30.2834701 ppb		99
94)	1-Methylnaphthalene	10.325	142	133105	No Calib		
95)	2-Methylnaphthalene	10.454	142	132235	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 03.D
Acq On : 1 Nov 2014 10:05 am
Operator : 644
Sample : LCS 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

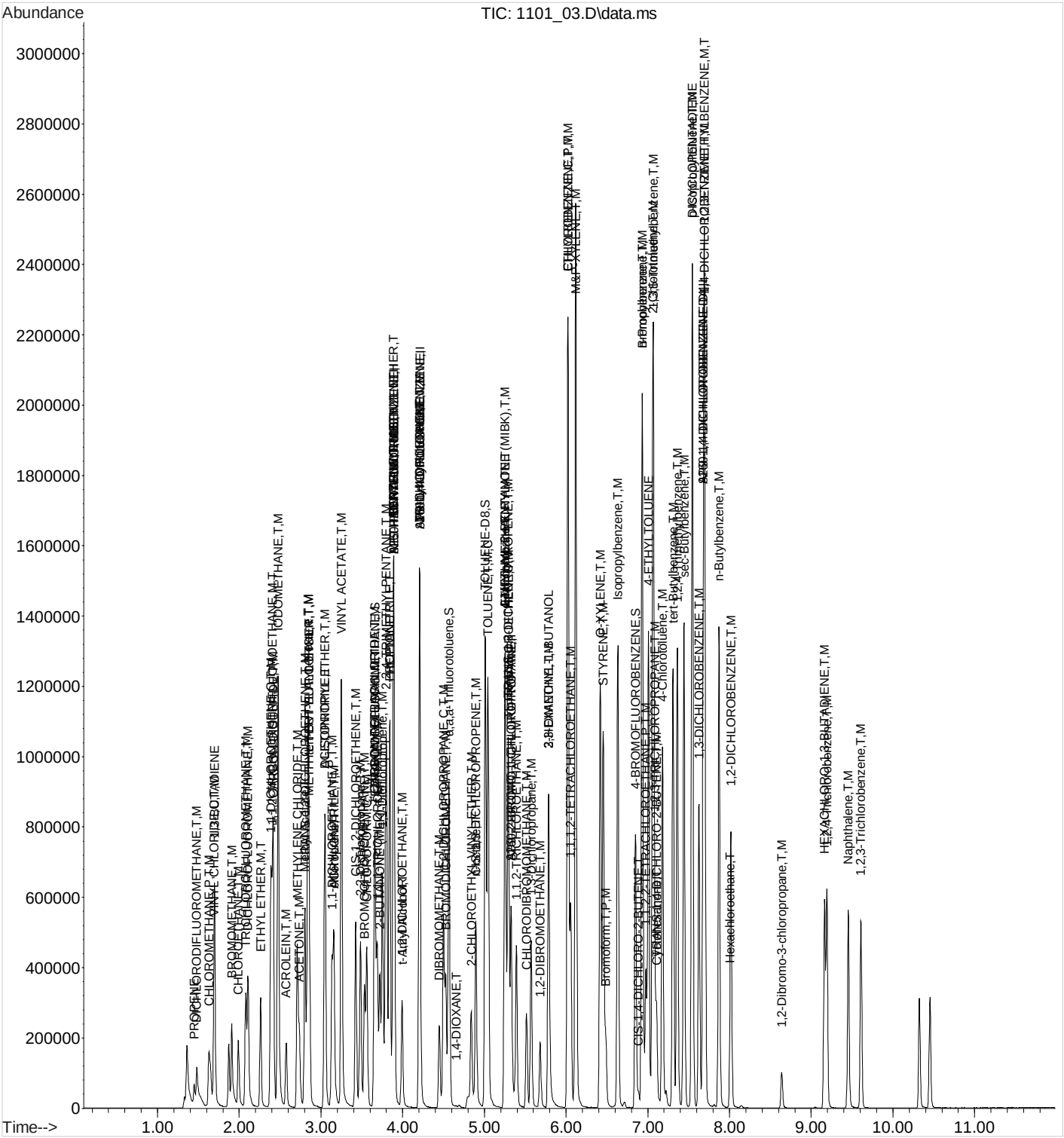
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	8373	2.3716654 ppb #	99
101)	ACETONITRILE	3.049	41	88065	127.2742140 ppb #	40
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.853	59	925	1.2798285 ppb #	1
104)	chloroprene	3.158	53	302645	52.9535558 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.193	59	963	N.D.	
106)	PROPIONITRILE	3.840	54	3240	4.2556927 ppb #	1
107)	Ethyl Acetate	3.615	43	780	N.D.	
108)	METHACRYLONITRILE	3.894	67	925	0.3922130 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.804	59	607	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.997	59	885	1.9958484 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12796	0.7864627 ppb #	68
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.206	83	10054	0.8333886 ppb #	49
117)	2-nitropropane	5.254	43	809443	752.5644622 ppb #	40
118)	METHYL METHACRYLATE	4.653	41	780	N.D.	
119)	1,4-DIOXANE	4.653	88	1095	17.9840394 ppb #	21
120)	n-octane	4.894	85	3417	0.5934563 ppb #	40
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	104990	278.0233288 ppb #	51
123)	ETHYL METHACRYLATE	5.254	69	5057	0.6861604 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	2497	1.6528492 ppb #	30
125)	Cyclohexanone	7.110	55	1057	0.8402222 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21961	No Calib #	
127)	Hexachloroethane	8.004	117	1035	0.3348490 ppb #	36

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 03.D
Acq On : 1 Nov 2014 10:05 am
Operator : 644
Sample : LCS 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 04.D
Acq On : 1 Nov 2014 10:27 am
Operator : 644
Sample : LCSD 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:36 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	320840	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	579771	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	102968	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	247930	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	320840	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	579771	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	102968	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	247930	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	148467	36.8729733 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 92.18%		
46) a,a,a-Trifluorotoluene	4.566	146	303861	42.0916097 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.23%		
50) TOLUENE-D8	5.010	98	749384	40.3501694 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.88%		
68) 4-BROMOFLUOROBENZENE	6.849	95	257037	38.5067976 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.27%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8395305	No Calib	
3) PROPENE	1.447	41	33178	22.1222493 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	130544	26.6037464 ppb	97
5) CHLOROMETHANE	1.631	50	216331	27.6996007 ppb	99
6) VINYL CHLORIDE	1.689	62	211388	25.2103198 ppb	98
7) 1,3-BUTADIENE	1.698	39	138258	22.5141450 ppb	97
8) BROMOMETHANE	1.907	94	122559	32.0856987 ppb	100
9) CHLOROETHANE	1.991	66	41777	30.9430642 ppb	99
10) TRICHLOROFLUOROMETHANE	2.081	101	194229	27.2594068 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	283507	26.4225536 ppb	99
12) ETHYL ETHER	2.261	59	125579	26.0545233 ppb	98
13) ACROLEIN	2.573	56	114784	136.7675072 ppb	98
14) 1,1-DICHLOROETHENE	2.386	61	224868	26.5495044 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	149941	27.2072122 ppb	100
16) ACETONE	2.737	43	175737	113.6082756 ppb	99
17) IODOMETHANE	2.476	142	1048141	150.2388546 ppb	100
18) CARBON DISULFIDE	2.418	76	552233	28.2921304 ppb	100
19) METHYLENE CHLORIDE	2.711	84	147094	22.7585641 ppb	100
20) ACRYLONITRILE	3.158	53	259082	135.2267155 ppb	99
21) n-Hexane	2.840	56	178977	24.9378364 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	144977	24.4713648 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	400085	23.8717064 ppb	95
24) 1,1-DICHLOROETHANE	3.135	63	288613	24.5729780 ppb	100
25) VINYL ACETATE	3.251	43	1196402	127.6856540 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	541054	24.6757402 ppb	99
27) 2,2-Dichloropropane	3.483	77	214283	25.1681886 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.425	96	155554	25.2154971 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	82831	120.9979665 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	77703	25.7147369 ppb	95
31) TETRAHYDROFURAN	3.663	42	46461	24.7616847 ppb #	92
32) CHLOROFORM	3.560	83	241736	24.4858295 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	205740	25.4916962 ppb	100
35) CARBON TETRACHLORIDE	3.656	117	189779	26.5815474 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 04.D
Acq On : 1 Nov 2014 10:27 am
Operator : 644
Sample : LCSD 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:36 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	237980	25.6011445 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	827016	26.3354110 ppb		97
38) HEPTANE	3.843	43	355891	28.2091798 ppb		99
39) BENZENE	3.888	78	709991	26.6097343 ppb		99
40) 1,2-DICHLOROETHANE	3.994	62	180275	25.6523334 ppb		99
42) TRICHLOROETHENE	4.206	130	153956	27.3579391 ppb		98
43) 1,2-DICHLOROPROPANE	4.499	62	128919	27.4163799 ppb		100
44) DIBROMOMETHANE	4.447	93	77074	27.0438975 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	193874	28.2287833 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	79174	49.1843652 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.897	75	261532	28.8992266 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	308060	141.3296697 ppb		97
51) TOLUENE	5.042	91	746466	27.0172844 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.287	110	53053	29.8913645 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.393	97	129576	26.7339184 ppb		98
55) TETRACHLOROETHENE	5.296	164	113958	27.1750907 ppb		98
56) 1,3-Dichloropropane	5.573	76	248795	25.6602474 ppb		99
57) 2-HEXANONE	5.785	58	305492	146.0043411 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	115857	27.1431551 ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	117627	27.8153285 ppb		99
60) CHLOROBENZENE	6.023	112	433546	26.1061852 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	123775	28.3186180 ppb		98
62) ETHYLBENZENE	6.023	106	246513	26.9506296 ppb		98
63) M&P-XYLENE	6.119	106	626079	55.6388816 ppb		99
64) O-XYLENE	6.418	106	283672	26.5181664 ppb		97
65) STYRENE	6.454	104	465492	27.2787267 ppb		98
66) Bromoform	6.486	173	69630	30.4621873 ppb		99
67) Isopropylbenzene	6.634	105	771100	26.9765464 ppb		99
69) Bromobenzene	6.933	77	349091	26.1655908 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.975	83	177415	28.2047938 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	45301	26.6393442 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	47089	29.9227869 ppb	#	96
73) n-Propylbenzene	6.930	91	972619	27.4118724 ppb		100
74) 4-ETHYLTOLUENE	7.007	105	785032	28.0729656 ppb		99
75) 2-Chlorotoluene	7.058	126	175211	27.7036883 ppb		94
76) 4-Chlorotoluene	7.180	91	551589	27.4700937 ppb		97
77) 1,3,5-Trimethylbenzene	7.068	105	660930	27.3044843 ppb		99
78) tert-Butylbenzene	7.309	119	543471	27.6720769 ppb		97
79) 1,2,4-Trimethylbenzene	7.360	105	640087	27.8079209 ppb		99
80) sec-Butylbenzene	7.444	105	892014	27.2901674 ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	308834	28.1105680 ppb		100
82) p-Isopropyltoluene	7.544	119	714341	28.4100829 ppb		99
83) DICYCLOPENTADIENE	7.544	66	896752	27.1192013 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	316284	26.5194825 ppb		92
86) 1,2,3-TRIMETHYLBENZENE	7.695	105	653632	26.3999111 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	279393	26.8779517 ppb		98
88) n-Butylbenzene	7.872	91	704136	28.9007644 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.640	157	24872	29.6957972 ppb		97
90) 1,2,4-Trichlorobenzene	9.190	180	165171	29.3463960 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	93144	27.4784547 ppb		97
92) Naphthalene	9.454	128	373098	25.8979701 ppb		98
93) 1,2,3-Trichlorobenzene	9.608	180	141559	28.4297303 ppb		99
94) 1-Methylnaphthalene	10.322	142	130978	No Calib		
95) 2-Methylnaphthalene	10.454	142	129267	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 04.D
Acq On : 1 Nov 2014 10:27 am
Operator : 644
Sample : LCSD 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:36 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

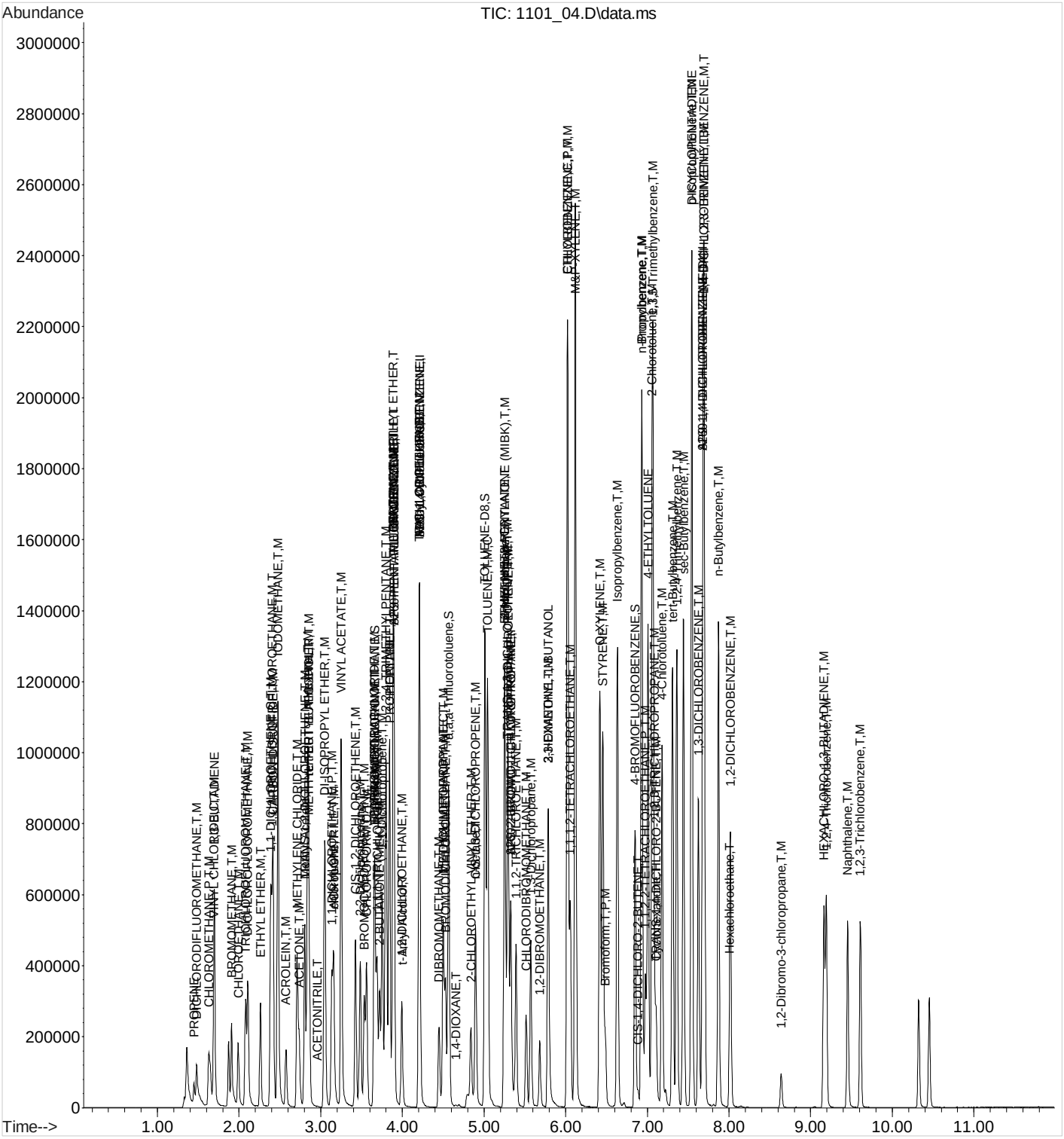
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.804	43	8602	2.4513539 ppb #	92
101)	ACETONITRILE	2.962	41	566	0.8229771 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.853	59	971	1.3516478 ppb #	1
104)	chloroprene	3.158	53	259082	45.6071696 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.203	59	905	N.D.	
106)	PROPIONITRILE	3.846	54	2931	3.8732482 ppb #	1
107)	Ethyl Acetate	3.663	43	8200	1.6703472 ppb #	75
108)	METHACRYLONITRILE	3.894	67	947	0.4039843 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.798	59	576	N.D.	
111)	ISOBUTANOL	3.968	41	578	No Calib #	
112)	t-Amyl Alcohol	3.997	59	925	2.0987479 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	12718	0.7864244 ppb #	69
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.209	83	9934	0.8299239 ppb #	52
117)	2-nitropropane	5.254	43	755567	708.0041898 ppb #	41
118)	METHYL METHACRYLATE	4.499	41	86285	17.0941684 ppb #	16
119)	1,4-DIOXANE	4.653	88	978	16.1889020 ppb #	35
120)	n-octane	4.897	85	3192	0.5587430 ppb #	28
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	101688	271.5012166 ppb #	53
123)	ETHYL METHACRYLATE	5.251	69	5040	0.6572084 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.885	53	2413	1.5350123 ppb #	27
125)	Cyclohexanone	7.106	55	1060	0.8097760 ppb #	23
126)	PENTACHLOROETHANE	7.360	117	21506	No Calib #	
127)	Hexachloroethane	8.003	117	981	0.3050124 ppb #	35

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 04.D
Acq On : 1 Nov 2014 10:27 am
Operator : 644
Sample : LCSD 1x WG752032
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:10:36 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 05.D
Acq On : 1 Nov 2014 10:58 am
Operator : 644
Sample : MS 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	345261	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	617981	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	109365	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	267261	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	345261	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	617981	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	109363	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	267261	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	175915	40.5996306 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.50%		
46) a,a,a-Trifluorotoluene	4.566	146	323716	42.0693792 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.17%		
50) TOLUENE-D8	5.013	98	806675	40.7493710 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.87%		
68) 4-BROMOFLUOROBENZENE	6.849	95	276954	39.0636950 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.66%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	6878454	No Calib	
3) PROPENE	1.447	41	27288	16.7038725 ppb	97
4) DICHLORODIFLUOROMETHANE	1.479	85	107893	20.4324355 ppb	98
5) CHLOROMETHANE	1.627	50	181526	21.5698497 ppb	99
6) VINYL CHLORIDE	1.685	62	187367	20.7650084 ppb	99
7) 1,3-BUTADIENE	1.698	39	123217	18.6456189 ppb	96
8) BROMOMETHANE	1.907	94	115387	27.8578362 ppb	99
9) CHLOROETHANE	1.991	66	37715	25.9585939 ppb	100
10) TRICHLOROFLUOROMETHANE	2.081	101	179050	23.3516534 ppb	99
11) DICHLOROFLUOROMETHANE	2.106	67	273784	23.7115558 ppb	100
12) ETHYL ETHER	2.261	59	128359	24.7476189 ppb	99
13) ACROLEIN	2.573	56	119509	132.3253869 ppb	97
14) 1,1-DICHLOROETHENE	2.389	61	215151	23.6054951 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.405	101	143417	24.1827262 ppb	98
16) ACETONE	2.733	43	180065	108.1725453 ppb	98
17) IODOMETHANE	2.476	142	962497	128.2043977 ppb	98
18) CARBON DISULFIDE	2.418	76	450377	21.4417626 ppb	100
19) METHYLENE CHLORIDE	2.711	84	144608	20.7913746 ppb	99
20) ACRYLONITRILE	3.158	53	278775	135.2135037 ppb	100
21) n-Hexane	2.843	56	159371	20.6353495 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.804	96	140891	22.0995443 ppb	96
23) METHYL TERT-BUTYL ETHER	2.856	73	418600	23.2098002 ppb	90
24) 1,1-DICHLOROETHANE	3.135	63	293976	23.2591994 ppb	99
25) VINYL ACETATE	3.248	43	1429712	141.7929117 ppb	99
26) DI-ISOPROPYL ETHER	3.048	45	556987	23.6056313 ppb	100
27) 2,2-Dichloropropane	3.483	77	228574	24.9477885 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.425	96	159704	24.0570920 ppb	99
29) 2-BUTANONE (MEK)	3.720	72	90401	122.7154898 ppb	98
30) BROMOCHLOROMETHANE	3.534	130	81716	25.1299938 ppb	95
31) TETRAHYDROFURAN	3.663	42	49324	24.4281686 ppb	94
32) CHLOROFORM	3.560	83	256046	24.1008561 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.688	97	212200	24.4324130 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	191281	24.8968798 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 05.D
Acq On : 1 Nov 2014 10:58 am
Operator : 644
Sample : MS 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	236847	23.6770610 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	783664	23.1898035 ppb		96
38) HEPTANE	3.843	43	301437	22.2029661 ppb		98
39) BENZENE	3.888	78	678227	23.6212977 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	183498	24.2640722 ppb		99
42) TRICHLOROETHENE	4.206	130	143407	23.9077373 ppb		99
43) 1,2-DICHLOROPROPANE	4.499	62	126962	25.3307647 ppb		99
44) DIBROMOMETHANE	4.447	93	78511	25.8448049 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	192151	26.2480234 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.839	63	109834	64.0121847 ppb		97
48) CIS-1,3-DICHLOROPROPENE	4.897	75	260056	26.9593631 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.251	58	310494	133.6388133 ppb		97
51) TOLUENE	5.042	91	708346	24.0524032 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.286	110	51065	26.9923375 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.392	97	124241	24.1338666 ppb		99
55) TETRACHLOROETHENE	5.296	164	105561	23.7002867 ppb		98
56) 1,3-Dichloropropane	5.572	76	246787	23.9643354 ppb		100
57) 2-HEXANONE	5.785	58	298400	134.2729918 ppb		98
58) CHLORODIBROMOMETHANE	5.515	129	119273	26.3089862 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	116133	25.8557261 ppb		99
60) CHLOROBENZENE	6.023	112	412441	23.3826637 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	120232	25.8990069 ppb		96
62) ETHYLBENZENE	6.023	106	237760	24.4732587 ppb		96
63) M&P-XYLENE	6.119	106	589424	49.3174929 ppb		98
64) O-XYLENE	6.418	106	271164	23.8661833 ppb		96
65) STYRENE	6.453	104	449694	24.8114923 ppb		96
66) Bromoform	6.486	173	70440	29.0140234 ppb		99
67) Isopropylbenzene	6.634	105	742429	24.4542582 ppb		100
69) Bromobenzene	6.933	77	341525	24.1011803 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	177341	26.5439571 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	46269	25.6170888 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	46111	27.5874166 ppb	#	95
73) n-Propylbenzene	6.933	91	917419	24.3437569 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	738736	24.8721952 ppb		100
75) 2-Chlorotoluene	7.061	126	168238	25.0451848 ppb		93
76) 4-Chlorotoluene	7.180	91	529983	24.8502295 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	624973	24.3088094 ppb		98
78) tert-Butylbenzene	7.309	119	509256	24.4132419 ppb		98
79) 1,2,4-Trimethylbenzene	7.360	105	606804	24.8200052 ppb		99
80) sec-Butylbenzene	7.444	105	835458	24.0648452 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	295436	25.3181430 ppb		99
82) p-Isopropyltoluene	7.543	119	672851	25.1947322 ppb		99
83) DICYCLOPENTADIENE	7.543	66	836751	23.8245497 ppb		100
85) 1,4-DICHLOROBENZENE	7.691	146	304127	23.6557266 ppb		99
86) 1,2,3-TRIMETHYLBENZENE	7.695	105	633342	23.7301749 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	268396	23.9524631 ppb		99
88) n-Butylbenzene	7.871	91	666240	25.3674595 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	24021	26.6053425 ppb		97
90) 1,2,4-Trichlorobenzene	9.193	180	165711	27.3127736 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	86693	23.7254766 ppb		98
92) Naphthalene	9.453	128	352364	23.0283794 ppb		98
93) 1,2,3-Trichlorobenzene	9.611	180	138061	25.7217054 ppb		99
94) 1-Methylnaphthalene	10.325	142	101266	No Calib		
95) 2-Methylnaphthalene	10.453	142	100993	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 05.D
Acq On : 1 Nov 2014 10:58 am
Operator : 644
Sample : MS 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

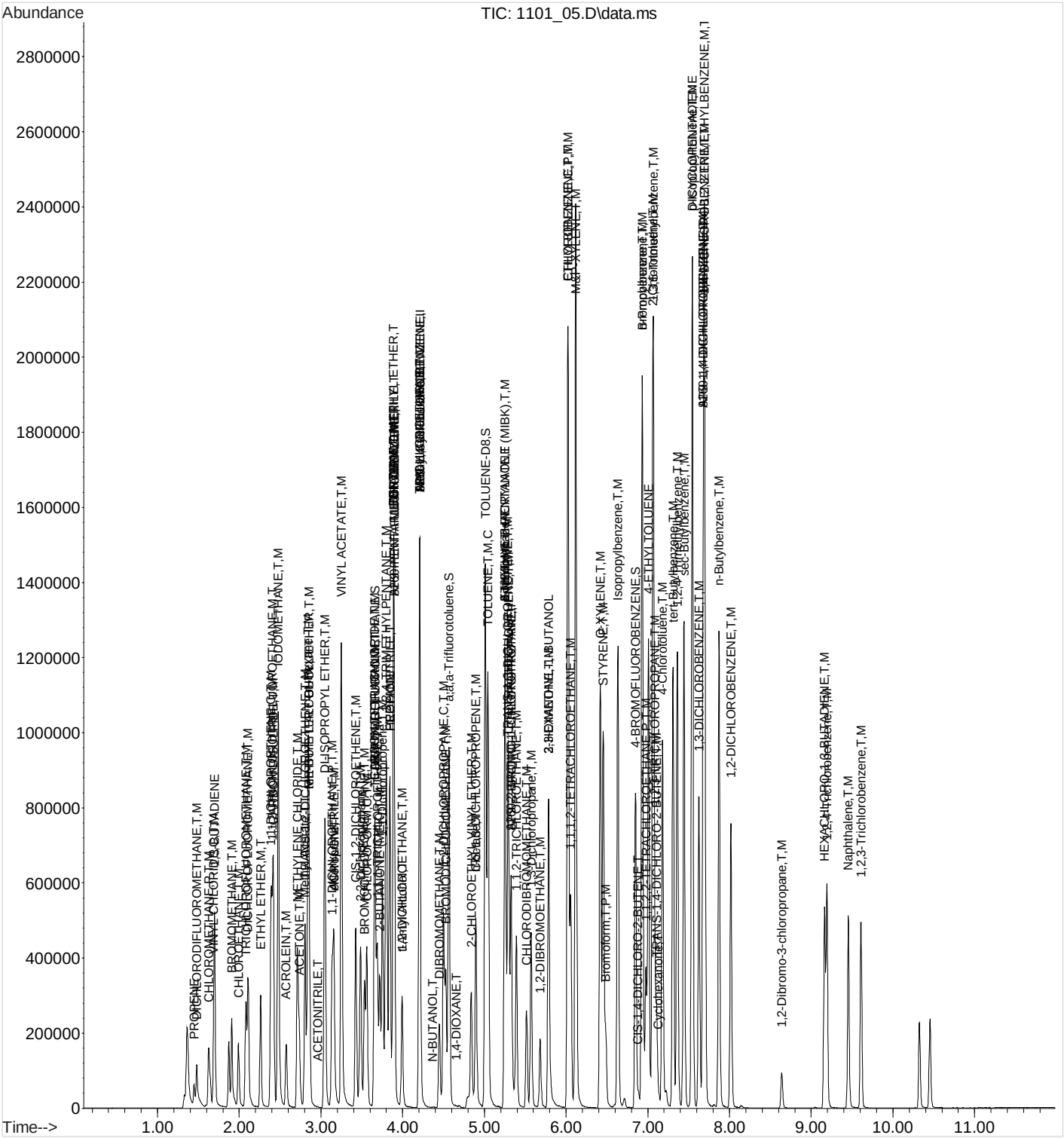
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	6640	1.7583917 ppb #	90
101)	ACETONITRILE	2.962	41	609	0.8228669 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.856	59	1191	1.5406254 ppb #	1
104)	chloroprene	3.158	53	278775	45.6027138 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.190	59	825	N.D.	
106)	PROPIONITRILE	3.843	54	2496	3.0651030 ppb #	1
107)	Ethyl Acetate	3.614	43	1354	N.D.	
108)	METHACRYLONITRILE	3.894	67	851	0.3373534 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.794	59	521	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.991	59	1003	2.1147569 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	11223	0.6448937 ppb #	53
115)	N-BUTANOL	4.364	56	789	147.0851380 ppb #	64
116)	Methyl Cyclohexane	4.209	83	10542	0.8262633 ppb #	47
117)	2-nitropropane	5.251	43	762268	670.1189513 ppb #	40
118)	METHYL METHACRYLATE	4.653	41	516	N.D.	
119)	1,4-DIOXANE	4.656	88	1226	19.0392736 ppb #	46
120)	n-octane	4.897	85	3138	0.5153277 ppb #	39
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	98691	247.5905923 ppb #	51
123)	ETHYL METHACRYLATE	5.251	69	4969	0.6100612 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	2024	1.2122632 ppb #	13
125)	Cyclohexanone	7.125	55	8430	6.0634312 ppb #	90
126)	PENTACHLOROETHANE	7.360	117	20096	No Calib #	
127)	Hexachloroethane	8.000	117	769	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 05.D
Acq On : 1 Nov 2014 10:58 am
Operator : 644
Sample : MS 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 06.D
Acq On : 1 Nov 2014 11:20 am
Operator : 644
Sample : MSD 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	332457	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	603618	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	109273	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	262973	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	332457	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	603618	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	109272	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	262973	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	155086	37.1709659 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 92.93%		
46) a,a,a-Trifluorotoluene	4.566	146	313221	41.6740540 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.19%		
50) TOLUENE-D8	5.013	98	787496	40.7271114 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.82%		
68) 4-BROMOFLUOROBENZENE	6.849	95	272449	38.4606294 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 96.15%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8126863	No Calib	
3) PROPENE	1.447	41	27516	17.5329994 ppb	96
4) DICHLORODIFLUOROMETHANE	1.480	85	110400	21.7124076 ppb	89
5) CHLOROMETHANE	1.628	50	184459	22.7698413 ppb	99
6) VINYL CHLORIDE	1.689	62	187329	21.5603629 ppb	100
7) 1,3-BUTADIENE	1.702	39	125350	19.6989262 ppb	97
8) BROMOMETHANE	1.910	94	113447	28.4802578 ppb	99
9) CHLOROETHANE	1.991	66	38764	27.7081595 ppb	97
10) TRICHLOROFLUOROMETHANE	2.084	101	183283	24.8243301 ppb	100
11) DICHLOROFLUOROMETHANE	2.110	67	279454	25.1347377 ppb	100
12) ETHYL ETHER	2.264	59	129527	25.9345934 ppb	97
13) ACROLEIN	2.576	56	126894	145.9135723 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	217385	24.7691647 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	142808	25.0074382 ppb	98
16) ACETONE	2.737	43	193744	120.8726511 ppb	100
17) IODOMETHANE	2.480	142	973848	134.7121468 ppb	98
18) CARBON DISULFIDE	2.418	76	451503	22.3232263 ppb	100
19) METHYLENE CHLORIDE	2.714	84	145566	21.7351616 ppb	100
20) ACRYLONITRILE	3.158	53	289111	145.6273345 ppb	99
21) n-Hexane	2.843	56	157816	21.2209882 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.808	96	139464	22.7182161 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	430672	24.7988110 ppb	87
24) 1,1-DICHLOROETHANE	3.139	63	290169	23.8421789 ppb	99
25) VINYL ACETATE	3.251	43	1419748	146.2275712 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	556102	24.4758093 ppb	99
27) 2,2-Dichloropropane	3.486	77	221170	25.0693738 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	152427	23.8452170 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	93975	132.4800634 ppb	100
30) BROMOCHLOROMETHANE	3.534	130	79940	25.5306263 ppb	94
31) TETRAHYDROFURAN	3.663	42	50383	25.9136558 ppb	96
32) CHLOROFORM	3.563	83	248098	24.2521239 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	206173	24.6527184 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	188869	25.5297059 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 06.D
Acq On : 1 Nov 2014 11:20 am
Operator : 644
Sample : MSD 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	232636	24.1517647 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	763557	23.4650064 ppb		97
38) HEPTANE	3.843	43	293082	22.4189684 ppb		98
39) BENZENE	3.888	78	697613	25.2322097 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	187938	25.8082762 ppb		98
42) TRICHLOROETHENE	4.209	130	150110	25.6206822 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	133328	27.2338381 ppb		99
44) DIBROMOMETHANE	4.451	93	83790	28.2389068 ppb		98
45) BROMODICHLOROMETHANE	4.528	83	199006	27.8312727 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	123457	73.6638663 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.898	75	272275	28.8977120 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.254	58	351532	154.9020638 ppb		97
51) TOLUENE	5.045	91	755367	26.2593503 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	55002	29.7651847 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.393	97	138553	26.9366383 ppb		97
55) TETRACHLOROETHENE	5.296	164	114645	25.7614743 ppb		97
56) 1,3-Dichloropropane	5.573	76	268653	26.1096047 ppb		100
57) 2-HEXANONE	5.785	58	337519	152.0034914 ppb		99
58) CHLORODIBROMOMETHANE	5.518	129	127966	28.2502344 ppb		97
59) 1,2-DIBROMOETHANE	5.682	107	128995	28.7434875 ppb		95
60) CHLOROBENZENE	6.023	112	441670	25.0608354 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	128216	27.6420823 ppb		96
62) ETHYLBENZENE	6.023	106	251942	25.9548828 ppb		97
63) M&P-XYLENE	6.119	106	628925	52.6668719 ppb		99
64) O-XYLENE	6.418	106	290824	25.6180857 ppb		97
65) STYRENE	6.454	104	477034	26.3421136 ppb		98
66) Bromoform	6.486	173	77346	31.8854066 ppb		99
67) Isopropylbenzene	6.634	105	783599	25.8320534 ppb		99
69) Bromobenzene	6.933	77	357580	25.2554158 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	197246	29.5481441 ppb	#	98
71) 1,2,3-TRICHLOROPROPANE	7.084	110	51722	28.6602821 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.106	53	51383	30.7674455 ppb	#	91
73) n-Propylbenzene	6.933	91	972561	25.8286801 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	788039	26.5544955 ppb		99
75) 2-Chlorotoluene	7.061	126	173985	25.9225334 ppb		99
76) 4-Chlorotoluene	7.180	91	561235	26.3377519 ppb		98
77) 1,3,5-Trimethylbenzene	7.068	105	662595	25.7938445 ppb		99
78) tert-Butylbenzene	7.309	119	548336	26.3088310 ppb		97
79) 1,2,4-Trimethylbenzene	7.360	105	645903	26.4415083 ppb		99
80) sec-Butylbenzene	7.444	105	888443	25.6125908 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	320606	27.4982826 ppb		99
82) p-Isopropyltoluene	7.544	119	711996	26.6829528 ppb		99
83) DICYCLOPENTADIENE	7.547	66	896373	25.5436361 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	325532	25.7335338 ppb		94
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	672895	25.6232598 ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	292384	26.5186964 ppb		99
88) n-Butylbenzene	7.872	91	693655	26.8419598 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	25848	29.0957224 ppb		97
90) 1,2,4-Trichlorobenzene	9.193	180	168609	28.2435737 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	86791	24.1395980 ppb		97
92) Naphthalene	9.454	128	376716	24.7846960 ppb		98
93) 1,2,3-Trichlorobenzene	9.611	180	144948	27.4451368 ppb		99
94) 1-Methylnaphthalene	10.325	142	102535	No Calib		
95) 2-Methylnaphthalene	10.454	142	105735	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 06.D
Acq On : 1 Nov 2014 11:20 am
Operator : 644
Sample : MSD 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

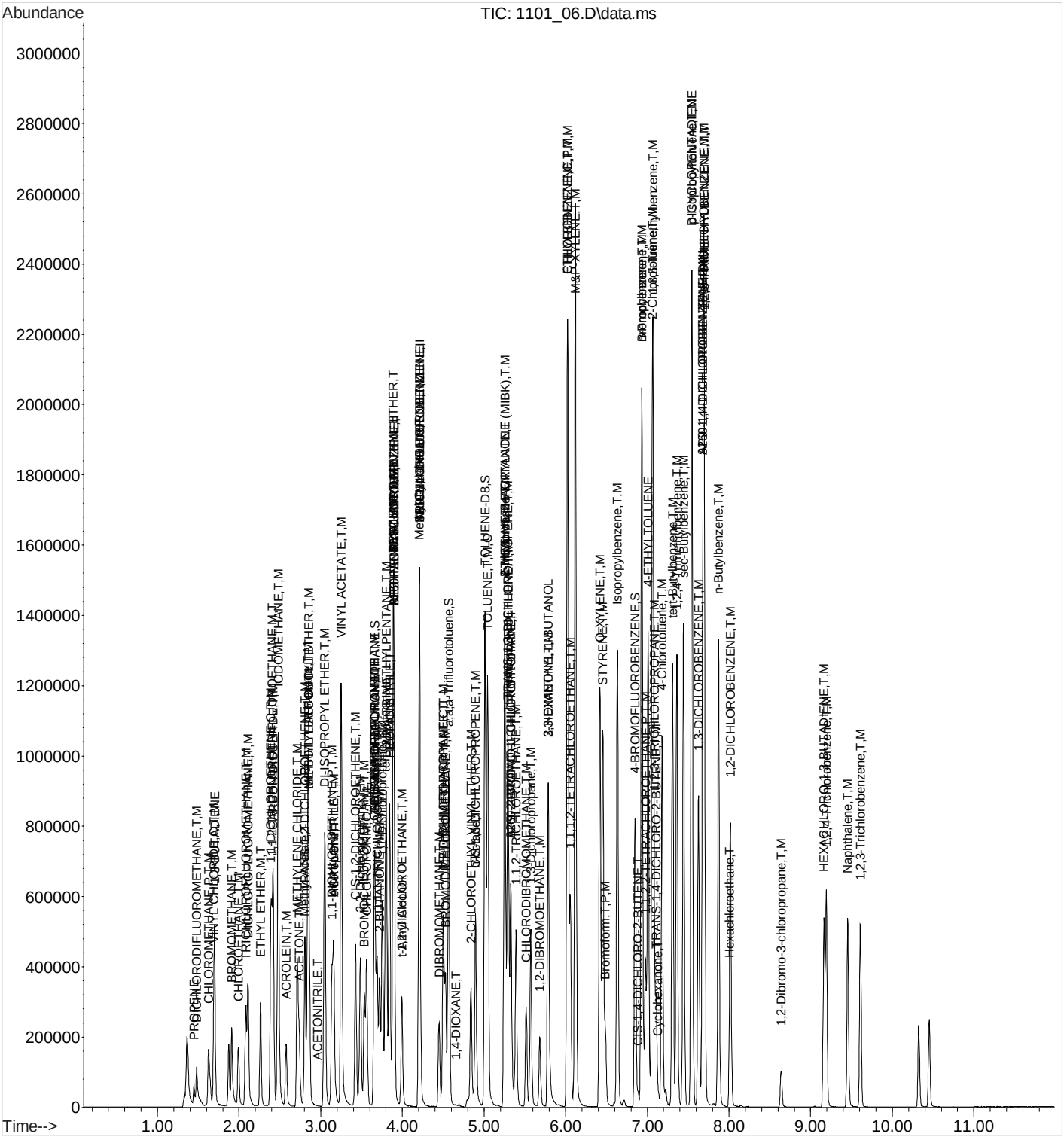
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	8773	2.4127245 ppb #	90
101)	ACETONITRILE	2.959	41	558	0.7829942 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.856	59	842	1.1311220 ppb #	1
104)	chloroprene	3.158	53	289111	49.1149292 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	3.190	59	1245	N.D.	
106)	PROPIONITRILE	3.843	54	2487	3.1716724 ppb #	1
107)	Ethyl Acetate	3.663	43	9375	1.8429655 ppb #	71
108)	METHACRYLONITRILE	3.898	67	919	0.3783407 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.795	59	735	0.3085686 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.991	59	835	1.8283446 ppb #	20
113)	TERT-AMYL METHYL ETHER	3.888	73	10629	0.6342838 ppb #	55
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.206	83	9752	0.7825320 ppb #	50
117)	2-nitropropane	5.254	43	862306	776.1015672 ppb #	40
118)	METHYL METHACRYLATE	4.502	41	87689	16.6859946 ppb #	16
119)	1,4-DIOXANE	4.653	88	949	15.0882565 ppb #	18
120)	n-octane	4.898	85	3663	0.6158577 ppb #	23
121)	3,3-DIMETHYL-1-BUTANOL	5.785	57	112690	288.7132611 ppb #	52
123)	ETHYL METHACRYLATE	5.254	69	5705	0.7010058 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	6.885	53	2321	1.3913073 ppb #	25
125)	Cyclohexanone	7.129	55	10492	7.5528470 ppb #	83
126)	PENTACHLOROETHANE	7.364	117	22086	No Calib #	
127)	Hexachloroethane	8.004	117	1130	0.3310704 ppb #	56

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 06.D
Acq On : 1 Nov 2014 11:20 am
Operator : 644
Sample : MSD 1x WG752032 L729802-03
Misc : soil SSURR14I25028/SPK14K01970
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 02 11:11:21 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 09.D
Acq On : 1 Nov 2014 12:26 pm
Operator : 644
Sample : BLANK 1X WG752032
Misc : soil SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:53:05 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

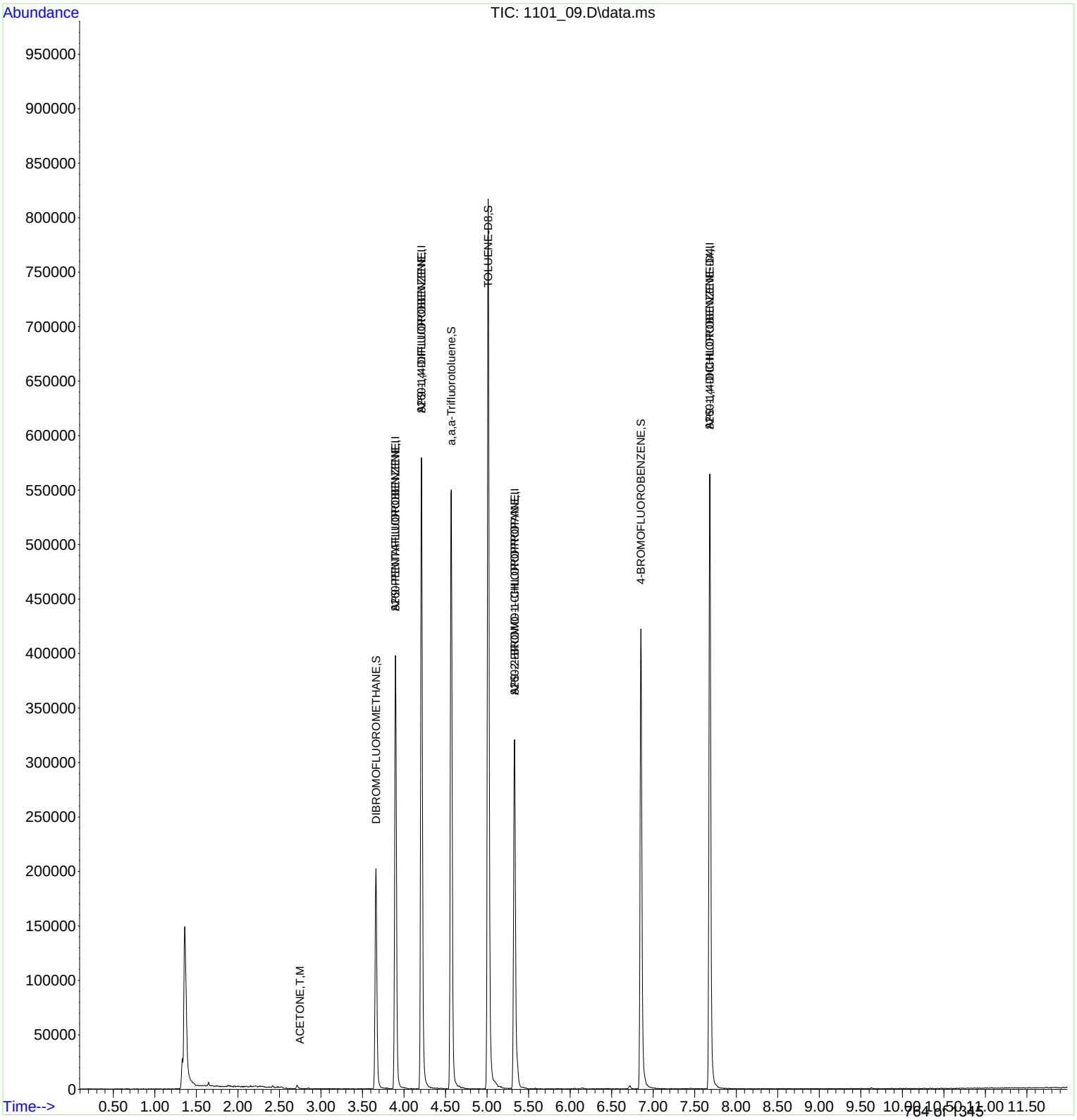
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	203772	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	379340	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	63752	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	134833	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	203772	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	379340	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	63660	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	134833	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	103502	40.4735191 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.18%		
46) a,a,a-Trifluorotoluene	4.569	146	190634	40.3597791 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 100.90%		
50) TOLUENE-D8	5.013	98	478170	39.3505784 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.38%		
68) 4-BROMOFLUOROBENZENE	6.852	95	154007	37.2641040 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.16%		
Target Compounds					Qvalue
16) ACETONE	2.746	43	572	0.5822196 ppb #	40

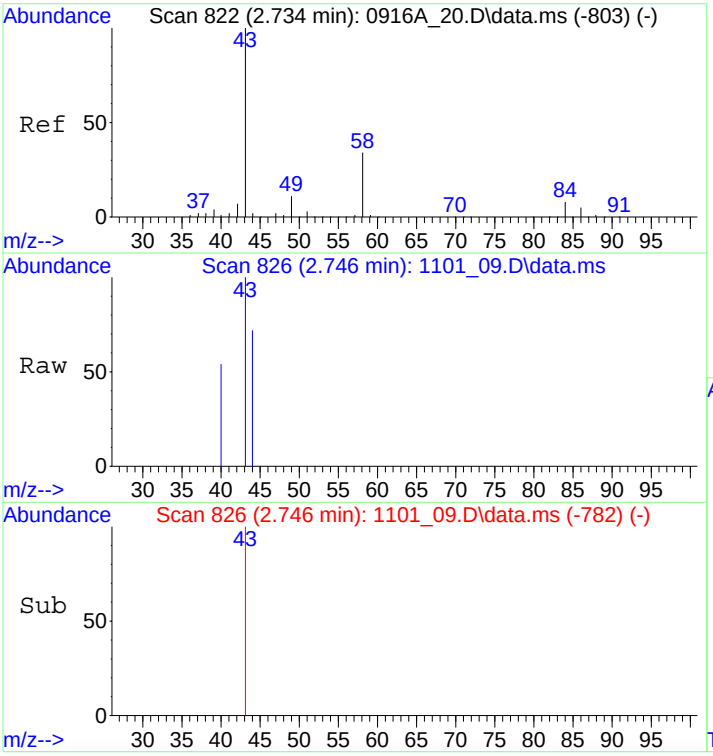
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 09.D
Acq On : 1 Nov 2014 12:26 pm
Operator : 644
Sample : BLANK 1X WG752032
Misc : soil SSURR14I25028
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:53:05 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

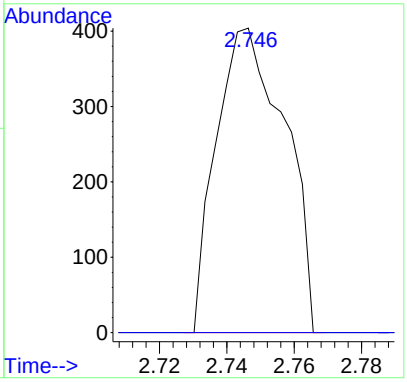




#16
ACETONE
Concen: 0.5822196 ppb
RT: 2.746 min Scan# 826
Delta R.T. 0.010 min
Lab File: 1101 09.D
Acq: 1 Nov 2014 12:26 pm

Tgt Ion: 43 Resp: 572

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 10.D
Acq On : 1 Nov 2014 12:58 pm
Operator : 644
Sample : L729802-03 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:54:35 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

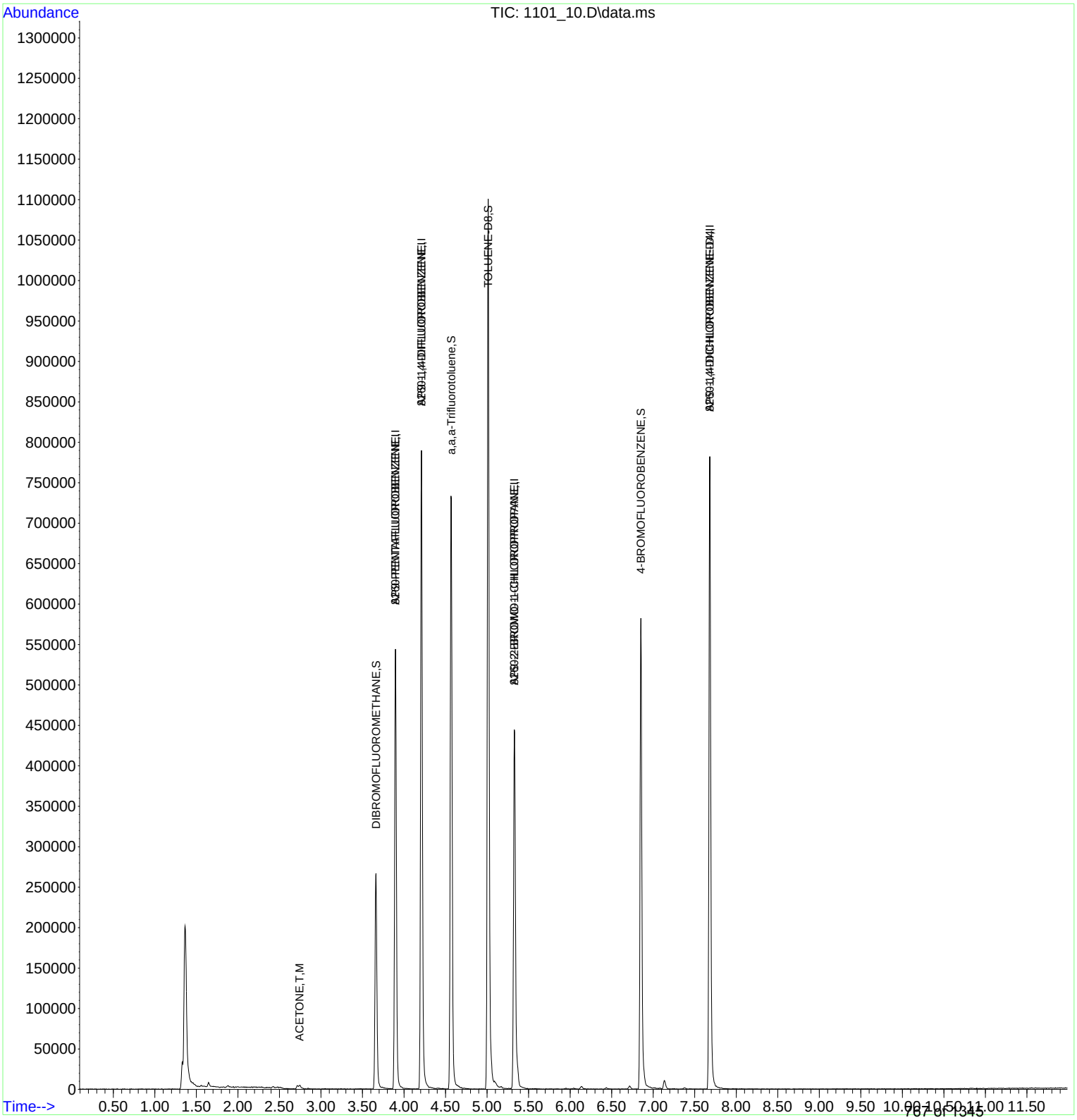
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	277301	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	505167	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	85775	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	187259	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	277301	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	505167	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	85645	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	187259	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	139484	40.0811054 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.20%		
46) a,a,a-Trifluorotoluene	4.569	146	259381	41.2363529 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.09%		
50) TOLUENE-D8	5.013	98	636436	39.3293890 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.32%		
68) 4-BROMOFLUOROBENZENE	6.852	95	206471	37.1314894 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 92.83%		
Target Compounds					Qvalue
16) ACETONE	2.743	43	5967	4.4631334 ppb	90

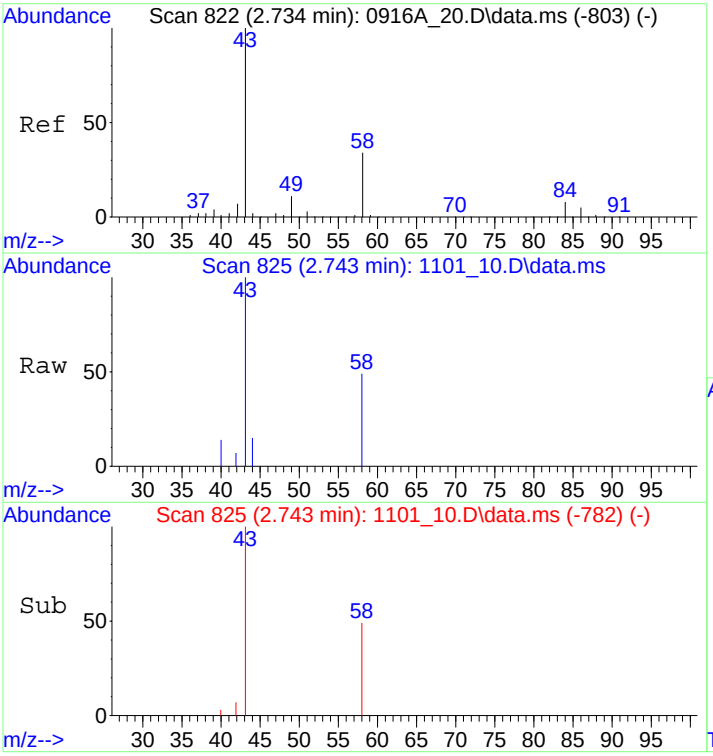
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 10.D
Acq On : 1 Nov 2014 12:58 pm
Operator : 644
Sample : L729802-03 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Nov 16 10:54:35 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

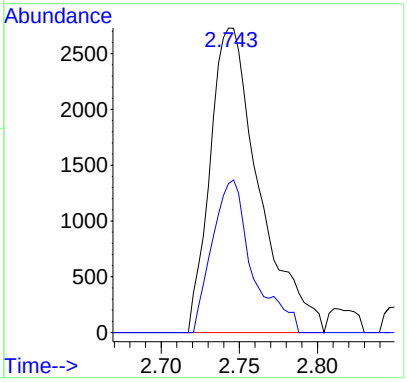




#16
ACETONE
Concen: 4.4631334 ppb
RT: 2.743 min Scan# 825
Delta R.T. 0.007 min
Lab File: 1101 10.D
Acq: 1 Nov 2014 12:58 pm

Tgt Ion: 43 Resp: 5967

Ion	Ratio	Lower	Upper
43	100		
58	41.0	28.0	42.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 22.D
Acq On : 1 Nov 2014 5:23 pm
Operator : 644
Sample : L729802-01 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 22 Sample Multiplier: 0.89

InstName : VOCMS21
Quant Time: Nov 16 10:56:38 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

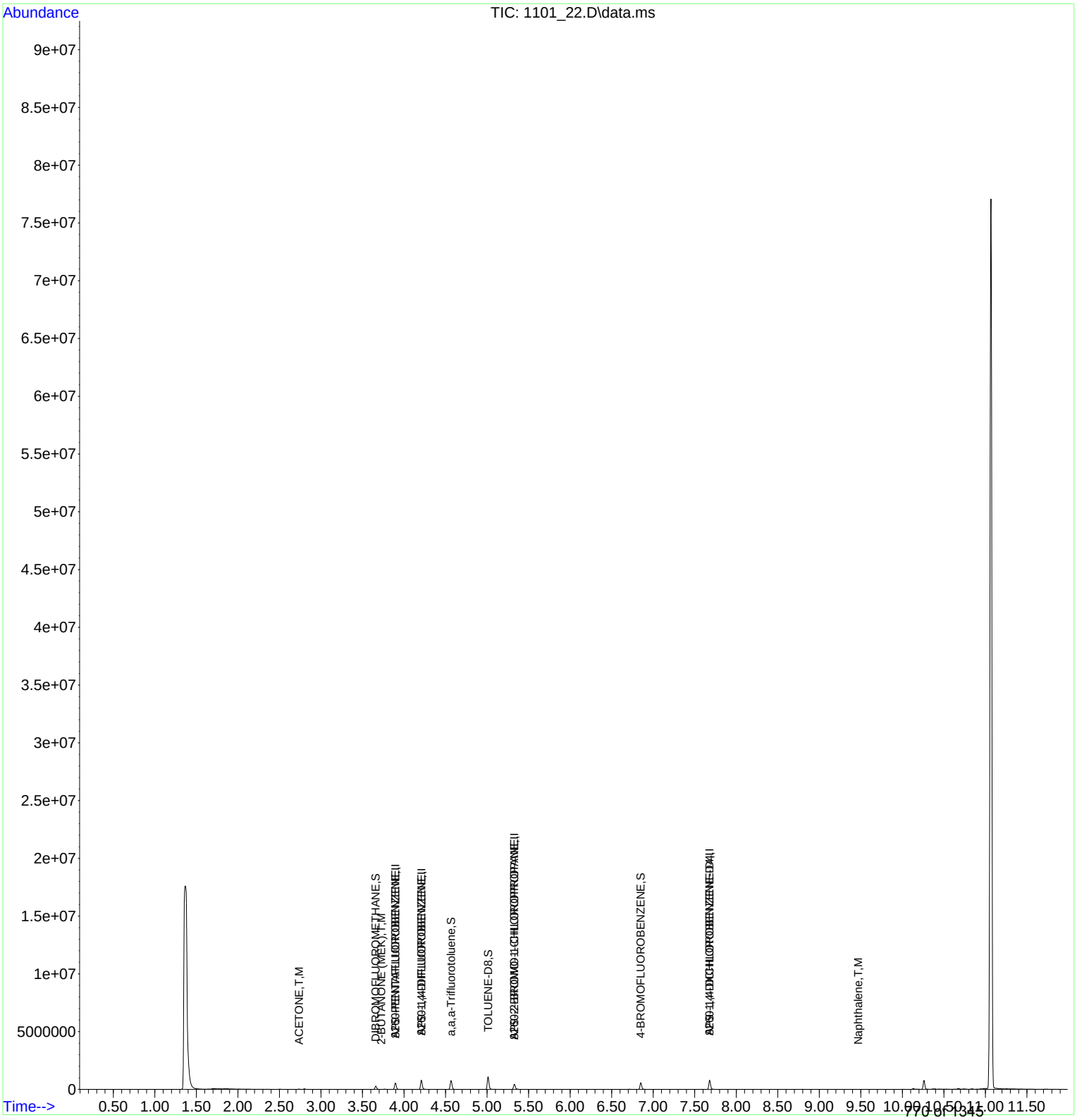
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	272954	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	497462	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	81587	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	184623	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	272954	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	497462	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	81587	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	184623	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.659	111	139032	40.5874756 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.47%		
46) a,a,a-Trifluorotoluene	4.566	146	251750	40.6430815 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 101.61%		
50) TOLUENE-D8	5.013	98	613047	38.4708068 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 96.18%		
68) 4-BROMOFLUOROBENZENE	6.849	95	197632	37.3663207 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.42%		
Target Compounds					Qvalue
16) ACETONE	2.737	43	26828	18.1436270 ppb	99
29) 2-BUTANONE (MEK)	3.727	72	2036	3.1113724 ppb	74
92) Naphthalene	9.470	128	1375	2.5355158 ppb #	72

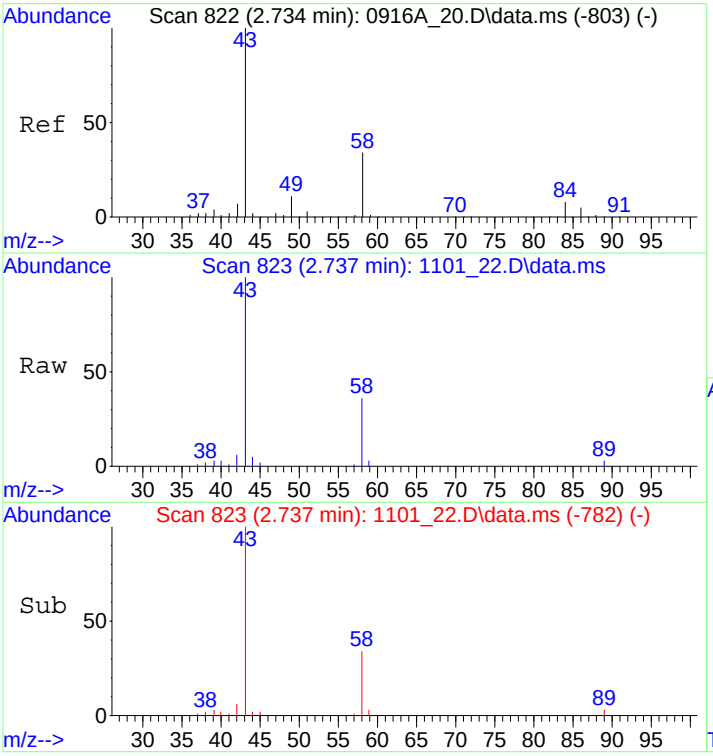
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 22.D
Acq On : 1 Nov 2014 5:23 pm
Operator : 644
Sample : L729802-01 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 22 Sample Multiplier: 0.89

InstName : VOCMS21
Quant Time: Nov 16 10:56:38 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

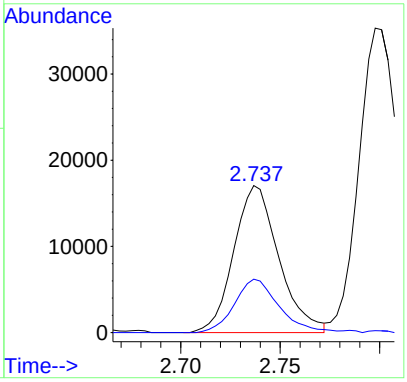


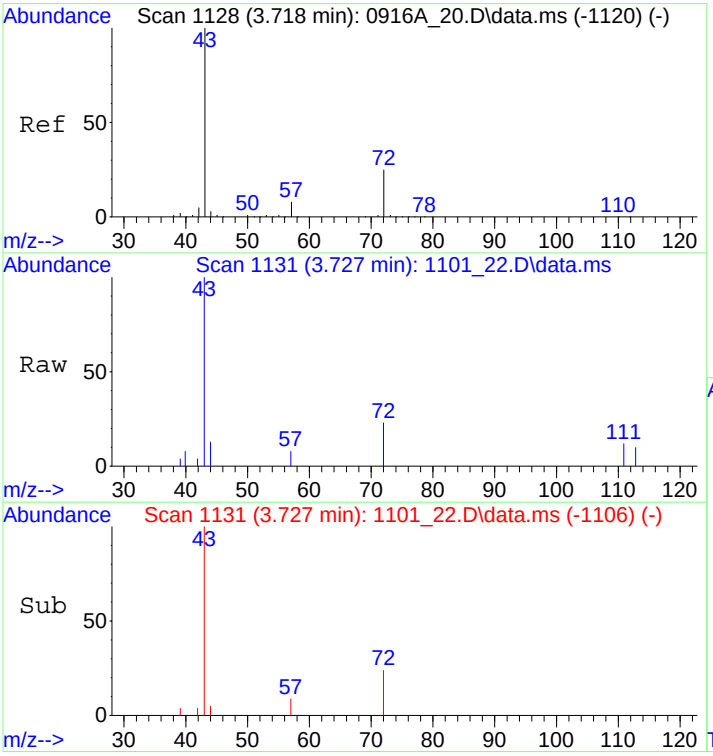


#16
ACETONE
Concen: 18.1436270 ppb
RT: 2.737 min Scan# 823
Delta R.T. 0.001 min
Lab File: 1101 22.D
Acq: 1 Nov 2014 5:23 pm

Tgt Ion: 43 Resp: 26828

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.0	42.0

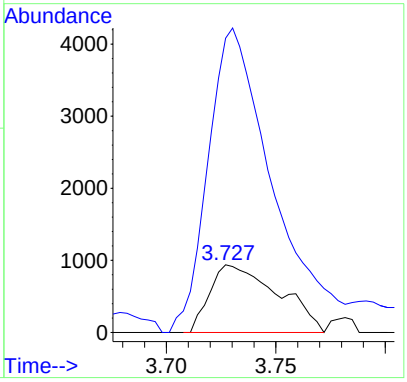


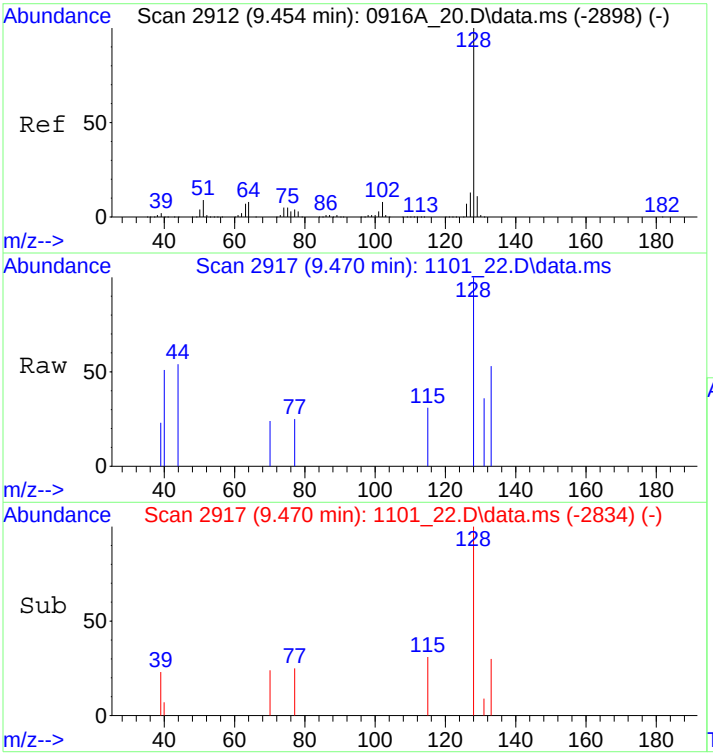


#29
2-BUTANONE (MEK)
Concen: 3.1113724 ppb
RT: 3.727 min Scan# 1131
Delta R.T. 0.007 min
Lab File: 1101_22.D
Acq: 1 Nov 2014 5:23 pm

Tgt Ion: 72 Resp: 2036

Ion	Ratio	Lower	Upper
72	100		
43	426.6	294.5	441.7

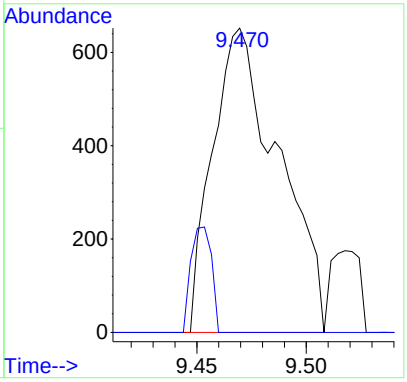




#92
Naphthalene
Concen: 2.5355158 ppb
RT: 9.470 min Scan# 2917
Delta R.T. 0.017 min
Lab File: 1101 22.D
Acq: 1 Nov 2014 5:23 pm

Tgt Ion:128 Resp: 1375

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 23.D
Acq On : 1 Nov 2014 5:45 pm
Operator : 644
Sample : L729802-04 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 23 Sample Multiplier: 0.89

InstName : VOCMS21
Quant Time: Nov 16 10:57:54 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

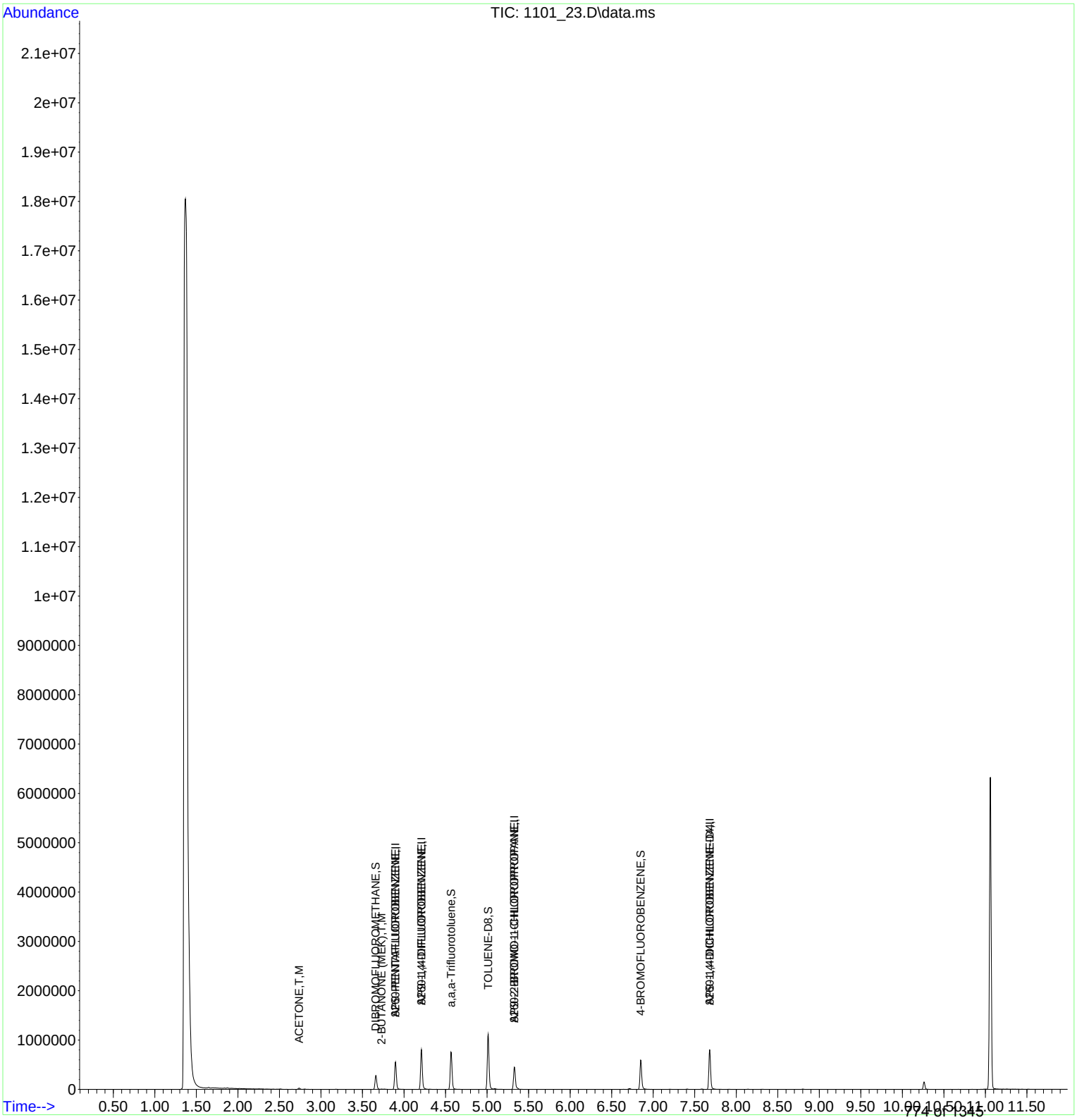
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	282011	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	511226	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	84612	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	189863	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	282011	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	511226	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	84612	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	189863	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	140401	39.6707934 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.18%		
46) a,a,a-Trifluorotoluene	4.566	146	261797	41.1271668 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.82%		
50) TOLUENE-D8	5.013	98	627350	38.3084344 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 95.77%		
68) 4-BROMOFLUOROBENZENE	6.849	95	206680	37.6799682 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 94.20%		
Target Compounds					Qvalue
16) ACETONE	2.737	43	25262	16.5358665 ppb	97
29) 2-BUTANONE (MEK)	3.730	72	1618	2.3931843 ppb #	64

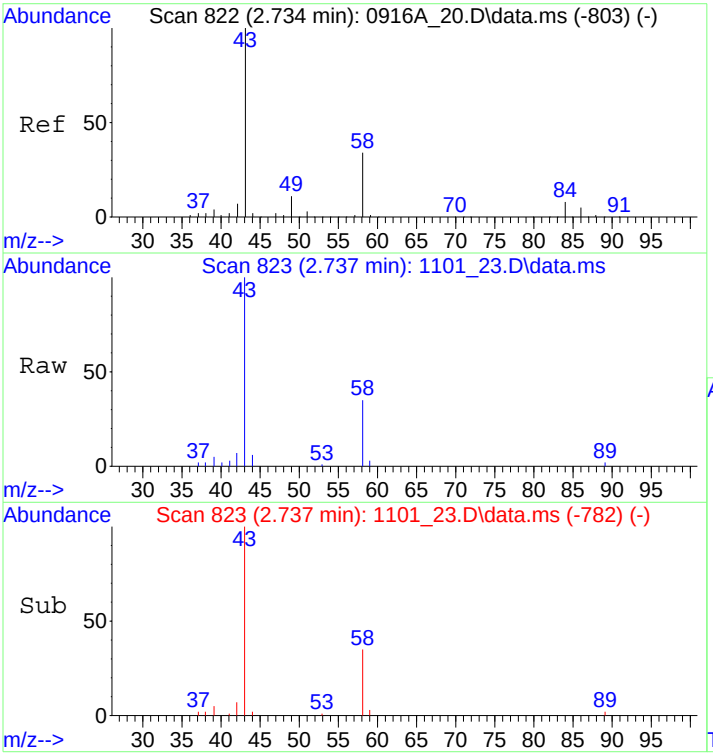
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 23.D
Acq On : 1 Nov 2014 5:45 pm
Operator : 644
Sample : L729802-04 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 23 Sample Multiplier: 0.89

InstName : VOCMS21
Quant Time: Nov 16 10:57:54 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

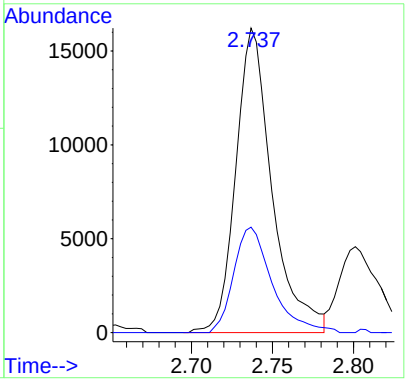


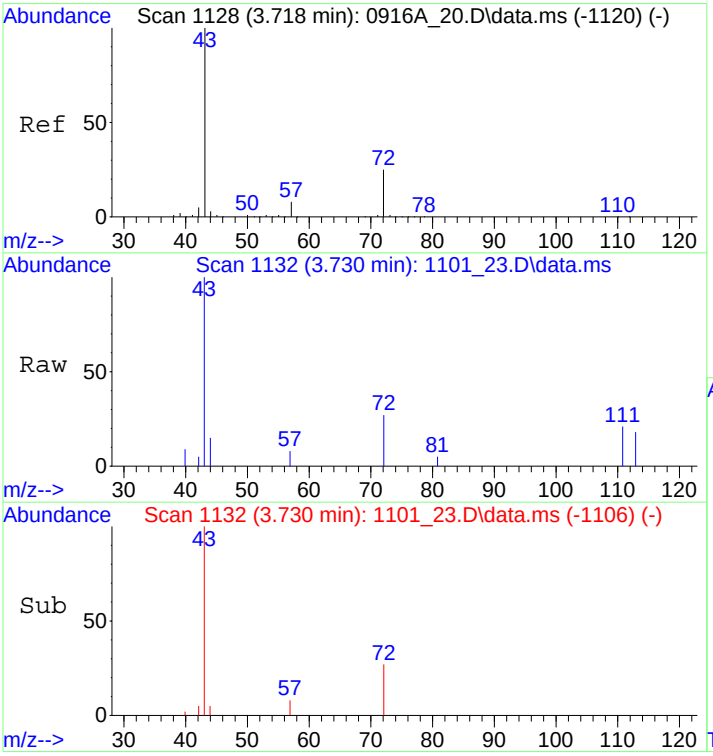


#16
ACETONE
Concen: 16.5358665 ppb
RT: 2.737 min Scan# 823
Delta R.T. 0.001 min
Lab File: 1101 23.D
Acq: 1 Nov 2014 5:45 pm

Tgt Ion: 43 Resp: 25262

Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.0	42.0

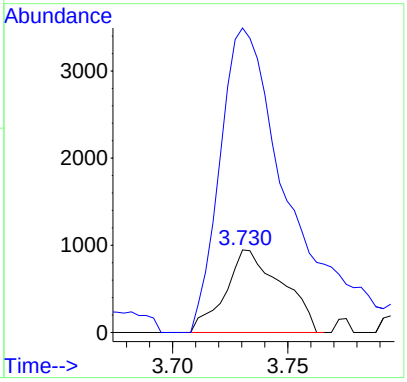




#29
2-BUTANONE (MEK)
Concen: 2.3931843 ppb
RT: 3.730 min Scan# 1132
Delta R.T. 0.010 min
Lab File: 1101_23.D
Acq: 1 Nov 2014 5:45 pm

Tgt Ion: 72 Resp: 1618

Ion	Ratio	Lower	Upper
72	100		
43	449.3	294.5	441.7#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 24.D
Acq On : 1 Nov 2014 6:07 pm
Operator : 644
Sample : L729802-05 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 24 Sample Multiplier: 0.79

InstName : VOCMS21
Quant Time: Nov 16 10:59:49 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

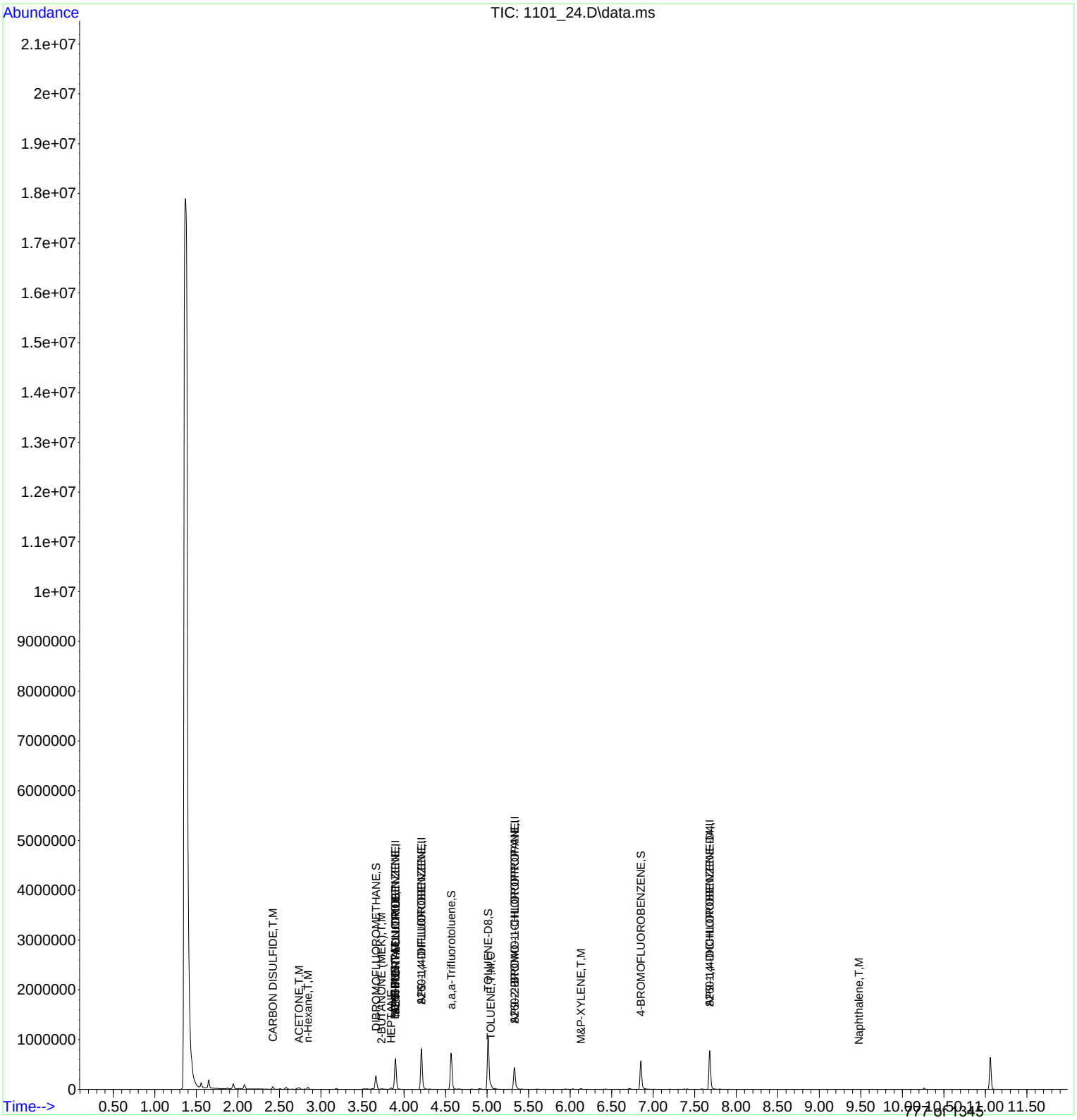
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.897	168	273716	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.209	114	490181	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.331	79	82576	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	180555	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.897	168	273716	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	490181	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.331	79	82576	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	180555	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	136455	39.7242771 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.31%		
46) a,a,a-Trifluorotoluene	4.569	146	249229	40.8337402 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.08%		
50) TOLUENE-D8	5.013	98	609818	38.8365998 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 97.09%		
68) 4-BROMOFLUOROBENZENE	6.852	95	200455	37.4461427 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 93.62%		
Target Compounds					Qvalue
16) ACETONE	2.737	43	34797	20.8307054 ppb	99
18) CARBON DISULFIDE	2.422	76	52704	2.5003585 ppb	99
21) n-Hexane	2.843	56	8144	1.0507871 ppb	83
29) 2-BUTANONE (MEK)	3.730	72	2453	3.3181662 ppb #	35
38) HEPTANE	3.846	43	8955	0.6572861 ppb	93
39) BENZENE	3.891	78	60373	2.0952983 ppb #	92
51) TOLUENE	5.045	91	45435	1.5365592 ppb	99
63) M&P-XYLENE	6.132	106	4400	0.3851922 ppb	97
92) Naphthalene	9.479	128	668	2.2050510 ppb #	72

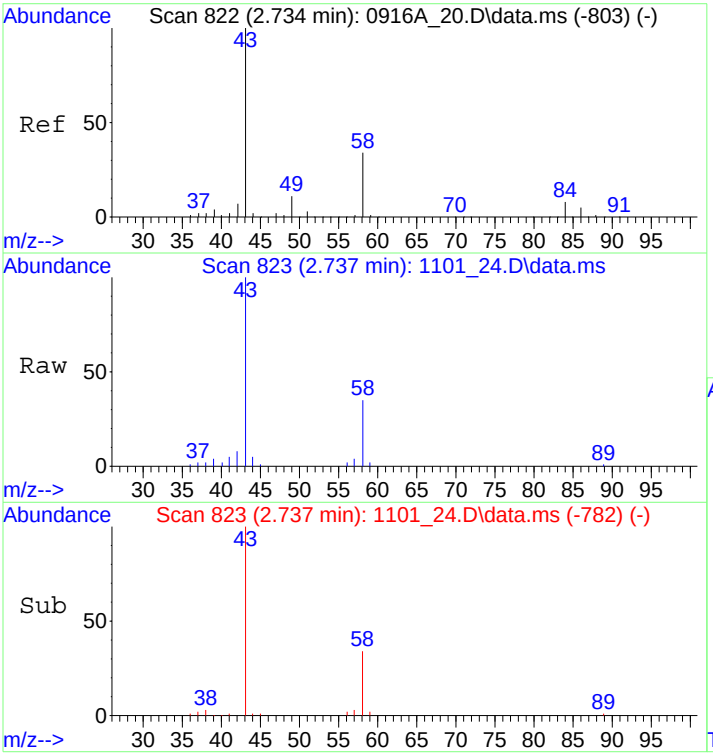
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\110114\
Data File : 1101 24.D
Acq On : 1 Nov 2014 6:07 pm
Operator : 644
Sample : L729802-05 1x WG752032 V8260
Misc : soil SSURR14I25028
ALS Vial : 24 Sample Multiplier: 0.79

InstName : VOCMS21
Quant Time: Nov 16 10:59:49 2015
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

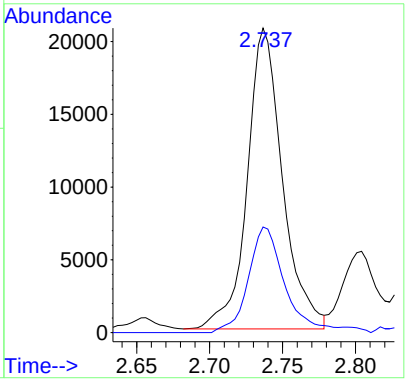


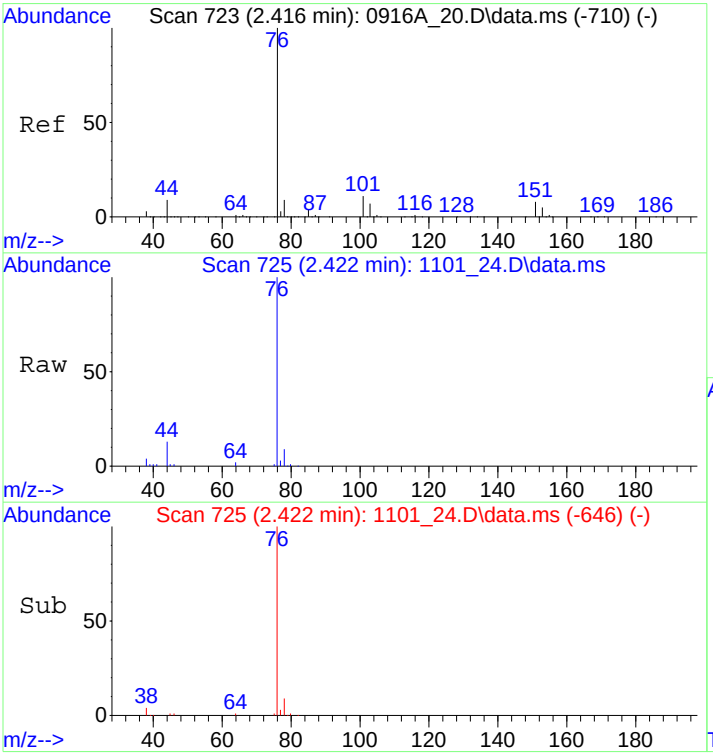


#16
ACETONE
Concen: 20.8307054 ppb
RT: 2.737 min Scan# 823
Delta R.T. 0.001 min
Lab File: 1101 24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 43 Resp: 34797

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0

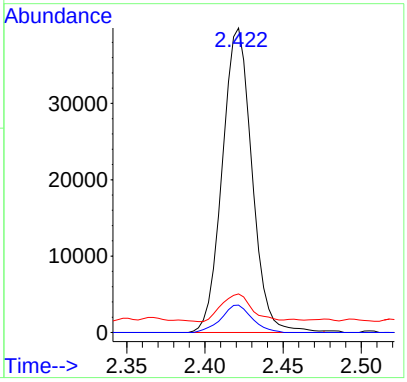


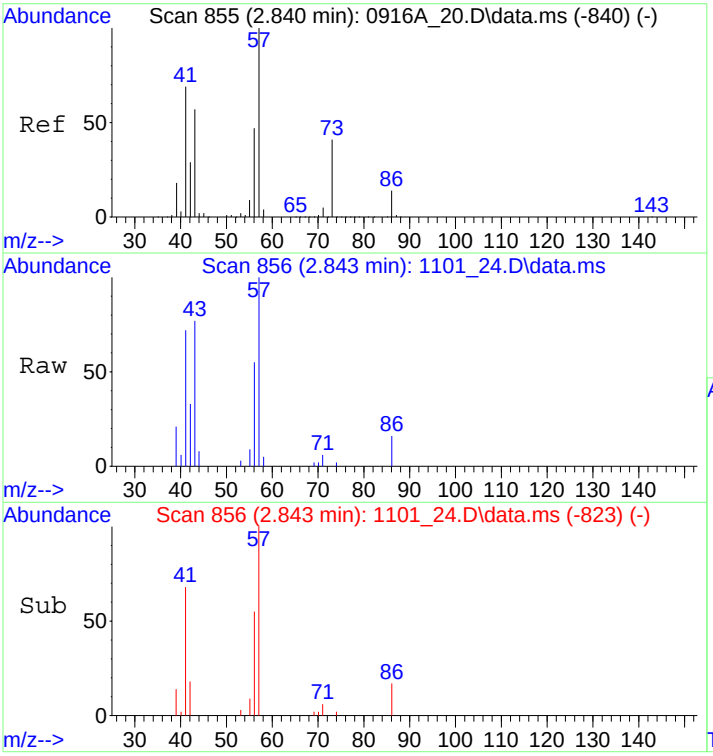


#18
CARBON DISULFIDE
Concen: 2.5003585 ppb
RT: 2.422 min Scan# 725
Delta R.T. 0.003 min
Lab File: 1101_24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 76 Resp: 52704

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.8	11.6
44	9.3	7.8	11.6

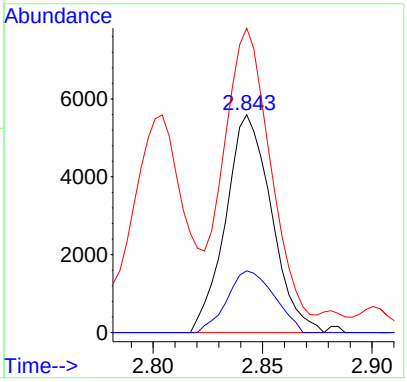


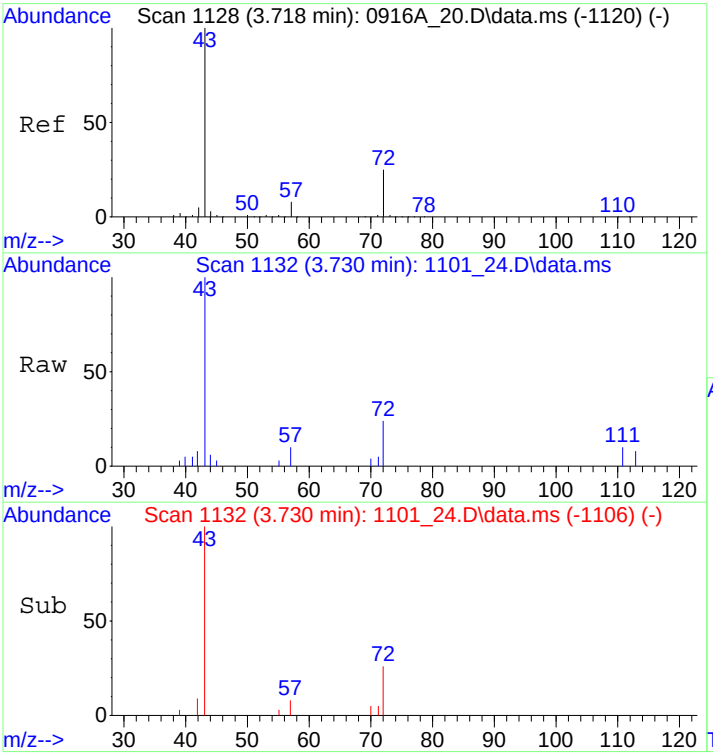


#21
n-Hexane
Concen: 1.0507871 ppb
RT: 2.843 min Scan# 856
Delta R.T. -0.000 min
Lab File: 1101 24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 56 Resp: 8144

Ion	Ratio	Lower	Upper
56	100		
86	29.1	23.4	35.0
43	128.5	123.8	185.8

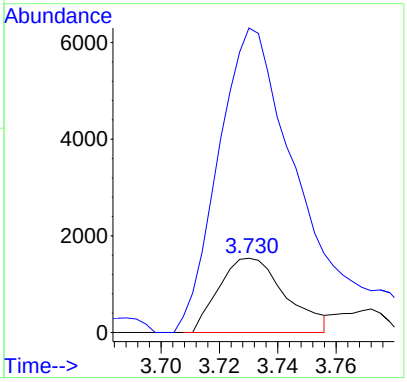


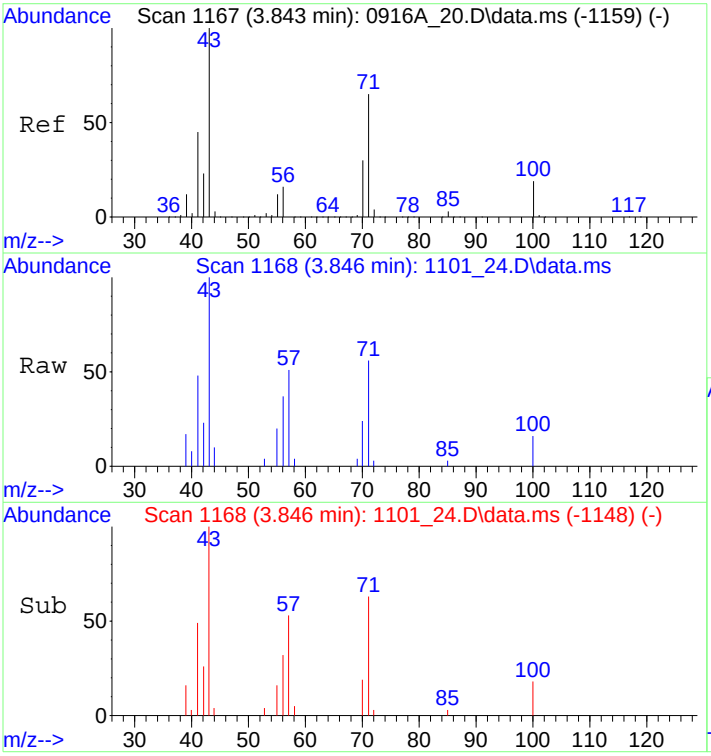


#29
2-BUTANONE (MEK)
Concen: 3.3181662 ppb
RT: 3.730 min Scan# 1132
Delta R.T. 0.010 min
Lab File: 1101_24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 72 Resp: 2453

Ion	Ratio	Lower	Upper
72	100		
43	513.5	294.5	441.7#

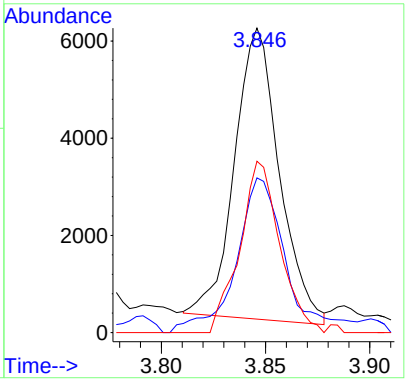


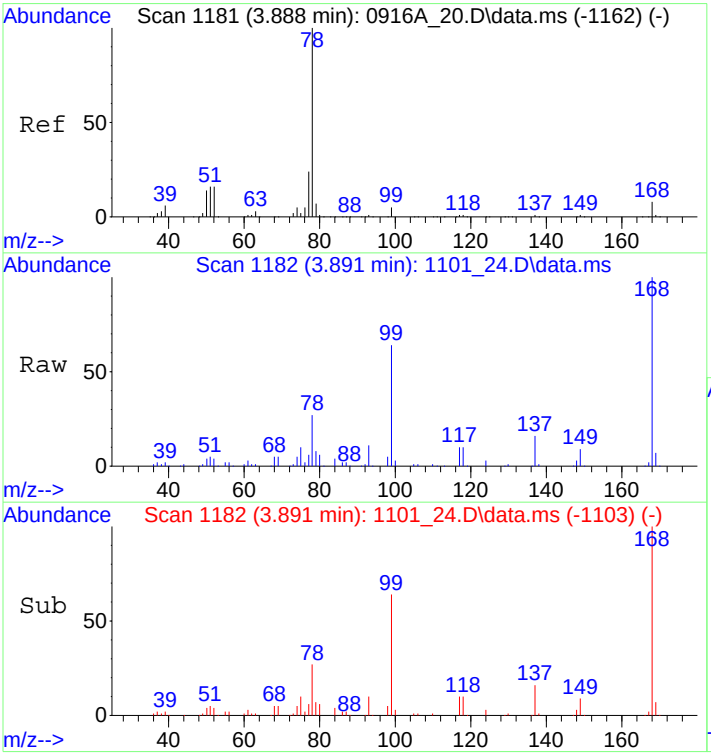


#38
HEPTANE
Concen: 0.6572861 ppb
RT: 3.846 min Scan# 1168
Delta R.T. 0.003 min
Lab File: 1101 24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 43 Resp: 8955

Ion	Ratio	Lower	Upper
43	100		
57	58.8	43.0	64.4
71	52.5	46.5	69.7

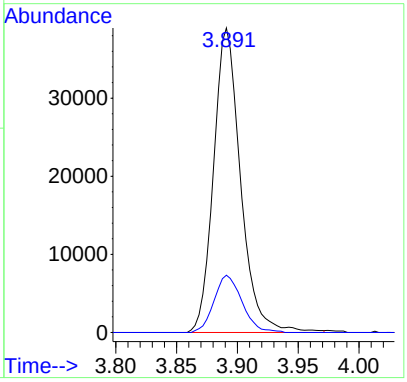


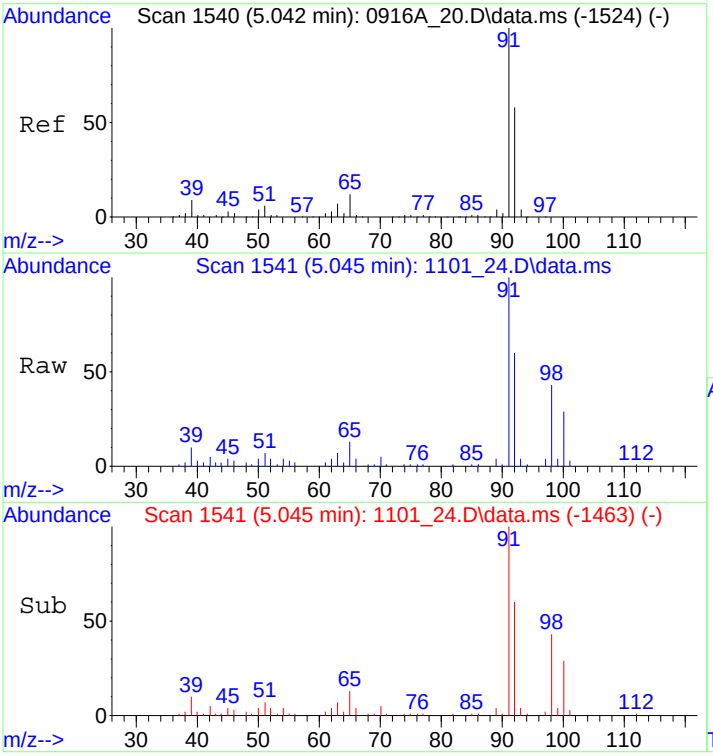


#39
BENZENE
Concen: 2.0952983 ppb
RT: 3.891 min Scan# 1182
Delta R.T. 0.003 min
Lab File: 1101_24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 78 Resp: 60373

Ion	Ratio	Lower	Upper
78	100		
51	19.5	13.0	19.4#

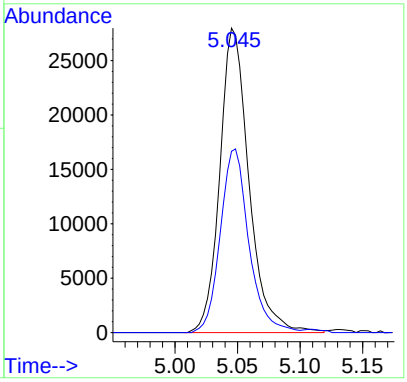


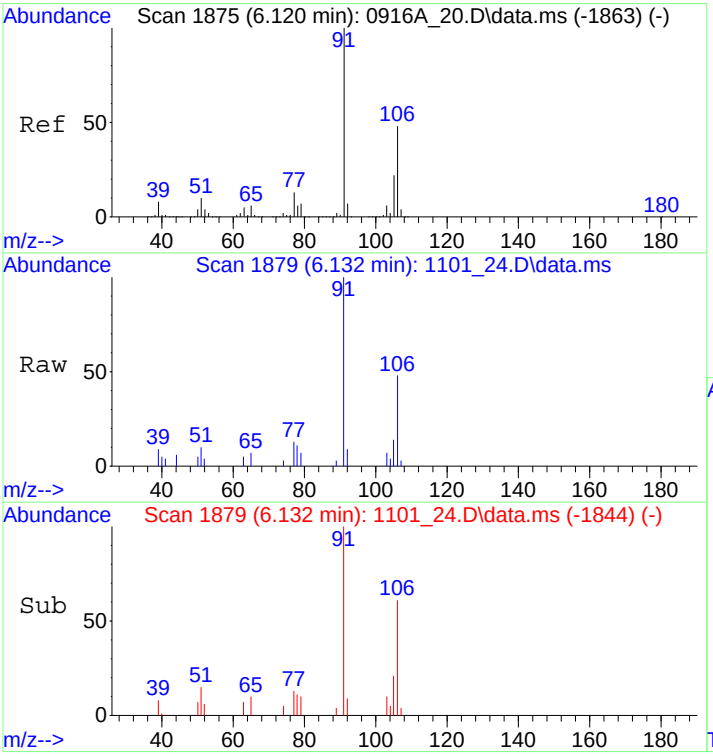


#51
TOLUENE
Concen: 1.5365592 ppb
RT: 5.045 min Scan# 1541
Delta R.T. -0.000 min
Lab File: 1101 24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion: 91 Resp: 45435

Ion	Ratio	Lower	Upper
91	100		
92	59.1	46.6	69.8

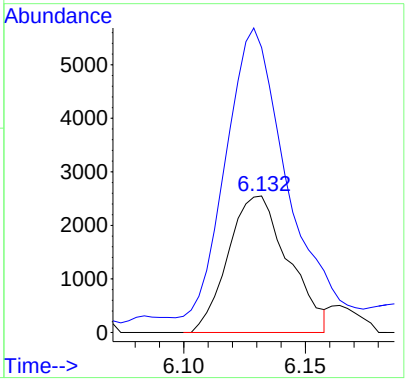


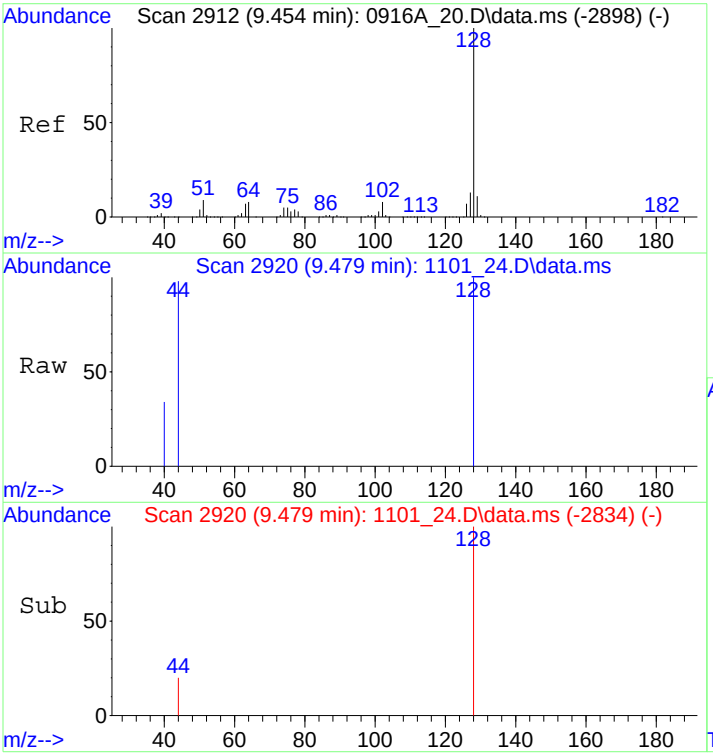


#63
M&P-XYLENE
Concen: 0.3851922 ppb
RT: 6.132 min Scan# 1879
Delta R.T. 0.013 min
Lab File: 1101_24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion:106 Resp: 4400

Ion	Ratio	Lower	Upper
106	100		
91	210.8	164.7	247.1

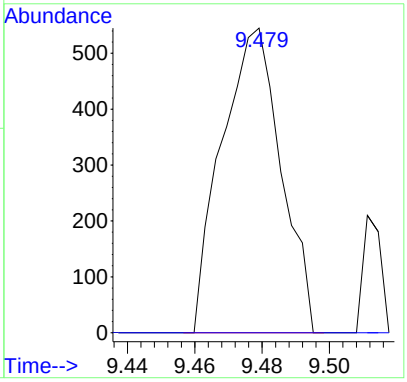




#92
Naphthalene
Concen: 2.2050510 ppb
RT: 9.479 min Scan# 2920
Delta R.T. 0.026 min
Lab File: 1101 24.D
Acq: 1 Nov 2014 6:07 pm

Tgt Ion:128 Resp: 668

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#



Calibration

Instrument: VOCMS21
Method: V821I16N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0916A_11.D	.25	9/16/2014 6:09:00 PM
0916A_12.D	.5	9/16/2014 6:30:00 PM
0916A_13.D	1	9/16/2014 6:53:00 PM
0916A_14.D	2	9/16/2014 7:15:00 PM
0916A_15.D	5.0	9/16/2014 7:37:00 PM
0916A_16.D	10	9/16/2014 9:05:00 PM
0916A_17.D	25	9/16/2014 9:27:00 PM
0916A_18.D	40	9/16/2014 9:49:00 PM
0916A_20.D	100	9/16/2014 10:33:00 PM
0916A_21.D	200	9/16/2014 10:55:00 PM
0916A_25.D	1A	9/17/2014 12:23:00 AM
0916A_26.D	2.5A	9/17/2014 12:45:00 AM
0916A_27.D	5A	9/17/2014 1:07:00 AM
0916A_28.D	7.5A	9/17/2014 1:29:00 AM
0916A_29.D	10A	9/17/2014 1:52:00 AM
0916A_30.D	12A	9/17/2014 3:12:00 AM
0916A_31.D	15A	9/17/2014 3:34:00 AM
0916A_32.D	17A	9/17/2014 3:56:00 AM
0916A_33.D	20A	9/17/2014 4:18:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS21
Computer Name : VOCCOMPAI

Released By : Brett Andersen
Date Released : 9/17/2014 11:10:15 AM

Run ID : 091614a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0916A_05	MS								1	09/16/14 1157	
2	0916A_07	INSTBLK	V821I03N						1	1	09/16/14 1346	"water ISSURR14G23644"
3	0916A_07	INSTBLK VMS								1	09/16/14 1346	
4	0916A_08	INSTBLK	V821I03N						1	1	09/16/14 1458	"water ISSURR14G23644"
5	0916A_08	INSTBLK VMS								1	09/16/14 1458	
6	0916A_11	STD VMS 0.25 PPB 14I15510	V821I16N						1	1	09/16/14 1809	"water ISSURR14G23644"
7	0916A_12	STD VMS 0.5 PPB 14I15510	V821I16N						1	1	09/16/14 1830	"water ISSURR14G23644"
8	0916A_13	STD VMS 1 PPB 14I15510	V821I16N						1	1	09/16/14 1853	"water ISSURR14G23644"
9	0916A_14	STD VMS 2 PPB 14I15510	V821I16N						1	1	09/16/14 1915	"water ISSURR14G23644"
10	0916A_15	STD VMS 5 PPB 14I15510	V821I16N						1	1	09/16/14 1937	"water ISSURR14G23644"
11	0916B_15	RL VMS 5 PPB 14I15510	V821I16N						1	1	09/16/14 1937	"water ISSURR14G23644"
12	0916A_16	STD VMS 10 PPB 14I15510	V821I16N						1	1	09/16/14 2105	"water ISSURR14G23644"
13	0916A_17	MSTD VMS 25 PPB 14I15510	V821I16N						1	1	09/16/14 2127	"water ISSURR14G23644"
14	0916A_18	STD VMS 40 PPB 14I15510	V821I16N						1	1	09/16/14 2149	"water ISSURR14G23644"
15	0916A_20	STD VMS 100 PPB 14I15510	V821I16N						1	1	09/16/14 2233	"water ISSURR14G23644"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

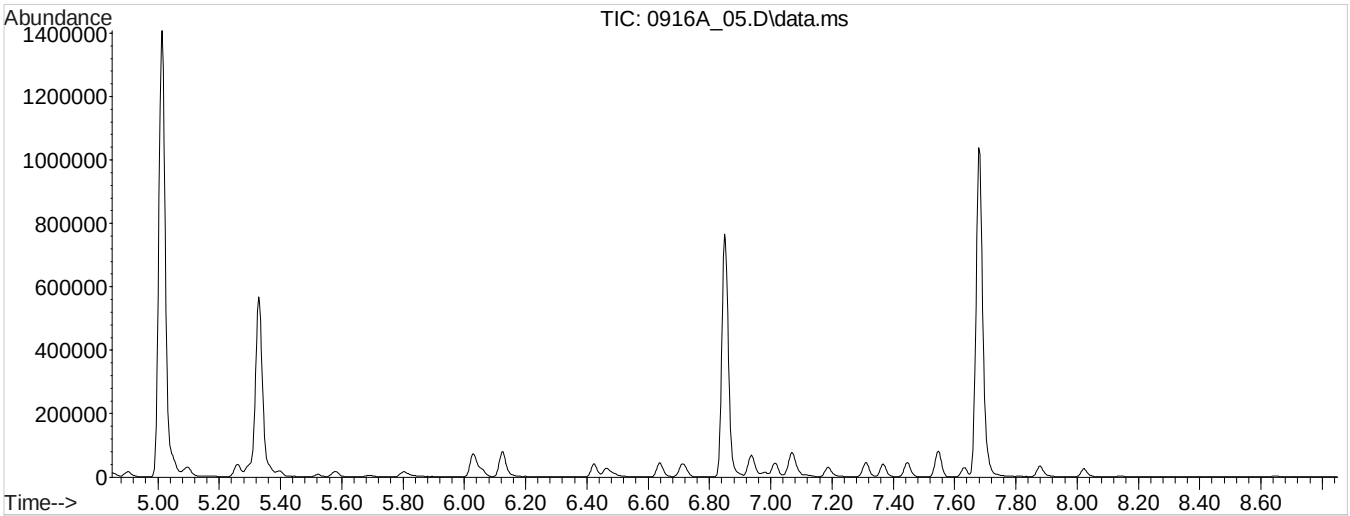
Instrument ID : VOCMS21
Computer Name : VOCCOMPAI
Released By : Brett Andersen
Date Released : 9/17/2014 11:10:15 AM
Run ID : 091614a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0916A_21	STD VMS 200 PPB 14I15510	V821I16N						1	1	09/16/14 2255	"water ISSURR14G23644"
17	0916A_23	SSCV VMS 25 PPB 14I15511	V821I16N						1	1	09/16/14 2339	"water ISSURR14G23644"
18	0916A_24	INSTBLK	V821I16N						1	1	09/17/14 0001	"water ISSURR14G23644"
19	0916A_25	STD VMS 1 PPB 14I02840	V821I16N						1	1	09/17/14 0023	"water ISSURR14G23644"
20	0916A_26	STD VMS 2.5 PPB 14I02840	V821I16N						1	1	09/17/14 0045	"water ISSURR14G23644"
21	0916A_27	STD VMS 5 PPB 14I02840	V821I16N						1	1	09/17/14 0107	"water ISSURR14G23644"
22	0916A_28	STD VMS 7.5 PPB 14I02840	V821I16N						1	1	09/17/14 0129	"water ISSURR14G23644"
23	0916A_29	MSTD VMS 10A PPB 14I02840	V821I16N						1	1	09/17/14 0152	"water ISSURR14G23644"
24	0916A_30	STD VMS 12.5 PPB 14I02840	V821I16N						1	1	09/17/14 0312	"water ISSURR14G23644"
25	0916A_31	STD VMS 15 PPB 14I02840	V821I16N						1	1	09/17/14 0334	"water ISSURR14G23644"
26	0916A_32	STD VMS 17.5 PPB 14I02840	V821I16N						1	1	09/17/14 0356	"water ISSURR14G23644"
27	0916A_33	STD VMS 20 PPB 14I02840	V821I16N						1	1	09/17/14 0418	"water ISSURR14G23644"
28	0916A_35	SSCV VMS 10A PPB 14I02840	V821I16N						1	1	09/17/14 0502	"water ISSURR14G23644"

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 05.D
Acq On : 16 Sep 2014 11:57 am
Operator : 644
Sample : MS
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014



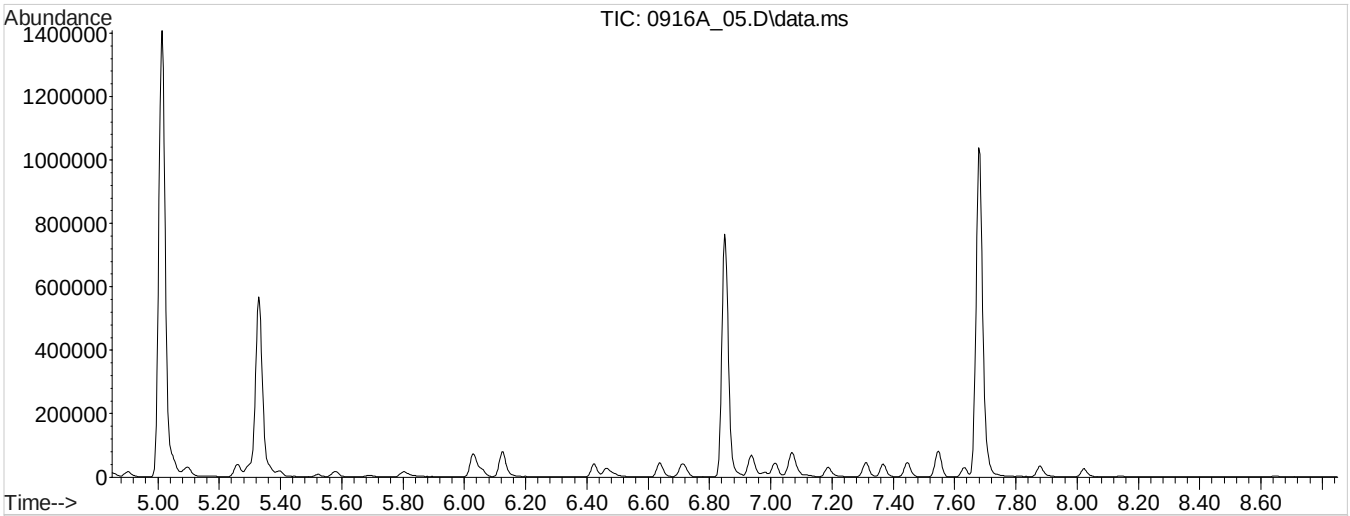
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	31808	PASS
75	95	30	60	49.7	84005	PASS
95	95	100	100	100.0	169003	PASS
96	95	5	9	6.7	11286	PASS
173	174	0.00	2	0.8	844	PASS
174	95	50	150	63.4	107080	PASS
175	174	5	9	7.6	8109	PASS
176	174	95	101	97.6	104544	PASS
177	176	5	9	6.8	7091	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 05.D
Acq On : 16 Sep 2014 11:57 am
Operator : 644
Sample : MS
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014



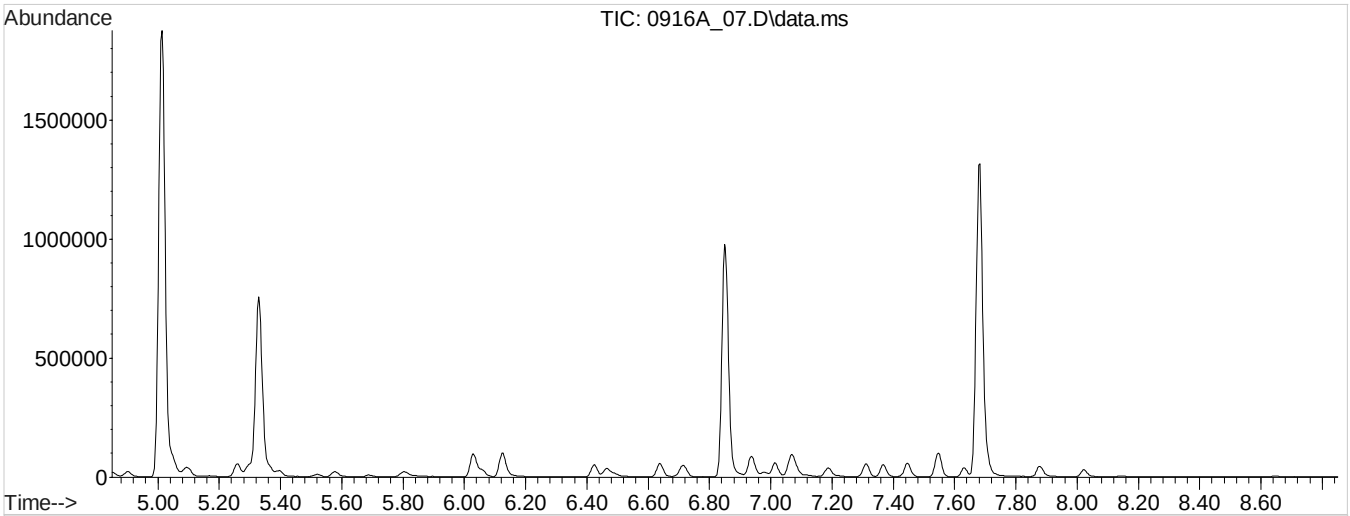
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2090

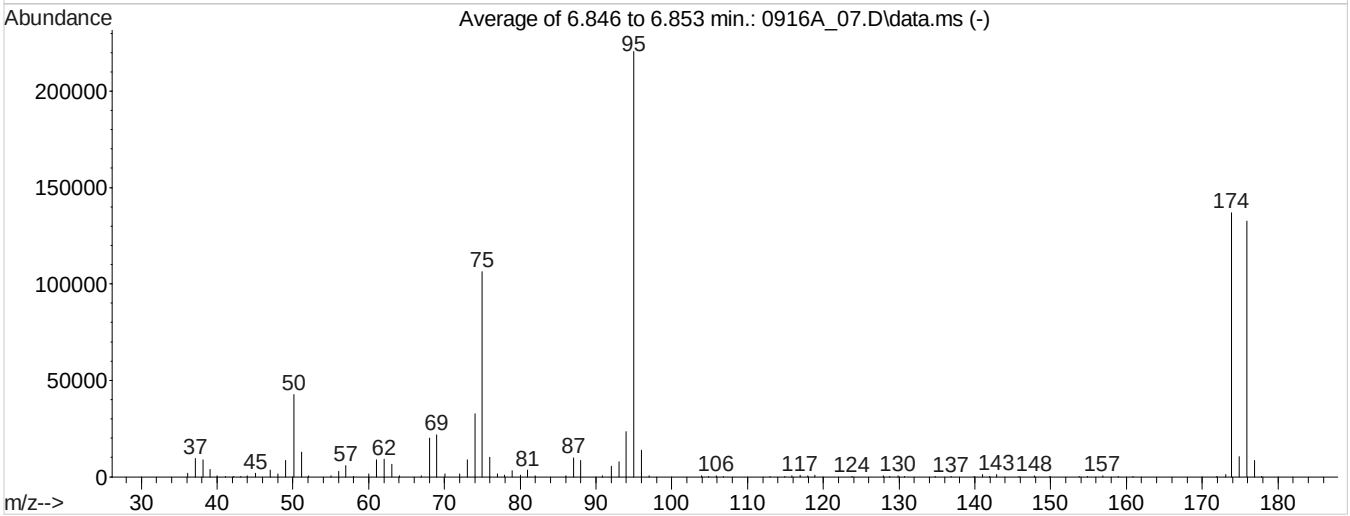
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	31808	PASS
75	95	30	60	49.7	84005	PASS
95	95	100	100	100.0	169003	PASS
96	95	5	9	6.7	11286	PASS
173	174	0.00	2	0.8	844	PASS
174	95	50	150	63.4	107080	PASS
175	174	5	9	7.6	8109	PASS
176	174	95	101	97.6	104544	PASS
177	176	5	9	6.8	7091	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 07.D
Acq On : 16 Sep 2014 1:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





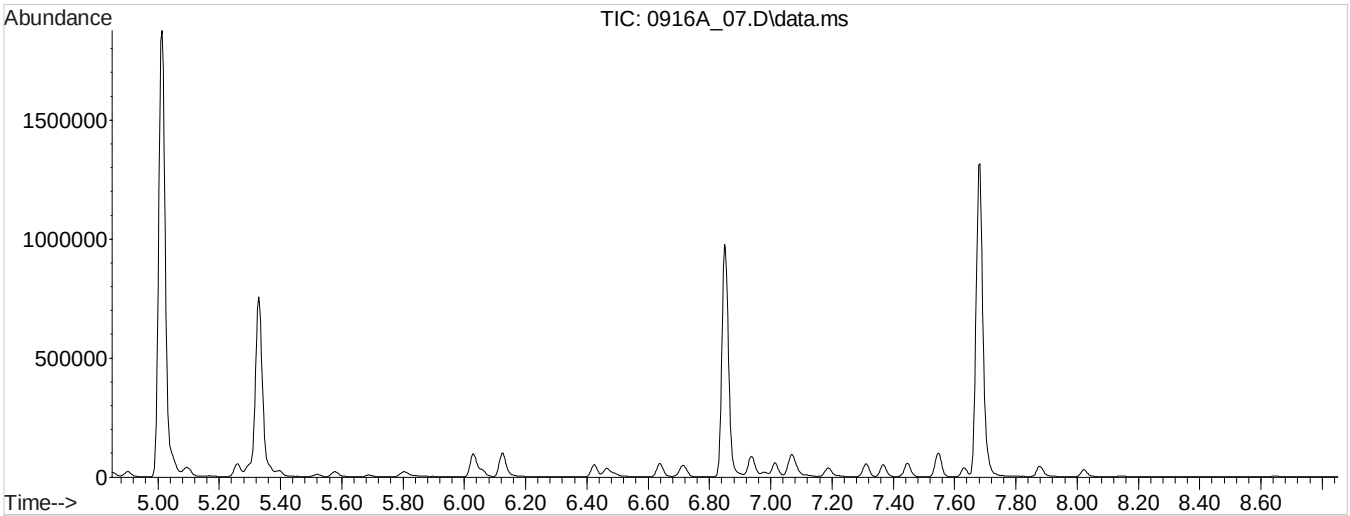
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

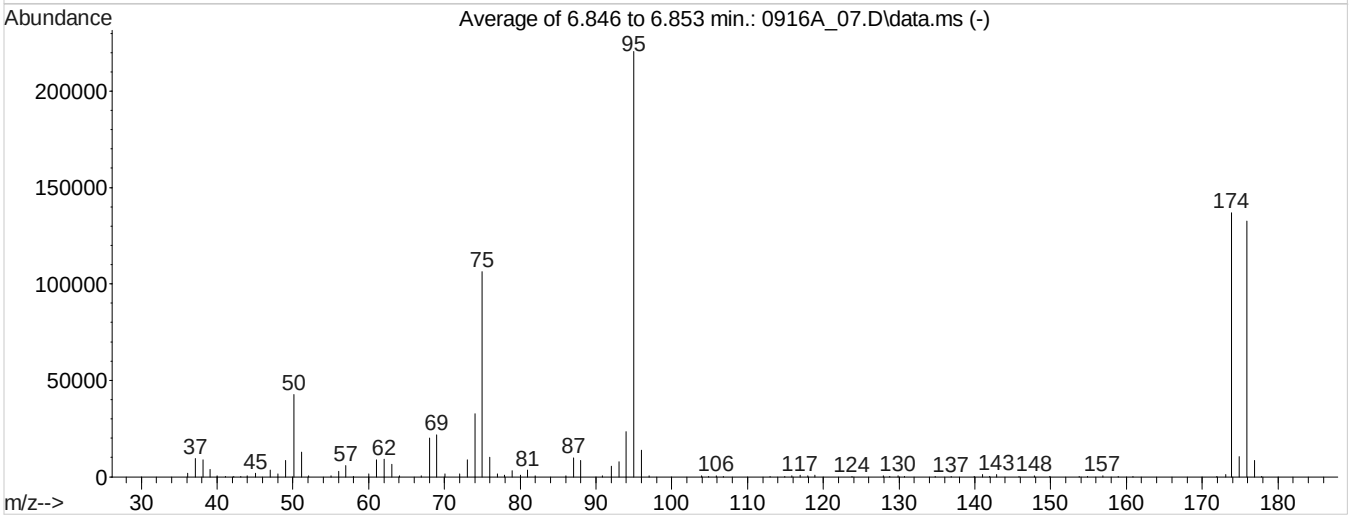
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	96.9	132747	PASS
177	176	5	9	6.3	8314	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 07.D
Acq On : 16 Sep 2014 1:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





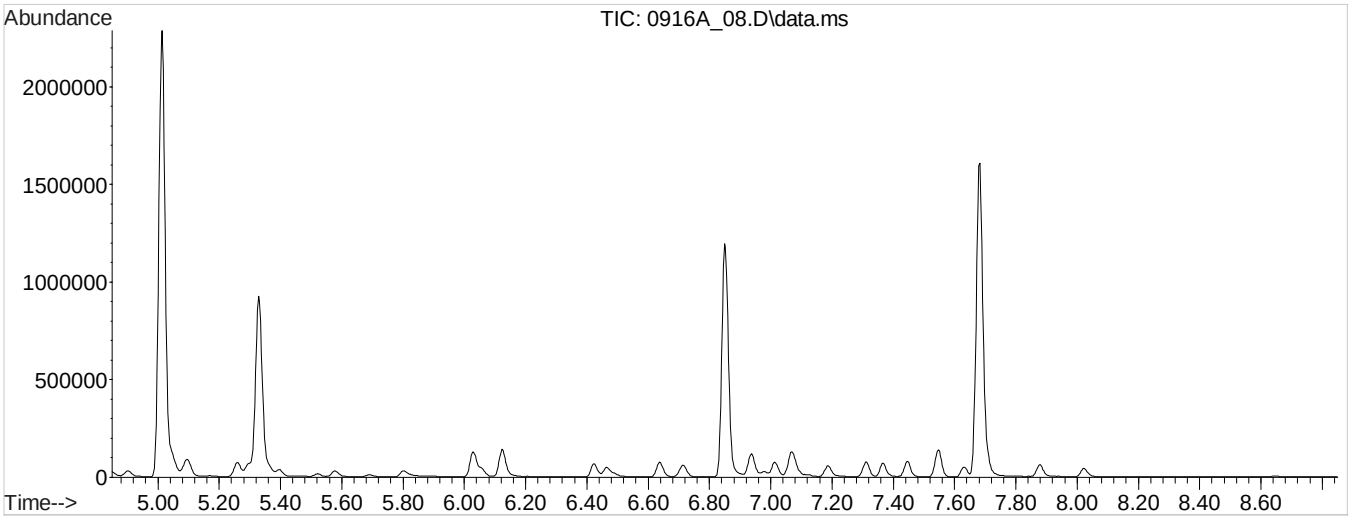
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

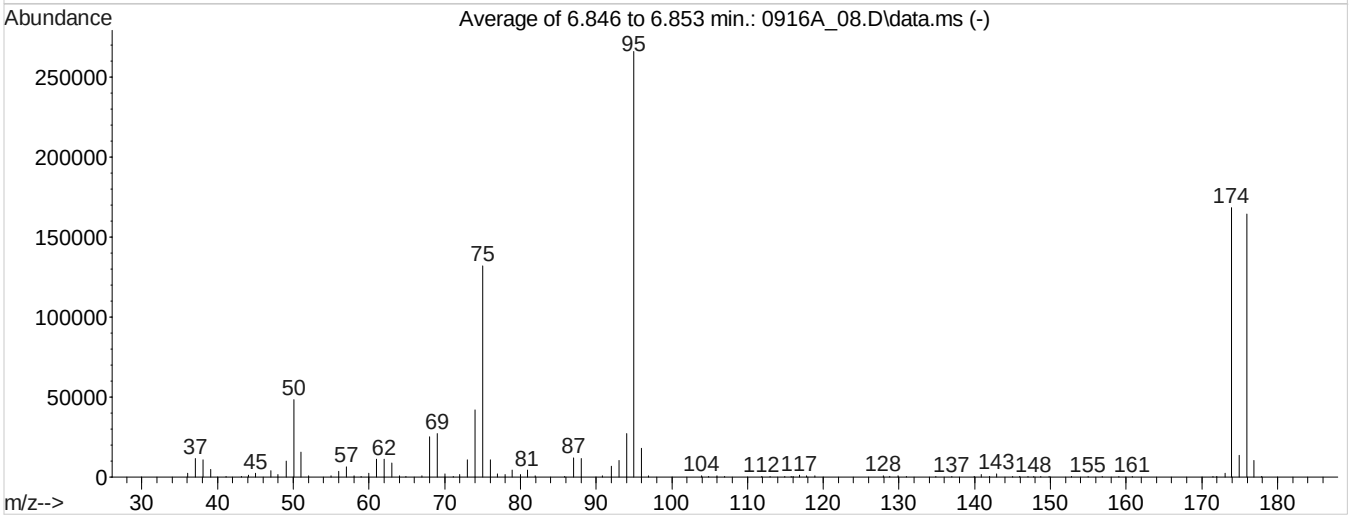
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	42605	PASS
75	95	30	60	48.2	106373	PASS
95	95	100	100	100.0	220629	PASS
96	95	5	9	6.2	13777	PASS
173	174	0.00	2	0.9	1181	PASS
174	95	50	150	62.1	136957	PASS
175	174	5	9	7.6	10434	PASS
176	174	95	101	96.9	132747	PASS
177	176	5	9	6.3	8314	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 08.D
Acq On : 16 Sep 2014 2:58 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





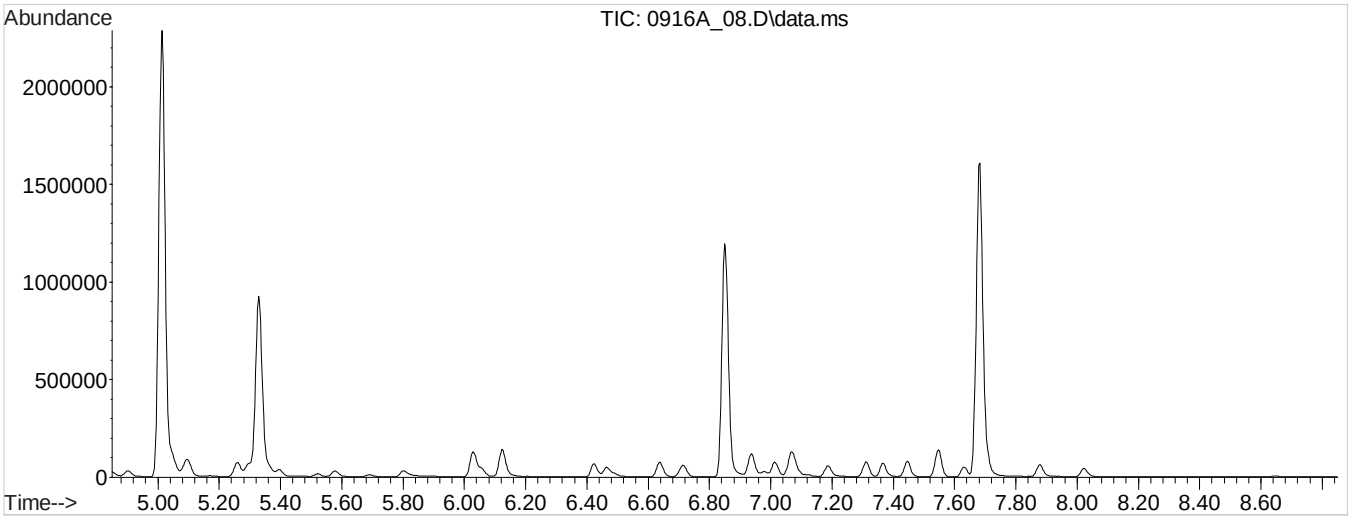
AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

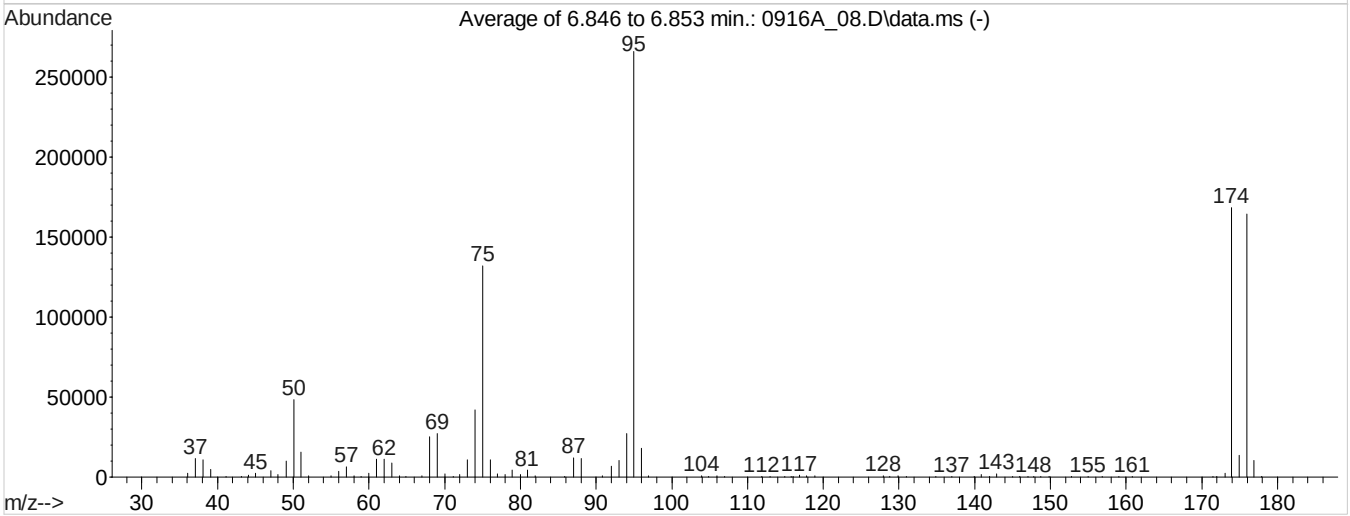
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	48357	PASS
75	95	30	60	49.5	131797	PASS
95	95	100	100	100.0	266219	PASS
96	95	5	9	6.7	17917	PASS
173	174	0.00	2	1.3	2203	PASS
174	95	50	150	63.3	168405	PASS
175	174	5	9	8.1	13611	PASS
176	174	95	101	97.7	164501	PASS
177	176	5	9	6.2	10256	PASS

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 08.D
Acq On : 16 Sep 2014 2:58 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V821I03N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
Last Update : Thu Sep 04 12:19:44 2014





AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2089

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	48357	PASS
75	95	30	60	49.5	131797	PASS
95	95	100	100	100.0	266219	PASS
96	95	5	9	6.7	17917	PASS
173	174	0.00	2	1.3	2203	PASS
174	95	50	150	63.3	168405	PASS
175	174	5	9	8.1	13611	PASS
176	174	95	101	97.7	164501	PASS
177	176	5	9	6.2	10256	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																							
TPH (GC/MS) LOW FRACTION																				0	0	0	1
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 624	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:10:15 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																							
TPH (GC/MS) LOW FRACTION																				0	0	0	1
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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INITIAL CALIBRATION SUMMARY

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Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

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BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 601-602	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: EPA	Released On	: 9/17/2014 11:07:06 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																							
TPH (GC/MS) LOW FRACTION																				0	0	0	1
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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INITIAL CALIBRATION SUMMARY

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Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260SC	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SC	Released On	: 9/17/2014 11:07:45 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																							
TPH (GC/MS) LOW FRACTION																				0	0	0	1
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
4-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
4AP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 6200	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SM 20th	Released On	: 9/17/2014 11:08:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260B	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																							
TPH (GC/MS) LOW FRACTION																				0	0	0	1
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260B	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1
2,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1
8260-1,4-DIFLUOROBENZENE																							
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1
8260-2-BROMO-1 -CHLOROPROPANE																							
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1
8260-1,4-DICHLOROBENZENE-D4																							
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1
sec-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1
1-Methylnaphthalene																				0	0	0	1
2-Methylnaphthalene																				0	0	0	1
SAP9-PENTAFLUOROBENZENE																							
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1
ISOBUTANOL																				0	0	0	1

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-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1
AP9-1,4-DIFLUOROBENZENE																							
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0
AP9-2-BROMO-1 -CHLOROPROPANE																							
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1
PENTACHLOROETHANE																				0	0	0	1
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1
AP9-1,4-DICHLOROBENZENE-D4																							

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260C	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																				0	0	0	1	
PROPENE		0.427	0.347	0.295	0.23	0.201	0.178	0.183	0.182	0.181										0.247156	36.39	1	0	
DICHLORODIFLUOROMETHANE	0.564	0.705	0.597	0.769	0.668	0.553	0.542	0.578	0.566	0.575										0.611766	12.43	0.124	1	0.1
CHLOROMETHANE	1.03	1.334	1.355	1.243	1.053	0.886	0.898	0.956	0.96	0.988										1.070272	16.41	0.998	0	0.1
VINYL CHLORIDE		1.158	1.216	1.183	1.046	0.882	0.902	0.956	0.992	1.074										1.045378	11.7	0.117	1	0.1
1,3-BUTADIENE	0.679	0.925	0.823	0.878	0.76	0.651	0.66	0.716	0.741	0.823										0.765608	12.28	0.123	1	
BROMOMETHANE					0.696	0.491	0.44	0.457	0.458	0.465										0.501045	19.3	0.998	0	0.1
CHLOROETHANE					0.203	0.165	0.165	0.179	0.167	0.132										0.168324	13.65	0.136	1	0.1
TRICHLOROFLUOROMETHANE	0.731	1.093	1.016	1.013	0.893	0.735	0.78	0.849	0.9	0.874										0.888319	13.81	0.138	1	0.1
DICHLOROFLUOROMETHANE	1.144	1.592	1.583	1.552	1.302	1.158	1.175	1.275	1.322	1.275										1.337705	13.11	0.131	1	
ETHYL ETHER	0.469	0.73	0.66	0.68	0.642	0.533	0.538	0.571	0.604	0.582										0.600904	13.06	0.131	1	
ACROLEIN		0.124	0.115	0.106	0.11	0.095	0.089	0.097	0.104	0.102										0.104633	10.14	0.101	1	
1,1-DICHLOROETHENE	0.952	1.237	1.132	1.224	1.025	0.906	0.943	1.026	1.069	1.045										1.055948	10.71	0.107	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.588	0.825	0.73	0.733	0.68	0.586	0.624	0.68	0.716	0.709										0.687081	10.69	0.107	1	0.1
ACETONE			0.253	0.206	0.204	0.178	0.158	0.177	0.185	0.18										0.192852	15	0.15	1	0.1
IODOMETHANE				0.692	0.779	0.761	0.849	1.005	1.037	0.965										0.869779	15.36	0.154	1	
CARBON DISULFIDE	2.229	2.84	2.575	2.593	2.298	2.05	2.162	2.453	2.554	2.582										2.433482	9.96	0.1	1	0.1
METHYLENE CHLORIDE			0.995	0.947	0.786	0.674	0.685	0.779	0.793	0.787										0.805789	14.03	0.14	1	0.1
ACRYLONITRILE	0.164	0.237	0.257	0.234	0.244	0.236	0.237	0.255	0.264	0.262										0.238862	12.08	0.121	1	
n-Hexane	0.669	1.021	1.02	0.964	0.891	0.793	0.812	0.937	0.923	0.919										0.894767	12.23	0.122	1	
TRANS-1,2-DICHLOROETHENE	0.622	0.775	0.838	0.787	0.714	0.659	0.655	0.778	0.776	0.783										0.738605	9.66	0.097	1	0.1

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	1.634	2.26	2.317	2.248	2.136	1.868	1.91	2.136	2.186	2.199										2.08949	10.34	0.103	1	0.1
1,1-DICHLOROETHANE	1.313	1.589	1.603	1.548	1.402	1.261	1.355	1.524	1.519	1.529										1.464298	8.29	0.083	1	0.2
VINYL ACETATE	0.893	1.12	1.318	1.409	1.231	1.073	1.192	1.264	1.188	0.994										1.168171	13.13	0.131	1	
DI-ISOPROPYL ETHER	2.096	2.987	2.881	2.959	2.686	2.4	2.557	2.899	2.925	2.947										2.733644	10.89	0.109	1	
1,2-Dichloropropane	0.9	1.134	1.059	1.112	1.001	0.896	1.039	1.146	1.149	1.179										1.061469	9.63	0.096	1	
CIS-1,2-DICHLOROETHENE	0.54	0.952	0.799	0.832	0.735	0.674	0.744	0.801	0.805	0.811										0.769104	14.08	0.141	1	0.1
2-BUTANONE (MEK)		0.073	0.102	0.071	0.091	0.081	0.083	0.084	0.091	0.091										0.085347	11.49	0.115	1	0.1
BROMOCHLOROMETHANE	0.272	0.397	0.409	0.397	0.376	0.347	0.368	0.398	0.403	0.4										0.376727	11	0.11	1	
TETRAHYDROFURAN				0.285	0.252	0.219	0.215	0.217	0.227	0.223										0.233927	11.02	0.11	1	
CHLOROFORM	1.091	1.268	1.355	1.286	1.172	1.084	1.2	1.288	1.279	1.285										1.23083	7.37	0.074	1	0.2
DIBROMOFLUOROMETHANE	0.495	0.491	0.496	0.469	0.492	0.511	0.512	0.513	0.52	0.521										0.501988	3.2	0.032	1	
1,1,1-TRICHLOROETHANE	0.727	1.015	1.108	1.101	0.946	0.897	1.014	1.08	1.086	1.089										1.006217	12.01	0.12	1	0.1
CARBON TETRACHLORIDE	0.573	0.969	0.937	0.918	0.832	0.792	0.905	0.979	0.986	1.01										0.890101	14.72	0.147	1	0.1
1,1-Dichloropropene	0.909	1.239	1.304	1.224	1.066	1.024	1.155	1.235	1.208	1.225										1.158918	10.51	0.105	1	
2,2,4-TRIMETHYLPENTANE	3.233	3.997	4.179	4.103	3.725	3.438	3.866	4.197	4.163	4.25										3.915122	8.92	0.089	1	
HEPTANE	1.033	1.436	1.695	1.609	1.613	1.479	1.639	1.74	1.73	1.755										1.572889	13.85	0.139	1	
BENZENE	2.73	3.499	3.633	3.532	3.196	2.933	3.265	3.459	3.449	3.568										3.326471	8.9	0.089	1	0.5
1,2-DICHLOROETHANE	0.731	0.902	0.948	0.911	0.881	0.789	0.875	0.915	0.903	0.907										0.876153	7.51	0.075	1	0.1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.328	0.391	0.432	0.418	0.366	0.343	0.375	0.414	0.408	0.407										0.388255	8.84	0.088	1	0.2
1,2-DICHLOROPROPANE	0.221	0.357	0.36	0.35	0.304	0.291	0.321	0.352	0.344	0.345										0.324422	13.3	0.133	1	0.1
DIBROMOMETHANE	0.142	0.235	0.208	0.205	0.2	0.172	0.19	0.205	0.203	0.206										0.196627	12.57	0.126	1	

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Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.328	0.506	0.523	0.471	0.454	0.407	0.476	0.518	0.522	0.534										0.473839	13.6	0.136	1	0.2
a,a,a-Trifluorotoluene	0.512	0.511	0.512	0.492	0.498	0.489	0.499	0.501	0.493	0.472										0.498061	2.46	0.025	1	
-CHLOROETHYL VINYL ETHER		0.082	0.111	0.097	0.109	0.125	0.109	0.113	0.124	0.13										0.11106	13.49	0.135	1	
CIS-1,3-DICHLOROPROPENE	0.474	0.549	0.627	0.61	0.597	0.553	0.65	0.72	0.724	0.74										0.62437	13.86	0.139	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.102	0.149	0.165	0.155	0.161	0.145	0.15	0.156	0.162	0.159										0.150385	12.18	0.122	1	0.1
TOLUENE-D8	1.309	1.305	1.309	1.24	1.28	1.277	1.298	1.297	1.264	1.234										1.281335	2.16	0.022	1	
TOLUENE	1.568	2.198	2.138	1.988	1.819	1.623	1.821	1.977	1.946	1.985										1.906215	10.61	0.106	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.099	0.122	0.116	0.109	0.106	0.124	0.139	0.141	0.147										0.122453	13.88	0.139	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.727	2.018	2.145	2.009	1.805	1.631	1.72	1.928	1.93	1.915										1.882867	8.46	0.085	1	0.1
TETRACHLOROETHENE	1.288	1.791	1.87	1.7	1.523	1.365	1.502	1.714	1.752	1.786										1.629039	12.1	0.121	1	0.2
1,3-Dichloropropane	3.53	4.382	4.086	4	3.617	3.267	3.459	3.753	3.803	3.768										3.766505	8.67	0.087	1	
2-HEXANONE			0.761	0.65	0.839	0.757	0.798	0.845	0.938	0.915										0.812815	11.41	0.114	1	0.1
CHLORODIBROMOMETHANE		1.731	1.574	1.582	1.521	1.404	1.581	1.766	1.88	1.883										1.658134	9.97	0.1	1	0.1
1,2-DIBROMOETHANE	1.502	1.685	1.603	1.664	1.576	1.49	1.587	1.75	1.795	1.775										1.642784	6.63	0.066	1	0.1
CHLOROBENZENE	5.709	7.38	7.304	6.709	5.781	5.297	5.945	6.62	6.779	6.989										6.451333	11.16	0.112	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.28	1.67	1.709	1.722	1.562	1.512	1.712	1.906	1.937	1.968										1.697925	12.47	0.125	1	
ETHYLBENZENE	2.653	3.662	3.659	3.666	3.266	3.143	3.463	3.897	3.999	4.124										3.553273	12.4	0.124	1	0.1
M&P-XYLENE	3.196	4.361	4.619	4.467	3.955	3.911	4.335	4.763	4.941	5.165										4.371278	13.09	0.131	1	0.1
O-XYLENE	3.291	4.415	4.611	4.247	3.835	3.582	3.947	4.473	4.511	4.646										4.155571	11.27	0.113	1	0.3
STYRENE		6.639	6.05	6.309	5.759	5.666	6.596	7.162	7.677	7.803										6.628967	11.79	0.118	1	0.3
Bromoform		0.743	0.893	0.818	0.769	0.749	0.876	0.957	1.07	1.117										0.887959	15.43	0.154	1	0.1

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Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	8.02	11.59	11.86	11.38	10.18	9.76	10.93	12.19	12.46	12.66										11.10407	12.91	0.129	1	0.1
4-BROMOFLUOROBENZENE	2.567	2.632	2.595	2.447	2.532	2.645	2.586	2.654	2.675	2.598										2.59308	2.58	0.026	1	
Bromobenzene	4.352	5.621	5.828	5.461	4.718	4.4	4.866	5.377	5.538	5.668										5.182816	10.58	0.106	1	
1,1,2,2-TETRACHLOROETHANE	1.895	2.91	2.642	2.635	2.378	2.202	2.282	2.444	2.511	2.537										2.443572	11.38	0.114	1	0.3
1,2,3-TRICHLOROPROPANE			0.653	0.683	0.655	0.587	0.629	0.664	0.703	0.711										0.660605	6.09	0.061	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.575	0.608	0.485	0.559	0.533	0.586	0.68	0.733	0.745										0.611329	14.66	0.147	1	
n-Propylbenzene	10.53	14.62	14.81	14.24	12.58	12.24	13.75	15.12	15.59	14.35										13.78357	11.27	0.113	1	
4-ETHYLTOLUENE	8.29	11.56	11.16	10.8	9.95	9.57	10.75	11.88	12.22	12.46										10.86318	11.94	0.119	1	
2-Chlorotoluene	1.86	2.682	2.497	2.616	2.282	2.108	2.394	2.62	2.7	2.81										2.456866	12.13	0.121	1	
4-Chlorotoluene	5.604	8.305	7.953	7.872	7.237	6.908	7.762	8.604	8.731	9.026										7.800333	12.98	0.13	1	
1,3,5-Trimethylbenzene	7.47	9.54	9.77	9.68	8.56	8.12	9.2	10.2	10.52	10.98										9.40328	11.62	0.116	1	
tert-Butylbenzene	5.257	7.92	8.03	8.095	6.835	6.706	7.639	8.439	8.565	8.809										7.629434	14.16	0.142	1	
1,2,4-Trimethylbenzene	6.14	9.26	9.23	9.12	8.32	7.86	8.89	9.96	10.2	10.44										8.94187	14.18	0.142	1	
sec-Butylbenzene	9.59	13.87	13.63	13.02	11.36	11.04	12.53	13.91	14.2	13.81										12.69765	12.18	0.122	1	
1,3-DICHLOROBENZENE	3.264	4.185	4.525	4.718	3.876	3.641	4.158	4.653	4.77	4.889										4.26789	12.67	0.127	1	0.6
p-Isopropyltoluene	6.54	9.49	10.33	9.940001	9.01	8.62	9.83	10.86	11.29	11.75										9.76767	15.33	0.153	1	
DICYCLOPENTADIENE	9.34	13.3	12.82	13.41	12.02	11.35	12.85	14.37	14.66	14.33										12.84556	12.59	0.126	1	
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.718	2.295	2.065	1.99	1.79	1.64	1.822	1.935	1.982	2.006										1.924168	9.86	0.099	1	
1,2,3-TRIMETHYLBENZENE	2.951	4.234	4.4	4.361	3.904	3.469	3.928	4.178	4.208	4.31										3.994494	11.54	0.115	1	
1,2-DICHLOROBENZENE	1.334	1.824	1.891	1.816	1.624	1.435	1.643	1.727	1.741	1.737										1.677066	10.46	0.105	1	0.4
n-Butylbenzene	2.602	3.892	3.967	4.288	3.885	3.491	4.113	4.397	4.354	4.318										3.930775	13.86	0.139	1	

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1,2-Dibromo-3-chloropropane				0.134	0.137	0.118	0.13	0.135	0.146	0.147										0.135128	7.31	0.073	1	0.05
1,2,4-Trichlorobenzene		0.741	0.804	0.872	0.906	0.774	0.917	1.013	1.063	1.082										0.90805	13.68	0.137	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.381	0.677	0.597	0.63	0.544	0.456	0.528	0.564	0.533	0.557										0.546882	15.31	0.153	1	
Naphthalene		0.692	1.056	1.509	1.906	1.64	1.989	2.236	2.433	2.599										1.784534	35.25	0.998	0	
1,2,3-Trichlorobenzene		0.661	0.751	0.832	0.802	0.666	0.78	0.847	0.935	0.955										0.803333	12.87	0.129	1	
1-Methylnaphthalene																				0	0	0	1	
2-Methylnaphthalene																				0	0	0	1	
SAP9-PENTAFLUOROBENZENE																								
ETHANOL											0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006884	10.35	0.103	1	
Bromoethane											0.515	0.496	0.48	0.493	0.46	0.424	0.408	0.416	0.412	0.455995	9.14	0.091	1	
2-PROPANOL											0.039	0.038	0.04	0.043	0.046	0.04	0.037	0.04	0.038	0.0401	6.72	0.067	1	
Methyl Acetate											0.449	0.442	0.445	0.459	0.445	0.459	0.42	0.416	0.401	0.437487	4.62	0.046	1	0.1
ACETONITRILE											0.084	0.087	0.088	0.092	0.088	0.09	0.082	0.083	0.078	0.085743	4.93	0.049	1	
ALLYL CHLORIDE											0.323	0.36	0.366	0.369	0.365	0.334	0.342	0.333	0.325	0.346224	5.37	0.054	1	
tert-BUTYL ALCOHOL											0.093	0.09	0.083	0.092	0.097	0.099	0.087	0.085	0.08	0.089563	7.19	0.072	1	
chloroprene											0.731	0.725	0.738	0.738	0.722	0.687	0.69	0.677	0.665	0.708232	4	0.04	1	
ETHYL TERT-BUTYL ETHER											2.168	2.181	2.289	2.276	2.246	2.174	2.122	2.083	2.057	2.177364	3.76	0.038	1	
PROPIONITRILE											0.091	0.087	0.094	0.098	0.096	0.099	0.096	0.095	0.094	0.094343	3.75	0.038	1	
Ethyl Acetate											0.576	0.588	0.603	0.642	0.632	0.661	0.61	0.604	0.591	0.612038	4.53	0.045	1	
METHACRYLONITRILE											0.275	0.273	0.289	0.305	0.304	0.296	0.3	0.298	0.291	0.292252	3.94	0.039	1	
Cyclohexane											1.342	1.325	1.28	1.324	1.291	1.215	1.227	1.201	1.196	1.266836	4.57	0.046	1	0.1
tert-butyl formate											0.252	0.266	0.297	0.289	0.272	0.311	0.289	0.303	0.302	0.286589	6.81	0.068	1	
ISOBUTANOL																				0	0	0	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS21	Review Method	: 8260C	Released By	: Brett Andersen
Method	: V821I16N	Review Protocol	: SW846	Released On	: 9/17/2014 11:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V821I16N -- ICal Updated Time: Wed Sep 17 10:39:25 2014

Parameter	.25	.5	1	2	5.0	10	25	40	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
-Amyl Alcohol											0.048	0.044	0.056	0.059	0.06	0.058	0.058	0.057	0.054	0.054948	9.86	0.099	1	
TERT-AMYL METHYL ETHER											1.769	1.931	2.057	2.167	2.184	1.904	2.086	2.068	1.98	2.016199	6.62	0.066	1	
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL											0.006	0.009	0.01	0.012	0.012	0.012	0.012	0.013	0.012	0.011102	19.45	0.998	0	
Methyl Cyclohexane											1.139	0.857	0.82	0.805	0.795	0.698	0.774	0.782	0.763	0.825828	15.16	0.152	1	0.1
-nitropropane											0.06	0.059	0.065	0.075	0.08	0.08	0.081	0.081	0.08	0.073628	12.7	0.127	1	
METHYL METHACRYLATE											0.284	0.317	0.34	0.364	0.378	0.347	0.372	0.37	0.363	0.34825	8.82	0.088	1	
,4-DIOXANE											0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004168	6.8	0.068	1	
n-octane											0.323	0.384	0.4	0.404	0.419	0.371	0.423	0.411	0.411	0.394143	7.92	0.079	1	
3,3-DIMETHYL-1-BUTANOL											0.011	0.021	0.023	0.025	0.026	0.027	0.025	0.026	0.025	0.023167	20.81	0.998	0	
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE											2.437	2.633	2.859	3.051	3.226	2.902	3.213	3.254	3.237	2.979101	9.9	0.099	1	
CIS-1,4-DICHLORO-2-BUTENE											0.505	0.546	0.611	0.649	0.639	0.618	0.651	0.638	0.638	0.610665	8.35	0.083	1	
Cyclohexanone											0.45	0.486	0.506	0.531	0.527	0.534	0.509	0.528	0.507	0.508509	5.32	0.053	1	
PENTACHLOROETHANE																				0	0	0	1	
Hexachloroethane											1.152	1.238	1.367	1.314	1.214	1.153	1.293	1.236	1.279	1.249422	5.74	0.057	1	
AP9-1,4-DICHLOROBENZENE-D4																								

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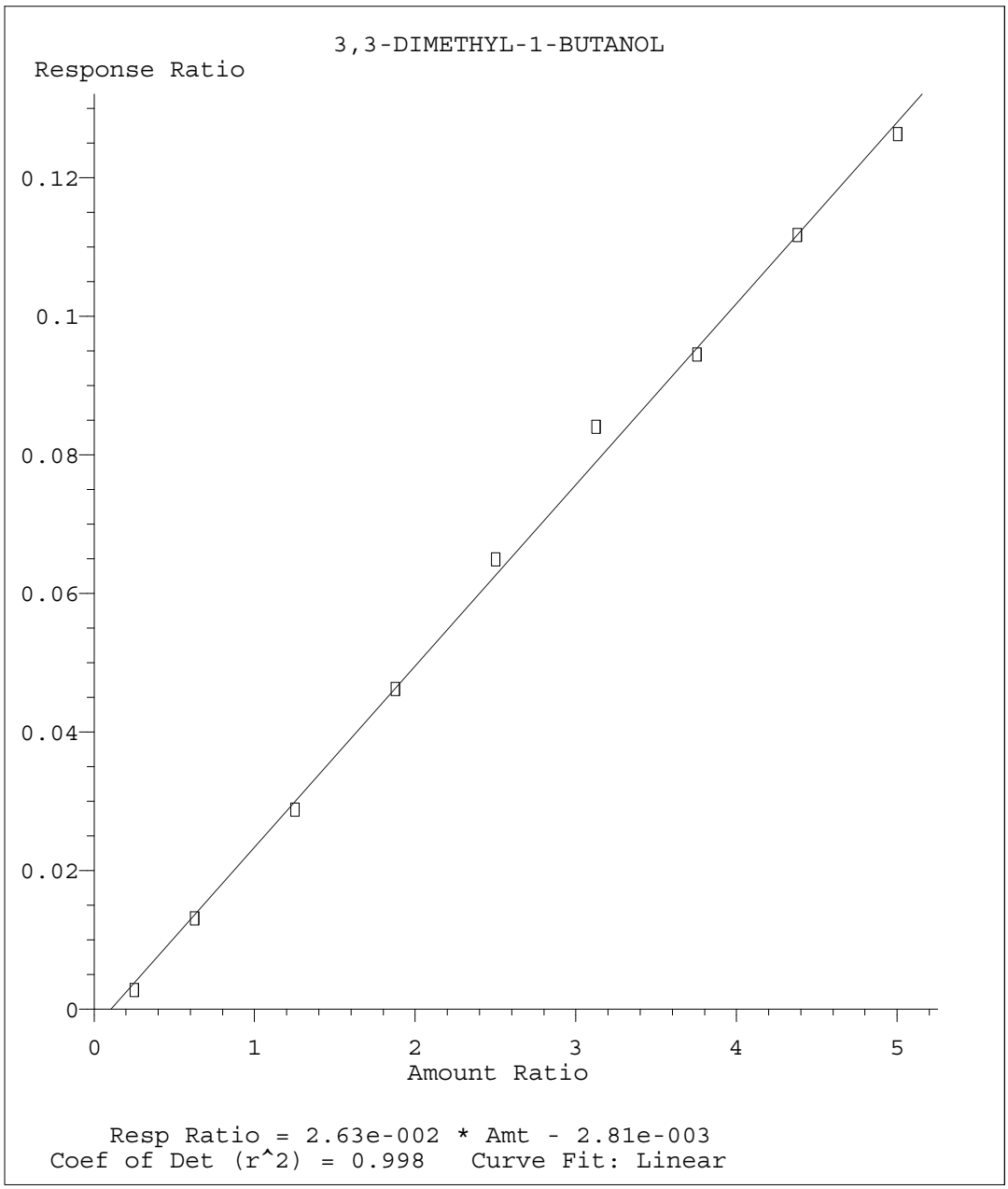
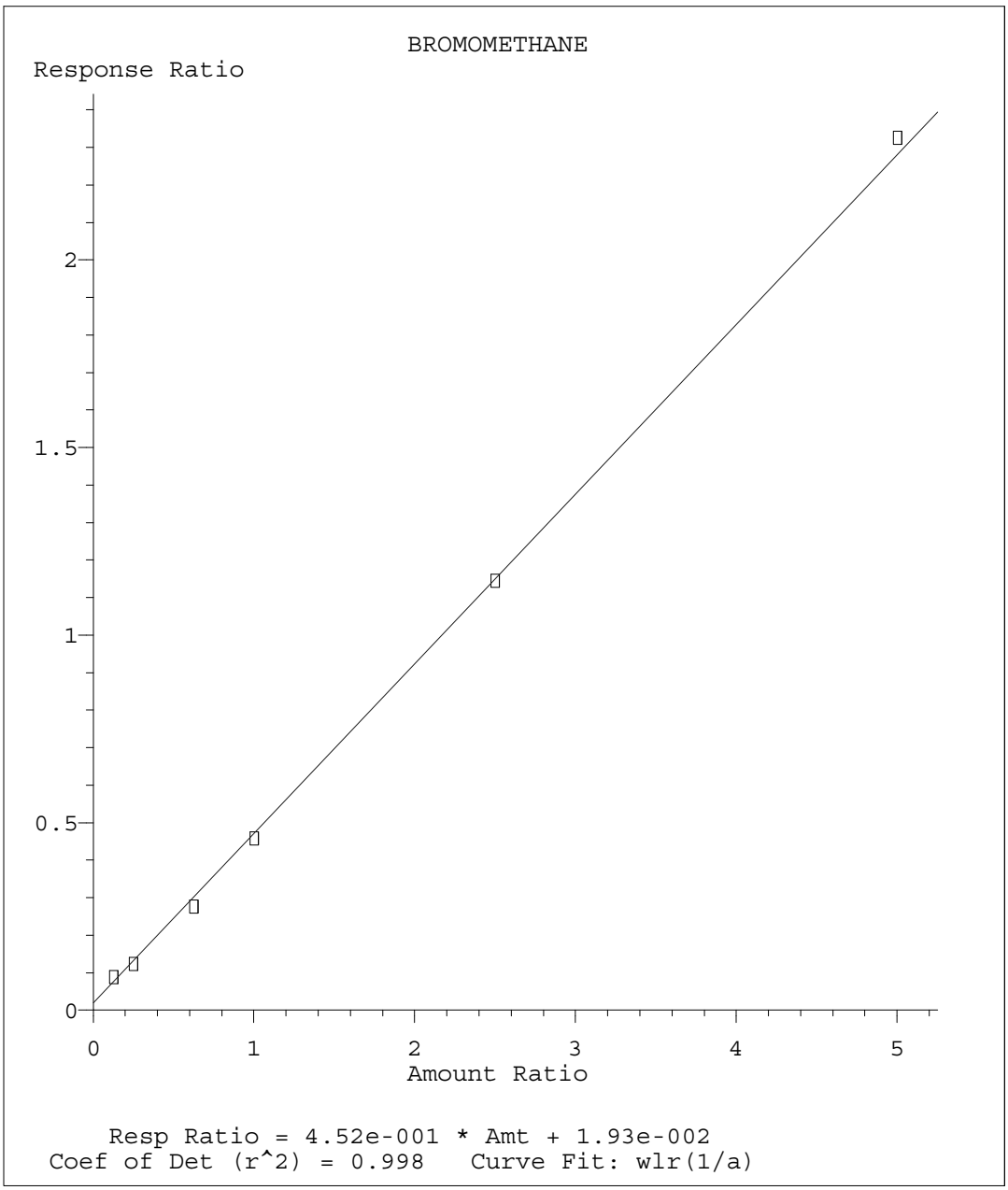
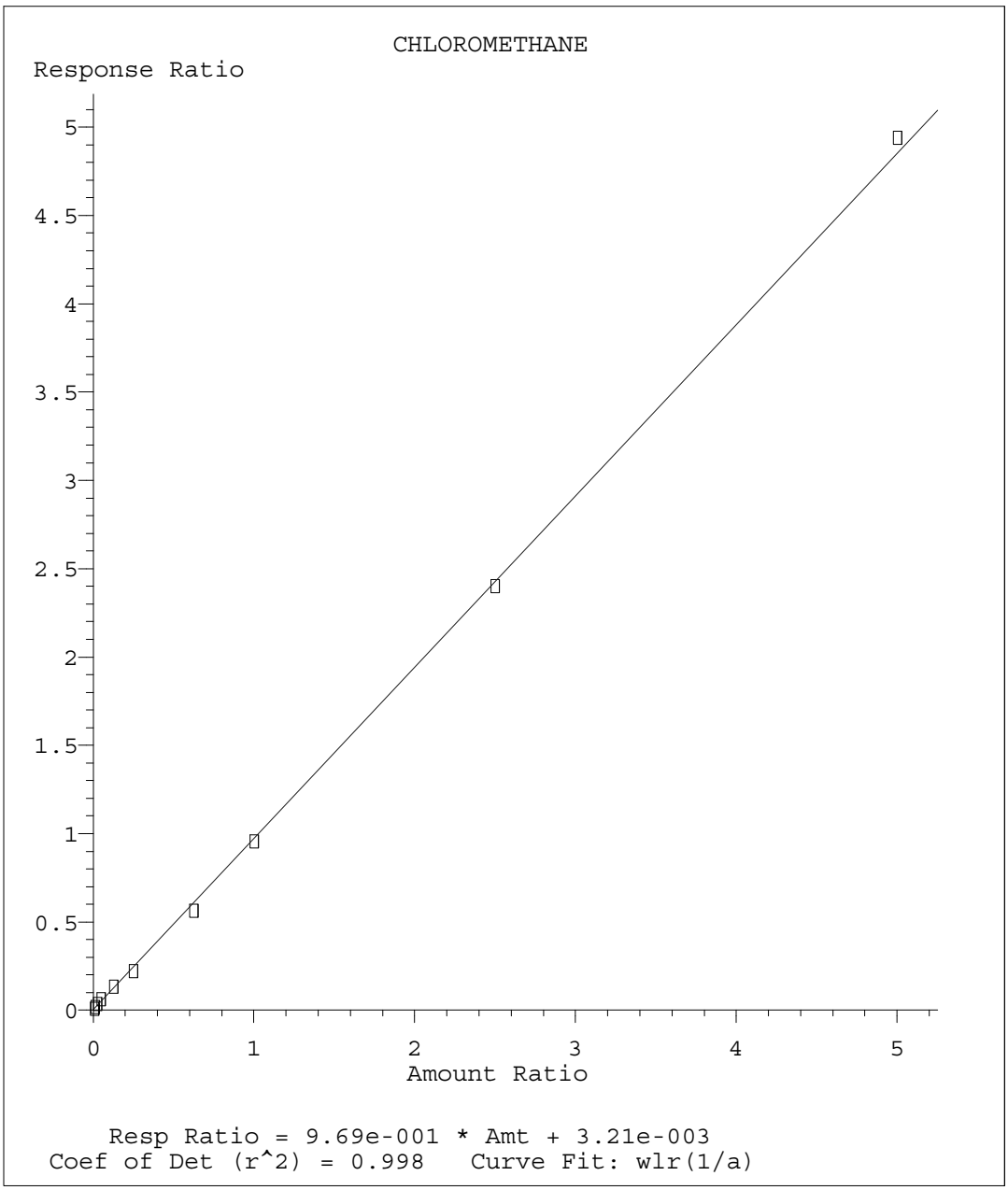


Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



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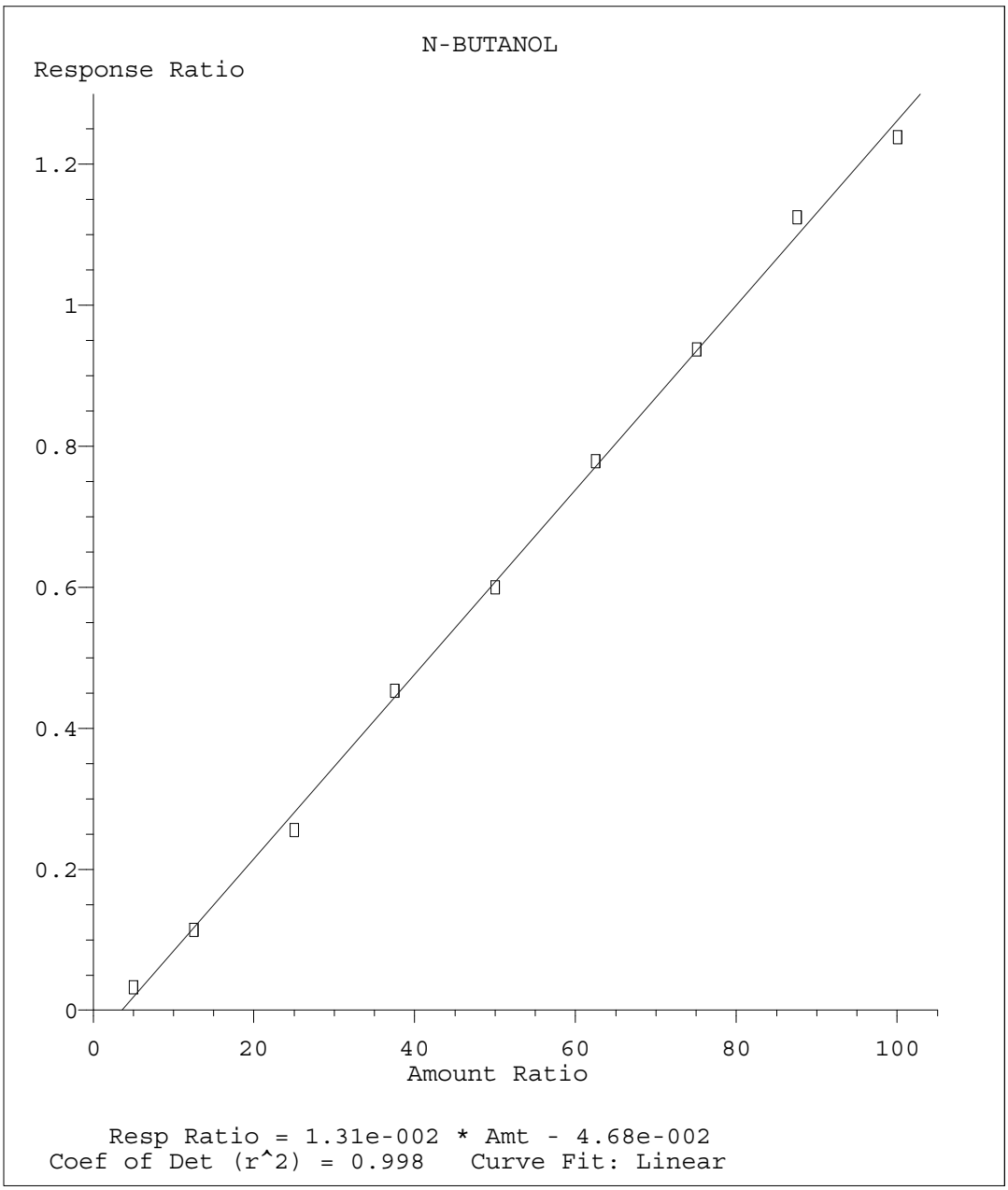
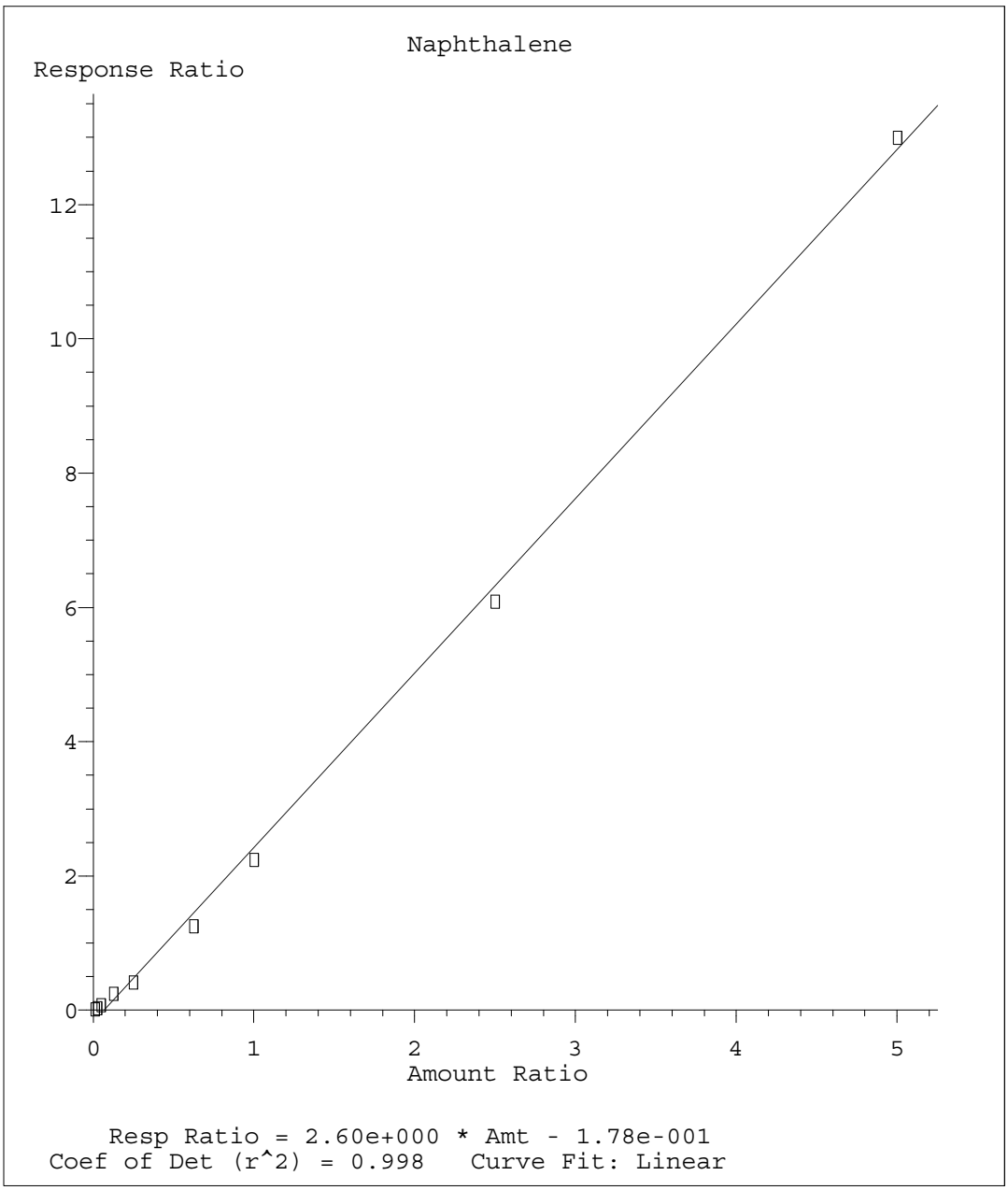
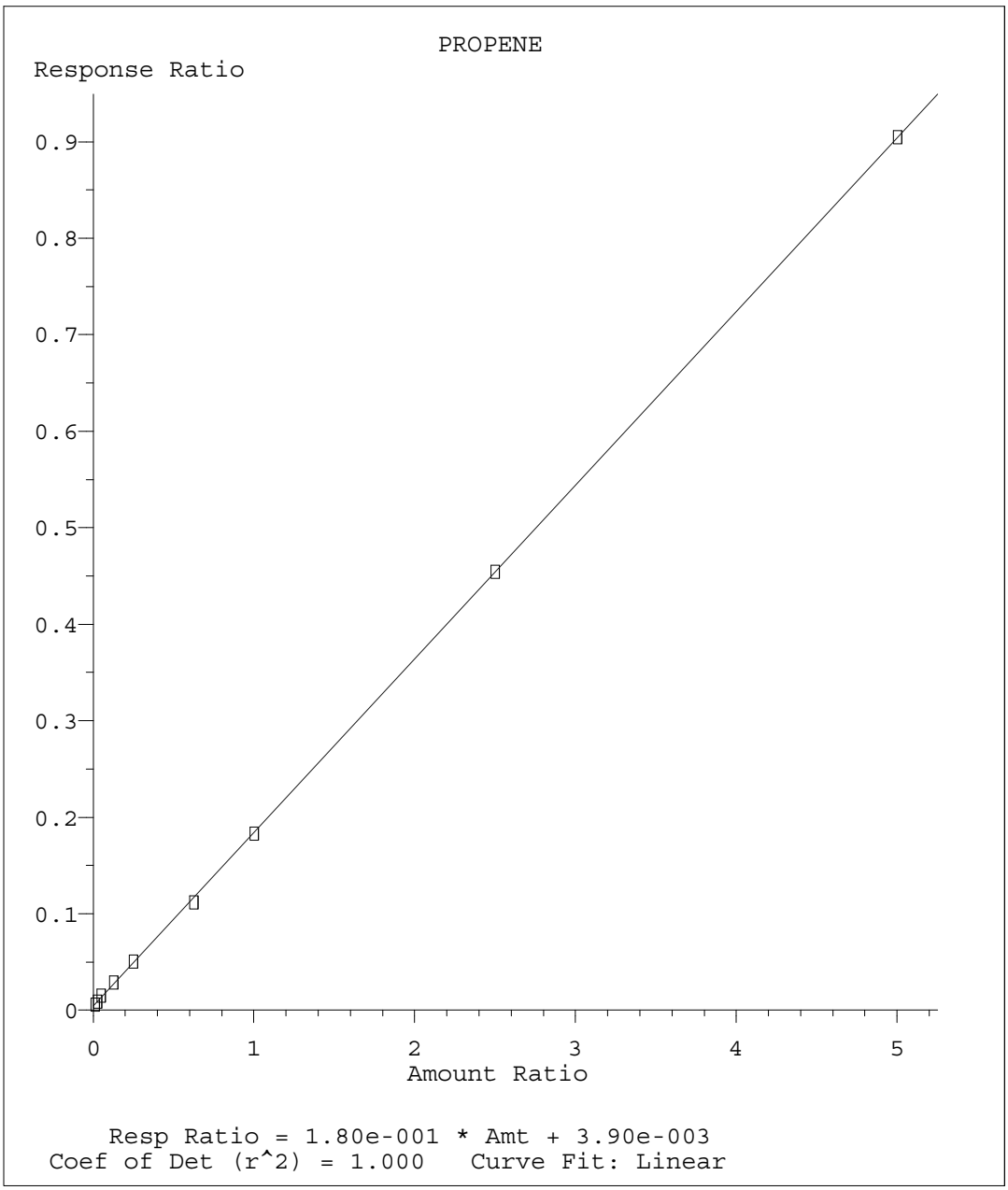


Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M



Method Name: C:\msdchem\1\methods\V821I16N.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	174180	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	391219	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	174180	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	391219	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	287182	42.1247954 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.31%		
46) a,a,a-Trifluorotoluene	4.567	146	535263	43.0378034 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.59%		
50) TOLUENE-D8	5.014	98	1374899	42.9708598 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.43%		
68) 4-BROMOFLUOROBENZENE	6.850	95	474143	41.9908913 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.98%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6721750	No Calib	
3) PROPENE	1.448	41	15623	5.5272897 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	45367	5.4604484 ppb #	86
5) CHLOROMETHANE	1.628	50	71471	5.2981919 ppb	97
6) VINYL CHLORIDE	1.686	62	71037	5.0036278 ppb	98
7) 1,3-BUTADIENE	1.699	39	51635	4.9660574 ppb	99
8) BROMOMETHANE	1.908	94	47232	5.9845712 ppb	99
9) CHLOROETHANE	1.991	66	13777	6.0267488 ppb	87
10) TRICHLOROFLUOROMETHANE	2.081	101	60617	5.0245726 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	88421	4.8670834 ppb	99
12) ETHYL ETHER	2.264	59	43571	5.3390748 ppb	98
13) ACROLEIN	2.576	56	37235	26.2032583 ppb	97
14) 1,1-DICHLOROETHENE	2.390	61	69621	4.8548004 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	46197	4.9508501 ppb	98
16) ACETONE	2.737	43	69309	26.4629804 ppb	97
17) IODOMETHANE	2.477	142	264637	22.4034799 ppb	99
18) CARBON DISULFIDE	2.419	76	156010	4.7206097 ppb	98
19) METHYLENE CHLORIDE	2.715	84	53390	4.8787907 ppb	98
20) ACRYLONITRILE	3.162	53	82845	25.5384141 ppb	96
21) n-Hexane	2.843	56	60512	4.9797257 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	48504	4.8354734 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	145063	5.1119926 ppb	96
24) 1,1-DICHLOROETHANE	3.139	63	95178	4.7860898 ppb	99
25) VINYL ACETATE	3.255	43	417902	26.3415780 ppb	99
26) DI-ISOPROPYL ETHER	3.052	45	182393	4.9129247 ppb	99
27) 2,2-Dichloropropane	3.486	77	67941	4.7130119 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	49913	4.7786188 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	31035	26.7756042 ppb	97
30) BROMOCHLOROMETHANE	3.535	130	25529	4.9897693 ppb	95
31) TETRAHYDROFURAN	3.666	42	17109	5.3854082 ppb	93
32) CHLOROFORM	3.563	83	79576	4.7605591 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	64270	4.7031698 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	56516	4.6752613 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.756	75	72407	4.6004661 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	252928	4.7569158 ppb		99
38)	HEPTANE	3.843	43	109545	5.1282404 ppb		98
39)	BENZENE	3.891	78	217015	4.8037435 ppb		94
40)	1,2-DICHLOROETHANE	3.998	62	59829	5.0281182 ppb		99
42)	TRICHLOROETHENE	4.210	130	45635	4.7070316 ppb		96
43)	1,2-DICHLOROPROPANE	4.502	62	37907	4.6792354 ppb		96
44)	DIBROMOMETHANE	4.451	93	24973	5.0862113 ppb		96
45)	BROMODICHLOROMETHANE	4.528	83	56679	4.7902378 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.843	63	67975	24.5107162 ppb		98
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	74487	4.7775382 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.255	58	100345	26.7212070 ppb		98
51)	TOLUENE	5.046	91	227112	4.7712706 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.293	110	13582	4.4418289 ppb		86
54)	1,1,2-TRICHLOROETHANE	5.396	97	39301	4.7934217 ppb		99
55)	TETRACHLOROETHENE	5.297	164	33151	4.6733339 ppb		97
56)	1,3-Dichloropropane	5.576	76	78749	4.8014038 ppb		100
57)	2-HEXANONE	5.792	58	91282	25.7902211 ppb		96
58)	CHLORODIBROMOMETHANE	5.518	129	33115	4.5863458 ppb		98
59)	1,2-DIBROMOETHANE	5.686	107	34323	4.7980681 ppb		98
60)	CHLOROBENZENE	6.026	112	125874	4.4807246 ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	34017	4.6008611 ppb	#	99
62)	ETHYLBENZENE	6.026	106	71108	4.5956986 ppb		100
63)	M&P-XYLENE	6.123	106	172216	9.0474615 ppb		99
64)	O-XYLENE	6.422	106	83488	4.6137607 ppb		97
65)	STYRENE	6.457	104	125389	4.3438548 ppb		99
66)	Bromoform	6.486	173	16748	4.3314333 ppb		98
67)	Isopropylbenzene	6.634	105	221673	4.5845049 ppb		100
69)	Bromobenzene	6.933	77	102729	4.5518605 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	51778	4.8661093 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.087	110	14265	4.9589703 ppb		89
72)	TRANS-1,4-DICHLORO-2-B...	7.113	53	12163	4.5690643 ppb	#	87
73)	n-Propylbenzene	6.933	91	273916	4.5637027 ppb		100
74)	4-ETHYLTOLUENE	7.010	105	216656	4.5801072 ppb		98
75)	2-Chlorotoluene	7.062	126	49681	4.6437683 ppb		97
76)	4-Chlorotoluene	7.181	91	157577	4.6391815 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	186385	4.5519079 ppb		100
78)	tert-Butylbenzene	7.309	119	148817	4.4794214 ppb		98
79)	1,2,4-Trimethylbenzene	7.364	105	181234	4.6545016 ppb		96
80)	sec-Butylbenzene	7.444	105	247336	4.4732776 ppb		99
81)	1,3-DICHLOROBENZENE	7.628	146	84388	4.5407668 ppb		99
82)	p-Isopropyltoluene	7.547	119	196250	4.6140318 ppb		99
83)	DICYCLOPENTADIENE	7.544	66	261648	4.6776309 ppb		99
85)	1,4-DICHLOROBENZENE	7.692	146	87559	4.6526219 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	190893	4.8861670 ppb		99
87)	1,2-DICHLOROBENZENE	8.020	146	79401	4.8407846 ppb		99
88)	n-Butylbenzene	7.875	91	189972	4.9414171 ppb		100
89)	1,2-Dibromo-3-chloropr...	8.644	157	6686	5.0589431 ppb		96
90)	1,2,4-Trichlorobenzene	9.193	180	44327	4.9911251 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.165	225	26611	4.9751681 ppb		95
92)	Naphthalene	9.457	128	93199	6.4012113 ppb		99
93)	1,2,3-Trichlorobenzene	9.611	180	39211	4.9905948 ppb		96
94)	1-Methylnaphthalene	10.335	142	8350	No Calib	#	
95)	2-Methylnaphthalene	10.457	142	12783	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.801	43	5338	0.8984367 ppb #	74
101)	ACETONITRILE	3.049	41	26840	23.0492190 ppb #	37
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.162	53	82845	8.6132003 ppb #	24
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	3.846	54	754	0.5884820 ppb #	1
107)	Ethyl Acetate	3.663	43	3209	0.3860690 ppb #	64
108)	METHACRYLONITRILE	3.898	67	1587	0.3998470 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	1776	0.4563066 ppb #	1
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	3.891	73	3862	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.210	83	12140	0.5887014 ppb #	43
117)	2-nitropropane	5.174	43	537	N.D.	
118)	METHYL METHACRYLATE	4.502	41	27376	3.1480743 ppb #	16
119)	1,4-DIOXANE	4.657	88	2643	25.3944028 ppb #	61
120)	n-octane	4.901	85	1078	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	5.792	57	30009	50.0581113 ppb #	46
123)	ETHYL METHACRYLATE	5.261	69	1695	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	6.888	53	952	0.3580103 ppb #	13
125)	Cyclohexanone	7.049	55	1872	0.8454129 ppb #	23
126)	PENTACHLOROETHANE	7.364	117	5826	No Calib #	
127)	Hexachloroethane	7.869	117	2228	0.4095130 ppb #	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916B 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : RL VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:47:12 2014
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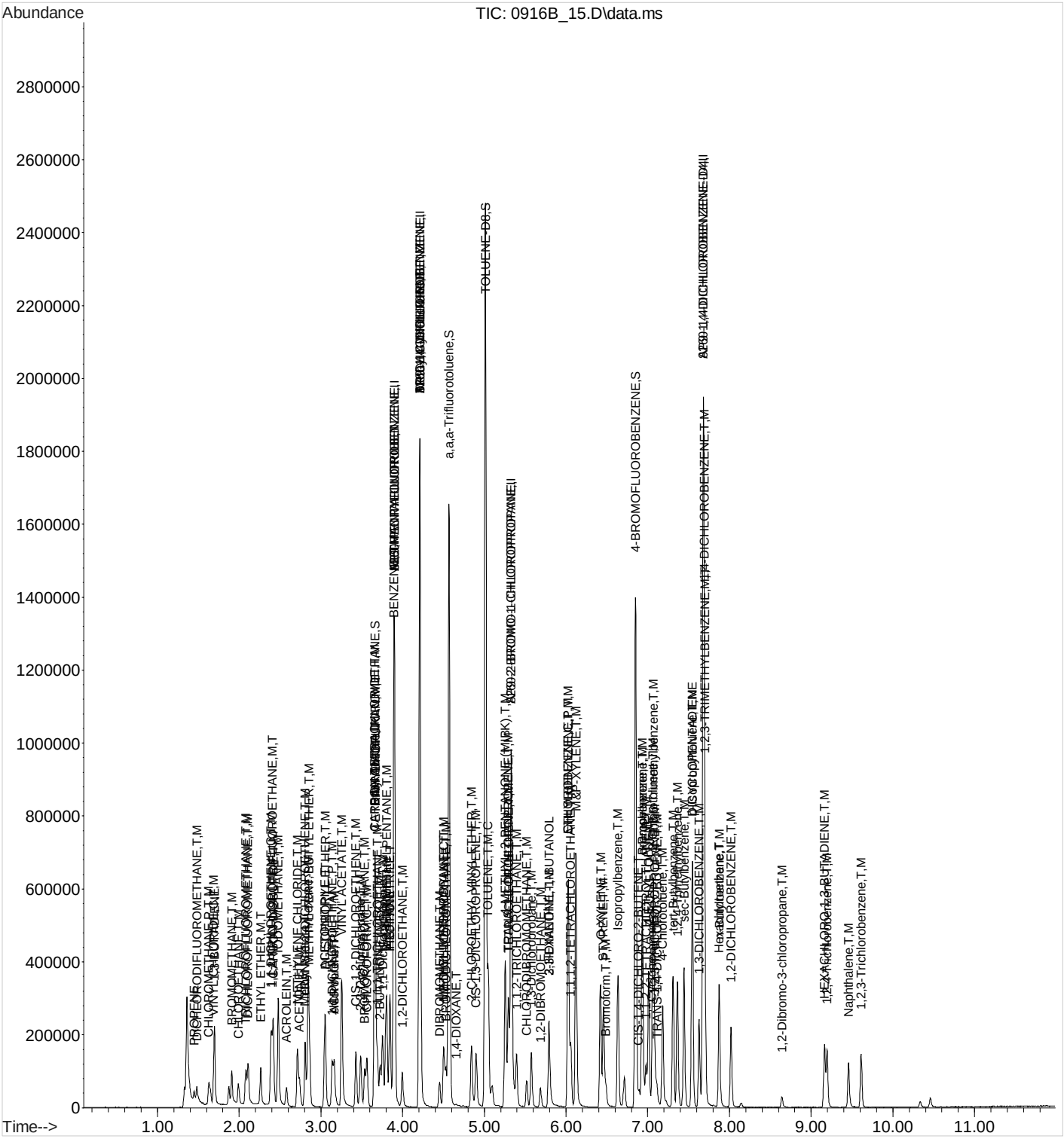
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	579024	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1054770	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	184848	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	446551	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	579024	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1054770	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	184846	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	446551	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	262995	36.1924231 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 90.48%		
46) a,a,a-Trifluorotoluene	4.566	146	548210	41.7413263 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.35%		
50) TOLUENE-D8	5.013	98	1366999	40.4583216 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.15%		
68) 4-BROMOFLUOROBENZENE	6.849	95	482820	40.2916016 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.73%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8832630	No Calib	
3) PROPENE	1.448	41	59303	21.9019700 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	169320	19.1199207 ppb	98
5) CHLOROMETHANE	1.624	50	290782	20.8561974 ppb	98
6) VINYL CHLORIDE	1.686	62	283817	18.7554882 ppb	99
7) 1,3-BUTADIENE	1.698	39	206379	18.6218419 ppb	97
8) BROMOMETHANE	1.907	94	171848	25.4028306 ppb	99
9) CHLOROETHANE	1.988	66	52360	21.4890714 ppb	99
10) TRICHLOROFLUOROMETHANE	2.081	101	243732	18.9542595 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	365829	18.8921365 ppb	99
12) ETHYL ETHER	2.261	59	160962	18.5046729 ppb	96
13) ACROLEIN	2.573	56	121186	80.0103131 ppb	99
14) 1,1-DICHLOROETHENE	2.390	61	293187	19.1807424 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	192994	19.4043630 ppb	98
16) ACETONE	2.734	43	235677	84.4220519 ppb	100
17) IODOMETHANE	2.476	142	1304783	103.6317392 ppb	99
18) CARBON DISULFIDE	2.419	76	685531	19.4608738 ppb	100
19) METHYLENE CHLORIDE	2.711	84	216710	18.5789341 ppb	100
20) ACRYLONITRILE	3.158	53	353523	102.2433039 ppb	100
21) n-Hexane	2.840	56	257950	19.9153994 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.804	96	210663	19.7033145 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	588104	19.4436265 ppb	97
24) 1,1-DICHLOROETHANE	3.136	63	424294	20.0170805 ppb	99
25) VINYL ACETATE	3.251	43	1537749	90.9373660 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	786341	19.8715819 ppb	99
27) 2,2-Dichloropropane	3.486	77	304693	19.8298149 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	221590	19.9034541 ppb	99
29) 2-BUTANONE (MEK)	3.721	72	112196	90.8143509 ppb	98
30) BROMOCHLOROMETHANE	3.534	130	110271	20.2207637 ppb	95
31) TETRAHYDROFURAN	3.663	42	62093	18.3369129 ppb	97
32) CHLOROFORM	3.560	83	352288	19.7725773 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	301922	20.7284439 ppb	99
35) CARBON TETRACHLORIDE	3.656	117	266618	20.6925262 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	345948	20.6215681 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	1186404	20.9339284 ppb		100
38) HEPTANE	3.843	43	503363	22.1078589 ppb		99
39) BENZENE	3.888	78	1035094	21.4960878 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	271101	21.3754090 ppb		99
42) TRICHLOROETHENE	4.210	130	227242	22.1959675 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	184330	21.5470551 ppb		98
44) DIBROMOMETHANE	4.451	93	111078	21.4233880 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	276188	22.1042668 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	270351	92.3147681 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.898	75	381094	23.1468670 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.255	58	420198	105.9621430 ppb		97
51) TOLUENE	5.045	91	1106624	22.0155970 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	73609	22.7963560 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.393	97	183799	21.1236379 ppb		98
55) TETRACHLOROETHENE	5.296	164	169484	22.5134686 ppb		96
56) 1,3-Dichloropropane	5.573	76	355634	20.4319580 ppb		100
57) 2-HEXANONE	5.788	58	391582	104.2500252 ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	167380	21.8438474 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	164236	21.6338121 ppb		100
60) CHLOROBENZENE	6.023	112	616272	20.6713190 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	180845	23.0479948 ppb		98
62) ETHYLBENZENE	6.023	106	365867	22.2812652 ppb		97
63) M&P-XYLENE	6.119	106	909877	45.0421864 ppb		100
64) O-XYLENE	6.418	106	417812	21.7568216 ppb		99
65) STYRENE	6.454	104	681630	22.2509261 ppb		100
66) Bromoform	6.486	173	89737	21.8687398 ppb		98
67) Isopropylbenzene	6.634	105	1149469	22.4006402 ppb		99
69) Bromobenzene	6.933	77	511649	21.3624738 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	6.975	83	235867	20.8875401 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.084	110	63259	20.7217096 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	60484	21.4097008 ppb	#	98
73) n-Propylbenzene	6.933	91	1431720	22.4771667 ppb		100
74) 4-ETHYLTOLUENE	7.010	105	1121344	22.3371272 ppb		99
75) 2-Chlorotoluene	7.061	126	250219	22.0386014 ppb		99
76) 4-Chlorotoluene	7.180	91	811589	22.5148065 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	973327	22.3988027 ppb		100
78) tert-Butylbenzene	7.309	119	806821	22.8839028 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	929760	22.5002784 ppb		100
80) sec-Butylbenzene	7.444	105	1312366	22.3654181 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	434100	22.0100901 ppb		100
82) p-Isopropyltoluene	7.544	119	1029483	22.8072868 ppb		99
83) DICYCLOPENTADIENE	7.547	66	1306695	22.0123440 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	444914	20.7119939 ppb		87
86) 1,2,3-TRIMETHYLBENZENE	7.695	105	968231	21.7123163 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	387028	20.6719311 ppb		98
88) n-Butylbenzene	7.872	91	982596	22.3916340 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	29253	19.3915581 ppb		98
90) 1,2,4-Trichlorobenzene	9.193	180	210570	20.7718648 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	121805	19.9508109 ppb		96
92) Naphthalene	9.454	128	443735	18.0298719 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	173896	19.3902255 ppb		99
94) 1-Methylnaphthalene	10.325	142	109689	No Calib		
95) 2-Methylnaphthalene	10.454	142	108038	No Calib		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration

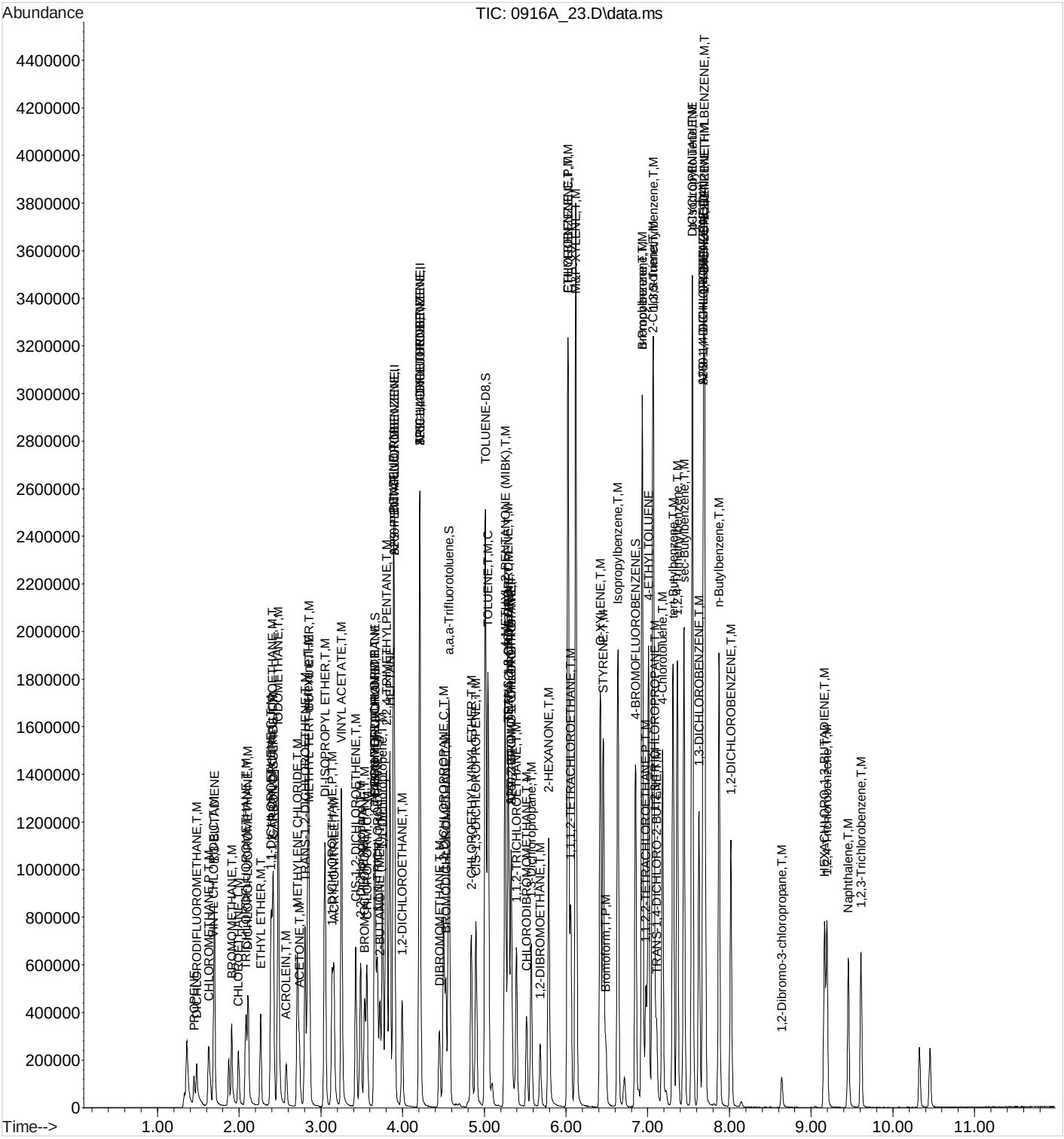
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	2.798	43	13294	No Calib	#
101)	ACETONITRILE	3.049	41	115726	No Calib	#
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	2.888	59	629	No Calib	#
104)	chloroprene	3.158	53	353523	No Calib	#
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	3.846	54	4218	No Calib	#
107)	Ethyl Acetate	3.618	43	545	No Calib	#
108)	METHACRYLONITRILE	3.894	67	1778	No Calib	#
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	3.801	59	1128	No Calib	#
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	3.994	59	1525	No Calib	#
113)	TERT-AMYL METHYL ETHER	3.888	73	16933	No Calib	#
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.210	83	17424	No Calib	#
117)	2-nitropropane	5.187	43	843	No Calib	#
118)	METHYL METHACRYLATE	4.660	41	817	No Calib	#
119)	1,4-DIOXANE	4.656	88	2679	No Calib	#
120)	n-octane	4.898	85	5131	No Calib	#
121)	3,3-DIMETHYL-1-BUTANOL	5.788	57	132140	No Calib	#
123)	ETHYL METHACRYLATE	5.255	69	7094	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	6.891	53	3535	No Calib	#
125)	Cyclohexanone	7.107	55	1277	No Calib	#
126)	PENTACHLOROETHANE	7.361	117	29623	No Calib	#
127)	Hexachloroethane	8.007	117	1467	No Calib	#

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 23.D
Acq On : 16 Sep 2014 11:39 pm
Operator : 644
Sample : SSCV VMS 25 PPB 14I15511
Misc : water ISSURR14G23644
ALS Vial : 15 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:24:12 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:24:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	559662	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1039196	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.332	79	178206	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	363932	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.898	168	559662	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1039196	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.332	79	178206	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	363932	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	244981	34.8797462 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 87.20%		
46) a,a,a-Trifluorotoluene	4.570	146	542588	41.9324056 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.83%		
50) TOLUENE-D8	5.013	98	1358540	40.8105453 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.03%		
68) 4-BROMOFLUOROBENZENE	6.849	95	423244	36.6363774 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 91.59%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-15187037	No Calib	
3) PROPENE	1.444	41	2909	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.647	50	608	0.4733038 ppb #	49
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	1.907	94	540	Below Cal #	12
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	2.261	59	678	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	2.737	43	5981	2.2165792 ppb #	87
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.419	76	1998	N.D.	
19) METHYLENE CHLORIDE	2.711	84	4835	0.4288536 ppb	87
20) ACRYLONITRILE	3.123	53	493731	147.7332807 ppb #	50
21) n-Hexane	2.840	56	569	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	2.856	73	1033	N.D.	
24) 1,1-DICHLOROETHANE	3.123	63	7091	0.3461083 ppb #	43
25) VINYL ACETATE	3.245	43	25016	1.5305430 ppb #	74
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	3.544	77	1933	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	3.663	72	553	0.4630981 ppb #	1
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	3.666	42	1628	0.4974034 ppb #	80
32) CHLOROFORM	3.550	83	8465	0.4915448 ppb #	48
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	316269	5.7735842 ppb #	1
38) HEPTANE	3.846	43	567	N.D.	
39) BENZENE	3.888	78	2089	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.210	130	7776	0.7709071 ppb #	68
43) 1,2-DICHLOROPROPANE	4.566	62	9979	1.1839660 ppb #	1
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	4.595	83	1612	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.174	58	1756	0.4494502 ppb #	1
51) TOLUENE	5.046	91	3883	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.361	97	2719	0.3241360 ppb #	1
55) TETRACHLOROETHENE	5.296	164	264213	36.4049402 ppb	97
56) 1,3-Dichloropropane	5.579	76	712	N.D.	
57) 2-HEXANONE	5.766	58	1943	0.5365605 ppb #	1
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.036	112	3933	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.062	133	3738	0.4941495 ppb #	96
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.136	106	1415	N.D.	
64) O-XYLENE	6.435	106	610	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	6.939	77	885	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.126	83	20470	1.8803140 ppb #	25
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	7.126	53	12560	4.6116057 ppb #	50
73) n-Propylbenzene	6.939	91	941	N.D.	
74) 4-ETHYLTOLUENE	7.007	105	833	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.116	91	700	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	7.338	119	37659	1.1079346 ppb #	32
79) 1,2,4-Trimethylbenzene	7.377	105	1821	N.D.	
80) sec-Butylbenzene	7.377	105	1821	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

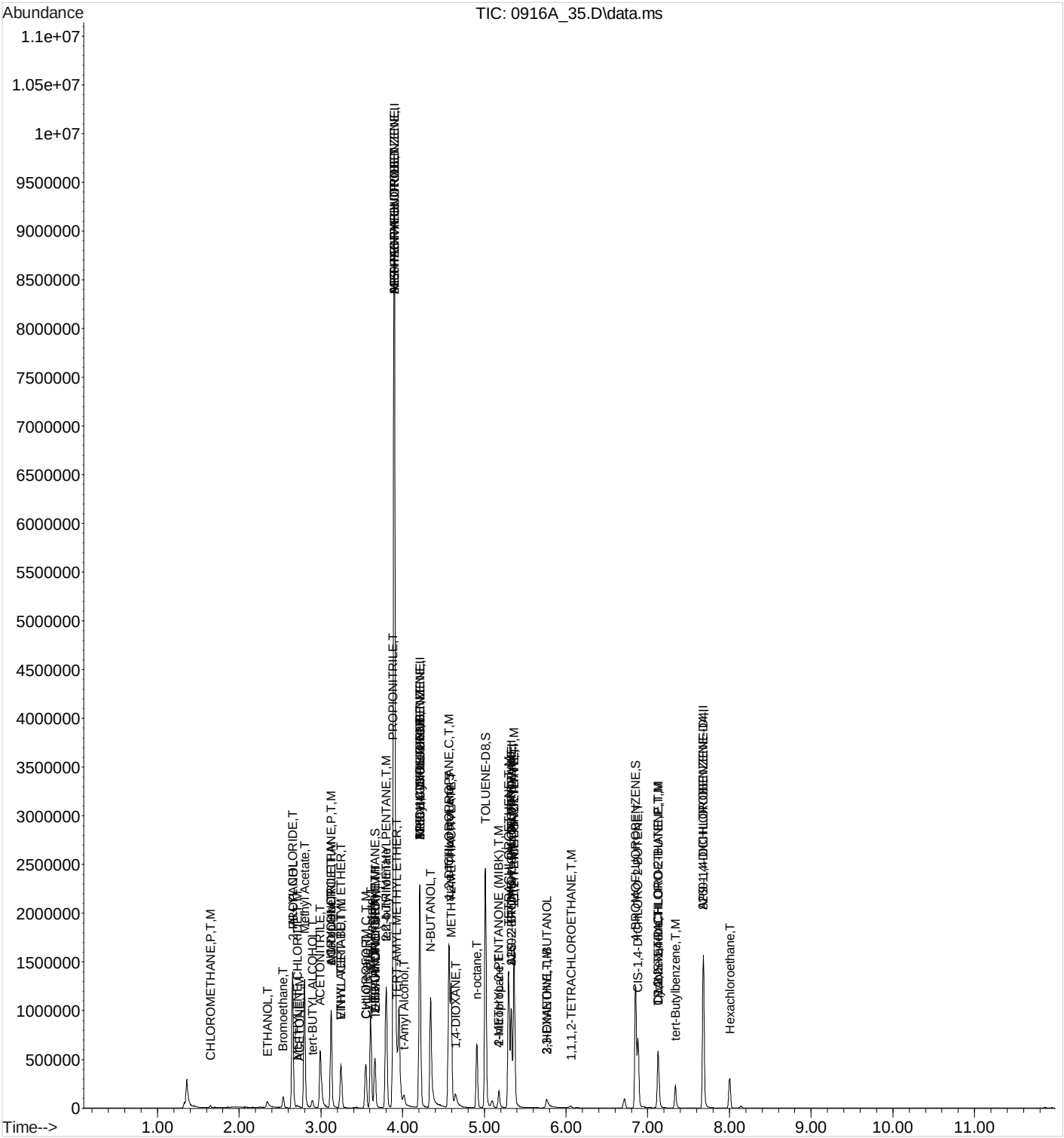
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	85189	884.5190577 ppb	#	96
98)	Bromoethane	2.538	108	64211	10.0643038 ppb		100
99)	2-PROPANOL	2.657	45	27708	49.3851852 ppb	#	88
100)	Methyl Acetate	2.798	43	1241508	202.8237385 ppb	#	100
101)	ACETONITRILE	2.991	41	613519	511.4015546 ppb		100
102)	ALLYL CHLORIDE	2.653	76	250053	51.6189773 ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	64803	51.7132837 ppb		94
104)	chloroprene	3.123	53	493731	49.8251900 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	312196	10.2477981 ppb		99
106)	PROPIONITRILE	3.882	54	677135	512.9764830 ppb		98
107)	Ethyl Acetate	3.608	43	844574	98.6264242 ppb		99
108)	METHACRYLONITRILE	3.898	67	2117671	517.8878593 ppb		100
109)	Cyclohexane	3.550	56	179999	10.1550924 ppb		98
110)	tert-butyl formate	3.798	59	370096	92.2971888 ppb		98
111)	ISOBUTANOL	3.956	41	408381	No Calib	#	
112)	t-Amyl Alcohol	4.017	59	41636	54.1564554 ppb		99
113)	TERT-AMYL METHYL ETHER	3.930	73	305611	10.8335262 ppb	#	99
115)	N-BUTANOL	4.341	56	618319	1962.5681902 ppb		98
116)	Methyl Cyclohexane	4.210	83	208988	9.7407964 ppb		99
117)	2-nitropropane	5.177	43	101025	52.8142026 ppb		98
118)	METHYL METHACRYLATE	4.592	41	505847	55.9101780 ppb		99
119)	1,4-DIOXANE	4.647	88	113519	1048.3495604 ppb		97
120)	n-octane	4.907	85	108965	10.6413132 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	64504	98.8521053 ppb		97
123)	ETHYL METHACRYLATE	5.364	69	738826	55.6665983 ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	144926	53.2697683 ppb		98
125)	Cyclohexanone	7.126	55	237812	104.9718225 ppb		97
126)	PENTACHLOROETHANE	7.338	117	40183	No Calib		
127)	Hexachloroethane	8.004	117	55031	9.8863467 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 35.D
Acq On : 17 Sep 2014 5:02 am
Operator : 644
Sample : SSCV VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 27 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:39:32 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	528552	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	977722	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	166669	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	377641	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	261632	38.6756344 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.69%		
46) a,a,a-Trifluorotoluene	4.566	146	500974	41.0566978 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.64%		
50) TOLUENE-D8	5.013	98	1279819	40.3423640 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.86%		
68) 4-BROMOFLUOROBENZENE	6.849	95	427790	39.6994591 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.25%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7660833m	Below Cal	
3) PROPENE	1.444	41	1768	0.7501689 ppb	95
4) DICHLORODIFLUOROMETHANE	1.480	85	1863	N.D.	
5) CHLOROMETHANE	1.631	50	3403	N.D.	
6) VINYL CHLORIDE	1.686	62	2059	N.D.	
7) 1,3-BUTADIENE	1.698	39	2244	N.D.	
8) BROMOMETHANE	1.911	94	4720	0.8113176 ppb	90
9) CHLOROETHANE	1.991	66	790	0.3632532 ppb	91
10) TRICHLOROFLUOROMETHANE	2.084	101	2415	N.D.	
11) DICHLOROFLUOROMETHANE	2.110	67	3778	N.D.	
12) ETHYL ETHER	2.264	59	1550	N.D.	
13) ACROLEIN	2.570	56	730	0.6214078 ppb #	1
14) 1,1-DICHLOROETHENE	2.390	61	3144	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	1942	N.D.	
16) ACETONE	2.740	43	4832	2.3075253 ppb	97
17) IODOMETHANE	2.480	142	3652	0.3253717 ppb #	85
18) CARBON DISULFIDE	2.422	76	7362	N.D.	
19) METHYLENE CHLORIDE	2.714	84	3628	0.4006404 ppb	89
20) ACRYLONITRILE	3.165	53	2703	0.8646512 ppb	93
21) n-Hexane	2.849	56	2209	N.D.	
22) TRANS-1,2-DICHLOROETHENE	2.808	96	2055	N.D.	
23) METHYL TERT-BUTYL ETHER	2.859	73	5398	N.D.	
24) 1,1-DICHLOROETHANE	3.139	63	4337	N.D.	
25) VINYL ACETATE	3.261	43	14758	0.9365874 ppb #	95
26) DI-ISOPROPYL ETHER	3.052	45	6924	N.D.	
27) 2,2-Dichloropropane	3.486	77	2973	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.431	96	1784	N.D.	
29) 2-BUTANONE (MEK)	3.743	72	738	0.6768969 ppb #	22
30) BROMOCHLOROMETHANE	3.541	130	899	N.D.	
31) TETRAHYDROFURAN	3.669	42	1353	0.4760119 ppb #	62
32) CHLOROFORM	3.563	83	3604	N.D.	
34) 1,1,1-TRICHLOROETHANE	3.692	97	2402	N.D.	
35) CARBON TETRACHLORIDE	3.660	117	1893	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	3.759	75	3004	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	10680	N.D.	
38) HEPTANE	3.846	43	3411	N.D.	
39) BENZENE	3.894	78	9018	N.D.	
40) 1,2-DICHLOROETHANE	3.997	62	2415	N.D.	
42) TRICHLOROETHENE	4.213	130	2007	N.D.	
43) 1,2-DICHLOROPROPANE	4.512	62	1352	N.D.	
44) DIBROMOMETHANE	4.457	93	870	N.D.	
45) BROMODICHLOROMETHANE	4.534	83	2004	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	4.859	63	2088	0.7809884 ppb #	50
48) CIS-1,3-DICHLOROPROPENE	4.907	75	2899	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.267	58	3102	0.8480324 ppb	92
51) TOLUENE	5.046	91	9580	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.399	97	1799	N.D.	
55) TETRACHLOROETHENE	5.293	164	1342	N.D.	
56) 1,3-Dichloropropane	5.576	76	3677	N.D.	
57) 2-HEXANONE	5.824	58	986	N.D.	
58) CHLORODIBROMOMETHANE	5.521	129	1084	N.D.	
59) 1,2-DIBROMOETHANE	5.695	107	1565	N.D.	
60) CHLOROBENZENE	6.033	112	5947	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.062	133	1333	N.D.	
62) ETHYLBENZENE	6.039	106	2764	N.D.	
63) M&P-XYLENE	6.126	106	6658	0.3685726 ppb	91
64) O-XYLENE	6.428	106	3428	N.D.	
65) STYRENE	6.480	104	4502	N.D.	
66) Bromoform	6.489	173	520	N.D.	
67) Isopropylbenzene	6.640	105	8359	N.D.	
69) Bromobenzene	6.936	77	4533	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	1974	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	6.943	91	10974	N.D.	
74) 4-ETHYLTOLUENE	7.020	105	8632	N.D.	
75) 2-Chlorotoluene	7.068	126	1938	N.D.	
76) 4-Chlorotoluene	7.190	91	5838	N.D.	
77) 1,3,5-Trimethylbenzene	7.074	105	7781	N.D.	
78) tert-Butylbenzene	7.309	119	5476	N.D.	
79) 1,2,4-Trimethylbenzene	7.370	105	6395	N.D.	
80) sec-Butylbenzene	7.447	105	9994	N.D.	
81) 1,3-DICHLOROBENZENE	7.637	146	3400	N.D.	
82) p-Isopropyltoluene	7.547	119	6816	N.D.	
83) DICYCLOPENTADIENE	7.547	66	9734	N.D.	
85) 1,4-DICHLOROBENZENE	7.689	146	4054	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	6966	N.D.	
87) 1,2-DICHLOROBENZENE	8.033	146	3149	N.D.	
88) n-Butylbenzene	7.885	91	6142	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.216	180	1032	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	9.161	225	900	N.D.	
92) Naphthalene	9.476	128	666	N.D.	
93) 1,2,3-Trichlorobenzene	9.621	180	975	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

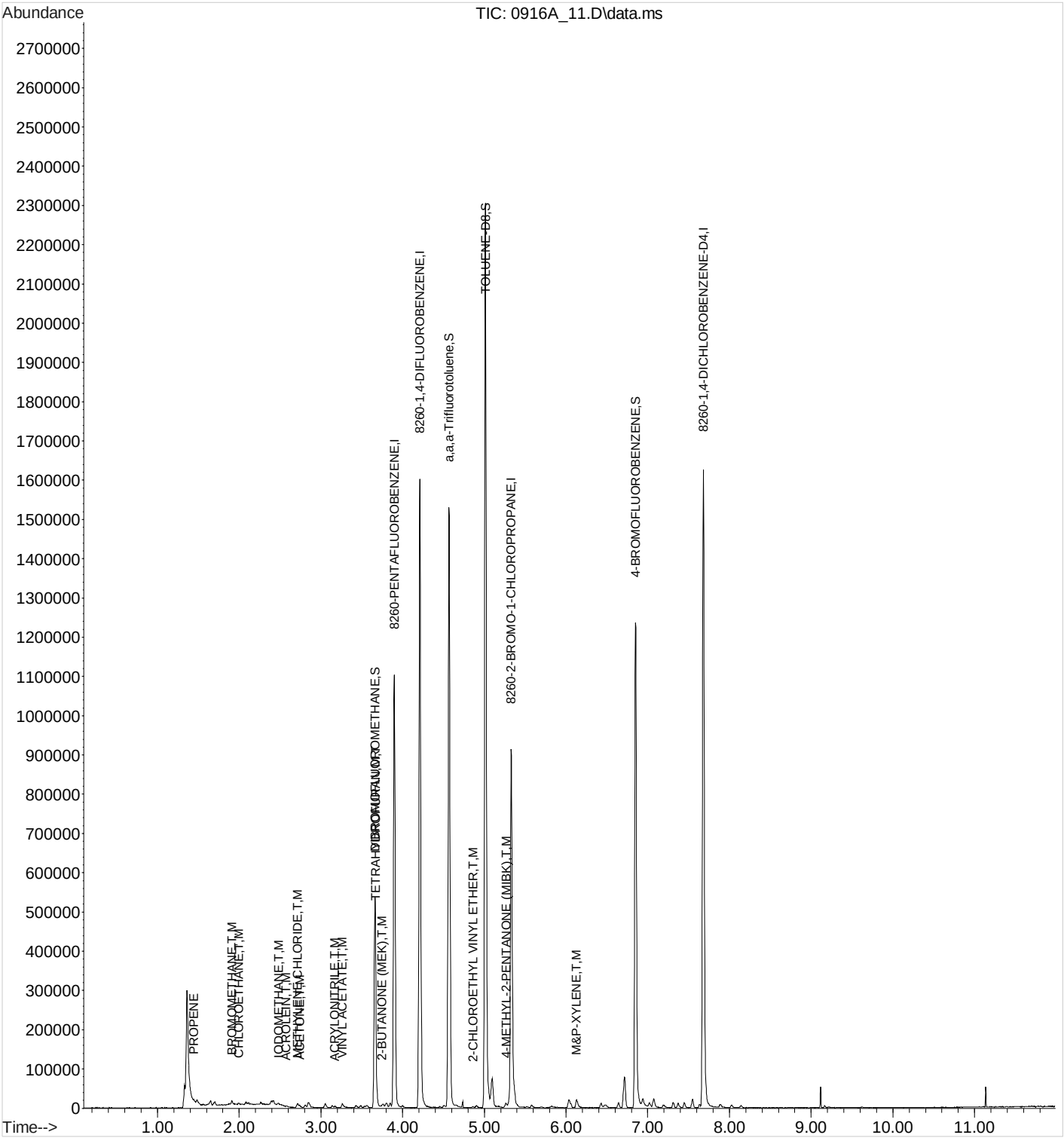
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d	
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.		
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.		
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.		
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.		
123)	ETHYL METHACRYLATE	0.000		0	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.		
125)	Cyclohexanone	0.000		0	N.D.		
126)	PENTACHLOROETHANE	0.000		0	N.D.		
127)	Hexachloroethane	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 11.D
Acq On : 16 Sep 2014 6:09 pm
Operator : 644
Sample : STD VMS 0.25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 3 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:10 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
	Internal Standards						
1)	8260-PENTAFLUOROBENZENE	3.898	168	468054	40.0000000 ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.210	114	856301	40.0000000 ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.332	79	141737	40.0000000 ppb		0.00
84)	8260-1,4-DICHLOROBENZE...	7.682	152	331119	40.0000000 ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb		-3.89
114)	AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb		-4.21
122)	AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb		-5.33
128)	AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb		-7.68
	System Monitoring Compounds						
33)	DIBROMOFLUOROMETHANE	3.660	111	229969	38.3890744 ppb		0.00
	Spiked Amount 40.000	Range 78 - 121		Recovery = 95.97%			
46)	a,a,a-Trifluorotoluene	4.570	146	437186	40.9094849 ppb		0.00
	Spiked Amount 40.000	Range 85 - 114		Recovery = 102.27%			
50)	TOLUENE-D8	5.013	98	1117075	40.2053696 ppb		0.00
	Spiked Amount 40.000	Range 89 - 111		Recovery = 100.51%			
68)	4-BROMOFLUOROBENZENE	6.849	95	373085	40.7130223 ppb		0.00
	Spiked Amount 40.000	Range 71 - 126		Recovery = 101.78%			
	Target Compounds						Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.096	TIC	-6637216m	Below Cal		
3)	PROPENE	1.448	41	2501	1.1983460 ppb		97
4)	DICHLORODIFLUOROMETHANE	1.480	85	4123	0.6505940 ppb		95
5)	CHLOROMETHANE	1.628	50	7803	0.7424557 ppb		98
6)	VINYL CHLORIDE	1.686	62	6776	0.6421858 ppb	#	84
7)	1,3-BUTADIENE	1.698	39	5414	0.7012264 ppb		89
8)	BROMOMETHANE	1.911	94	9794	1.9010817 ppb		96
9)	CHLOROETHANE	1.991	66	1802	0.9356834 ppb	#	67
10)	TRICHLOROFLUOROMETHANE	2.084	101	6393	0.7001766 ppb		95
11)	DICHLOROFLUOROMETHANE	2.107	67	9316	0.6775171 ppb		100
12)	ETHYL ETHER	2.264	59	4273	0.6789400 ppb		92
13)	ACROLEIN	2.576	56	3623	3.4826827 ppb		89
14)	1,1-DICHLOROETHENE	2.390	61	7239	0.6561727 ppb		95
15)	1,1,2-TRICHLOROTRIFLUO...	2.406	101	4827	0.6615399 ppb		96
16)	ACETONE	2.737	43	8142	4.3907873 ppb		95
17)	IODOMETHANE	2.476	142	9876	0.9936234 ppb		99
18)	CARBON DISULFIDE	2.419	76	16614	0.6567991 ppb	#	96
19)	METHYLENE CHLORIDE	2.711	84	6348	0.7916189 ppb		98
20)	ACRYLONITRILE	3.168	53	6934	2.5047854 ppb		94
21)	n-Hexane	2.843	56	5973	0.6289811 ppb		98
22)	TRANS-1,2-DICHLOROETHENE	2.808	96	4535	0.5920803 ppb		98
23)	METHYL TERT-BUTYL ETHER	2.859	73	13224	0.5917577 ppb		97
24)	1,1-DICHLOROETHANE	3.136	63	9299	0.5864859 ppb		98
25)	VINYL ACETATE	3.258	43	32763	2.3479900 ppb		99
26)	DI-ISOPROPYL ETHER	3.052	45	17475	0.5841089 ppb		94
27)	2,2-Dichloropropane	3.486	77	6634	0.5454878 ppb		95
28)	CIS-1,2-DICHLOROETHENE	3.431	96	5567	0.6396941 ppb		90
29)	2-BUTANONE (MEK)	3.734	72	2138	2.2144488 ppb		83
30)	BROMOCHLOROMETHANE	3.538	130	2322	0.5394343 ppb		89
31)	TETRAHYDROFURAN	3.666	42	2329	0.9252972 ppb	#	78
32)	CHLOROFORM	3.566	83	7420	0.5285842 ppb		92
34)	1,1,1-TRICHLOROETHANE	3.689	97	5937	0.5003887 ppb		99
35)	CARBON TETRACHLORIDE	3.660	117	5672	0.5358306 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	7249	0.5362656 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	23383	0.5168918 ppb		94
38) HEPTANE	3.846	43	8404	0.4380757 ppb		94
39) BENZENE	3.891	78	20470	0.5357285 ppb	#	54
40) 1,2-DICHLOROETHANE	4.001	62	5278	0.5156370 ppb	#	92
42) TRICHLOROETHENE	4.210	130	4185	0.5215671 ppb		94
43) 1,2-DICHLOROPROPANE	4.505	62	3822	0.5558406 ppb		96
44) DIBROMOMETHANE	4.451	93	2519	0.6179961 ppb	#	80
45) BROMODICHLOROMETHANE	4.531	83	5411	0.5308006 ppb	#	84
47) 2-CHLOROETHYL VINYL ETHER	4.849	63	4374	1.8680213 ppb	#	93
48) CIS-1,3-DICHLOROPROPENE	4.904	75	5872	0.4222223 ppb	#	96
49) 4-METHYL-2-PENTANONE (...	5.264	58	7995	2.4956176 ppb		96
51) TOLUENE	5.046	91	23532	0.6036429 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.296	110	1055	0.3986645 ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.396	97	3575	0.5865350 ppb		98
55) TETRACHLOROETHENE	5.300	164	3174	0.5963937 ppb		92
56) 1,3-Dichloropropane	5.579	76	7764	0.6334147 ppb		98
57) 2-HEXANONE	5.808	58	4614	1.6321126 ppb	#	60
58) CHLORODIBROMOMETHANE	5.515	129	3067	0.5473518 ppb		97
59) 1,2-DIBROMOETHANE	5.692	107	2985	0.5307689 ppb		96
60) CHLOROBENZENE	6.029	112	13075	0.6206581 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	2959	0.4878949 ppb	#	100
62) ETHYLBENZENE	6.033	106	6488	0.5287668 ppb		91
63) M&P-XYLENE	6.129	106	15452	1.0058555 ppb		88
64) O-XYLENE	6.425	106	7822	0.5593441 ppb		99
65) STYRENE	6.467	104	11762	0.5032735 ppb		99
66) Bromoform	6.489	173	1316	0.4240538 ppb		96
67) Isopropylbenzene	6.640	105	20526	0.5300210 ppb		98
69) Bromobenzene	6.936	77	9959	0.5775826 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	5155	0.6374266 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	539	N.D.		
72) TRANS-1,4-DICHLORO-2-B...	7.123	53	1018	0.4902749 ppb	#	27
73) n-Propylbenzene	6.939	91	25902	0.5315777 ppb		98
74) 4-ETHYLTOLUENE	7.013	105	20486	0.5378123 ppb		96
75) 2-Chlorotoluene	7.065	126	4751	0.5600653 ppb		88
76) 4-Chlorotoluene	7.190	91	14714	0.5349708 ppb		99
77) 1,3,5-Trimethylbenzene	7.074	105	16908	0.5186712 ppb		92
78) tert-Butylbenzene	7.312	119	14032	0.5184266 ppb		89
79) 1,2,4-Trimethylbenzene	7.367	105	16411	0.5212029 ppb		95
80) sec-Butylbenzene	7.447	105	24570	0.5533793 ppb	#	91
81) 1,3-DICHLOROBENZENE	7.634	146	7414	0.5032252 ppb		89
82) p-Isopropyltoluene	7.547	119	16816	0.4828118 ppb		96
83) DICYCLOPENTADIENE	7.547	66	23565	0.5175873 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	9500	0.6300329 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	17526	0.5389671 ppb		96
87) 1,2-DICHLOROBENZENE	8.026	146	7548	0.5550074 ppb		95
88) n-Butylbenzene	7.881	91	16109	0.4731563 ppb		92
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.203	180	3067	0.4038660 ppb	#	85
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	2802	0.6405379 ppb		96
92) Naphthalene	9.473	128	2864	N.D.		
93) 1,2,3-Trichlorobenzene	9.614	180	2737	0.4237349 ppb		92
94) 1-Methylnaphthalene	0.000		0	N.D.		
95) 2-Methylnaphthalene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

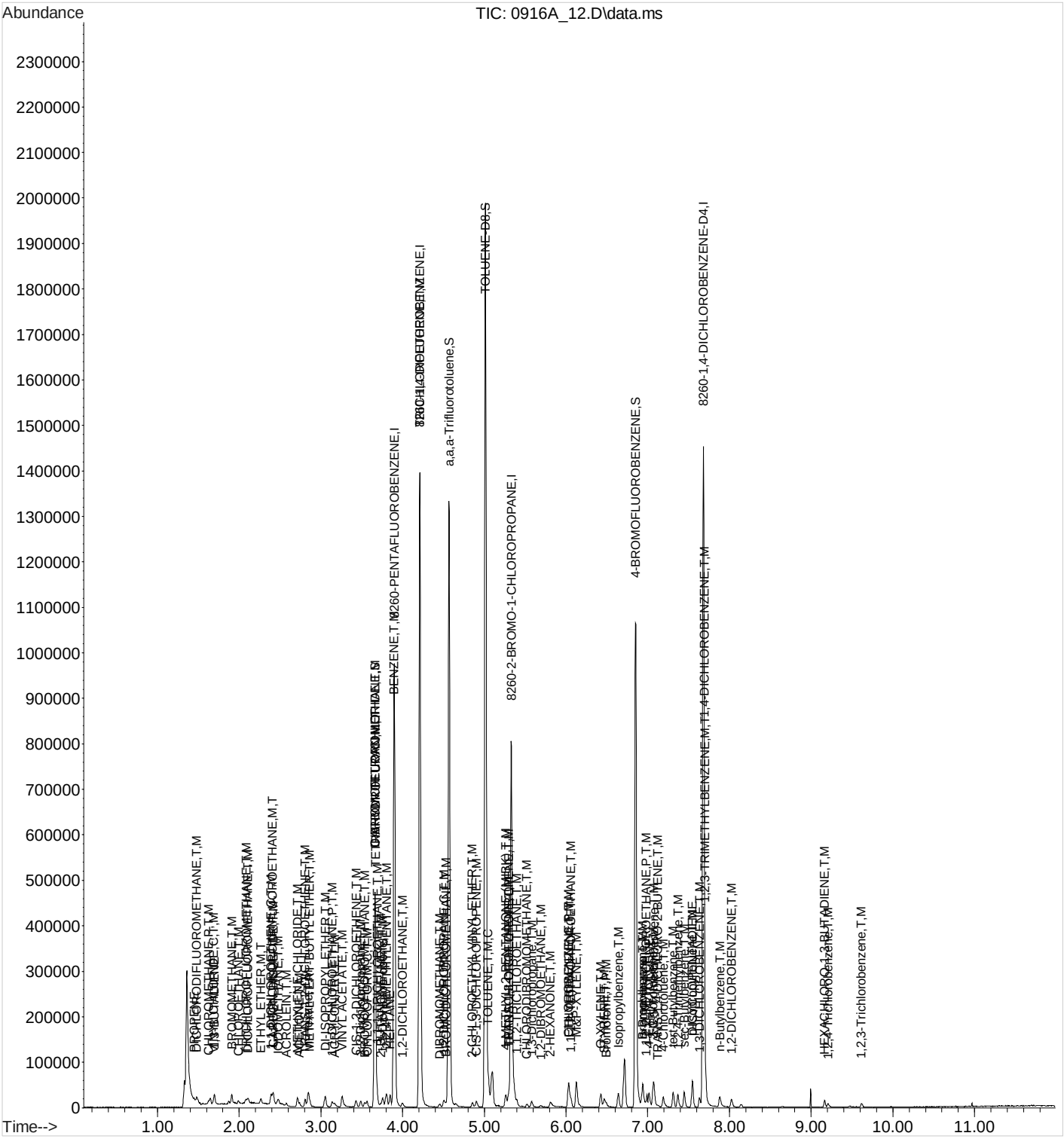
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.		
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.		
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.		
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.		
125)	Cyclohexanone	0.000		0	N.D.		
126)	PENTACHLOROETHANE	0.000		0	N.D.		
127)	Hexachloroethane	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 12.D
Acq On : 16 Sep 2014 6:30 pm
Operator : 644
Sample : STD VMS 0.5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 4 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:12:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	472358	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	861826	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	147974	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	346435	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.90
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	240251	40.5285123 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.32%		
46) a,a,a-Trifluorotoluene	4.566	146	451983	42.1191471 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.30%		
50) TOLUENE-D8	5.013	98	1156712	41.8989446 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.75%		
68) 4-BROMOFLUOROBENZENE	6.849	95	393575	41.0285460 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.57%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -6644118	No Calib			
3) PROPENE	1.448	41	4096	1.0617062 ppb		94
4) DICHLORODIFLUOROMETHANE	1.480	85	7054	0.9764243 ppb		97
5) CHLOROMETHANE	1.628	50	16001	1.8069944 ppb	#	95
6) VINYL CHLORIDE	1.686	62	14358	1.1630790 ppb	#	98
7) 1,3-BUTADIENE	1.698	39	9713	1.0743253 ppb		95
8) BROMOMETHANE	1.907	94	18063	3.0345890 ppb		99
9) CHLOROETHANE	1.991	66	2907	1.4624746 ppb		91
10) TRICHLOROFLUOROMETHANE	2.081	101	12002	1.1441242 ppb	#	97
11) DICHLOROFLUOROMETHANE	2.107	67	18691	1.1832071 ppb		98
12) ETHYL ETHER	2.264	59	7797	1.0987803 ppb		98
13) ACROLEIN	2.576	56	6777	5.4847432 ppb		92
14) 1,1-DICHLOROETHENE	2.390	61	13366	1.0718832 ppb		92
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	8620	1.0624002 ppb	#	94
16) ACETONE	2.737	43	14964	6.5707008 ppb		98
17) IODOMETHANE	2.477	142	29713	2.8928525 ppb		97
18) CARBON DISULFIDE	2.419	76	30411	1.0582572 ppb	#	94
19) METHYLENE CHLORIDE	2.711	84	11749	1.2347187 ppb		99
20) ACRYLONITRILE	3.165	53	15172	5.3787991 ppb		95
21) n-Hexane	2.840	56	12044	1.1398548 ppb		90
22) TRANS-1,2-DICHLOROETHENE	2.808	96	9890	1.1338944 ppb		91
23) METHYL TERT-BUTYL ETHER	2.856	73	27356	1.1086667 ppb		99
24) 1,1-DICHLOROETHANE	3.139	63	18930	1.0947369 ppb		98
25) VINYL ACETATE	3.258	43	77809	5.6404278 ppb		100
26) DI-ISOPROPYL ETHER	3.052	45	34019	1.0538247 ppb		99
27) 2,2-Dichloropropane	3.486	77	12504	0.9975403 ppb		97
28) CIS-1,2-DICHLOROETHENE	3.428	96	9430	1.0382819 ppb		96
29) 2-BUTANONE (MEK)	3.731	72	6049	6.0018617 ppb		78
30) BROMOCHLOROMETHANE	3.538	130	4834	1.0865962 ppb		99
31) TETRAHYDROFURAN	3.669	42	4416	1.5985931 ppb	#	85
32) CHLOROFORM	3.563	83	16005	1.1011498 ppb		99
34) 1,1,1-TRICHLOROETHANE	3.692	97	13087	1.1013804 ppb		98
35) CARBON TETRACHLORIDE	3.660	117	11061	1.0523101 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	15404	1.1255626 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	49353	1.0674732 ppb		97
38) HEPTANE	3.846	43	20016	1.0776258 ppb		97
39) BENZENE	3.891	78	42903	1.0921759 ppb	#	78
40) 1,2-DICHLOROETHANE	3.994	62	11200	1.0824968 ppb		95
42) TRICHLOROETHENE	4.210	130	9309	1.1128245 ppb		98
43) 1,2-DICHLOROPROPANE	4.502	62	7757	1.1097467 ppb		98
44) DIBROMOMETHANE	4.454	93	4475	1.0563098 ppb		95
45) BROMODICHLOROMETHANE	4.531	83	11260	1.1029298 ppb		95
47) 2-CHLOROETHYL VINYL ETHER	4.849	63	11992	5.0115608 ppb	#	96
48) CIS-1,3-DICHLOROPROPENE	4.901	75	13504	1.0038312 ppb	#	99
49) 4-METHYL-2-PENTANONE (...	5.261	58	17766	5.4830801 ppb		96
51) TOLUENE	5.046	91	46061	1.1215068 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.300	110	2626	0.9953307 ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.396	97	7935	1.1392049 ppb		90
55) TETRACHLOROETHENE	5.296	164	6918	1.1479517 ppb		95
56) 1,3-Dichloropropane	5.579	76	15116	1.0848581 ppb		94
57) 2-HEXANONE	5.804	58	14080	4.6825826 ppb		94
58) CHLORODIBROMOMETHANE	5.521	129	5821	0.9489701 ppb		94
59) 1,2-DIBROMOETHANE	5.689	107	5929	0.9756083 ppb		93
60) CHLOROBENZENE	6.029	112	27019	1.1321250 ppb		93
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	6322	1.0064923 ppb	#	94
62) ETHYLBENZENE	6.029	106	13537	1.0298367 ppb		100
63) M&P-XYLENE	6.126	106	34173	2.1132420 ppb		93
64) O-XYLENE	6.422	106	17057	1.1095491 ppb		100
65) STYRENE	6.467	104	22354	0.9115573 ppb		92
66) Bromoform	6.489	173	3305	1.0061275 ppb		94
67) Isopropylbenzene	6.637	105	43866	1.0678753 ppb		97
69) Bromobenzene	6.936	77	21559	1.1244428 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	6.981	83	9775	1.0813498 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.090	110	2417	0.9890295 ppb		93
72) TRANS-1,4-DICHLORO-2-B...	7.116	53	2248	0.9940214 ppb	#	44
73) n-Propylbenzene	6.939	91	54778	1.0742837 ppb		99
74) 4-ETHYLTOLUENE	7.013	105	41267	1.0268824 ppb		93
75) 2-Chlorotoluene	7.065	126	9236	1.0161949 ppb		95
76) 4-Chlorotoluene	7.187	91	29422	1.0196089 ppb		94
77) 1,3,5-Trimethylbenzene	7.071	105	36146	1.0390959 ppb		96
78) tert-Butylbenzene	7.312	119	29706	1.0525105 ppb		99
79) 1,2,4-Trimethylbenzene	7.367	105	34142	1.0321322 ppb		97
80) sec-Butylbenzene	7.444	105	50433	1.0736586 ppb		95
81) 1,3-DICHLOROBENZENE	7.631	146	16739	1.0602075 ppb		99
82) p-Isopropyltoluene	7.547	119	38218	1.0576738 ppb		99
83) DICYCLOPENTADIENE	7.547	66	47408	0.9976381 ppb		98
85) 1,4-DICHLOROBENZENE	7.692	146	17883	1.0730884 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.701	105	38111	1.1016073 ppb		99
87) 1,2-DICHLOROBENZENE	8.023	146	16374	1.1273084 ppb		97
88) n-Butylbenzene	7.878	91	34361	1.0093131 ppb		97
89) 1,2-Dibromo-3-chloropr...	8.643	157	601	0.5135303 ppb	#	6
90) 1,2,4-Trichlorobenzene	9.203	180	6961	0.8851155 ppb		95
91) HEXACHLORO-1,3-BUTADIENE	9.168	225	5170	1.0915290 ppb		91
92) Naphthalene	9.470	128	9149	3.1407608 ppb		100
93) 1,2,3-Trichlorobenzene	9.615	180	6505	0.9349532 ppb		97
94) 1-Methylnaphthalene	0.000		0	N.D.		
95) 2-Methylnaphthalene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration

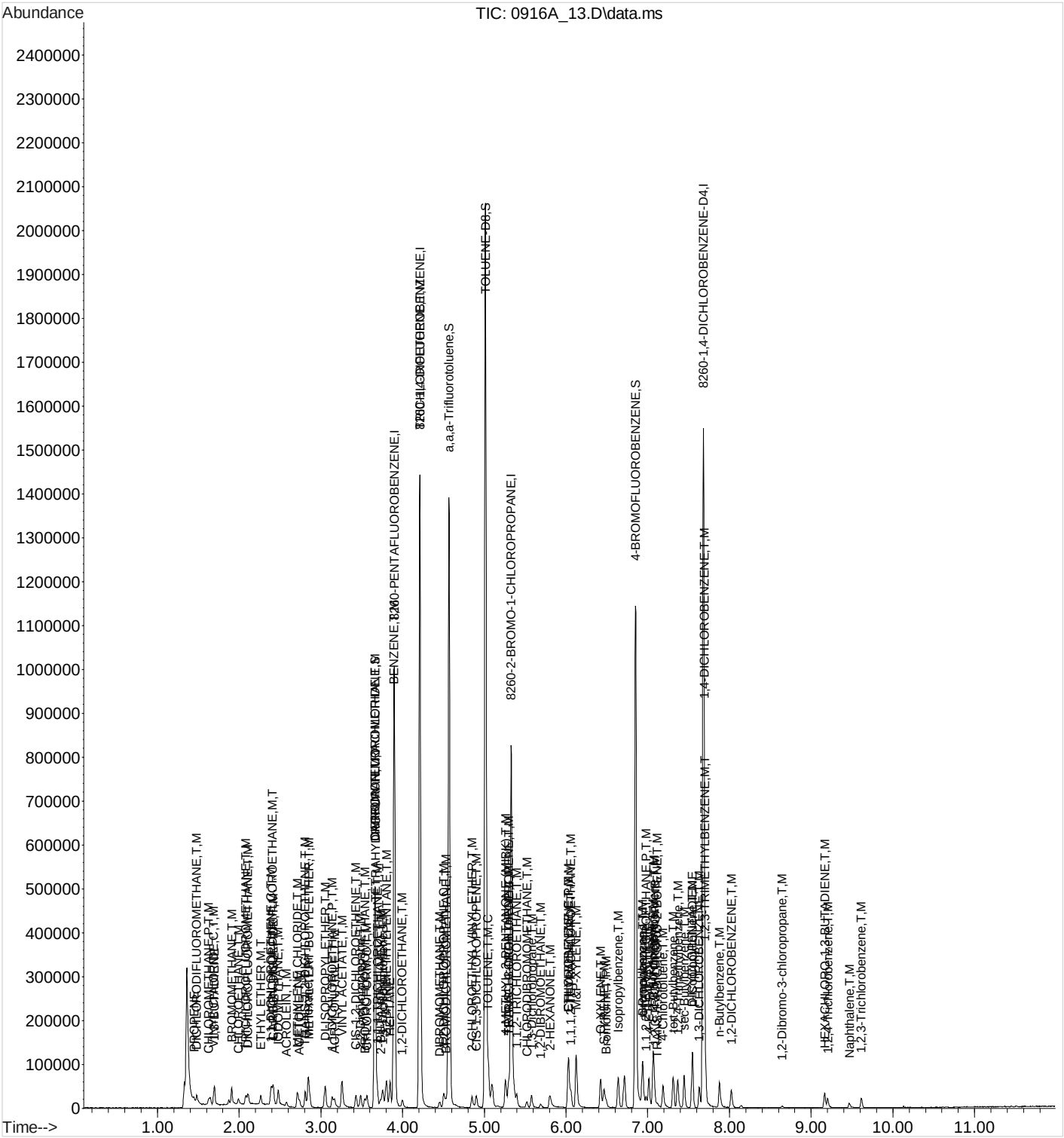
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 13.D
Acq On : 16 Sep 2014 6:53 pm
Operator : 644
Sample : STD VMS 1 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 5 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:41:04 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:39:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	469002	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	854427	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	146051	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	331231	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	231162	38.5102248 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.28%		
46) a,a,a-Trifluorotoluene	4.566	146	441718	41.4242209 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.56%		
50) TOLUENE-D8	5.013	98	1112764	40.1380511 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.35%		
68) 4-BROMOFLUOROBENZENE	6.849	95	375299	39.7449233 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.36%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6014776m	Below Cal	
3) PROPENE	1.448	41	6919	3.3085151 ppb	98
4) DICHLORODIFLUOROMETHANE	1.480	85	18041	2.8410482 ppb	90
5) CHLOROMETHANE	1.628	50	29147	2.7677324 ppb	99
6) VINYL CHLORIDE	1.685	62	27734	2.6231376 ppb	97
7) 1,3-BUTADIENE	1.698	39	20581	2.6602826 ppb	98
8) BROMOMETHANE	1.907	94	25466	4.9331314 ppb	100
9) CHLOROETHANE	1.991	66	5378	2.7868668 ppb	93
10) TRICHLOROFLUOROMETHANE	2.081	101	23755	2.5964455 ppb	95
11) DICHLOROFLUOROMETHANE	2.107	67	36390	2.6411563 ppb	98
12) ETHYL ETHER	2.264	59	15948	2.5288670 ppb	99
13) ACROLEIN	2.576	56	12479	11.9714465 ppb	89
14) 1,1-DICHLOROETHENE	2.390	61	28705	2.5966797 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.409	101	17193	2.3515364 ppb #	89
16) ACETONE	2.737	43	24202	13.0251828 ppb	98
17) IODOMETHANE	2.476	142	81159	8.1488941 ppb	99
18) CARBON DISULFIDE	2.419	76	60796	2.3985823 ppb	98
19) METHYLENE CHLORIDE	2.711	84	22218	2.7650658 ppb	91
20) ACRYLONITRILE	3.165	53	27386	9.8727138 ppb	95
21) n-Hexane	2.843	56	22595	2.3745356 ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.808	96	18449	2.4037948 ppb	97
23) METHYL TERT-BUTYL ETHER	2.856	73	52725	2.3546096 ppb	98
24) 1,1-DICHLOROETHANE	3.139	63	36298	2.2846796 ppb	98
25) VINYL ACETATE	3.255	43	165176	11.8135600 ppb	98
26) DI-ISOPROPYL ETHER	3.052	45	69398	2.3149671 ppb	100
27) 2,2-Dichloropropane	3.486	77	26070	2.1393009 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.428	96	19518	2.2382454 ppb	99
29) 2-BUTANONE (MEK)	3.727	72	8338	8.6186867 ppb	88
30) BROMOCHLOROMETHANE	3.538	130	9300	2.1561579 ppb	99
31) TETRAHYDROFURAN	3.666	42	6685	2.6505405 ppb	98
32) CHLOROFORM	3.563	83	30160	2.1441881 ppb	97
34) 1,1,1-TRICHLOROETHANE	3.692	97	25807	2.1706971 ppb	97
35) CARBON TETRACHLORIDE	3.660	117	21534	2.0301926 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.756	75	28693	2.1183564 ppb		96
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	96222	2.1227316 ppb		98
38)	HEPTANE	3.846	43	37724	1.9624658 ppb		94
39)	BENZENE	3.891	78	82835	2.1635257 ppb	#	88
40)	1,2-DICHLOROETHANE	3.994	62	21373	2.0838260 ppb		98
42)	TRICHLOROETHENE	4.210	130	17873	2.2323569 ppb		95
43)	1,2-DICHLOROPROPANE	4.502	62	14936	2.1769345 ppb		95
44)	DIBROMOMETHANE	4.454	93	8763	2.1545764 ppb		97
45)	BROMODICHLOROMETHANE	4.531	83	20123	1.9783269 ppb		95
47)	2-CHLOROETHYL VINYL ETHER	4.846	63	20620	8.8255785 ppb		94
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	26071	1.8787296 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.258	58	33188	10.3822656 ppb		96
51)	TOLUENE	5.045	91	84916	2.1830430 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.293	110	4958	1.8776436 ppb	#	5
54)	1,1,2-TRICHLOROETHANE	5.396	97	14672	2.3360703 ppb		98
55)	TETRACHLOROETHENE	5.300	164	12411	2.2631408 ppb		96
56)	1,3-Dichloropropane	5.576	76	29209	2.3125864 ppb		98
57)	2-HEXANONE	5.798	58	23740	8.1495186 ppb		83
58)	CHLORODIBROMOMETHANE	5.518	129	11556	2.0014237 ppb		96
59)	1,2-DIBROMOETHANE	5.689	107	12150	2.0966024 ppb		95
60)	CHLOROBENZENE	6.026	112	48995	2.2570502 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.055	133	12577	2.0125055 ppb	#	99
62)	ETHYLBENZENE	6.029	106	26769	2.1172112 ppb		97
63)	M&P-XYLENE	6.123	106	65243	4.1215778 ppb		98
64)	O-XYLENE	6.422	106	31013	2.1522054 ppb		97
65)	STYRENE	6.460	104	46073	1.9131458 ppb		96
66)	Bromoform	6.489	173	5970	1.8668875 ppb		92
67)	Isopropylbenzene	6.637	105	83139	2.0833979 ppb		98
69)	Bromobenzene	6.936	77	39880	2.2445654 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	19239	2.3086744 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.087	110	4984	2.1703372 ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.116	53	3540	1.6545271 ppb	#	73
73)	n-Propylbenzene	6.936	91	104019	2.0716902 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	78849	2.0088542 ppb		97
75)	2-Chlorotoluene	7.061	126	19102	2.1853005 ppb		93
76)	4-Chlorotoluene	7.184	91	57487	2.0283722 ppb		97
77)	1,3,5-Trimethylbenzene	7.071	105	70657	2.1034578 ppb		98
78)	tert-Butylbenzene	7.309	119	59112	2.1194445 ppb		99
79)	1,2,4-Trimethylbenzene	7.364	105	66622	2.0533745 ppb		100
80)	sec-Butylbenzene	7.444	105	95069	2.0779513 ppb		98
81)	1,3-DICHLOROBENZENE	7.631	146	34456	2.2696212 ppb		93
82)	p-Isopropyltoluene	7.547	119	72621	2.0234671 ppb		98
83)	DICYCLOPENTADIENE	7.547	66	97956	2.0879778 ppb		98
85)	1,4-DICHLOROBENZENE	7.692	146	32956	2.1848781 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	72226	2.2203738 ppb		96
87)	1,2-DICHLOROBENZENE	8.020	146	30076	2.2107524 ppb		98
88)	n-Butylbenzene	7.875	91	71011	2.0850419 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.640	157	2214	2.0598430 ppb		93
90)	1,2,4-Trichlorobenzene	9.196	180	14440	1.9008325 ppb		93
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	10441	2.3860080 ppb		95
92)	Naphthalene	9.463	128	24988	1.5168609 ppb		97
93)	1,2,3-Trichlorobenzene	9.614	180	13785	2.1334347 ppb		99
94)	1-Methylnaphthalene	0.000		0	N.D.		
95)	2-Methylnaphthalene	10.466	142	975	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

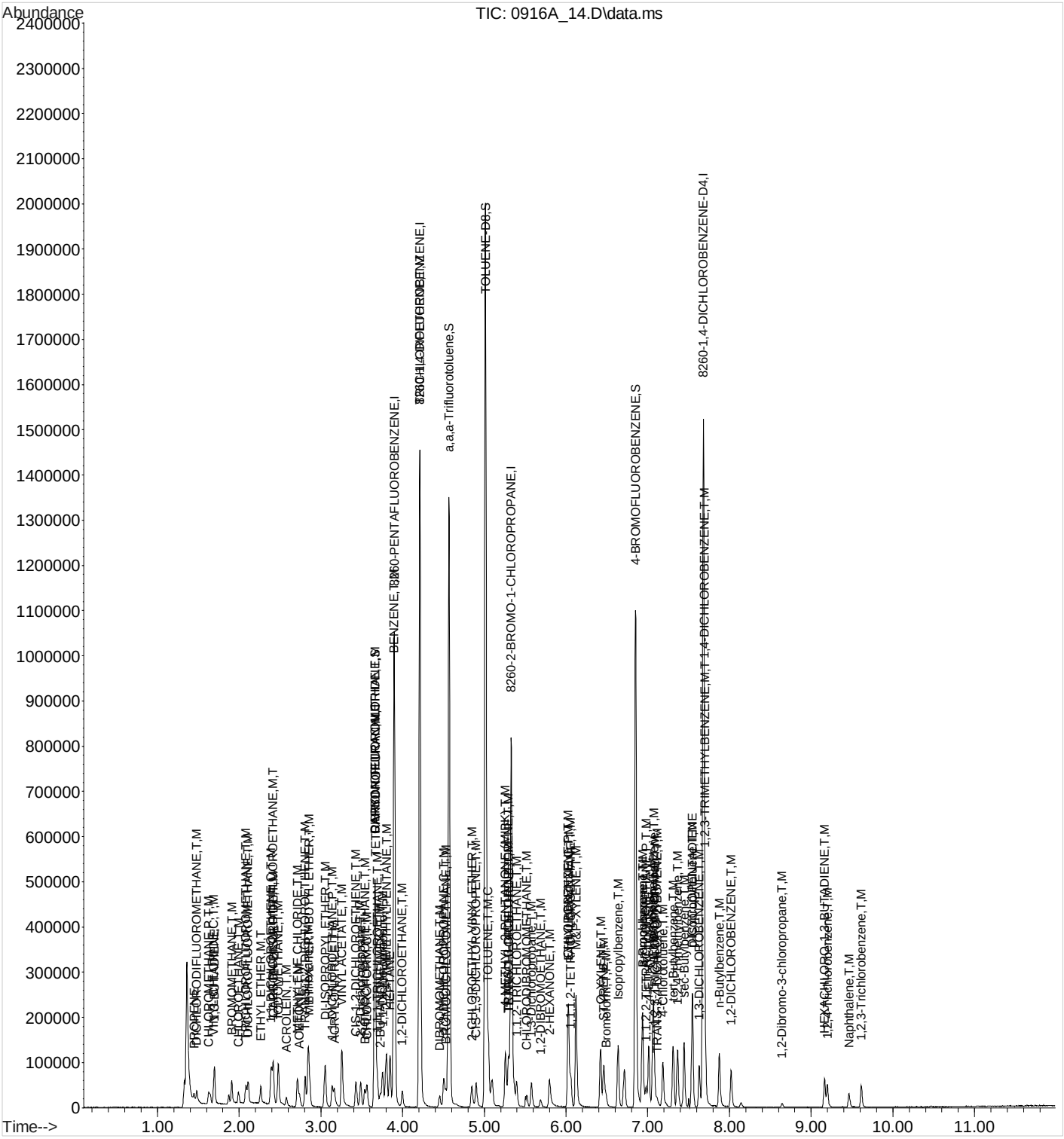
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 14.D
Acq On : 16 Sep 2014 7:15 pm
Operator : 644
Sample : STD VMS 2 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 6 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:01 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	543233	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	998836	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	174180	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	391219	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.663	111	287182	41.3052616 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.26%		
46) a,a,a-Trifluorotoluene	4.567	146	535263	42.9395267 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.35%		
50) TOLUENE-D8	5.014	98	1374899	42.4233331 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.06%		
68) 4-BROMOFLUOROBENZENE	6.850	95	474143	42.1036598 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.26%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-6721750m	Below Cal	
3) PROPENE	1.448	41	15623	6.4497485 ppb	99
4) DICHLORODIFLUOROMETHANE	1.483	85	45367	6.1680319 ppb #	86
5) CHLOROMETHANE	1.628	50	71471	5.8593392 ppb	97
6) VINYL CHLORIDE	1.686	62	71037	5.8007175 ppb	98
7) 1,3-BUTADIENE	1.699	39	51635	5.7622757 ppb	99
8) BROMOMETHANE	1.908	94	47232	7.8992678 ppb	99
9) CHLOROETHANE	1.991	66	13777	6.1636592 ppb	87
10) TRICHLOROFLUOROMETHANE	2.081	101	60617	5.7201467 ppb	99
11) DICHLOROFLUOROMETHANE	2.107	67	88421	5.5405901 ppb	99
12) ETHYL ETHER	2.264	59	43571	5.9649367 ppb	98
13) ACROLEIN	2.576	56	37235	30.8394591 ppb	97
14) 1,1-DICHLOROETHENE	2.390	61	69621	5.4373793 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	46197	5.4550955 ppb	98
16) ACETONE	2.737	43	69309	32.2040694 ppb	97
17) IODOMETHANE	2.477	142	264637	22.9404060 ppb	99
18) CARBON DISULFIDE	2.419	76	156010	5.3139885 ppb	98
19) METHYLENE CHLORIDE	2.715	84	53390	5.7365262 ppb	98
20) ACRYLONITRILE	3.162	53	82845	25.7847424 ppb	96
21) n-Hexane	2.843	56	60512	5.4903040 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	48504	5.4562049 ppb	99
23) METHYL TERT-BUTYL ETHER	2.856	73	145063	5.5930349 ppb	96
24) 1,1-DICHLOROETHANE	3.139	63	95178	5.1721097 ppb	99
25) VINYL ACETATE	3.255	43	417902	25.8045830 ppb	99
26) DI-ISOPROPYL ETHER	3.052	45	182393	5.2528450 ppb	99
27) 2,2-Dichloropropane	3.486	77	67941	4.8133931 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.428	96	49913	4.9416799 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	31035	27.6961563 ppb	97
30) BROMOCHLOROMETHANE	3.535	130	25529	5.1099890 ppb	95
31) TETRAHYDROFURAN	3.666	42	17109	5.8566088 ppb	93
32) CHLOROFORM	3.563	83	79576	4.8842985 ppb	98
34) 1,1,1-TRICHLOROETHANE	3.689	97	64270	4.6672231 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	56516	4.6001554 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.756	75	72407	4.6152176 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.801	57	252928	4.8173273 ppb		99
38) HEPTANE	3.843	43	109545	4.9200041 ppb		98
39) BENZENE	3.891	78	217015	4.8935778 ppb		94
40) 1,2-DICHLOROETHANE	3.998	62	59829	5.0361222 ppb		99
42) TRICHLOROETHENE	4.210	130	45635	4.8757902 ppb		96
43) 1,2-DICHLOROPROPANE	4.502	62	37907	4.7261909 ppb		96
44) DIBROMOMETHANE	4.451	93	24973	5.2524337 ppb		96
45) BROMODICHLOROMETHANE	4.528	83	56679	4.7665953 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.843	63	67975	24.8876858 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.898	75	74487	4.5916403 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.255	58	100345	26.8526758 ppb		98
51) TOLUENE	5.046	91	227112	4.9945184 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.293	110	13582	4.3999845 ppb		86
54) 1,1,2-TRICHLOROETHANE	5.396	97	39301	5.2469442 ppb		99
55) TETRACHLOROETHENE	5.297	164	33151	5.0688295 ppb		97
56) 1,3-Dichloropropane	5.576	76	78749	5.2279639 ppb		100
57) 2-HEXANONE	5.792	58	91282	26.2749946 ppb		96
58) CHLORODIBROMOMETHANE	5.518	129	33115	4.8090856 ppb		98
59) 1,2-DIBROMOETHANE	5.686	107	34323	4.9662810 ppb		98
60) CHLOROBENZENE	6.026	112	125874	4.8621878 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	34017	4.5641749 ppb	#	99
62) ETHYLBENZENE	6.026	106	71108	4.7158150 ppb		100
63) M&P-XYLENE	6.123	106	172216	9.1224046 ppb		99
64) O-XYLENE	6.422	106	83488	4.8581424 ppb		97
65) STYRENE	6.457	104	125389	4.3658345 ppb		99
66) Bromoform	6.486	173	16748	4.3915013 ppb		98
67) Isopropylbenzene	6.634	105	221673	4.6578605 ppb		100
69) Bromobenzene	6.933	77	102729	4.8481541 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	51778	5.2099278 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.087	110	14265	5.2086745 ppb		89
72) TRANS-1,4-DICHLORO-2-B...	7.113	53	12163	4.7666973 ppb	#	87
73) n-Propylbenzene	6.933	91	273916	4.5744173 ppb		100
74) 4-ETHYLTOLUENE	7.010	105	216656	4.6283821 ppb		98
75) 2-Chlorotoluene	7.062	126	49681	4.7657242 ppb		97
76) 4-Chlorotoluene	7.181	91	157577	4.6620516 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	186385	4.6526011 ppb		100
78) tert-Butylbenzene	7.309	119	148817	4.4740948 ppb		98
79) 1,2,4-Trimethylbenzene	7.364	105	181234	4.6837793 ppb		96
80) sec-Butylbenzene	7.444	105	247336	4.5330448 ppb		99
81) 1,3-DICHLOROBENZENE	7.628	146	84388	4.6609609 ppb		99
82) p-Isopropyltoluene	7.547	119	196250	4.5851107 ppb		99
83) DICYCLOPENTADIENE	7.544	66	261648	4.6764737 ppb		99
85) 1,4-DICHLOROBENZENE	7.692	146	87559	4.9147853 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	190893	4.9685948 ppb		99
87) 1,2-DICHLOROBENZENE	8.020	146	79401	4.9414799 ppb		99
88) n-Butylbenzene	7.875	91	189972	4.7226939 ppb		100
89) 1,2-Dibromo-3-chloropr...	8.644	157	6686	5.2666434 ppb		96
90) 1,2,4-Trichlorobenzene	9.193	180	44327	4.9403309 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.165	225	26611	5.1487528 ppb		95
92) Naphthalene	9.457	128	93199	4.7900116 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	39211	5.1379696 ppb		96
94) 1-Methylnaphthalene	10.335	142	8350	2.0484312 ppb	#	96
95) 2-Methylnaphthalene	10.457	142	12783	2.9315229 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

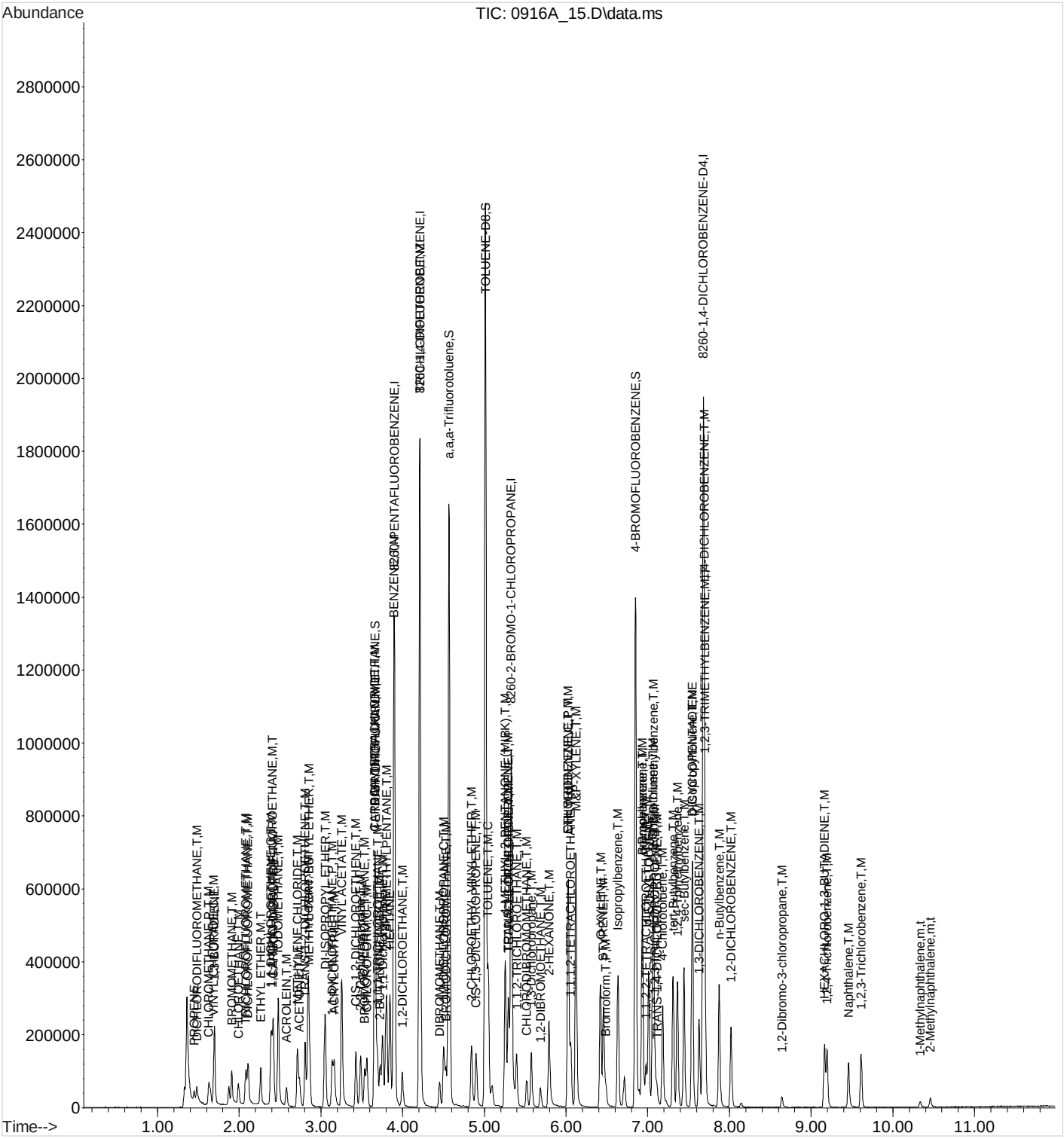
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.		
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 15.D
Acq On : 16 Sep 2014 7:37 pm
Operator : 644
Sample : STD VMS 5 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 7 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	674705	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1246289	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	212406	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	501111	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	379127	43.9041012 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 109.76%		
46) a,a,a-Trifluorotoluene	4.567	146	670675	43.1198828 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.80%		
50) TOLUENE-D8	5.013	98	1750822	43.2963625 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 108.24%		
68) 4-BROMOFLUOROBENZENE	6.849	95	617905	44.9949445 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.49%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5943874m	Below Cal	
3) PROPENE	1.448	41	33971	11.2916886 ppb	97
4) DICHLORODIFLUOROMETHANE	1.480	85	93294	10.2125096 ppb	96
5) CHLOROMETHANE	1.628	50	149524	9.8696535 ppb	100
6) VINYL CHLORIDE	1.686	62	148719	9.7776790 ppb	99
7) 1,3-BUTADIENE	1.699	39	109775	9.8633743 ppb	98
8) BROMOMETHANE	1.908	94	82748	11.1424379 ppb	99
9) CHLOROETHANE	1.988	66	27749	9.9954767 ppb	93
10) TRICHLOROFLUOROMETHANE	2.081	101	123991	9.4205249 ppb	97
11) DICHLOROFLUOROMETHANE	2.107	67	195263	9.8512825 ppb	99
12) ETHYL ETHER	2.261	59	89847	9.9033952 ppb	99
13) ACROLEIN	2.576	56	80398	53.6133389 ppb	96
14) 1,1-DICHLOROETHENE	2.390	61	152835	9.6104652 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	98820	9.3951919 ppb	98
16) ACETONE	2.737	43	150220	56.1980303 ppb	96
17) IODOMETHANE	2.477	142	641809	44.7948982 ppb	100
18) CARBON DISULFIDE	2.419	76	345742	9.4818380 ppb	99
19) METHYLENE CHLORIDE	2.711	84	113637	9.8306229 ppb	100
20) ACRYLONITRILE	3.158	53	198639	49.7775172 ppb	97
21) n-Hexane	2.843	56	133821	9.7757788 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.805	96	111213	10.0725837 ppb	95
23) METHYL TERT-BUTYL ETHER	2.856	73	315161	9.7835295 ppb	97
24) 1,1-DICHLOROETHANE	3.136	63	212775	9.3094488 ppb	100
25) VINYL ACETATE	3.252	43	904924	44.9890392 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	404890	9.3884887 ppb	99
27) 2,2-Dichloropropane	3.486	77	151177	8.6233762 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.428	96	113623	9.0573137 ppb	98
29) 2-BUTANONE (MEK)	3.724	72	68576	49.2733531 ppb	99
30) BROMOCHLOROMETHANE	3.534	130	58565	9.4383597 ppb	97
31) TETRAHYDROFURAN	3.663	42	36865	10.1603353 ppb	98
32) CHLOROFORM	3.563	83	182849	9.0361806 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	151237	8.8426112 ppb	100
35) CARBON TETRACHLORIDE	3.657	117	133537	8.7513473 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	3.753	75	172650	8.8603408 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	3.801	57	579880	8.8924124 ppb		99
38)	HEPTANE	3.843	43	249447	9.0203503 ppb		98
39)	BENZENE	3.888	78	494738	8.9822311 ppb		97
40)	1,2-DICHLOROETHANE	3.994	62	133012	9.0146226 ppb		99
42)	TRICHLOROETHENE	4.206	130	106821	9.1470072 ppb		99
43)	1,2-DICHLOROPROPANE	4.502	62	90553	9.0483650 ppb		97
44)	DIBROMOMETHANE	4.451	93	53498	9.0178464 ppb		99
45)	BROMODICHLOROMETHANE	4.528	83	126892	8.5525528 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	4.840	63	194350	57.0289360 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.898	75	172355	8.5150398 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.255	58	225176	48.2935750 ppb		97
51)	TOLUENE	5.046	91	505673	8.9124832 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.290	110	32976	8.5617161 ppb		87
54)	1,1,2-TRICHLOROETHANE	5.393	97	86632	9.4844618 ppb		99
55)	TETRACHLOROETHENE	5.296	164	72479	9.0877160 ppb		98
56)	1,3-Dichloropropane	5.573	76	173462	9.4432914 ppb		98
57)	2-HEXANONE	5.788	58	200990	47.4420497 ppb		98
58)	CHLORODIBROMOMETHANE	5.518	129	74577	8.8812514 ppb		99
59)	1,2-DIBROMOETHANE	5.686	107	79112	9.3868509 ppb		97
60)	CHLOROBENZENE	6.023	112	281277	8.9096661 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.058	133	80286	8.8335972 ppb		98
62)	ETHYLBENZENE	6.026	106	166919	9.0776947 ppb		97
63)	M&P-XYLENE	6.120	106	415350	18.0418702 ppb		98
64)	O-XYLENE	6.422	106	190191	9.0754393 ppb		97
65)	STYRENE	6.457	104	300874	8.5906099 ppb		100
66)	Bromoform	6.486	173	39757	8.5486035 ppb		98
67)	Isopropylbenzene	6.634	105	518382	8.9321314 ppb		100
69)	Bromobenzene	6.933	77	233638	9.0418717 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	6.978	83	116915	9.6469088 ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.084	110	31161	9.3303585 ppb		95
72)	TRANS-1,4-DICHLORO-2-B...	7.110	53	28287	9.0906567 ppb	#	92
73)	n-Propylbenzene	6.933	91	649872	8.8997479 ppb		99
74)	4-ETHYLTOLUENE	7.010	105	508247	8.9035830 ppb		100
75)	2-Chlorotoluene	7.062	126	111962	8.8072582 ppb		95
76)	4-Chlorotoluene	7.181	91	366838	8.9000012 ppb		99
77)	1,3,5-Trimethylbenzene	7.068	105	430981	8.8221510 ppb		99
78)	tert-Butylbenzene	7.309	119	356090	8.7789772 ppb		99
79)	1,2,4-Trimethylbenzene	7.364	105	417517	8.8483525 ppb		100
80)	sec-Butylbenzene	7.444	105	586388	8.8129085 ppb		99
81)	1,3-DICHLOROBENZENE	7.628	146	193323	8.7560816 ppb		99
82)	p-Isopropyltoluene	7.547	119	457531	8.7658128 ppb		100
83)	DICYCLOPENTADIENE	7.547	66	602659	8.8329186 ppb		99
85)	1,4-DICHLOROBENZENE	7.692	146	205433	9.0024344 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	7.698	105	434586	8.8309070 ppb		98
87)	1,2-DICHLOROBENZENE	8.020	146	179722	8.7320921 ppb		99
88)	n-Butylbenzene	7.872	91	437350	8.4881948 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.644	157	14783	9.0910935 ppb		93
90)	1,2,4-Trichlorobenzene	9.193	180	96966	8.4370997 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.164	225	57075	8.6213002 ppb		99
92)	Naphthalene	9.457	128	205471	8.2444530 ppb		100
93)	1,2,3-Trichlorobenzene	9.611	180	83416	8.5333386 ppb		97
94)	1-Methylnaphthalene	10.328	142	26532	5.0814880 ppb		98
95)	2-Methylnaphthalene	10.457	142	34691	6.2110257 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

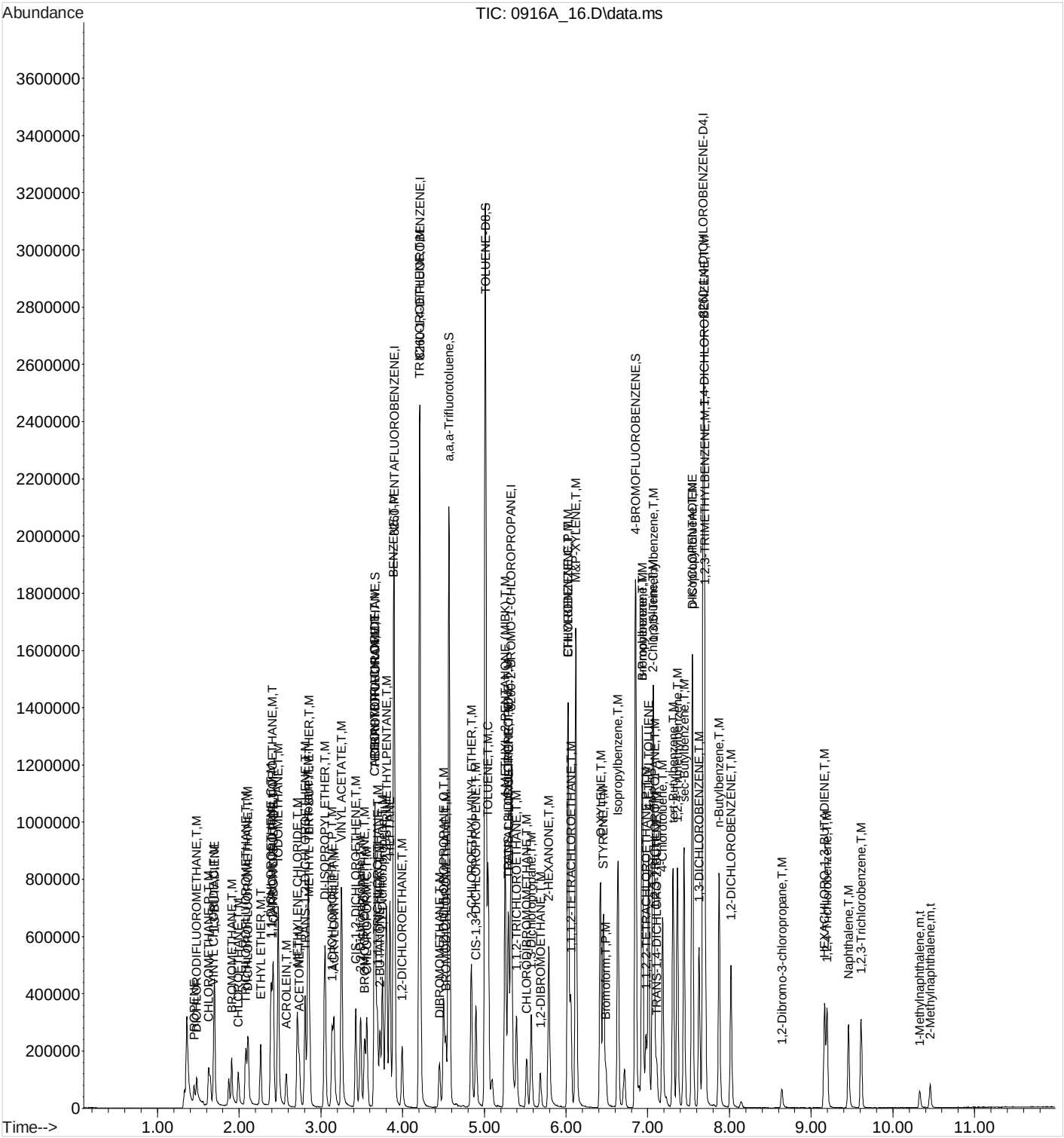
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.	d	
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 16.D
Acq On : 16 Sep 2014 9:05 pm
Operator : 644
Sample : STD VMS 10 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 8 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:30 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.898	168	599608	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1096263	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	192620	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	452822	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.68
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.660	111	345339	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	4.566	146	615663	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.50%			
50) TOLUENE-D8	5.013	98	1600660	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.50%#			
68) 4-BROMOFLUOROBENZENE	6.849	95	560409	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.50%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	11333686m	10.0000000	ppm	
3) PROPENE	1.448	41	66841	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.480	85	202962	25.0000000	ppb	100
5) CHLOROMETHANE	1.628	50	336591	25.0000000	ppb	100
6) VINYL CHLORIDE	1.686	62	337928	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.698	39	247270	25.0000000	ppb	100
8) BROMOMETHANE	1.907	94	164995	25.0000000	ppb	100
9) CHLOROETHANE	1.988	66	61679	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.081	101	292421	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.107	67	440373	25.0000000	ppb	100
12) ETHYL ETHER	2.261	59	201564	25.0000000	ppb	100
13) ACROLEIN	2.576	56	166585	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.390	61	353323	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.406	101	233686	25.0000000	ppb	100
16) ACETONE	2.737	43	296941	125.0000000	ppb	100
17) IODOMETHANE	2.477	142	1591625	125.0000000	ppb	100
18) CARBON DISULFIDE	2.419	76	810127	25.0000000	ppb	100
19) METHYLENE CHLORIDE	2.711	84	256822	25.0000000	ppb	100
20) ACRYLONITRILE	3.158	53	443297	125.0000000	ppb	100
21) n-Hexane	2.843	56	304135	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.804	96	245306	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	2.856	73	715699	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.136	63	507797	25.0000000	ppb	100
25) VINYL ACETATE	3.251	43	2234441	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	958153	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.486	77	389495	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	278715	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	3.721	72	154605	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.534	130	137859	25.0000000	ppb	100
31) TETRAHYDROFURAN	3.663	42	80612	25.0000000	ppb	100
32) CHLOROFORM	3.563	83	449574	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.689	97	379989	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	3.660	117	339078	25.0045721	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	432922	25.0000000	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	1448812	25.0000000	ppb		100
38) HEPTANE	3.843	43	614396	25.0000000	ppb		100
39) BENZENE	3.888	78	1223727	25.0000000	ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	327821	25.0000000	ppb		100
42) TRICHLOROETHENE	4.206	130	256811	25.0000000	ppb		100
43) 1,2-DICHLOROPROPANE	4.502	62	220074	25.0000000	ppb		100
44) DIBROMOMETHANE	4.451	93	130458	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	4.528	83	326268	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	374710	125.0000000	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.898	75	445116	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.255	58	512671	125.0000000	ppb		100
51) TOLUENE	5.046	91	1247691	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	84698	25.0000000	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.393	97	207081	25.0000000	ppb		100
55) TETRACHLOROETHENE	5.296	164	180814	25.0000000	ppb		100
56) 1,3-Dichloropropane	5.573	76	416443	25.0000000	ppb		100
57) 2-HEXANONE	5.788	58	480237	125.0000000	ppb		100
58) CHLORODIBROMOMETHANE	5.518	129	190373	25.0000000	ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	191072	25.0000000	ppb		100
60) CHLOROBENZENE	6.023	112	715727	25.0000000	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	206052	25.0000000	ppb		100
62) ETHYLBENZENE	6.023	106	416874	25.0000000	ppb		100
63) M&P-XYLENE	6.119	106	1043848	50.0000000	ppb		100
64) O-XYLENE	6.418	106	475113	25.0000000	ppb		100
65) STYRENE	6.454	104	794027	25.0000000	ppb		100
66) Bromoform	6.486	173	105437	25.0000000	ppb		100
67) Isopropylbenzene	6.634	105	1315738	25.0000000	ppb		100
69) Bromobenzene	6.933	77	585814	25.0000000	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	274762	25.0000000	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.084	110	75716	25.0000000	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	70545	25.0000000	ppb	#	100
73) n-Propylbenzene	6.933	91	1655483	25.0000000	ppb		100
74) 4-ETHYLTOLUENE	7.010	105	1294150	25.0000000	ppb		100
75) 2-Chlorotoluene	7.062	126	288207	25.0000000	ppb		100
76) 4-Chlorotoluene	7.181	91	934456	25.0000000	ppb		100
77) 1,3,5-Trimethylbenzene	7.068	105	1107537	25.0000000	ppb		100
78) tert-Butylbenzene	7.309	119	919582	25.0000000	ppb		100
79) 1,2,4-Trimethylbenzene	7.364	105	1069760	25.0000000	ppb		100
80) sec-Butylbenzene	7.444	105	1508483	25.0000000	ppb		100
81) 1,3-DICHLOROBENZENE	7.627	146	500551	25.0000000	ppb		100
82) p-Isopropyltoluene	7.547	119	1183322	25.0000000	ppb		100
83) DICYCLOPENTADIENE	7.547	66	1546828	25.0000000	ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	515518	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	1111742	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.016	146	464961	25.0000000	ppb		100
88) n-Butylbenzene	7.872	91	1163985	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.640	157	36735	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.193	180	259633	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	149557	25.0000000	ppb		100
92) Naphthalene	9.454	128	563018	25.0000000	ppb		100
93) 1,2,3-Trichlorobenzene	9.611	180	220833	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.325	142	118077	25.0260695	ppb		100
95) 2-Methylnaphthalene	10.454	142	126179	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

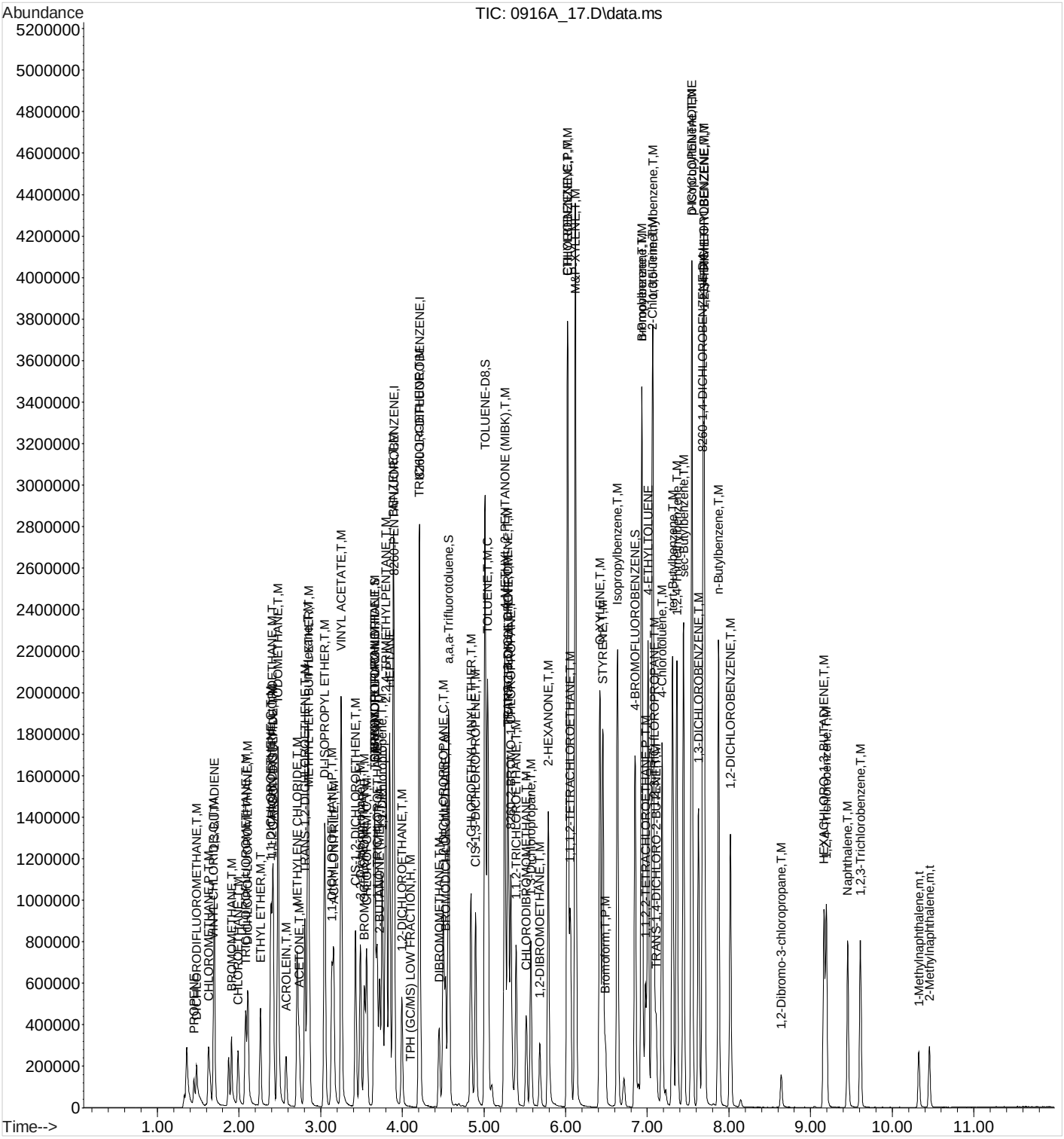
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.	d	
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 17.D
Acq On : 16 Sep 2014 9:27 pm
Operator : 644
Sample : MSTD VMS 25 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 9 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:13:44 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	602856	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1079521	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	187173	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	459358	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	355749	46.1067389 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 115.27%		
46) a,a,a-Trifluorotoluene	4.567	146	622467	46.2029232 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 115.51%#		
50) TOLUENE-D8	5.013	98	1610464	45.9777912 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 114.94%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	571220	47.2029341 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 118.01%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	35921304m	31.5235225 ppm	
3) PROPENE	1.448	41	110212	40.9996156 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	348374	42.6800423 ppb	99
5) CHLOROMETHANE	1.625	50	576131	42.5610746 ppb	99
6) VINYL CHLORIDE	1.686	62	576280	42.4036469 ppb	100
7) 1,3-BUTADIENE	1.698	39	431386	43.3798911 ppb	99
8) BROMOMETHANE	1.907	94	275620	41.5368716 ppb	99
9) CHLOROETHANE	1.985	66	107896	43.4972560 ppb	96
10) TRICHLOROFLUOROMETHANE	2.078	101	511684	43.5098032 ppb	100
11) DICHLOROFLUOROMETHANE	2.107	67	768533	43.3945987 ppb	100
12) ETHYL ETHER	2.261	59	344415	42.4876713 ppb	99
13) ACROLEIN	2.573	56	292441	218.2560098 ppb	98
14) 1,1-DICHLOROETHENE	2.387	61	618566	43.5319353 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	410028	43.6289398 ppb	98
16) ACETONE	2.734	43	534312	223.7116522 ppb	99
17) IODOMETHANE	2.477	142	3029853	236.6707844 ppb	99
18) CARBON DISULFIDE	2.419	76	1478983	45.3945709 ppb	99
19) METHYLENE CHLORIDE	2.711	84	469716	45.4775406 ppb	99
20) ACRYLONITRILE	3.158	53	769967	215.9440110 ppb	100
21) n-Hexane	2.840	56	564661	46.1652541 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.805	96	469054	47.5454008 ppb	98
23) METHYL TERT-BUTYL ETHER	2.856	73	1287787	44.7411833 ppb	96
24) 1,1-DICHLOROETHANE	3.136	63	918648	44.9834585 ppb	99
25) VINYL ACETATE	3.248	43	3810631	212.0273320 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	1747536	45.3508161 ppb	100
27) 2,2-Dichloropropane	3.486	77	691020	44.1146228 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	482678	43.0616832 ppb	98
29) 2-BUTANONE (MEK)	3.721	72	254468	204.6319700 ppb	100
30) BROMOCHLOROMETHANE	3.534	130	239943	43.2779619 ppb	96
31) TETRAHYDROFURAN	3.663	42	131054	40.4244783 ppb	97
32) CHLOROFORM	3.560	83	776493	42.9467395 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	650923	42.5943929 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	589900	43.2665275 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	744350	42.7524863 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	2530070	43.4224518 ppb		98
38) HEPTANE	3.843	43	1048818	42.4468623 ppb		99
39) BENZENE	3.888	78	2085413	42.3741865 ppb		100
40) 1,2-DICHLOROETHANE	3.994	62	551314	41.8173098 ppb		100
42) TRICHLOROETHENE	4.206	130	447079	44.1971555 ppb		99
43) 1,2-DICHLOROPROPANE	4.502	62	379473	43.7759736 ppb		100
44) DIBROMOMETHANE	4.448	93	220914	42.9908660 ppb		100
45) BROMODICHLOROMETHANE	4.528	83	558939	43.4924230 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.840	63	609061	206.3284816 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.898	75	776966	44.3151761 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.251	58	843004	208.7298486 ppb		99
51) TOLUENE	5.046	91	2133821	43.4184797 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	149766	44.8914616 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.393	97	360924	44.8408353 ppb		95
55) TETRACHLOROETHENE	5.296	164	320818	45.6483263 ppb		98
56) 1,3-Dichloropropane	5.573	76	702537	43.4022077 ppb		100
57) 2-HEXANONE	5.785	58	790577	211.7662511 ppb		97
58) CHLORODIBROMOMETHANE	5.518	129	330595	44.6775257 ppb		100
59) 1,2-DIBROMOETHANE	5.682	107	327551	44.1042119 ppb		99
60) CHLOROBENZENE	6.023	112	1239039	44.5385180 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	356839	44.5547145 ppb		99
62) ETHYLBENZENE	6.023	106	729467	45.0193299 ppb		99
63) M&P-XYLENE	6.120	106	1783192	87.9000304 ppb		99
64) O-XYLENE	6.419	106	837234	45.3365146 ppb		98
65) STYRENE	6.454	104	1340495	43.4338287 ppb		98
66) Bromoform	6.486	173	179092	43.6999894 ppb		97
67) Isopropylbenzene	6.634	105	2281822	44.6180444 ppb		99
69) Bromobenzene	6.933	77	1006390	44.1982173 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	457365	42.8256974 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.084	110	124354	42.2542388 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	127297	46.4248081 ppb	#	98
73) n-Propylbenzene	6.933	91	2830728	43.9917867 ppb		100
74) 4-ETHYLTOLUENE	7.010	105	2223123	44.1953992 ppb		99
75) 2-Chlorotoluene	7.062	126	490375	43.7745794 ppb		99
76) 4-Chlorotoluene	7.181	91	1610437	44.3387116 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	1909274	44.3514886 ppb		100
78) tert-Butylbenzene	7.309	119	1579495	44.1902013 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	1863491	44.8166232 ppb		99
80) sec-Butylbenzene	7.444	105	2603710	44.4068918 ppb		100
81) 1,3-DICHLOROBENZENE	7.628	146	870968	44.7663877 ppb		100
82) p-Isopropyltoluene	7.547	119	2033631	44.2147731 ppb		100
83) DICYCLOPENTADIENE	7.547	66	2689745	44.7370425 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	888784	42.4882298 ppb	#	67
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	1919308	42.5458205 ppb		99
87) 1,2-DICHLOROBENZENE	8.017	146	793212	42.0425445 ppb		98
88) n-Butylbenzene	7.872	91	2020012	42.7683808 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	61896	41.5239618 ppb		94
90) 1,2,4-Trichlorobenzene	9.193	180	465393	44.1749634 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	259228	42.7160816 ppb		98
92) Naphthalene	9.454	128	1027303	44.9668556 ppb		99
93) 1,2,3-Trichlorobenzene	9.611	180	389227	43.4365406 ppb		99
94) 1-Methylnaphthalene	10.325	142	276824	57.8372066 ppb		97
95) 2-Methylnaphthalene	10.454	142	271015	52.9325103 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

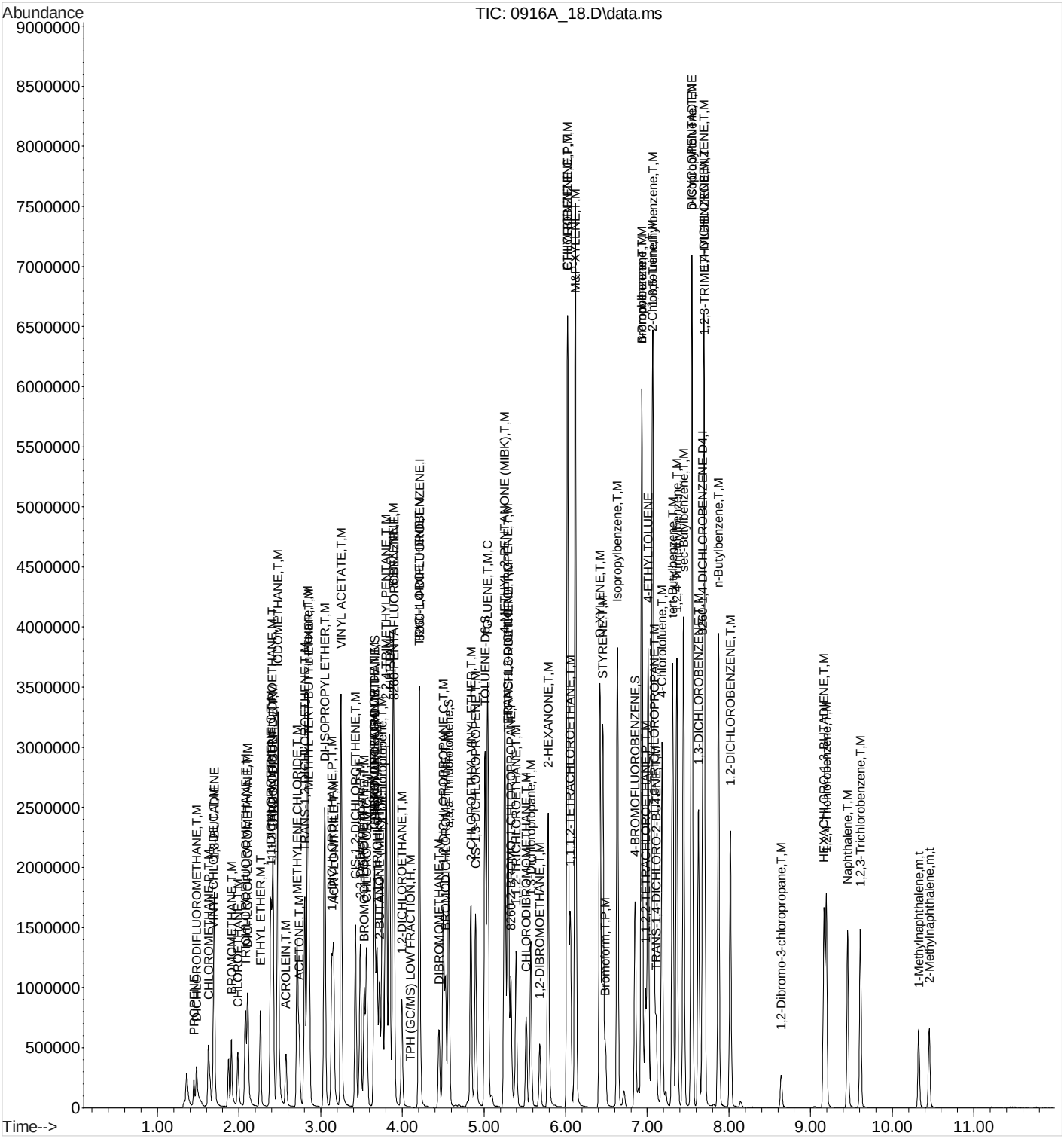
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d	
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.	d	
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 18.D
Acq On : 16 Sep 2014 9:49 pm
Operator : 644
Sample : STD VMS 40 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 10 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:00 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	613322	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1123173	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.329	79	189379	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.679	152	477427	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	382439	48.7200736 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 121.80%#		
46) a,a,a-Trifluorotoluene	4.567	146	664327	47.3935745 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 118.48%#		
50) TOLUENE-D8	5.013	98	1702988	46.7297127 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.82%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	607807	49.6412455 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 124.10%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	130772021m	112.8034878 ppm	
3) PROPENE	1.448	41	278351	101.7814729 ppb	99
4) DICHLORODIFLUOROMETHANE	1.480	85	868402	104.5742998 ppb	99
5) CHLOROMETHANE	1.625	50	1472715	106.9387479 ppb	99
6) VINYL CHLORIDE	1.686	62	1520915	110.0017639 ppb	99
7) 1,3-BUTADIENE	1.695	39	1136444	112.3299318 ppb	98
8) BROMOMETHANE	1.904	94	701621	103.9323339 ppb	99
9) CHLOROETHANE	1.981	66	255628	101.2954603 ppb	96
10) TRICHLOROFLUOROMETHANE	2.075	101	1379330	115.2865142 ppb	100
11) DICHLOROFLUOROMETHANE	2.104	67	2027345	112.5189992 ppb	100
12) ETHYL ETHER	2.261	59	926142	112.3009669 ppb	99
13) ACROLEIN	2.573	56	793734	582.2747789 ppb	99
14) 1,1-DICHLOROETHENE	2.387	61	1638856	113.3672913 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	1098346	114.8749570 ppb	98
16) ACETONE	2.734	43	1420456	584.5834382 ppb	98
17) IODOMETHANE	2.477	142	7947240	610.1891273 ppb	99
18) CARBON DISULFIDE	2.416	76	3916529	118.1590863 ppb	99
19) METHYLENE CHLORIDE	2.711	84	1215793	115.7034474 ppb	99
20) ACRYLONITRILE	3.155	53	2021156	557.1779631 ppb	100
21) n-Hexane	2.840	56	1414692	113.6879354 ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.805	96	1189211	118.4867073 ppb	98
23) METHYL TERT-BUTYL ETHER	2.853	73	3351123	114.4402617 ppb	99
24) 1,1-DICHLOROETHANE	3.136	63	2328912	112.0938619 ppb	100
25) VINYL ACETATE	3.248	43	9104358	497.9311813 ppb	100
26) DI-ISOPROPYL ETHER	3.049	45	4484480	114.3921208 ppb	99
27) 2,2-Dichloropropane	3.483	77	1761690	110.5468791 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.425	96	1233567	108.1736003 ppb	99
29) 2-BUTANONE (MEK)	3.718	72	696262	550.3488288 ppb	97
30) BROMOCHLOROMETHANE	3.534	130	618021	109.5688220 ppb	94
31) TETRAHYDROFURAN	3.663	42	347754	105.4365828 ppb	93
32) CHLOROFORM	3.560	83	1961415	106.6319102 ppb	100
34) 1,1,1-TRICHLOROETHANE	3.689	97	1664615	107.0684864 ppb	99
35) CARBON TETRACHLORIDE	3.657	117	1511966	109.0035680 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	1851648	104.5364285 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	6383797	107.6926138 ppb		97
38) HEPTANE	3.843	43	2653002	105.5378110 ppb		99
39) BENZENE	3.888	78	5288361	105.6222551 ppb		100
40) 1,2-DICHLOROETHANE	3.991	62	1383987	103.1844192 ppb		100
42) TRICHLOROETHENE	4.206	130	1145387	108.8295261 ppb		99
43) 1,2-DICHLOROPROPANE	4.499	62	965901	107.0956889 ppb		100
44) DIBROMOMETHANE	4.448	93	570529	106.7124568 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	1464706	109.5428637 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.837	63	1744677	568.0647841 ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.895	75	2033383	111.4689969 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.251	58	2276952	541.8676680 ppb		98
51) TOLUENE	5.042	91	5464446	106.8678830 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	397284	114.4553321 ppb		92
54) 1,1,2-TRICHLOROETHANE	5.393	97	913832	112.2110630 ppb		97
55) TETRACHLOROETHENE	5.296	164	829380	116.6355852 ppb		97
56) 1,3-Dichloropropane	5.573	76	1800532	109.9397756 ppb		100
57) 2-HEXANONE	5.785	58	2220285	587.8041935 ppb		98
58) CHLORODIBROMOMETHANE	5.515	129	890301	118.9162145 ppb		98
59) 1,2-DIBROMOETHANE	5.682	107	849960	113.1126056 ppb		99
60) CHLOROBENZENE	6.023	112	3209516	114.0254284 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.055	133	917295	113.1987836 ppb		99
62) ETHYLBENZENE	6.023	106	1893395	115.4904264 ppb		99
63) M&P-XYLENE	6.120	106	4678440	227.9309836 ppb		98
64) O-XYLENE	6.419	106	2135636	114.2983307 ppb		99
65) STYRENE	6.454	104	3634732	116.3983147 ppb		97
66) Bromoform	6.486	173	506653	122.1876033 ppb		99
67) Isopropylbenzene	6.634	105	5900591	114.0343425 ppb		99
69) Bromobenzene	6.933	77	2621902	113.8062928 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	1188824	110.0197018 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.084	110	332860	111.7849957 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	346919	125.0464642 ppb	#	92
73) n-Propylbenzene	6.933	91	7380093	113.3565651 ppb		99
74) 4-ETHYLTOLUENE	7.010	105	5786583	113.6965112 ppb		100
75) 2-Chlorotoluene	7.062	126	1278430	112.7929608 ppb		98
76) 4-Chlorotoluene	7.181	91	4133730	112.4845352 ppb		99
77) 1,3,5-Trimethylbenzene	7.068	105	4978514	114.3012703 ppb		99
78) tert-Butylbenzene	7.309	119	4055302	112.1352894 ppb		99
79) 1,2,4-Trimethylbenzene	7.361	105	4828990	114.7835148 ppb		100
80) sec-Butylbenzene	7.444	105	6725012	113.3606198 ppb		100
81) 1,3-DICHLOROBENZENE	7.628	146	2258352	114.7236272 ppb		99
82) p-Isopropyltoluene	7.547	119	5345455	114.8659496 ppb		100
83) DICYCLOPENTADIENE	7.547	66	6942995	114.1338312 ppb		100
85) 1,4-DICHLOROBENZENE	7.692	146	2365183	108.7881186 ppb	#	41
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	5023076	107.1337452 ppb		99
87) 1,2-DICHLOROBENZENE	8.017	146	2078048	105.9740664 ppb		99
88) n-Butylbenzene	7.872	91	5196762	105.8634383 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.640	157	173947	112.2787192 ppb		98
90) 1,2,4-Trichlorobenzene	9.190	180	1269065	115.9002910 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	636389	100.8965858 ppb		98
92) Naphthalene	9.454	128	2904065	122.3051104 ppb		99
93) 1,2,3-Trichlorobenzene	9.608	180	1116041	119.8330818 ppb		99
94) 1-Methylnaphthalene	10.322	142	824433	165.7308071 ppb		99
95) 2-Methylnaphthalene	10.451	142	752636	141.4355089 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

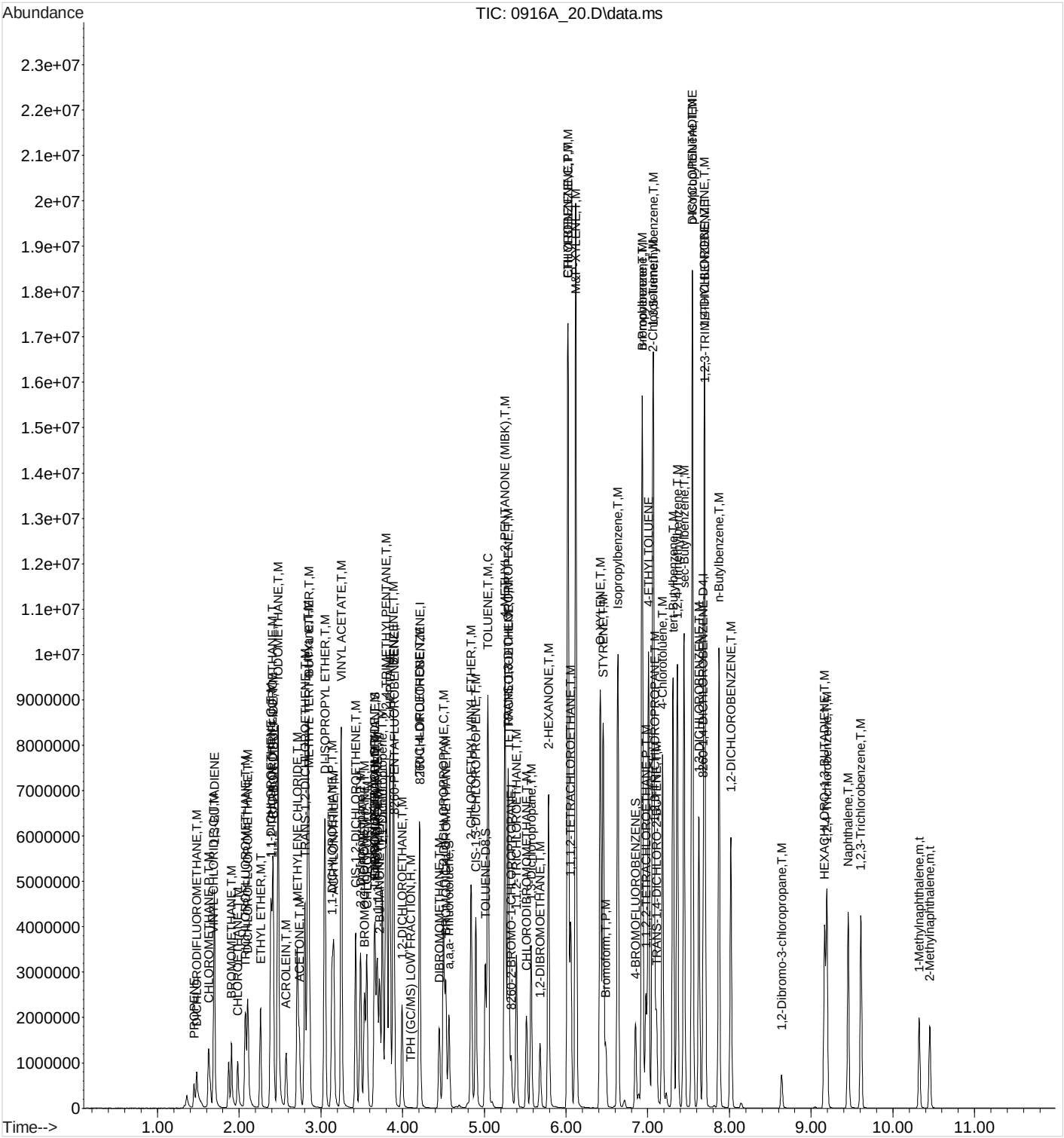
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.	d	
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d	
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.	d	
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.	d	
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 20.D
Acq On : 16 Sep 2014 10:33 pm
Operator : 644
Sample : STD VMS 100 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 12 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:14:23 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	3.898	168	614854	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.210	114	1137172	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.328	79	193934	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.682	152	499768	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-3.89
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.21
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.33
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-7.68
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	3.660	111	392123	49.8292808 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 124.57%#		
46) a,a,a-Trifluorotoluene	4.566	146	658132	46.3736272 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 115.93%#		
50) TOLUENE-D8	5.013	98	1718787	46.5826381 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 116.46%#		
68) 4-BROMOFLUOROBENZENE	6.849	95	617299	49.2323322 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 123.08%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	295308682m	254.0975322 ppm	
3) PROPENE	1.448	41	555939	202.7774360 ppb	100
4) DICHLORODIFLUOROMETHANE	1.480	85	1768648	212.4526233 ppb	99
5) CHLOROMETHANE	1.624	50	3036354	219.9304326 ppb	99
6) VINYL CHLORIDE	1.686	62	3302756	238.2800797 ppb	99
7) 1,3-BUTADIENE	1.695	39	2531621	249.6104052 ppb	100
8) BROMOMETHANE	1.904	94	1429776	211.2674759 ppb	99
9) CHLOROETHANE	1.975	66	406623	160.7274449 ppb	99
10) TRICHLOROFLUOROMETHANE	2.071	101	2685937	223.9353668 ppb	100
11) DICHLOROFLUOROMETHANE	2.100	67	3918561	216.9408575 ppb	100
12) ETHYL ETHER	2.258	59	1788174	216.2879041 ppb	98
13) ACROLEIN	2.573	56	1570817	1149.4633496 ppb	99
14) 1,1-DICHLOROETHENE	2.383	61	3213964	221.7708817 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.403	101	2178290	227.2576060 ppb	97
16) ACETONE	2.734	43	2762287	1133.9765186 ppb	99
17) IODOMETHANE	2.470	142	14827613	1135.6275484 ppb	97
18) CARBON DISULFIDE	2.415	76	7938259	238.8952872 ppb	99
19) METHYLENE CHLORIDE	2.711	84	2418216	229.5610968 ppb	99
20) ACRYLONITRILE	3.155	53	4030734	1108.3955548 ppb	100
21) n-Hexane	2.837	56	2826133	226.5487232 ppb	99
22) TRANS-1,2-DICHLOROETHENE	2.801	96	2406448	239.1683654 ppb	97
23) METHYL TERT-BUTYL ETHER	2.853	73	6761712	230.3359271 ppb	99
24) 1,1-DICHLOROETHANE	3.136	63	4700580	225.6819066 ppb	99
25) VINYL ACETATE	3.239	43	15273838m	833.2680254 ppb	
26) DI-ISOPROPYL ETHER	3.046	45	9059209	230.5105675 ppb	98
27) 2,2-Dichloropropane	3.483	77	3624347	226.8628108 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.425	96	2493411	218.1066731 ppb	99
29) 2-BUTANONE (MEK)	3.718	72	1398874	1102.9618526 ppb	95
30) BROMOCHLOROMETHANE	3.531	130	1230384	217.5910238 ppb	93
31) TETRAHYDROFURAN	3.663	42	684351	206.9734479 ppb	94
32) CHLOROFORM	3.560	83	3949927	214.2018942 ppb	99
34) 1,1,1-TRICHLOROETHANE	3.689	97	3348276	214.8254102 ppb	98
35) CARBON TETRACHLORIDE	3.656	117	3105635	223.3395525 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	3.753	75	3767214	212.1514771 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	3.798	57	13066219	219.8737195 ppb		96
38) HEPTANE	3.843	43	5394412	214.0578493 ppb		98
39) BENZENE	3.888	78	10969070	218.5348429 ppb		99
40) 1,2-DICHLOROETHANE	3.991	62	2788294	207.3658413 ppb		100
42) TRICHLOROETHENE	4.206	130	2316878	217.4293418 ppb		98
43) 1,2-DICHLOROPROPANE	4.499	62	1963380	215.0127595 ppb		99
44) DIBROMOMETHANE	4.447	93	1170080	216.1590621 ppb		99
45) BROMODICHLOROMETHANE	4.528	83	3038928	224.4783892 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.837	63	3691234	1187.0661086 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.894	75	4209669	227.9309765 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.255	58	4530641	1064.9261975 ppb		99
51) TOLUENE	5.042	91	11284911	217.9815334 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.290	110	836486	238.0203715 ppb		95
54) 1,1,2-TRICHLOROETHANE	5.393	97	1856537	222.6131359 ppb		97
55) TETRACHLOROETHENE	5.296	164	1731576	237.7918338 ppb		96
56) 1,3-Dichloropropane	5.573	76	3653602	217.8477617 ppb		100
57) 2-HEXANONE	5.785	58	4436801	1147.0220565 ppb		99
58) CHLORODIBROMOMETHANE	5.515	129	1825599	238.1153909 ppb		99
59) 1,2-DIBROMOETHANE	5.682	107	1721633	223.7334714 ppb		100
60) CHLOROBENZENE	6.023	112	6777154	235.1188158 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.058	133	1908693	230.0099791 ppb		97
62) ETHYLBENZENE	6.023	106	3998695	238.1775931 ppb		94
63) M&P-XYLENE	6.119	106	10016368	476.5302079 ppb	#	1
64) O-XYLENE	6.418	106	4504741	235.4292096 ppb		99
65) STYRENE	6.454	104	7566488	236.6173081 ppb		98
66) Bromoform	6.486	173	1083340	255.1286144 ppb		99
67) Isopropylbenzene	6.631	105	12277405	231.6992333 ppb		99
69) Bromobenzene	6.933	77	5495759	232.9460580 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.978	83	2460501	222.3587935 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.084	110	689054	225.9711666 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.107	53	722178	254.1940897 ppb	#	89
73) n-Propylbenzene	6.926	91	13912256m	208.6701207 ppb		
74) 4-ETHYLTOLUENE	7.007	105	12080201	231.7805430 ppb		100
75) 2-Chlorotoluene	7.062	126	2724518	234.7321566 ppb		98
76) 4-Chlorotoluene	7.180	91	8751884	232.5573810 ppb		100
77) 1,3,5-Trimethylbenzene	7.071	105	10647642	238.7166048 ppb		99
78) tert-Butylbenzene	7.309	119	8541882	230.6484487 ppb		99
79) 1,2,4-Trimethylbenzene	7.364	105	10119736	234.8931003 ppb		99
80) sec-Butylbenzene	7.441	105	13395782	220.5032948 ppb		99
81) 1,3-DICHLOROBENZENE	7.627	146	4741139	235.1915893 ppb		99
82) p-Isopropyltoluene	7.547	119	11395390	239.1187801 ppb		99
83) DICYCLOPENTADIENE	7.544	66	13896191	223.0700075 ppb		98
85) 1,4-DICHLOROBENZENE	7.692	146	5012249	220.2357848 ppb	#	32
86) 1,2,3-TRIMETHYLBENZENE	7.698	105	10770778	219.4533142 ppb		99
87) 1,2-DICHLOROBENZENE	8.016	146	4341237	211.4930262 ppb		99
88) n-Butylbenzene	7.872	91	10790892	209.9950436 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.637	157	367858	226.8293475 ppb		99
90) 1,2,4-Trichlorobenzene	9.193	180	2702739	235.7997277 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.164	225	1392969	210.9763569 ppb		97
92) Naphthalene	9.454	128	6494231	261.2790179 ppb		99
93) 1,2,3-Trichlorobenzene	9.608	180	2386294	244.7704911 ppb		99
94) 1-Methylnaphthalene	10.322	142	2305728	442.7866136 ppb		99
95) 2-Methylnaphthalene	10.454	142	2141652	384.4686248 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration

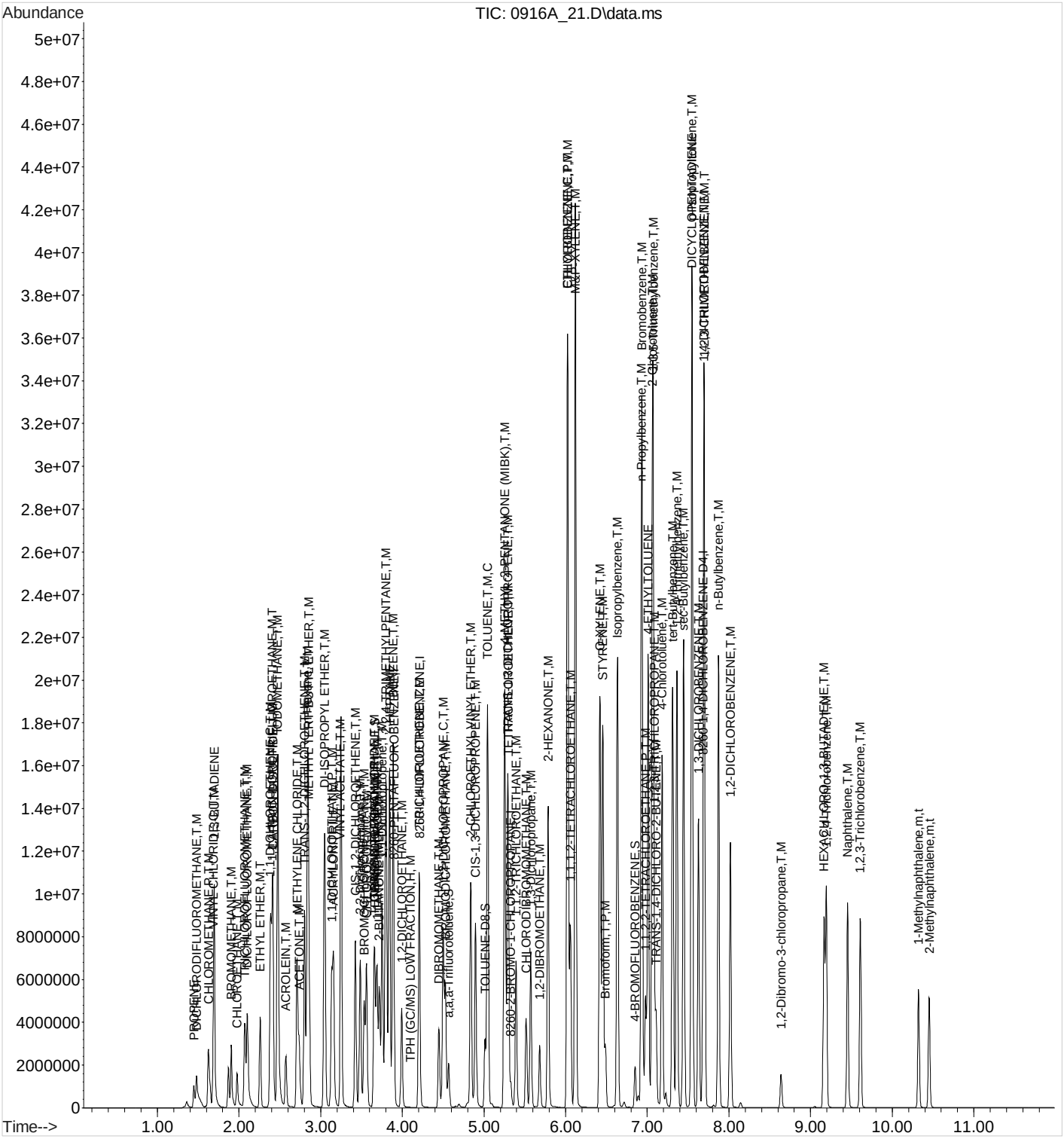
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On : 16 Sep 2014 10:55 pm
Operator : 644
Sample : STD VMS 200 PPB 14I15510
Misc : water ISSURR14G23644
ALS Vial : 13 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:15:08 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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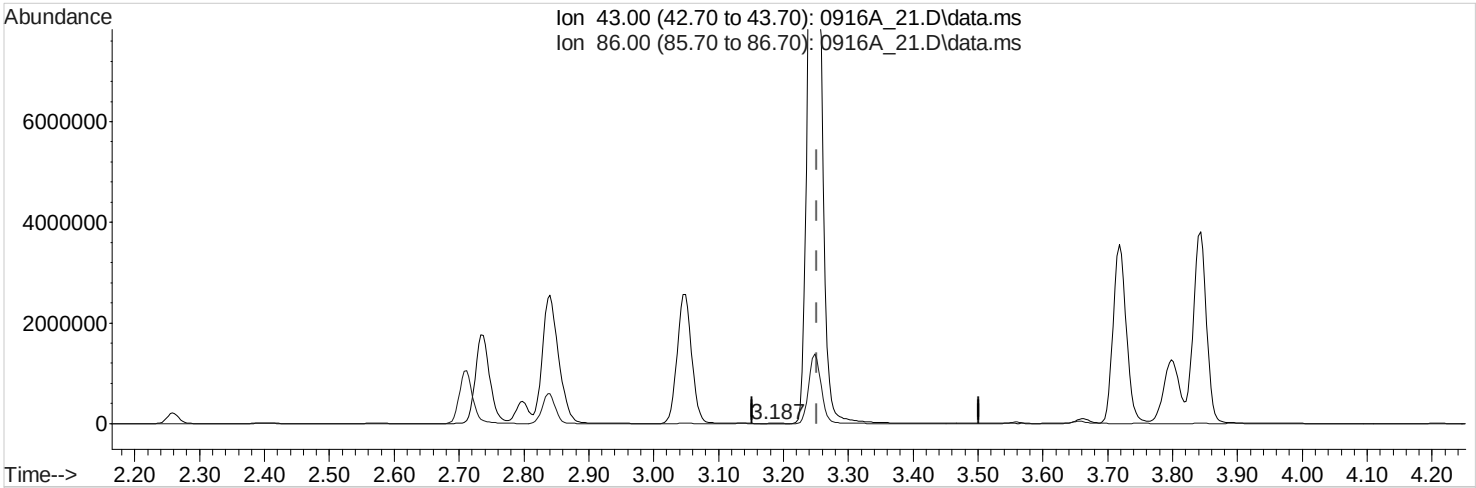

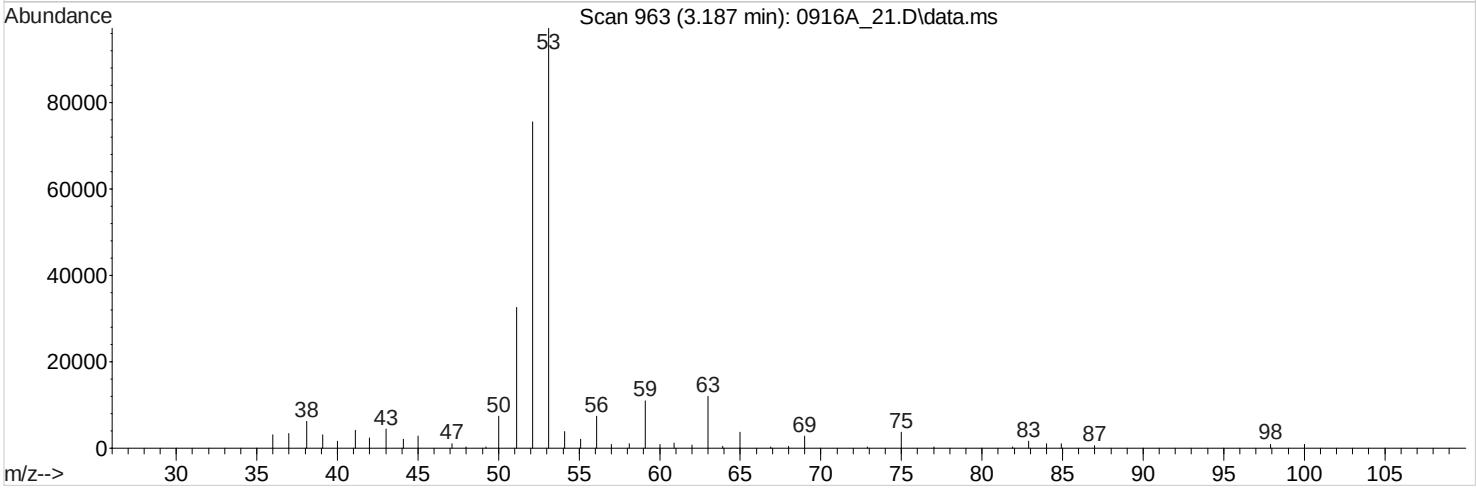

TIC: 0916A_21.D\data.ms

(25) VINYL ACETATE (T,M)

3.187min (-0.064) 0.1484994 ppb

Qvalue = 74

response 2722

Ion	Exp%	Act%
43.00	100	100
86.00	9.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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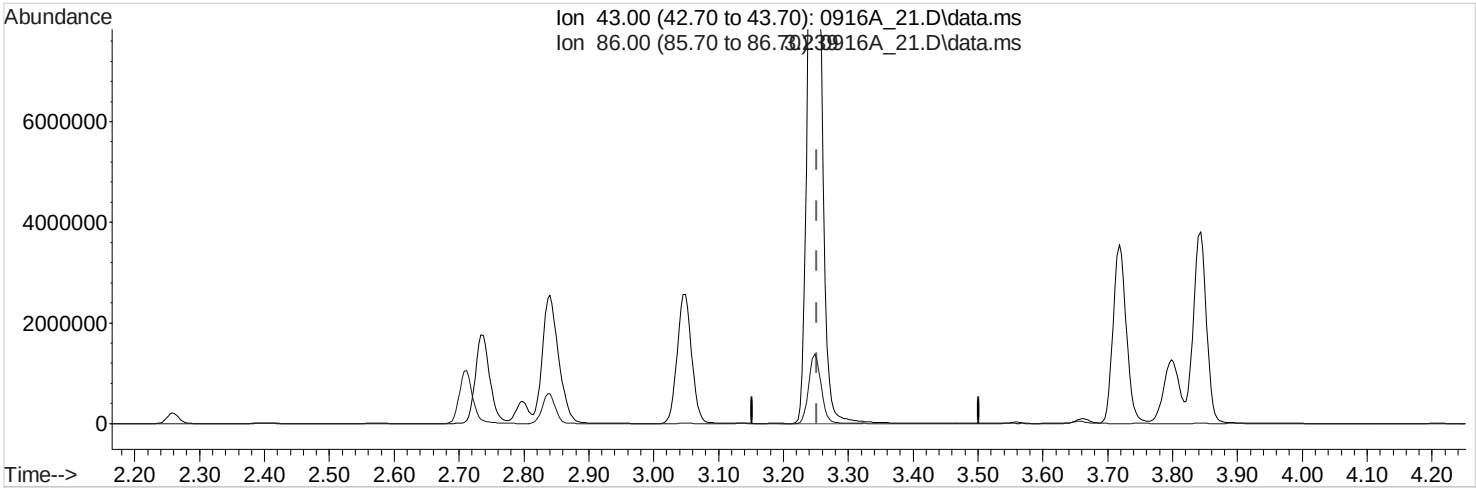

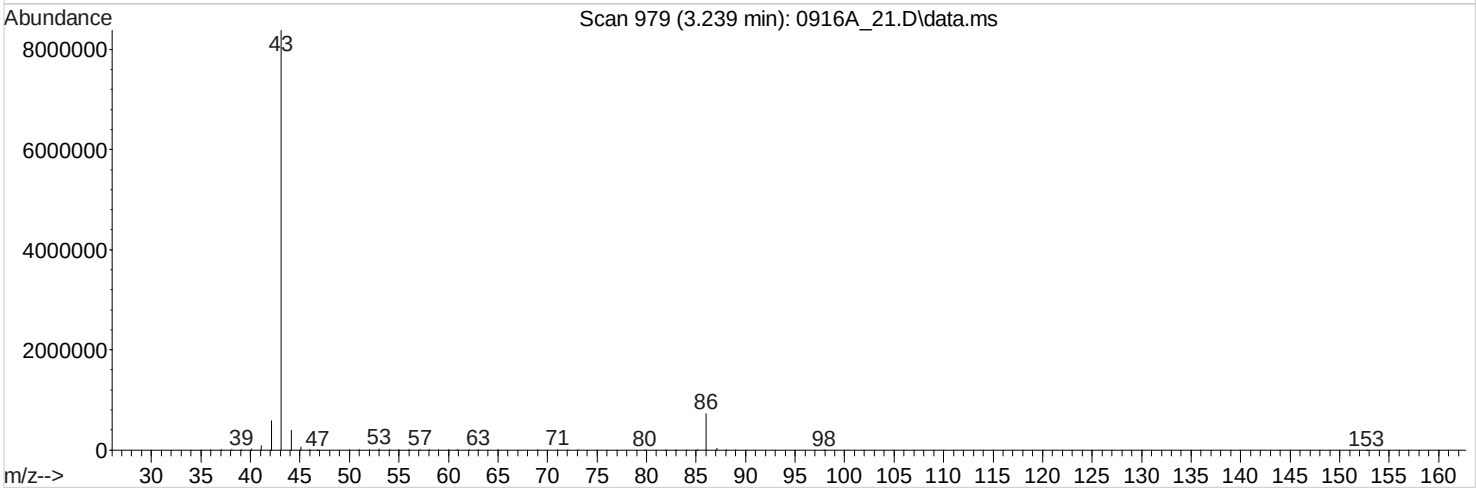

TIC: 0916A_21.D\data.ms

(25) VINYL ACETATE (T,M)

3.239min (-0.013) 833.2680254 ppb m

response 15273838

Ion	Exp%	Act%
43.00	100	100
86.00	9.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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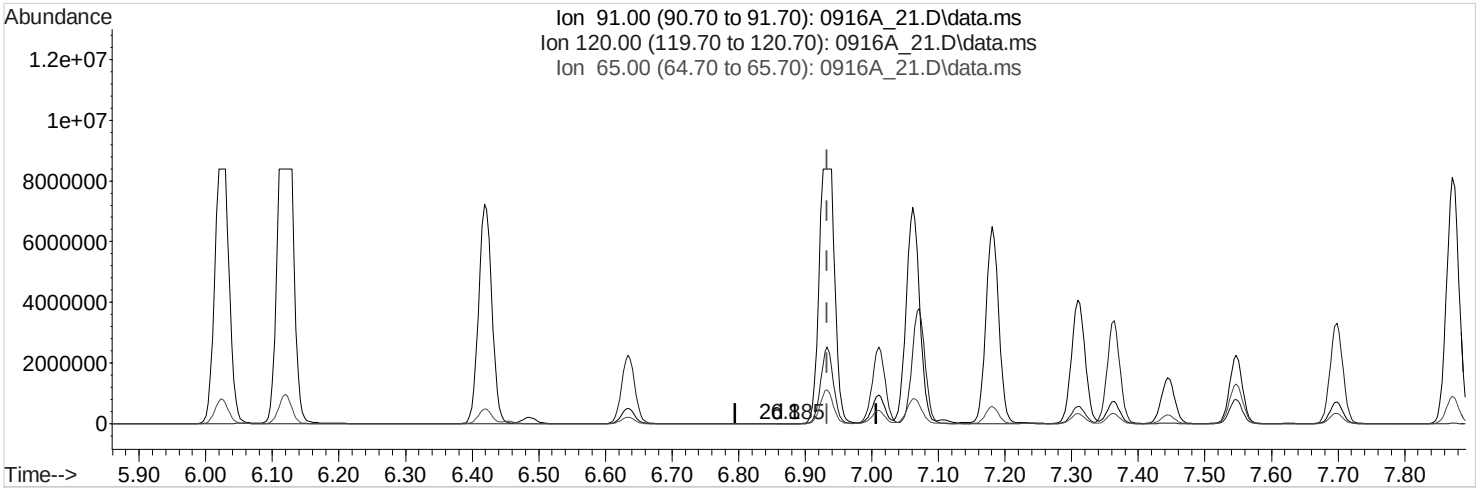

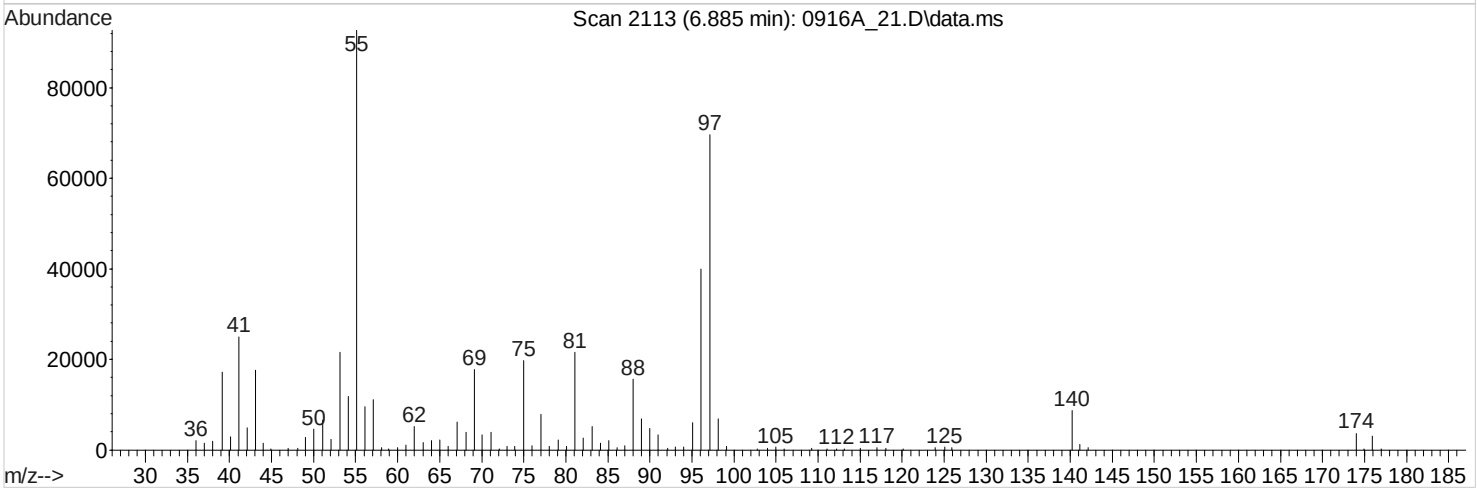

TIC: 0916A_21.D\data.ms

(73) n-Propylbenzene (T,M)

6.885min (-0.048) 0.0360726 ppb

Qvalue = 4

response 2405

Ion	Exp%	Act%
91.00	100	100
120.00	21.00	0.00#
65.00	10.60	84.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 21.D
Acq On    : 16 Sep 2014  10:55 pm
Operator  : 644
Sample    : STD VMS 200 PPB 14I15510
Misc      : water ISSURR14G23644
ALS Vial  : 13   Sample Multiplier: 1

InstName  : VOCMS21
Quant Time: Sep 17 10:11:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:09:59 2014
Response via : Initial Calibration
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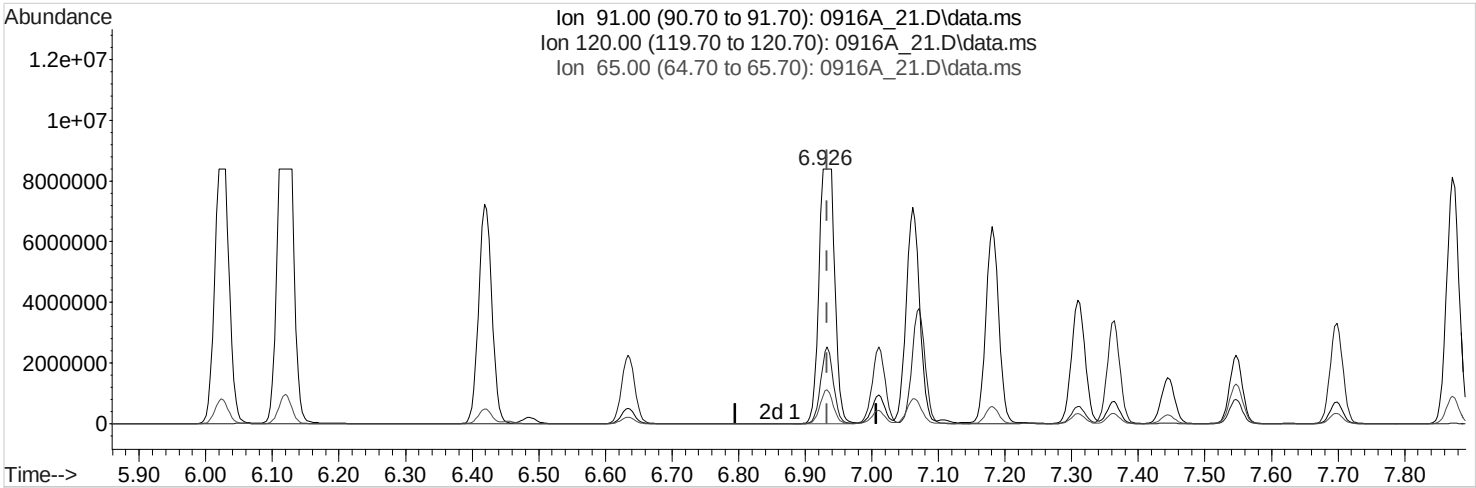
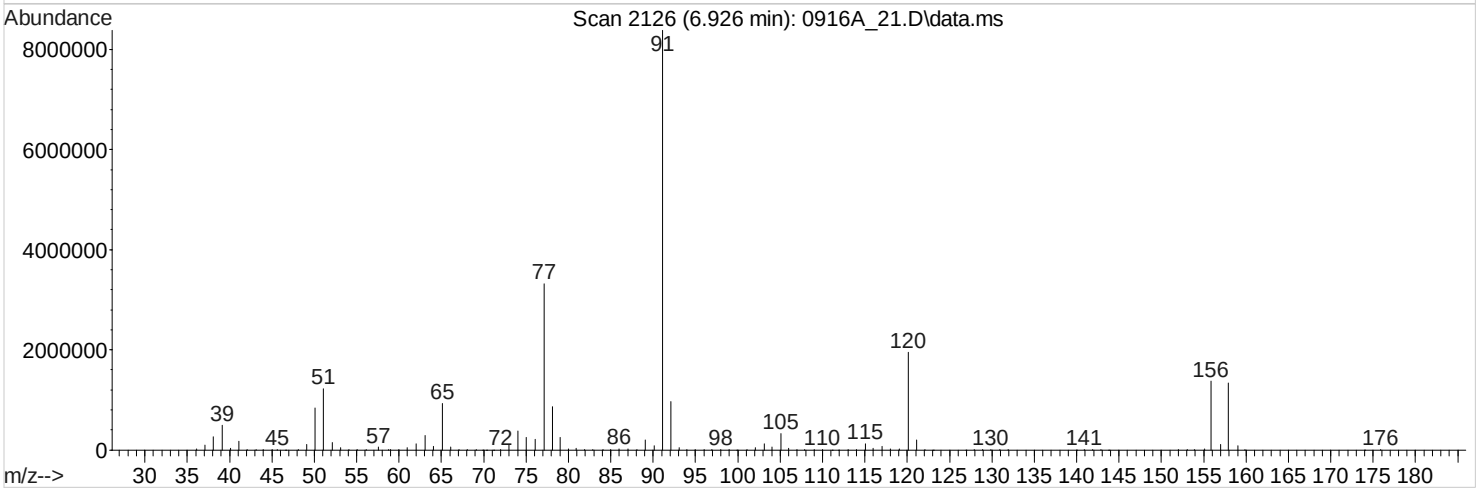




TIC: 0916A_21.D\data.ms

(73) n-Propylbenzene (T,M)

6.926min (-0.006) 208.6701207 ppb m

response 13912256

Ion	Exp%	Act%
91.00	100	100
120.00	21.00	0.00#
65.00	10.60	0.01#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	461858	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	870834	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	144327	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	323145	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D. d	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D. d	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D. d	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. d	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D. d	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D. d	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D. d	
35) CARBON TETRACHLORIDE	0.000	0	N.D. d	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	d
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	d
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

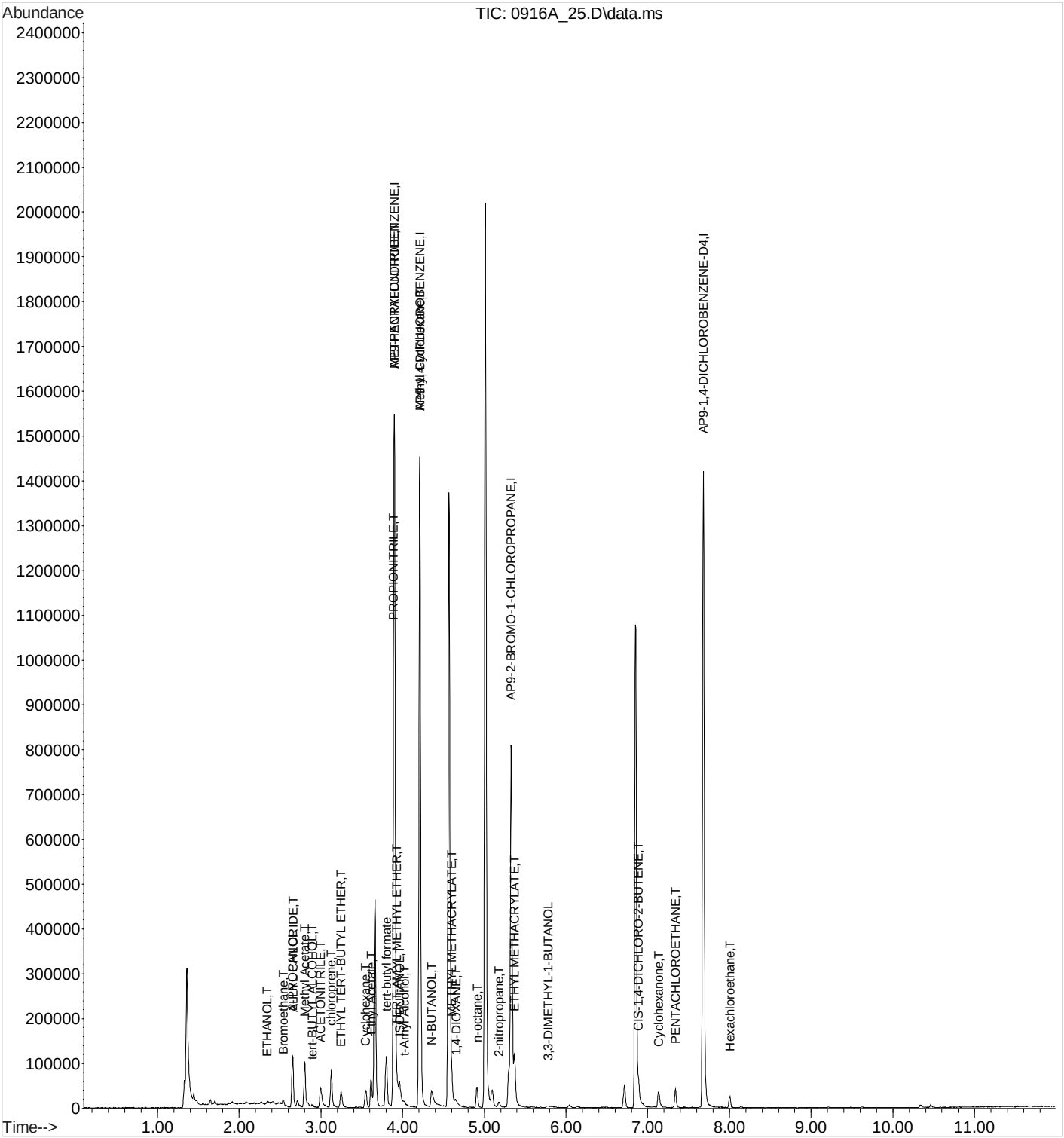
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.342	45	7736	96.8306828 ppb	#	99
98)	Bromoethane	2.541	108	5943	1.1185262 ppb		94
99)	2-PROPANOL	2.653	45	2229	4.2338101 ppb	#	67
100)	Methyl Acetate	2.801	43	103751	20.1836116 ppb	#	98
101)	ACETONITRILE	2.998	41	48660	47.8295740 ppb		94
102)	ALLYL CHLORIDE	2.657	76	18635	4.4167845 ppb		82
103)	tert-BUTYL ALCOHOL	2.895	59	5396	4.8219297 ppb	#	96
104)	chloroprene	3.126	53	42192	5.0577741 ppb		95
105)	ETHYL TERT-BUTYL ETHER	3.245	59	25033	0.9650697 ppb		100
106)	PROPIONITRILE	3.888	54	52393	47.4217879 ppb	#	90
107)	Ethyl Acetate	3.615	43	66522	9.1163279 ppb		97
108)	METHACRYLONITRILE	3.898	67	158930	45.2609252 ppb		99
109)	Cyclohexane	3.547	56	15496	1.0396598 ppb		96
110)	tert-butyl formate	3.801	59	29065	9.2419049 ppb	#	70
111)	ISOBUTANOL	3.962	41	19288	65.6888191 ppb	#	75
112)	t-Amyl Alcohol	4.020	59	2747	3.9595382 ppb	#	81
113)	TERT-AMYL METHYL ETHER	3.930	73	20423	0.8099395 ppb	#	95
115)	N-BUTANOL	4.354	56	27852	106.6712913 ppb		93
116)	Methyl Cyclohexane	4.210	83	24795	1.4330921 ppb	#	80
117)	2-nitropropane	5.181	43	6535	3.7382776 ppb	#	78
118)	METHYL METHACRYLATE	4.599	41	30902	3.7519148 ppb		88
119)	1,4-DIOXANE	4.657	88	10291	114.5396183 ppb		94
120)	n-octane	4.911	85	7040	0.7713110 ppb		83
121)	3,3-DIMETHYL-1-BUTANOL	5.779	57	2438	4.3149517 ppb	#	69
123)	ETHYL METHACRYLATE	5.370	69	43974	3.7779501 ppb	#	38
124)	CIS-1,4-DICHLORO-2-BUTENE	6.885	53	9118	3.9557696 ppb	#	28
125)	Cyclohexanone	7.132	55	16225	8.5357234 ppb		98
126)	PENTACHLOROETHANE	7.338	117	7414	10.3302575 ppb		93
127)	Hexachloroethane	8.004	117	4156	0.9491333 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 25.D
Acq On : 17 Sep 2014 12:23 am
Operator : 644
Sample : STD VMS 1 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 17 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:27:55 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	472583	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.209	114	873577	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	143969	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	313717	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D. d	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D. d	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D. d	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. d	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	d
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

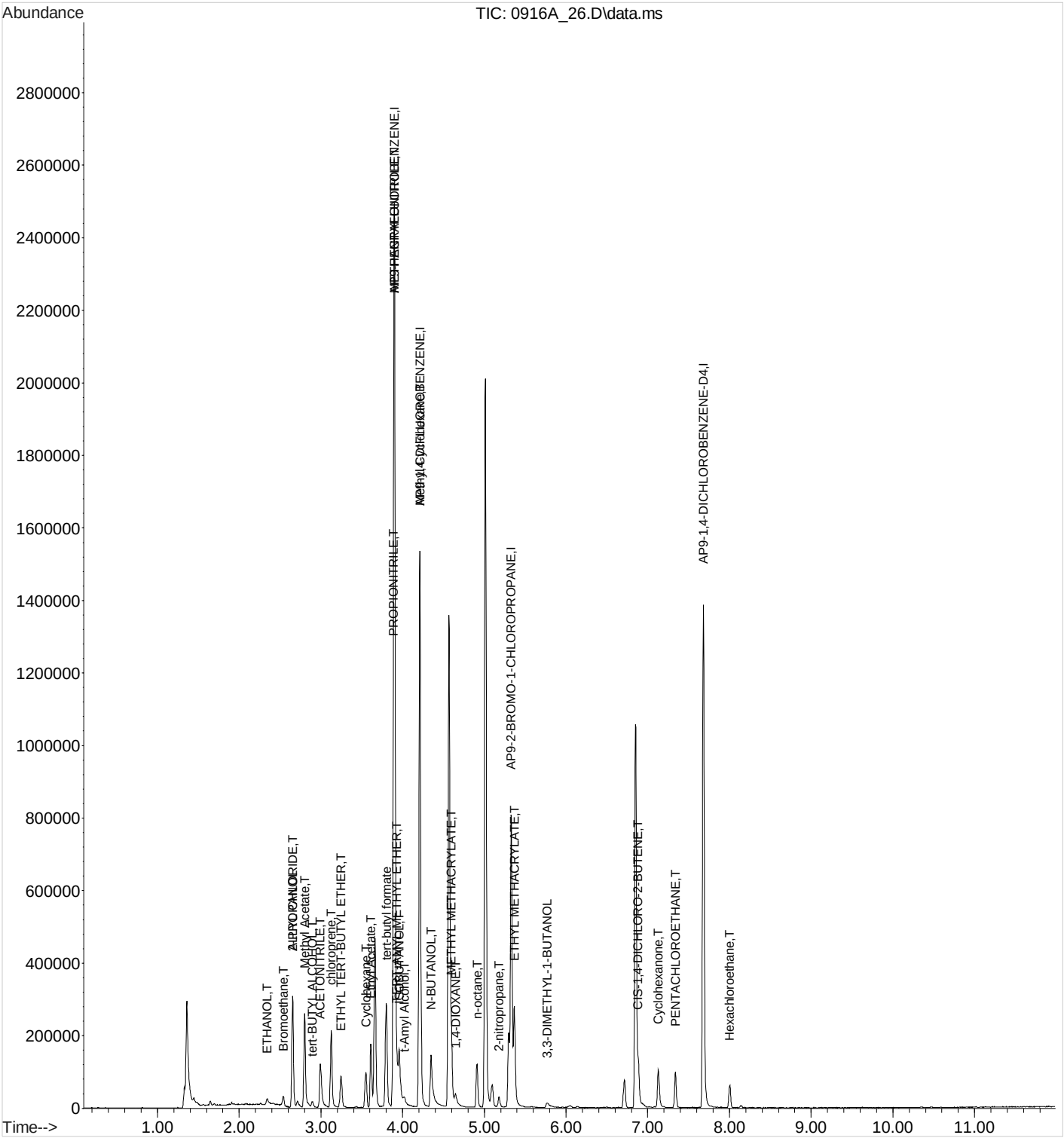
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	21749	266.0518004 ppb	#	95
98)	Bromoethane	2.541	108	14643	2.6934000 ppb		96
99)	2-PROPANOL	2.653	45	5668	10.5215937 ppb	#	80
100)	Methyl Acetate	2.801	43	260872	49.5980306 ppb	#	99
101)	ACETONITRILE	2.991	41	128406	123.3502691 ppb		99
102)	ALLYL CHLORIDE	2.653	76	53110	12.3022200 ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	13334	11.6450072 ppb		98
104)	chloroprene	3.126	53	107049	12.5412927 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	64412	2.4268501 ppb		99
106)	PROPIONITRILE	3.885	54	128948	114.0642748 ppb	#	95
107)	Ethyl Acetate	3.611	43	173710	23.2653631 ppb		98
108)	METHACRYLONITRILE	3.898	67	403445	112.2877184 ppb		99
109)	Cyclohexane	3.550	56	39147	2.5668501 ppb		98
110)	tert-butyl formate	3.801	59	78428	24.3720850 ppb		87
111)	ISOBUTANOL	3.955	41	53306	177.4233307 ppb		81
112)	t-Amyl Alcohol	4.023	59	6561	9.2424325 ppb		92
113)	TERT-AMYL METHYL ETHER	3.930	73	57040	2.2107668 ppb	#	95
115)	N-BUTANOL	4.348	56	98930	377.7055450 ppb		96
116)	Methyl Cyclohexane	4.209	83	46789	2.6958018 ppb		95
117)	2-nitropropane	5.177	43	16203	9.2396511 ppb	#	87
118)	METHYL METHACRYLATE	4.595	41	86641	10.4863420 ppb		91
119)	1,4-DIOXANE	4.647	88	24660	273.6058704 ppb		94
120)	n-octane	4.910	85	20978	2.2911584 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	5.772	57	11406	20.1237905 ppb	#	67
123)	ETHYL METHACRYLATE	5.367	69	118457	10.2023349 ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	24553	10.6786059 ppb	#	30
125)	Cyclohexanone	7.129	55	43727	23.0613064 ppb		97
126)	PENTACHLOROETHANE	7.338	117	16075	22.4537118 ppb		98
127)	Hexachloroethane	8.000	117	11141	2.5506711 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 26.D
Acq On : 17 Sep 2014 12:45 am
Operator : 644
Sample : STD VMS 2.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 18 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:22 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	494194	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	917517	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	149215	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	324927	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D. d	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D. d	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. d	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	d
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

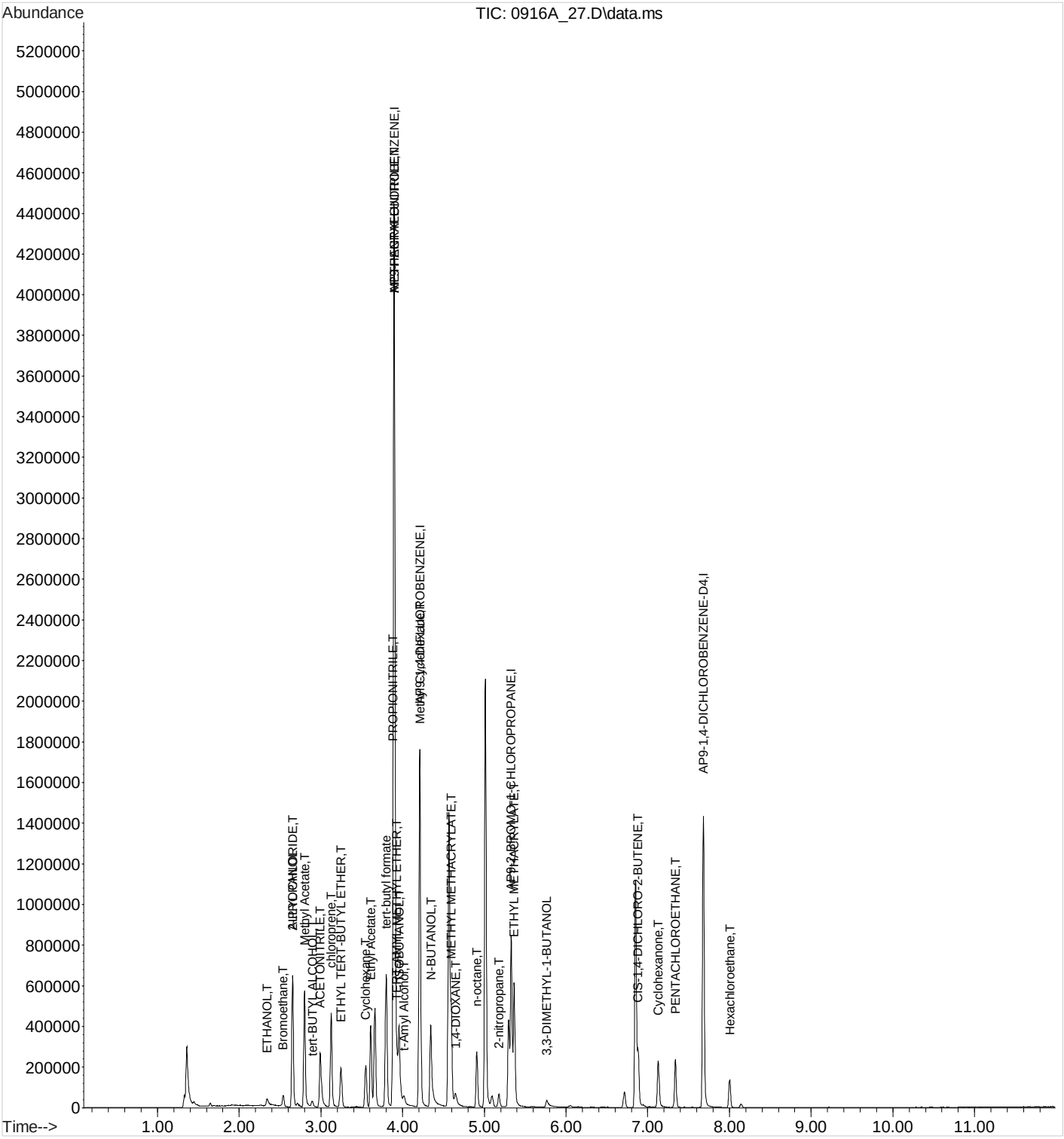
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	48796	570.8102434 ppb		99
98)	Bromoethane	2.538	108	29668	5.2184280 ppb		92
99)	2-PROPANOL	2.653	45	12478	22.1501816 ppb	#	81
100)	Methyl Acetate	2.798	43	549928	99.9823692 ppb	#	99
101)	ACETONITRILE	2.991	41	270923	248.8750077 ppb		99
102)	ALLYL CHLORIDE	2.653	76	112918	25.0121481 ppb		95
103)	tert-BUTYL ALCOHOL	2.894	59	25546	21.3345185 ppb		96
104)	chloroprene	3.126	53	228047	25.5484573 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	141392	5.0942662 ppb		99
106)	PROPIONITRILE	3.882	54	289688	245.0451804 ppb		97
107)	Ethyl Acetate	3.608	43	372562	47.7160185 ppb		99
108)	METHACRYLONITRILE	3.898	67	891534	237.2829083 ppb		100
109)	Cyclohexane	3.547	56	79101	4.9598052 ppb		98
110)	tert-butyl formate	3.798	59	183189	54.4379248 ppb		93
111)	ISOBUTANOL	3.955	41	171860	547.0034519 ppb	#	81
112)	t-Amyl Alcohol	4.017	59	17307	23.3141007 ppb	#	83
113)	TERT-AMYL METHYL ETHER	3.930	73	127081	4.7100409 ppb	#	98
115)	N-BUTANOL	4.345	56	234351	851.8815924 ppb		97
116)	Methyl Cyclohexane	4.213	83	94082	5.1610469 ppb		100
117)	2-nitropropane	5.177	43	37489	20.3540609 ppb	#	92
118)	METHYL METHACRYLATE	4.595	41	194738	22.4408001 ppb		93
119)	1,4-DIOXANE	4.647	88	47833	505.2973613 ppb		96
120)	n-octane	4.907	85	45892	4.7721610 ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	5.766	57	26401	44.3490038 ppb		92
123)	ETHYL METHACRYLATE	5.364	69	266661	22.1592396 ppb		95
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	56990	23.9147120 ppb	#	30
125)	Cyclohexanone	7.129	55	94317	47.9933103 ppb		99
126)	PENTACHLOROETHANE	7.338	117	39936	53.8218016 ppb		98
127)	Hexachloroethane	8.004	117	25495	5.6317298 ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 27.D
Acq On : 17 Sep 2014 1:07 am
Operator : 644
Sample : STD VMS 5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 19 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:28:40 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	517426	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	962965	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	161442	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	339512	40.0000000	ppb	0.00

System Monitoring Compounds

33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds

				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D. d	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

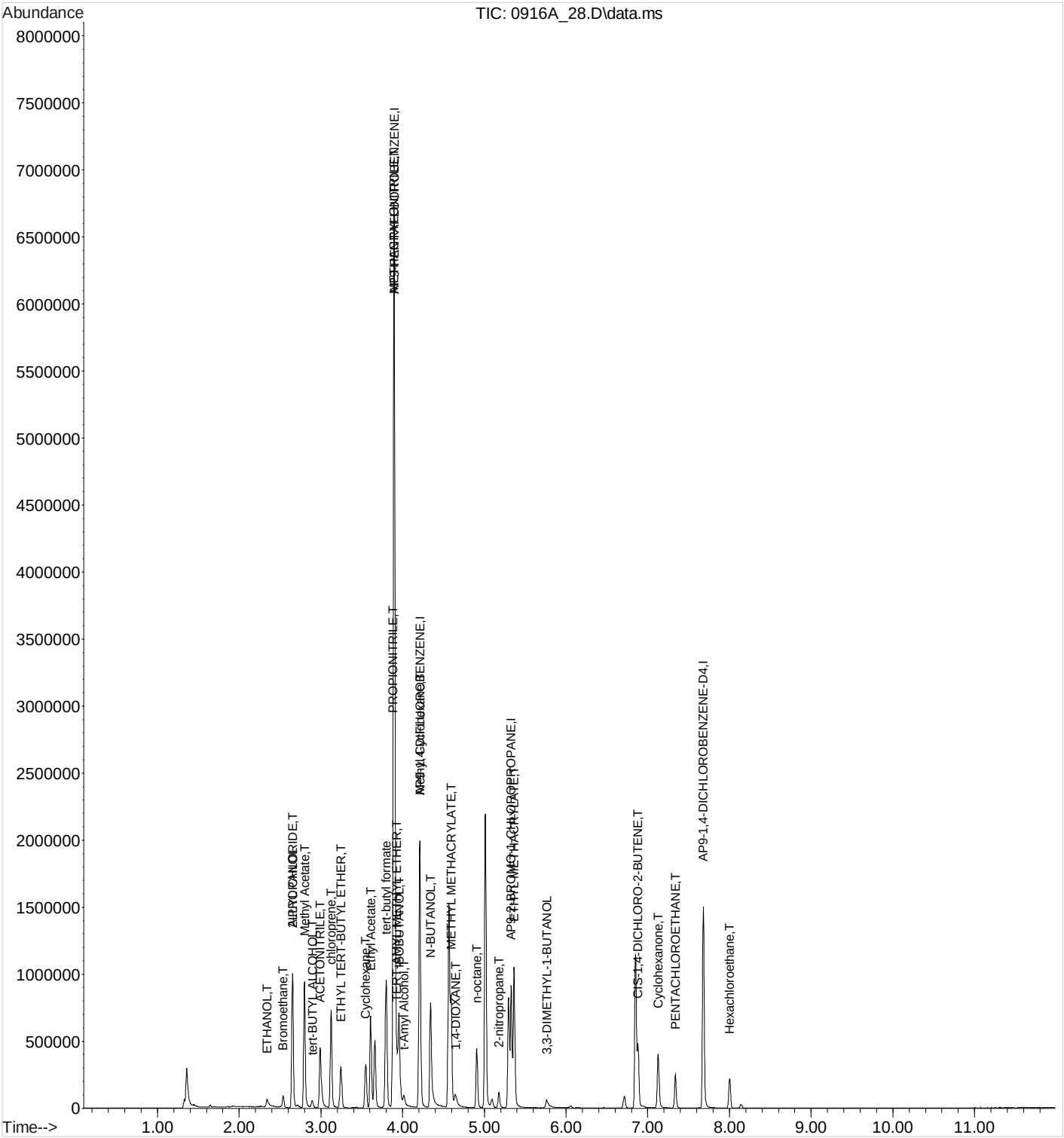
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.341	45	74413	831.3914805 ppb	#	99
98)	Bromoethane	2.538	108	47853	8.0391442 ppb		100
99)	2-PROPANOL	2.653	45	20911	35.4532728 ppb	#	88
100)	Methyl Acetate	2.798	43	890558	154.6425567 ppb	#	100
101)	ACETONITRILE	2.991	41	444309	389.8250486 ppb		99
102)	ALLYL CHLORIDE	2.653	76	178810	37.8293464 ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	44775	35.7145147 ppb		96
104)	chloroprene	3.123	53	358148	38.3223443 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	220860	7.6001661 ppb		98
106)	PROPIONITRILE	3.882	54	476053	384.6096589 ppb		99
107)	Ethyl Acetate	3.608	43	623195	76.2322649 ppb		99
108)	METHACRYLONITRILE	3.894	67	1478960	375.9535545 ppb		100
109)	Cyclohexane	3.547	56	128441	7.6919339 ppb		99
110)	tert-butyl formate	3.798	59	279954	79.4580801 ppb		97
111)	ISOBUTANOL	3.956	41	287799	874.8906208 ppb	#	79
112)	t-Amyl Alcohol	4.017	59	28861	37.1327805 ppb		91
113)	TERT-AMYL METHYL ETHER	3.930	73	210200	7.4409088 ppb	#	96
115)	N-BUTANOL	4.341	56	436162	1510.6500375 ppb		98
116)	Methyl Cyclohexane	4.210	83	145406	7.6000632 ppb		98
117)	2-nitropropane	5.177	43	67942	35.1470725 ppb		97
118)	METHYL METHACRYLATE	4.592	41	328175	36.0326947 ppb		97
119)	1,4-DIOXANE	4.647	88	72746	732.2040823 ppb	#	94
120)	n-octane	4.907	85	72883	7.2211765 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	44451	71.1456980 ppb		94
123)	ETHYL METHACRYLATE	5.364	69	461786	35.4676216 ppb		98
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	98261	38.1104110 ppb		89
125)	Cyclohexanone	7.126	55	160694	75.5764248 ppb		99
126)	PENTACHLOROETHANE	7.338	117	41812	52.0823489 ppb		98
127)	Hexachloroethane	8.000	117	39770	8.1196692 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 28.D
Acq On : 17 Sep 2014 1:29 am
Operator : 644
Sample : STD VMS 7.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 20 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:07 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	537306	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1012134	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	173559	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	339722	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	d
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

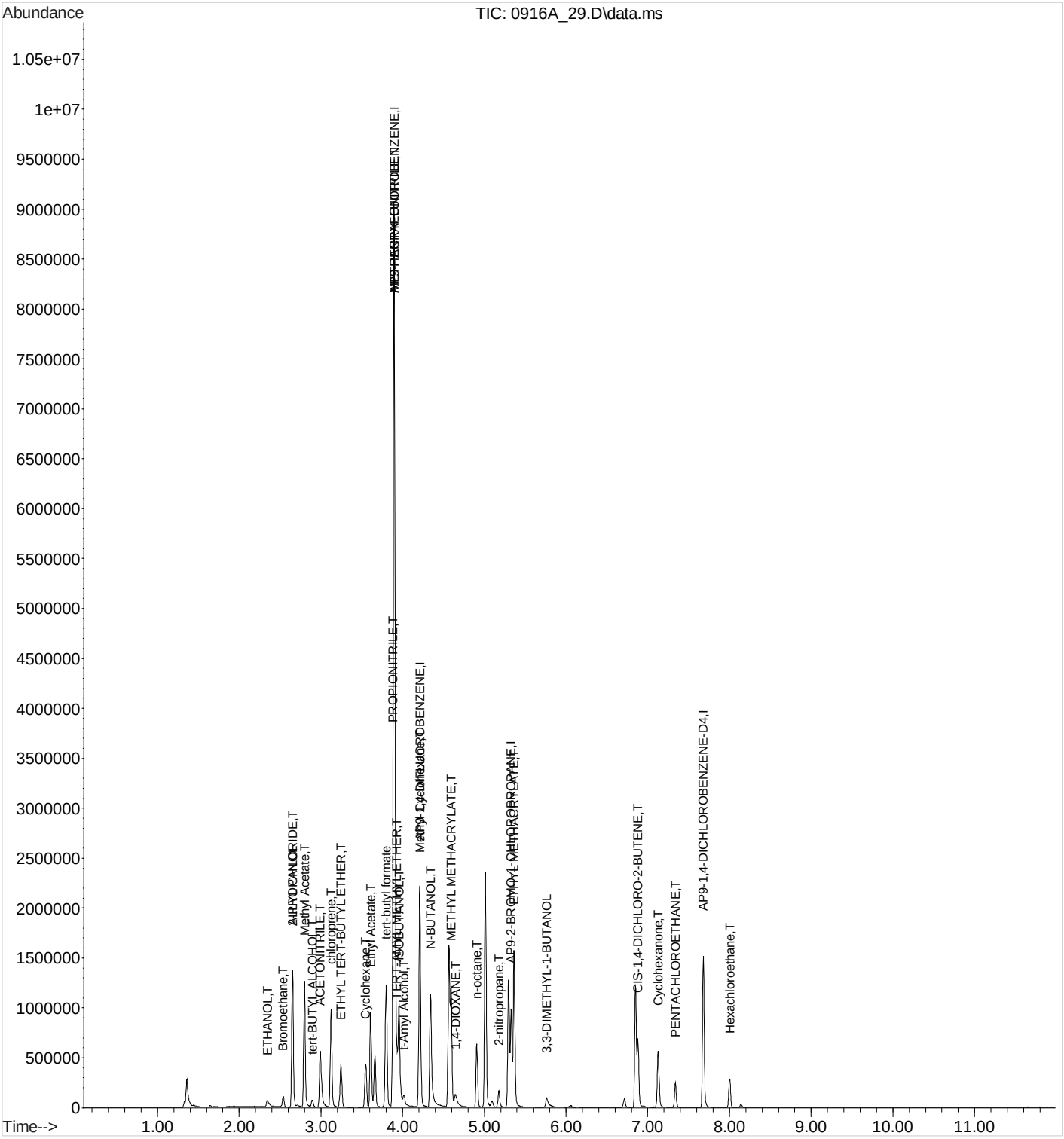
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	92943	1000.0000000	ppb		100
98)	Bromoethane	2.538	108	61812	10.0000000	ppb		100
99)	2-PROPANOL	2.653	45	30624	50.0000000	ppb		100
100)	Methyl Acetate	2.798	43	1196015	200.0000000	ppb	#	100
101)	ACETONITRILE	2.991	41	591778	500.0000000	ppb		100
102)	ALLYL CHLORIDE	2.653	76	245418	50.0000000	ppb		100
103)	tert-BUTYL ALCOHOL	2.895	59	65093	50.0000000	ppb		100
104)	chloroprene	3.123	53	485237	50.0000000	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	301764	10.0000000	ppb		100
106)	PROPIONITRILE	3.882	54	642656	500.0000000	ppb		100
107)	Ethyl Acetate	3.608	43	848904	100.0000000	ppb		100
108)	METHACRYLONITRILE	3.898	67	2042517	500.0000000	ppb		100
109)	Cyclohexane	3.547	56	173397	10.0000000	ppb		100
110)	tert-butyl formate	3.798	59	365866	100.0000000	ppb		100
111)	ISOBUTANOL	3.956	41	341593	1000.0000000	ppb		100
112)	t-Amyl Alcohol	4.017	59	40355	50.0000000	ppb		100
113)	TERT-AMYL METHYL ETHER	3.930	73	293346	10.0000000	ppb	#	100
115)	N-BUTANOL	4.341	56	606934	2000.0000000	ppb		100
116)	Methyl Cyclohexane	4.213	83	201091	10.0000000	ppb		100
117)	2-nitropropane	5.177	43	101589	50.0000000	ppb		100
118)	METHYL METHACRYLATE	4.592	41	478637	50.0000000	ppb		100
119)	1,4-DIOXANE	4.647	88	104425	1000.0000000	ppb		100
120)	n-octane	4.907	85	106083	10.0000000	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	65669	100.0000000	ppb		100
123)	ETHYL METHACRYLATE	5.364	69	699857	50.0000000	ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	138592	50.0000000	ppb		100
125)	Cyclohexanone	7.126	55	228583	100.0000000	ppb		100
126)	PENTACHLOROETHANE	7.338	117	43153	50.0000000	ppb		100
127)	Hexachloroethane	8.004	117	52656	10.0000000	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 29.D
Acq On : 17 Sep 2014 1:52 am
Operator : 644
Sample : MSTD VMS 10a PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 21 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:27 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	699817	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1271203	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.328	79	218333	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	447249	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D. d	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	d
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	d
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

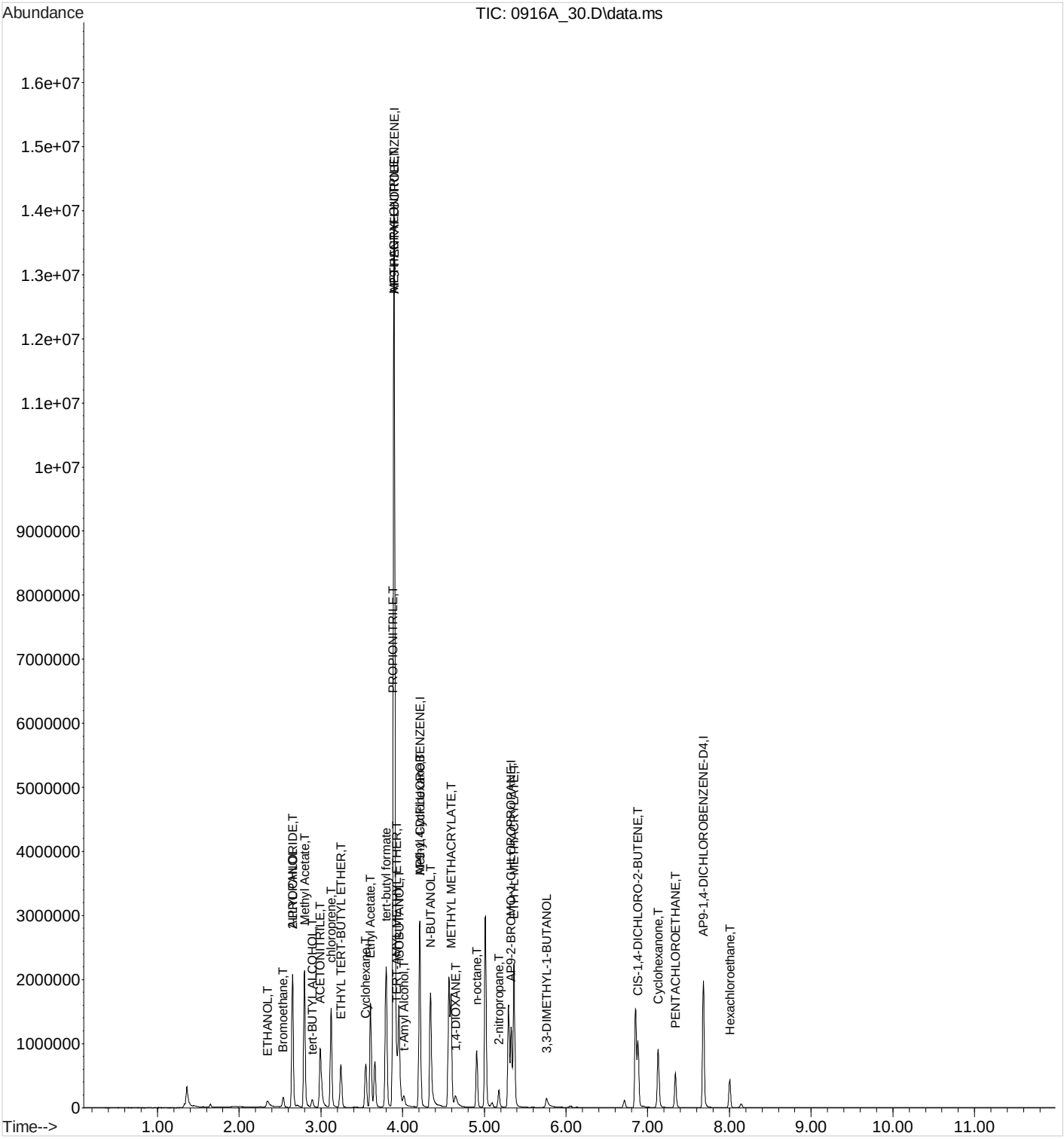
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	156616	1293.7687100	ppb	#	98
98)	Bromoethane	2.538	108	92643	11.5073949	ppb		97
99)	2-PROPANOL	2.653	45	43559	54.6038407	ppb	#	92
100)	Methyl Acetate	2.798	43	2009397	257.9861080	ppb	#	99
101)	ACETONITRILE	2.991	41	983680	638.1198173	ppb		99
102)	ALLYL CHLORIDE	2.653	76	365212	57.1275807	ppb		96
103)	tert-BUTYL ALCOHOL	2.894	59	108165	63.7910386	ppb		99
104)	chloroprene	3.123	53	751724	59.4718863	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	475410	12.0958972	ppb		100
106)	PROPIONITRILE	3.882	54	1077085	643.3963867	ppb		95
107)	Ethyl Acetate	3.605	43	1445519	130.7381775	ppb		99
108)	METHACRYLONITRILE	3.894	67	3232495	607.5463112	ppb		99
109)	Cyclohexane	3.547	56	265684	11.7641627	ppb		97
110)	tert-butyl formate	3.798	59	679159	142.5235430	ppb		96
111)	ISOBUTANOL	3.956	41	606241	1362.6161876	ppb		84
112)	t-Amyl Alcohol	4.017	59	62983	59.9146736	ppb		100
113)	TERT-AMYL METHYL ETHER	3.927	73	416287	10.8955681	ppb	#	98
115)	N-BUTANOL	4.341	56	989865	2597.0936011	ppb		97
116)	Methyl Cyclohexane	4.210	83	277412	10.9838784	ppb		98
117)	2-nitropropane	5.177	43	157919	61.8843465	ppb		98
118)	METHYL METHACRYLATE	4.592	41	688719	57.2834156	ppb		99
119)	1,4-DIOXANE	4.647	88	154518	1178.1421646	ppb		94
120)	n-octane	4.907	85	147529	11.0727300	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	106742	129.4189994	ppb		92
123)	ETHYL METHACRYLATE	5.364	69	989927	56.2201008	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.881	53	210872	60.4753675	ppb		94
125)	Cyclohexanone	7.126	55	364272	126.6804563	ppb		99
126)	PENTACHLOROETHANE	7.338	117	93195	85.8379586	ppb		99
127)	Hexachloroethane	8.004	117	78655	11.8742511	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 30.D
Acq On : 17 Sep 2014 3:12 am
Operator : 644
Sample : STD VMS 12.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 22 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:29:49 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	628586	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1126640	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	193605	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	382657	40.0000000	ppb	0.00

System Monitoring Compounds

33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb
Spiked Amount 40.000	Range 78 - 121		Recovery	=	0.00%#
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb
Spiked Amount 40.000	Range 85 - 114		Recovery	=	0.00%#
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb
Spiked Amount 40.000	Range 89 - 111		Recovery	=	0.00%#
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb
Spiked Amount 40.000	Range 71 - 126		Recovery	=	0.00%#

Target Compounds

				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	d
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

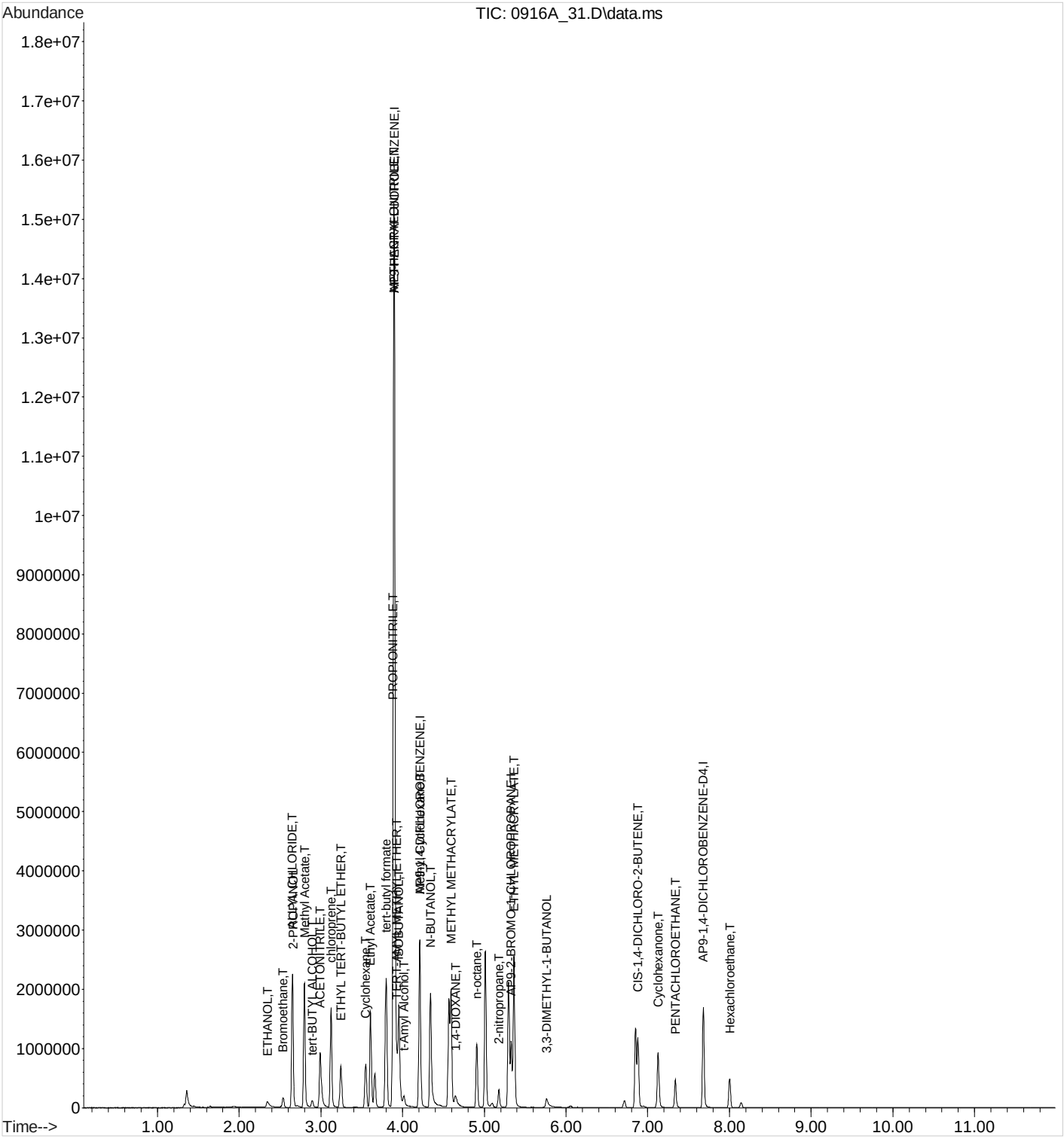
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.345	45	146752	1349.6598496 ppb	#	97
98)	Bromoethane	2.538	108	96264	13.3121467 ppb		95
99)	2-PROPANOL	2.657	45	43682	60.9631766 ppb		97
100)	Methyl Acetate	2.798	43	1980490	283.0890098 ppb	#	100
101)	ACETONITRILE	2.991	41	967276	698.5839235 ppb		100
102)	ALLYL CHLORIDE	2.650	76	403008	70.1833744 ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	102099	67.0369414 ppb		98
104)	chloroprene	3.123	53	813321	71.6366169 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	500139	14.1670778 ppb		99
106)	PROPIONITRILE	3.882	54	1132716	753.3025873 ppb		98
107)	Ethyl Acetate	3.605	43	1438359	144.8323913 ppb		99
108)	METHACRYLONITRILE	3.895	67	3530221	738.6916752 ppb		99
109)	Cyclohexane	3.547	56	289284	14.2606664 ppb		98
110)	tert-butyl formate	3.798	59	681438	159.2066786 ppb		96
111)	ISOBUTANOL	3.953	41	567935	1421.1720491 ppb		100
112)	t-Amyl Alcohol	4.017	59	68666	72.7229333 ppb		97
113)	TERT-AMYL METHYL ETHER	3.927	73	491732	14.3286504 ppb	#	98
115)	N-BUTANOL	4.342	56	1055332	3124.1399724 ppb		96
116)	Methyl Cyclohexane	4.210	83	326829	14.6009394 ppb		96
117)	2-nitropropane	5.178	43	171851	75.9850635 ppb		96
118)	METHYL METHACRYLATE	4.592	41	784862	73.6562980 ppb		98
119)	1,4-DIOXANE	4.647	88	166409	1431.6114878 ppb	#	95
120)	n-octane	4.907	85	178744	15.1369553 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	106429	145.5970000 ppb		95
123)	ETHYL METHACRYLATE	5.364	69	1166237	74.6926864 ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	236499	76.4877210 ppb		95
125)	Cyclohexanone	7.126	55	369201	144.7936481 ppb		99
126)	PENTACHLOROETHANE	7.338	117	80208	83.3119440 ppb		99
127)	Hexachloroethane	8.004	117	93856	15.9788215 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 31.D
Acq On : 17 Sep 2014 3:34 am
Operator : 644
Sample : STD VMS 15 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 23 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:37 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	608863	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1074854	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	183160	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.679	152	355776	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	d
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

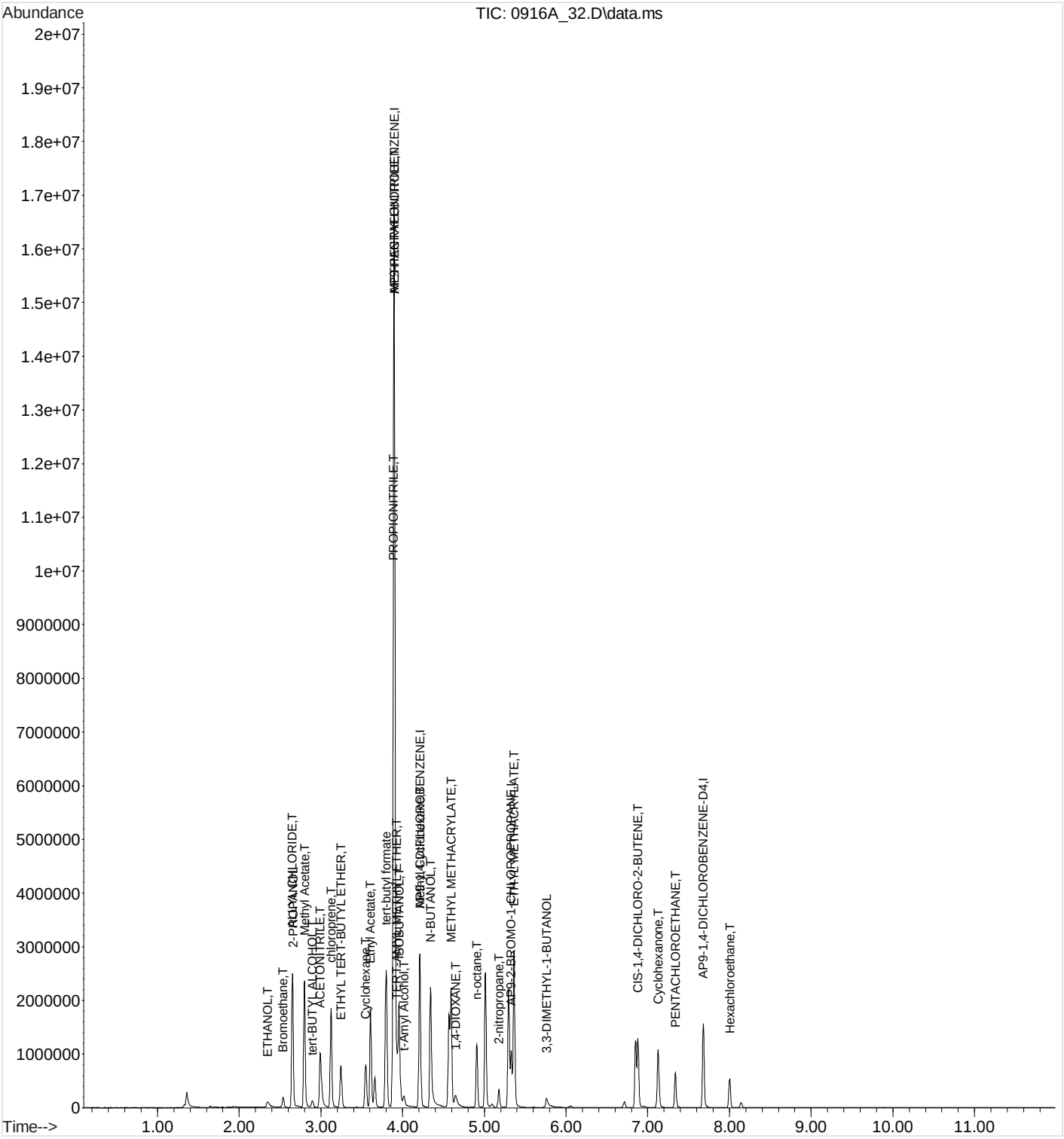
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.345	45	165762	1573.8755862	ppb	#	99
98)	Bromoethane	2.538	108	110743	15.8104997	ppb		99
99)	2-PROPANOL	2.657	45	53120	76.5364407	ppb		94
100)	Methyl Acetate	2.798	43	2217581	327.2464683	ppb	#	100
101)	ACETONITRILE	2.991	41	1101582	821.3535273	ppb		100
102)	ALLYL CHLORIDE	2.650	76	443936	79.8152840	ppb		97
103)	tert-BUTYL ALCOHOL	2.895	59	112563	76.3015715	ppb		98
104)	chloroprene	3.123	53	901682	81.9920231	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.245	59	554942	16.2286455	ppb		99
106)	PROPIONITRILE	3.885	54	1267403	870.1783535	ppb		96
107)	Ethyl Acetate	3.605	43	1609564	167.3215107	ppb		99
108)	METHACRYLONITRILE	3.898	67	3965063	856.5575030	ppb		99
109)	Cyclohexane	3.547	56	319920	16.2817814	ppb		99
110)	tert-butyl formate	3.798	59	806348	194.4923697	ppb		94
111)	ISOBUTANOL	3.956	41	748088	1932.6171670	ppb		84
112)	t-Amyl Alcohol	4.017	59	75599	82.6591263	ppb		93
113)	TERT-AMYL METHYL ETHER	3.927	73	550989	16.5754323	ppb	#	98
115)	N-BUTANOL	4.341	56	1208534	3750.0403332	ppb		97
116)	Methyl Cyclohexane	4.210	83	367612	17.2141500	ppb		98
117)	2-nitropropane	5.177	43	191456	88.7321158	ppb		97
118)	METHYL METHACRYLATE	4.592	41	869974	85.5772935	ppb		99
119)	1,4-DIOXANE	4.650	88	196718	1773.8959963	ppb		95
120)	n-octane	4.907	85	193482	17.1744688	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	119999	172.0702387	ppb		95
123)	ETHYL METHACRYLATE	5.364	69	1303694	88.2577527	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	255670	87.4033579	ppb		93
125)	Cyclohexanone	7.126	55	423293	175.4743582	ppb		100
126)	PENTACHLOROETHANE	7.338	117	113557	124.6778849	ppb		99
127)	Hexachloroethane	8.004	117	99028	17.8207775	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 32.D
Acq On : 17 Sep 2014 3:56 am
Operator : 644
Sample : STD VMS 17.5 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 24 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:33:59 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.90
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.21
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.33
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.68
96) AP9-PENTAFLUOROBENZENE	3.898	168	639830	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.210	114	1109708	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.329	79	187288	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.682	152	367930	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D. d	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	d
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	d
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	0.000		0	N.D.	
95) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration

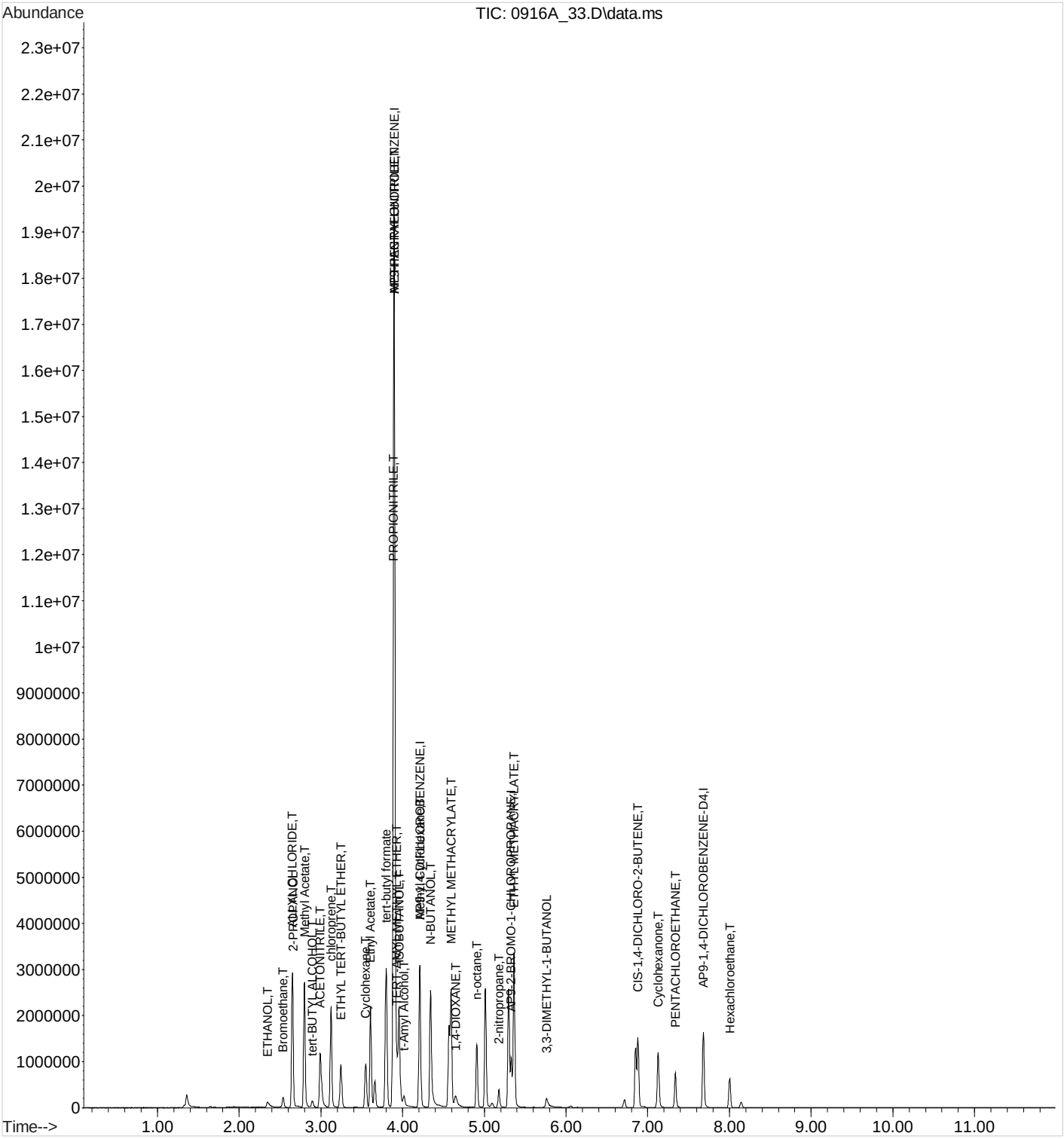
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.348	45	185231	1673.6092826	ppb	#	96
98)	Bromoethane	2.538	108	131830	17.9101221	ppb		98
99)	2-PROPANOL	2.657	45	60824	83.3950276	ppb	#	91
100)	Methyl Acetate	2.798	43	2568739	360.7201806	ppb	#	99
101)	ACETONITRILE	2.991	41	1252470	888.6599581	ppb		99
102)	ALLYL CHLORIDE	2.650	76	519474	88.8759997	ppb		98
103)	tert-BUTYL ALCOHOL	2.895	59	128479	82.8752698	ppb		98
104)	chloroprene	3.123	53	1063319	92.0103665	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.245	59	657976	18.3104794	ppb		98
106)	PROPIONITRILE	3.885	54	1497925	978.6752331	ppb		95
107)	Ethyl Acetate	3.605	43	1891496	187.1129898	ppb		99
108)	METHACRYLONITRILE	3.898	67	4659599	957.8774711	ppb		99
109)	Cyclohexane	3.547	56	382532	18.5260692	ppb		99
110)	tert-butyl formate	3.798	59	966861	221.9213478	ppb		93
111)	ISOBUTANOL	3.956	41	727951	1789.5765308	ppb		99
112)	t-Amyl Alcohol	4.017	59	86840	90.3544525	ppb		98
113)	TERT-AMYL METHYL ETHER	3.930	73	633479	18.1346485	ppb	#	98
115)	N-BUTANOL	4.341	56	1373321	4127.5266581	ppb		97
116)	Methyl Cyclohexane	4.210	83	423113	19.1907979	ppb		98
117)	2-nitropropane	5.177	43	222068	99.6870163	ppb		97
118)	METHYL METHACRYLATE	4.592	41	1007817	96.0228769	ppb		98
119)	1,4-DIOXANE	4.647	88	218052	1904.5171494	ppb		95
120)	n-octane	4.907	85	227913	19.5953309	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	5.763	57	140083	194.5603452	ppb		93
123)	ETHYL METHACRYLATE	5.364	69	1515558	100.3391556	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	6.878	53	298705	99.8645896	ppb		87
125)	Cyclohexanone	7.126	55	474716	192.4540827	ppb		99
126)	PENTACHLOROETHANE	7.338	117	132519	142.2899898	ppb		99
127)	Hexachloroethane	8.004	117	119788	21.0815547	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091614a\
Data File : 0916A 33.D
Acq On : 17 Sep 2014 4:18 am
Operator : 644
Sample : STD VMS 20 PPB 14I02840
Misc : water ISSURR14G23644
ALS Vial : 25 Sample Multiplier: 1

InstName : VOCMS21
Quant Time: Sep 17 10:34:17 2014
Quant Method : C:\msdchem\1\methods\V821I16N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS21
QLast Update : Wed Sep 17 10:26:08 2014
Response via : Initial Calibration



C10-C40 Oil Range by Method 8015

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802

C10-C40 Oil Range by Method 8015
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751565**
Analysis Date:	10/30/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/29/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751565**
Description: **Diesel and Oil Ranges by Method 8015 (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/30/2014	10/30/2014
L729802-03 1x	10/23/2014	10/30/2014	10/30/2014
L729802-04 1x	10/23/2014	10/30/2014	10/30/2014
L729802-05 1x	10/23/2014	10/30/2014	10/30/2014

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751565**
Analysis Date:	10/30/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/29/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGC16	Blank WG751565	Blank WG751565	1030_06.D	10/30/2014	9:45 AM
SVGC16	LCS WG751565	LCS WG751565	1030_07.D	10/30/2014	9:57 AM
SVGC16	LCSD WG751565	LCSD WG751565	1030_08.D	10/30/2014	10:10 AM
SVGC16	MS WG751565	MS WG751565	1030_14.D	10/30/2014	11:23 AM
SVGC16	MSD WG751565	MSD WG751565	1030_15.D	10/30/2014	11:35 AM
SVGC16	TU515-SB02-NS01	L729802-01	1030_18.D	10/30/2014	12:12 PM
SVGC16	TU515-SB08-NS01	L729802-03	1030_19.D	10/30/2014	12:24 PM
SVGC16	TU515-SB10-NS01	L729802-04	1030_20.D	10/30/2014	12:37 PM
SVGC16	TU515-SB10-NS02	L729802-05	1030_26.D	10/30/2014	1:55 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751565**
Analysis Date:	10/30/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/29/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
C10-C28 Diesel Range		< 4.00	< 1.32	
C28-C40 Oil Range		< 4.00	< 1.32	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	60	49.131	81.9	50 - 100	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	60	49.475	82.5	50 - 100	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	60	49.131	81.9	49.475	82.5	50 - 100		0.7	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	C28-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751565**
Analysis Date:	10/30/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/29/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729032-05

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	102	<1.61	73.427	72.2	80.055	78.7	50 - 100		8.64	20	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751565**
Analysis Date:	10/30/2014	Analyst:	543
Instrument ID:	SVGC16	Prep Date:	10/29/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	o-Terphenyl ppm	o-Terphenyl % Rec
L729802-01	SVGC16	1030_18	0.745	93.2
L729802-03	SVGC16	1030_19	0.589	73.7
L729802-04	SVGC16	1030_20	0.635	79.3
L729802-05	SVGC16	1030_26	0.652	81.5
BLANK WG751565	SVGC16	1030_06	0.652	81.5
LCS WG751565	SVGC16	1030_07	0.707	88.4
LCSD WG751565	SVGC16	1030_08	0.692	86.5
MS WG751565	SVGC16	1030_14	0.503	62.8
MSD WG751565	SVGC16	1030_15	0.545	68.1

o-Terphenyl --O-TERPHENYL True Value: 0.8 ppm Limits: 50 - 150

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 0909	ICal Method	: EPHMOD
Lab File ID	: 1030_03	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.456294E+09	3000	0	0	485431.3	114		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	23.8598	119	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 0921	ICal Method	: EPHMOD
Lab File ID	: 1030_04	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.245694E+08	2000	0	0	212284.7	98.9		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 1313	ICal Method	: EPHMOD
Lab File ID	: 1030_23	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.184443E+08	2000	0	0	209222.1	97.4		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 1326	ICal Method	: EPHMOD
Lab File ID	: 1030_24	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.200938E+09	3000	0	0	400312.7	93.9		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	20.97588	105	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 1421	ICal Method	: EPHMOD
Lab File ID	: 1030_28	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.155758E+09	3000	0	0	385252.7	90.3		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	20.90404	105	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC16	Analysis Date	: 10/30/14 1434	ICal Method	: EPHMOD
Lab File ID	: 1030_29	Quant Method	: LA16J23N	ICal Protocol	: EPHMOD

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		0		0	0	0			
C28-C40 Oil Range		4.268407E+08	2000	0	0	213420.4	99.5		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
O-TERPHENYL	20	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Raw Data

EPH SS Extractions Benchsheet

Batch #: WG751565

Analyst: MTJ647 **Prep Start Date/Time:** 10/29/14 18:27:30 **Prep End Date/Time:** 10/30/14 08:01:34

Na2SO4: 14I15522 Amt. Used: 1 Exp. Date:03/15/15 **MeCl2:** 14J23413 Amt. Used: 25 Exp. Date:04/23/15 **Silica Gel:** Exp. Date:

Surrogate: 14J28695 Amt. Used: 0.50 mL Exp. Date:11/22/14 **LCS/MS Spike:** 14J28699 Amt. Used: 0.50 mL Exp. Date:04/13/15

Sample Number	Qualifiers	Wet Weight Extracted(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		12.5	Sand	25	0.5	Colorless	
LCS		12.5	Sand	25	0.5	Colorless	
LCSD		12.5	Sand	25	0.5	Colorless	
MS(L729032-05)		12.5	Sand	25	0.5	Colorless	
MSD(L729032-05)		12.5	Sand	25	0.5	Colorless	
1. L729024-01		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4/DOD
2. L729024-02		12.5	Clay	25	0.5	Yellow	(K) EDD/QC4/DOD
3. L729030-01		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4/DOD
4. L729032-04		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4/DOD
5. L729032-05		12.5	Sand	25	0.5	Colorless	(K) EDD/QC4/DOD
6. L729032-06		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4/DOD
7. L729032-07		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4/DOD
8. L729802-01		12.5	Clay	25	0.5	Colorless	(K) EDD/QC4
9. L729802-03		12.5	Sludge	25	0.5	Colorless	(K) EDD/QC4
10. L729802-04		12.5	Sludge	25	0.5	Colorless	(K) EDD/QC4
11. L729802-05		12.5	Sludge	25	0.5	Colorless	(K) EDD/QC4

Comments:
*Dro spike used due to request**DOD Syringe #ESC25485 EXT*

Reviewed By:CLG543 on 10/30/14 08:01:33

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/30/2014 2:43:42 PM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1030_01	INSTBLK	LA16J23N						1	1	10/30/14 0844	" "
2	1030_02	LOC FL 14J160051	LA16J23N						1	1	10/30/14 0856	" "
3	1030_03	ICV DRO 3000 PPM 14J13881	LA16J23N						1	1	10/30/14 0909	" "
4	1030_04	ICV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/30/14 0921	" "
5	1030_05	MECL2	LA16J23N						1	1	10/30/14 0933	" "
6	1030_06	BLANK	LA16J23N	WG751565	DRORLA	SS			1	0.04	10/30/14 0945	"soil sur14J28695/ 14J28699"
7	1030_07	LCS	LA16J23N	WG751565	DRORLA	SS			1	0.04	10/30/14 0957	"soil sur14J28695/ 14J28699"
8	1030_08	LCSD	LA16J23N	WG751565	DRORLA	SS			1	0.04	10/30/14 1010	"soil sur14J28695/ 14J28699"
9	1030_09	L729024-01	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1022	"soil sur14J28695/ 14J28699"
10	1030_10	L729024-02	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1034	"soil sur14J28695/ 14J28699"
11	1030_11	L729030-01	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1046	"soil sur14J28695/ 14J28699"
12	1030_12	L729032-04	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1059	"soil sur14J28695/ 14J28699"
13	1030_13	L729032-05	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1111	"soil sur14J28695/ 14J28699"
14	1030_14	MS	LA16J23N	WG751565	DRORLA	SS			1	0.04	10/30/14 1123	"soil sur14J28695/ 14J28699"
15	1030_15	MSD	LA16J23N	WG751565	DRORLA	SS			1	0.04	10/30/14 1135	"soil sur14J28695/ 14J28699"
16	1030_16	L729032-06	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1148	"soil sur14J28695/ 14J28699"
17	1030_17	L729032-07	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1200	"soil sur14J28695/ 14J28699"
18	1030_18	L729802-01	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1212	"soil sur14J28695/ 14J28699"
19	1030_19	L729802-03	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1224	"soil sur14J28695/ 14J28699"
20	1030_20	L729802-04	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1237	"soil sur14J28695/ 14J28699"
21	1030_21	INSTBLK	LA16J23N						1	1	10/30/14 1249	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/30/2014 2:43:42 PM
Run ID : 103014
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1030_22	DNR CCV DRO 3000 PPM 14J13881	LA16J23N						1	1	10/30/14 1301	" "
23	1030_23	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/30/14 1313	" "
24	1030_24	CCV DRO 3000 PPM 14J29821	LA16J23N						1	1	10/30/14 1326	" "
25	1030_25	MECL2	LA16J23N						1	1	10/30/14 1342	" "
26	1030_26	L729802-05	LA16J23N	WG751565	DRORLA	SS	URSTAZ	NM	1	0.04	10/30/14 1355	"soil sur14J28695/ 14J28699"
27	1030_27	INSTBLK	LA16J23N						1	1	10/30/14 1409	" "
28	1030_28	CCV DRO 3000 PPM 14J28750	LA16J23N						1	1	10/30/14 1421	" "
29	1030_29	CCV RRO 2KM PPM 14J28750	LA16J23N						1	1	10/30/14 1434	" "

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 03.D Vial: 3
Acq On : 10-30-2014 09:09:07 AM Operator: 543
Sample : ICV DRO 3000 ppm 14J13881 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 09:26:26 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.33	11559399	23.8597993	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 119299.00%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1456293492	3418.9699705	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

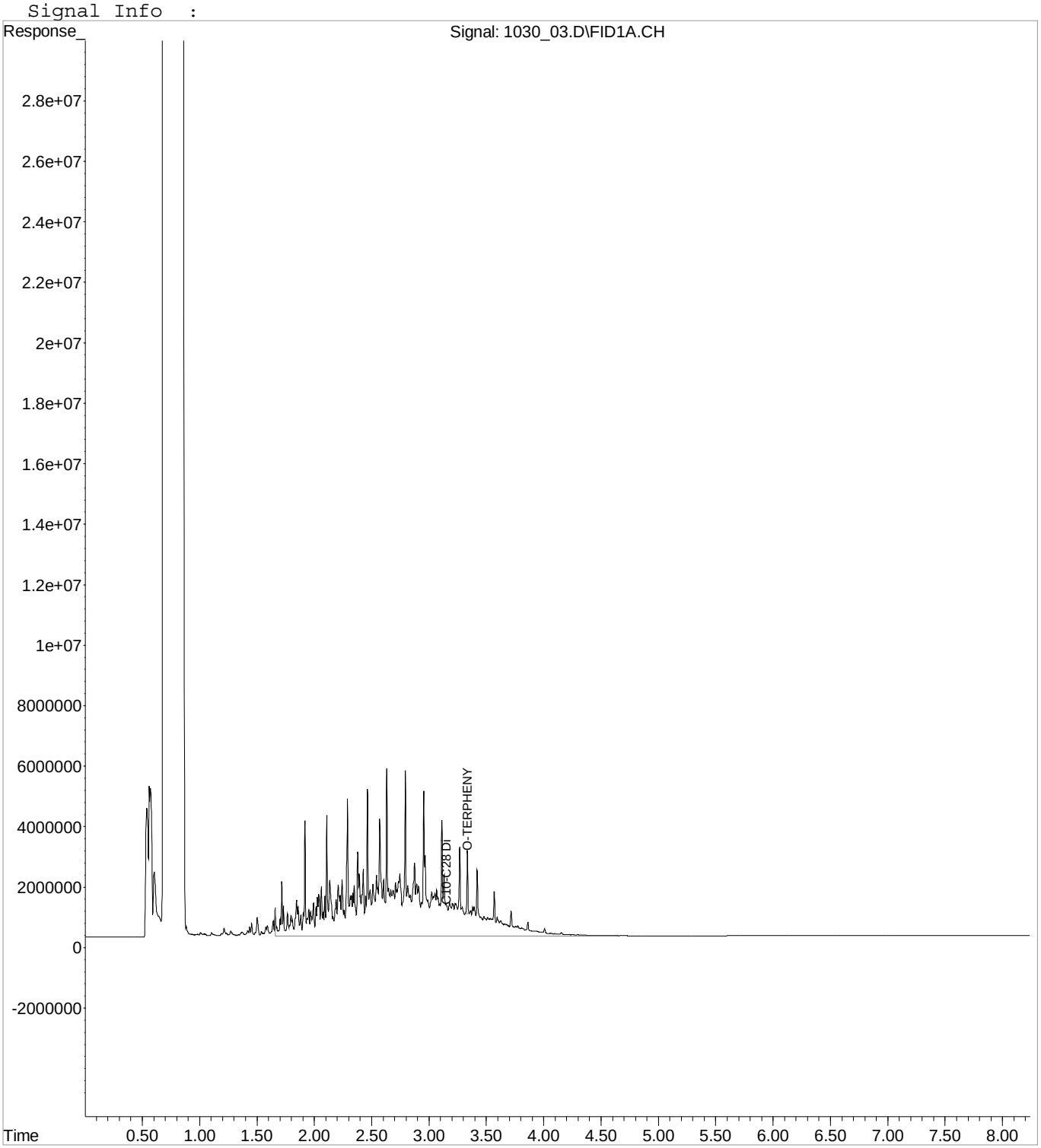
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 03.D Vial: 3
Acq On : 10-30-2014 09:09:07 AM Operator: 543
Sample : ICV DRO 3000 ppm 14J13881 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 9:26 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 04.D Vial: 4
Acq On : 10-30-2014 09:21:19 AM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 09:29:50 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	424569438	1978.7606700	ppm

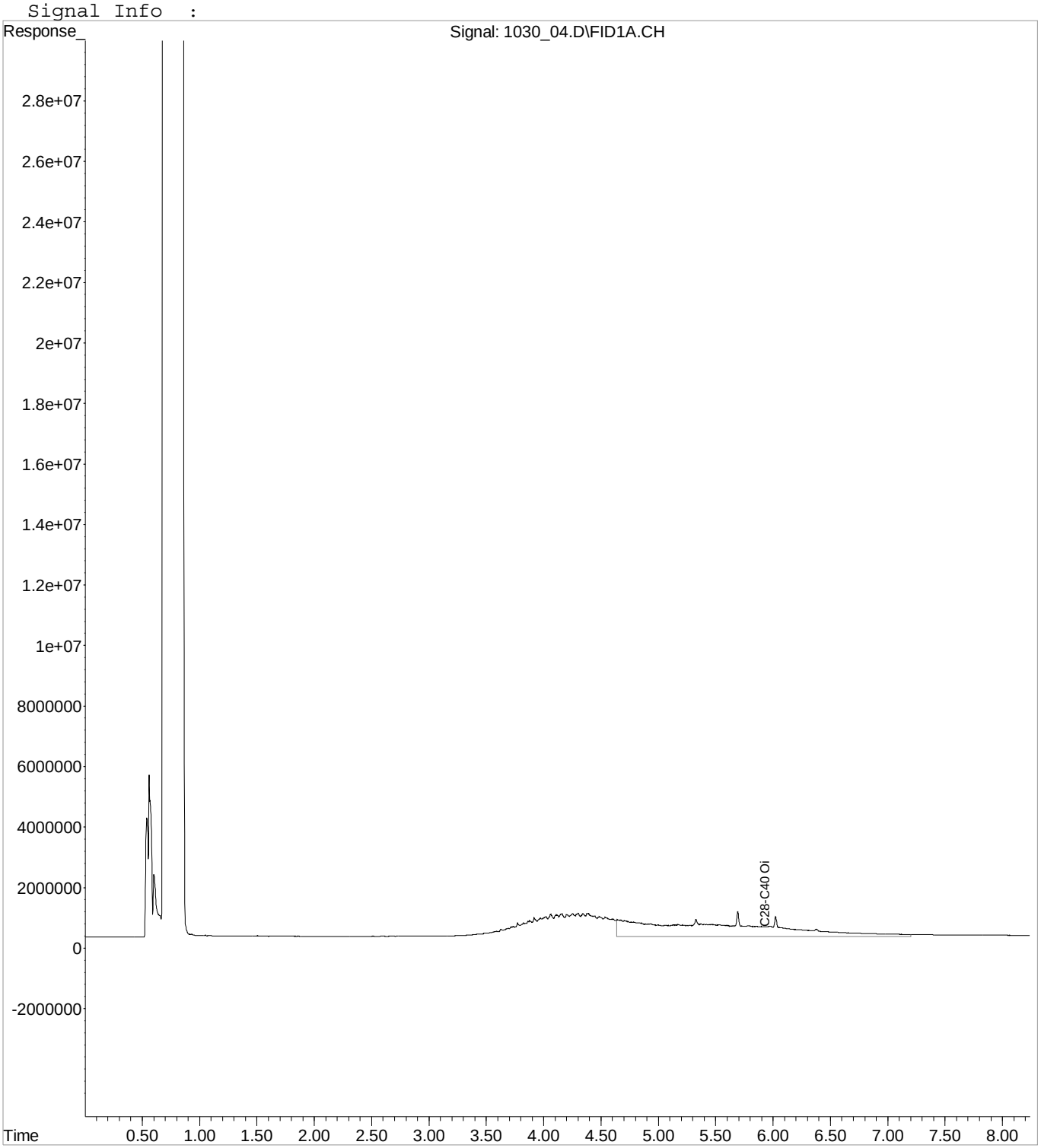
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 04.D Vial: 4
Acq On : 10-30-2014 09:21:19 AM Operator: 543
Sample : ICV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 9:30 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 06.D Vial: 6
Acq On : 10-30-2014 09:45:46 AM Operator: 543
Sample : BLANK 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:11:53 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	7892868	0.6516679	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 81.46%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	6435605	N.D.	ppm	
2) h,m C28-C40 Oil Range	5.93	26070695	N.D.	ppm	

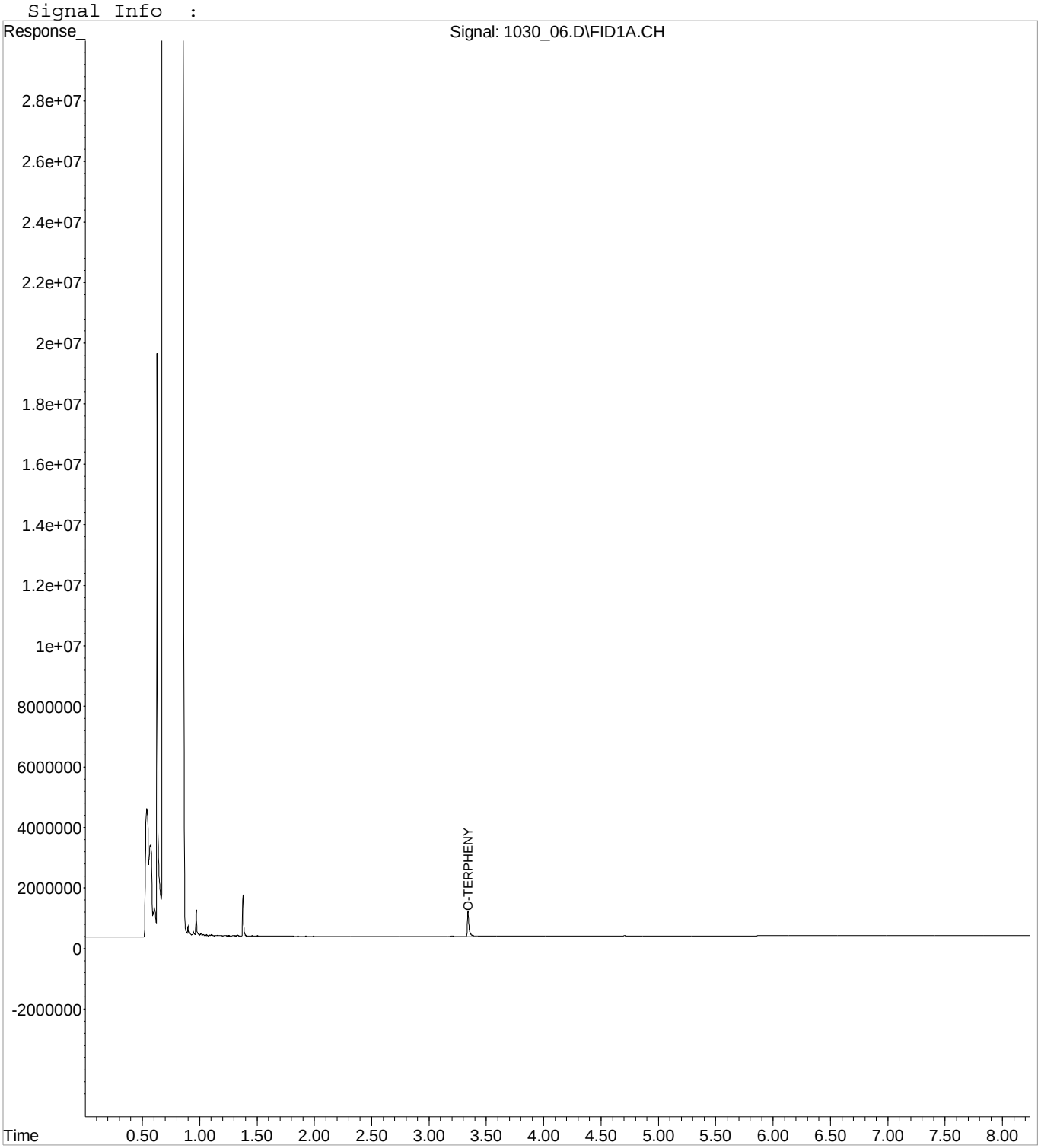
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 06.D Vial: 6
Acq On : 10-30-2014 09:45:46 AM Operator: 543
Sample : BLANK 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:12 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 07.D Vial: 7
Acq On : 10-30-2014 09:57:55 AM Operator: 543
Sample : LCS 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:12:22 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

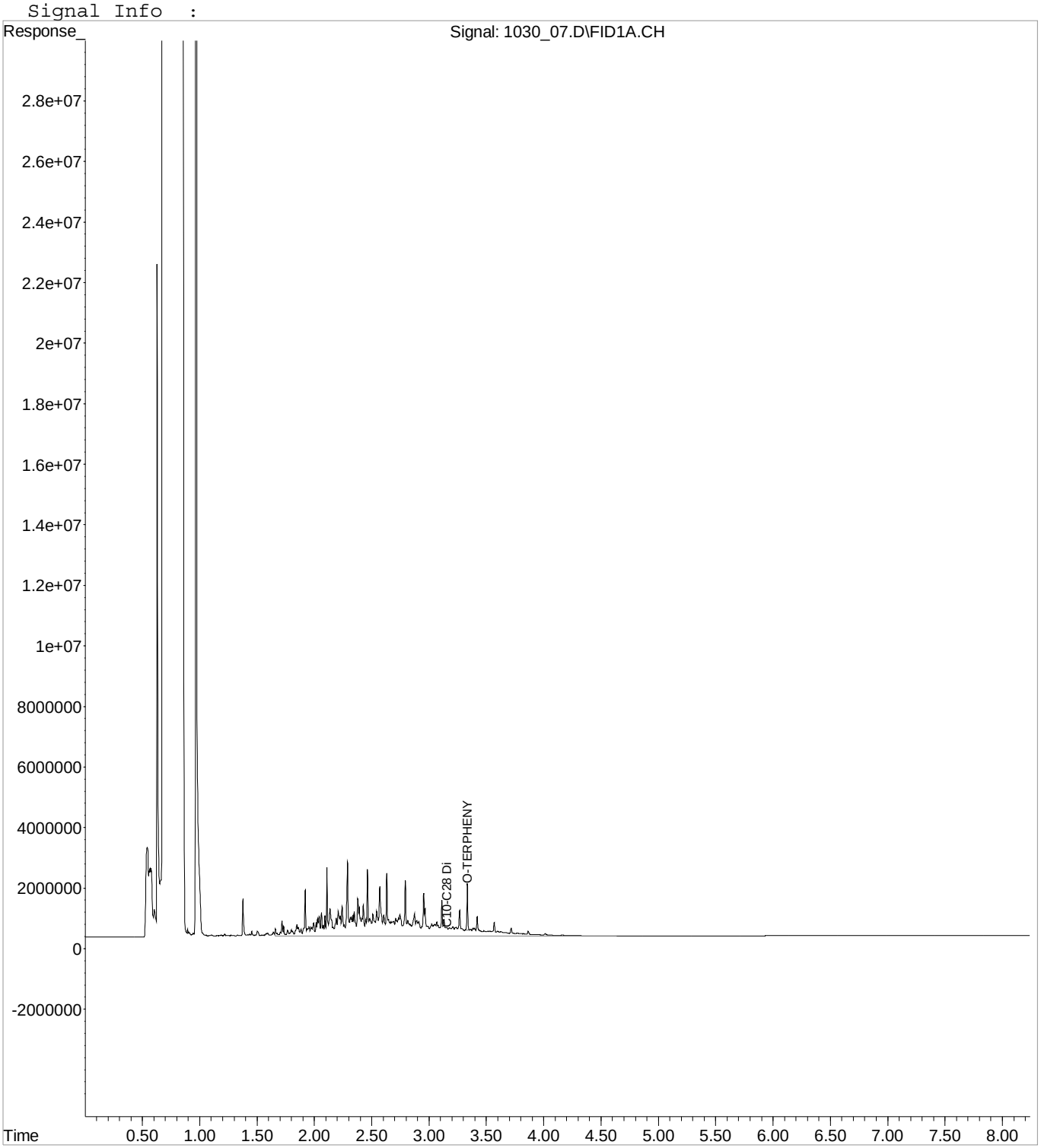
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.33	8562630	0.7069663	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 88.37%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	528234333	49.1309585	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 07.D Vial: 7
Acq On : 10-30-2014 09:57:55 AM Operator: 543
Sample : LCS 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 08.D Vial: 8
Acq On : 30 Oct 2014 10:10 am Operator: 543
Sample : LCSD 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:23:50 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

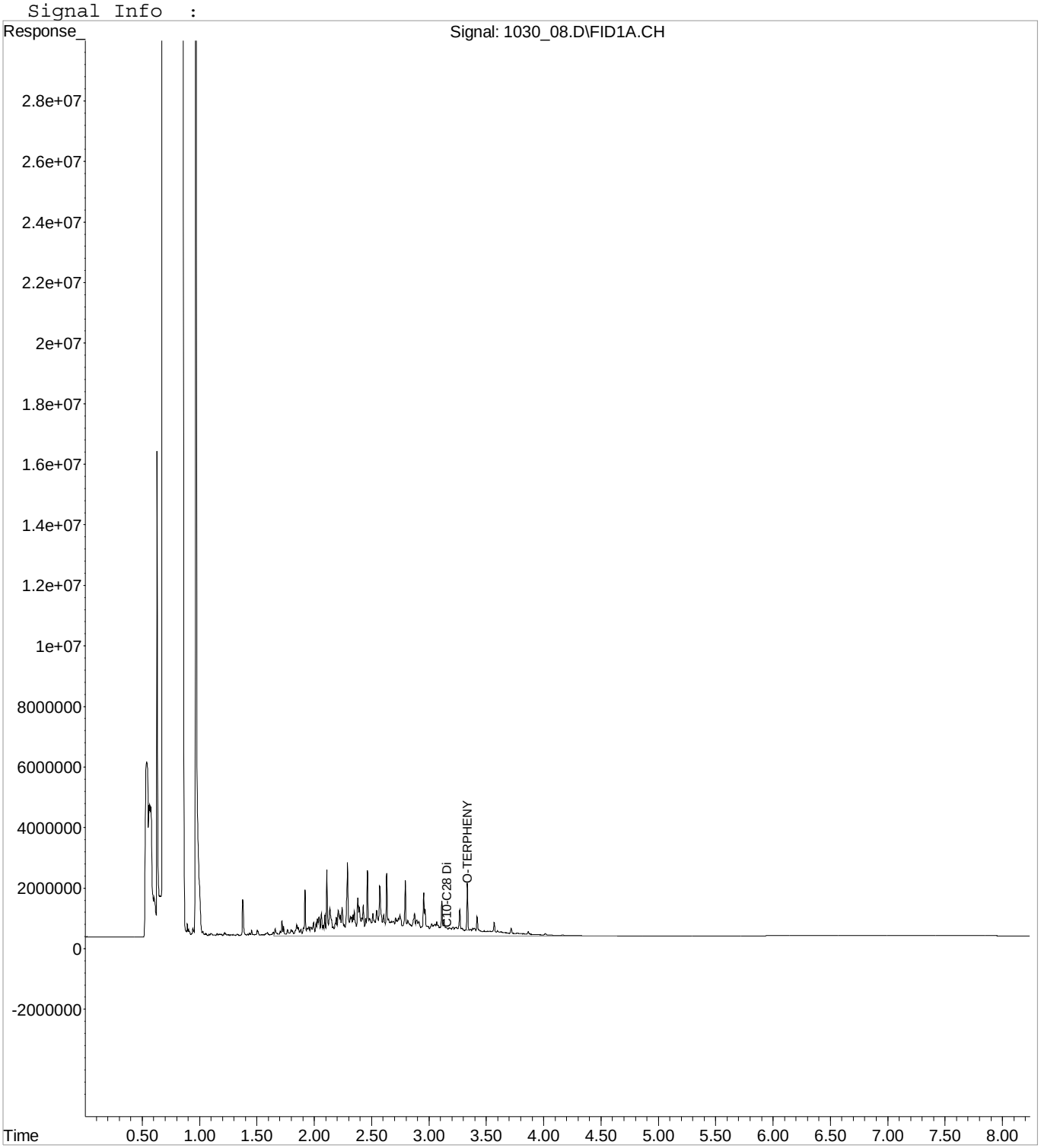
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.33	8377220	0.6916581	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 86.46%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	531876264	49.4748316	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 08.D Vial: 8
Acq On : 30 Oct 2014 10:10 am Operator: 543
Sample : LCSD 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 10:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 14.D Vial: 14
Acq On : 30 Oct 2014 11:23 am Operator: 543
Sample : MS 1x WG751565 L729032-05 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 11:46:06 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

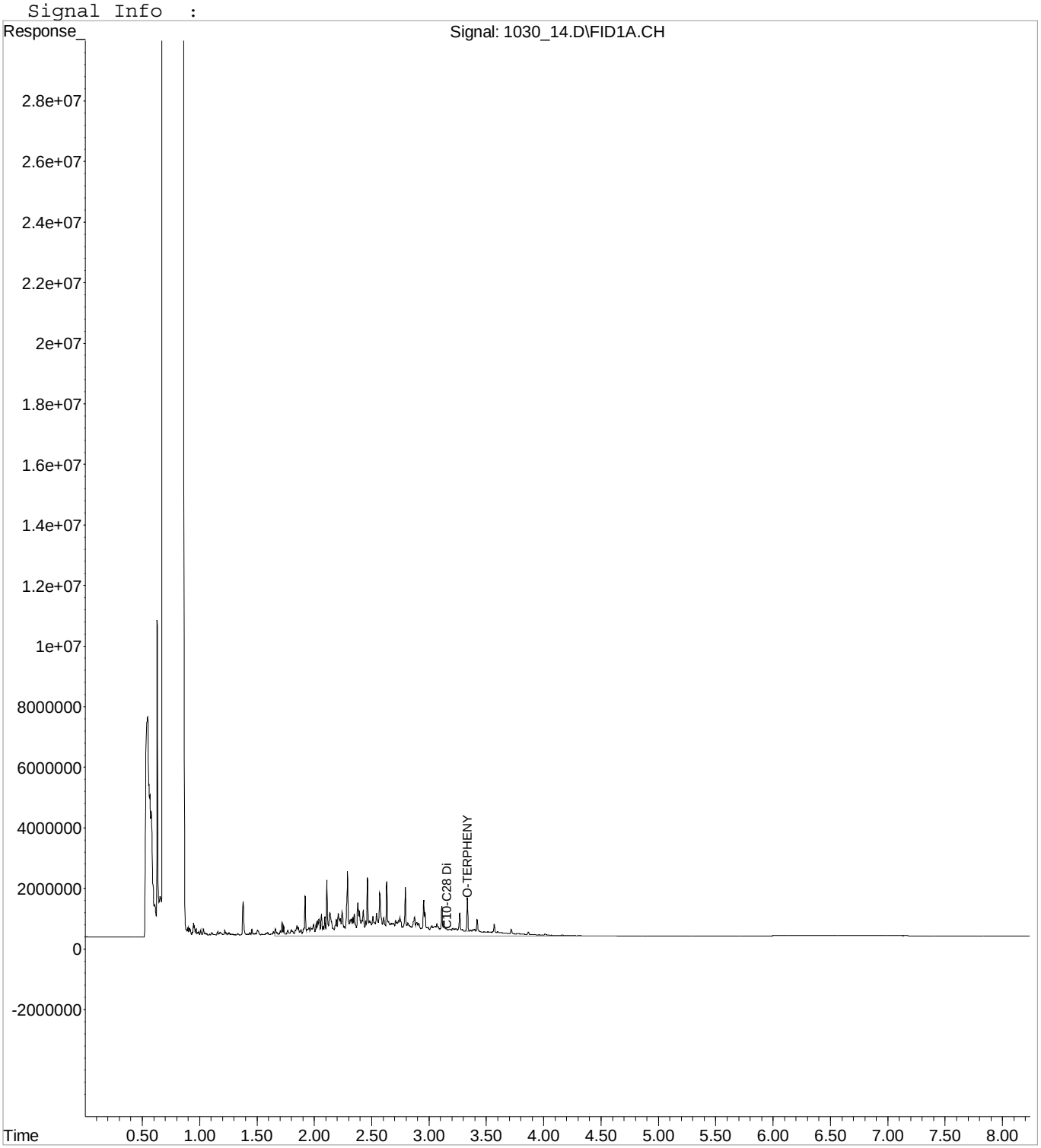
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.33	6086495	0.5025263	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 62.82%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	466573613	43.3089205	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 14.D Vial: 14
Acq On : 30 Oct 2014 11:23 am Operator: 543
Sample : MS 1x WG751565 L729032-05 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 11:46 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 15.D Vial: 15
Acq On : 30 Oct 2014 11:35 am Operator: 543
Sample : MSD 1x WG751565 L729032-05 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 11:46:23 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

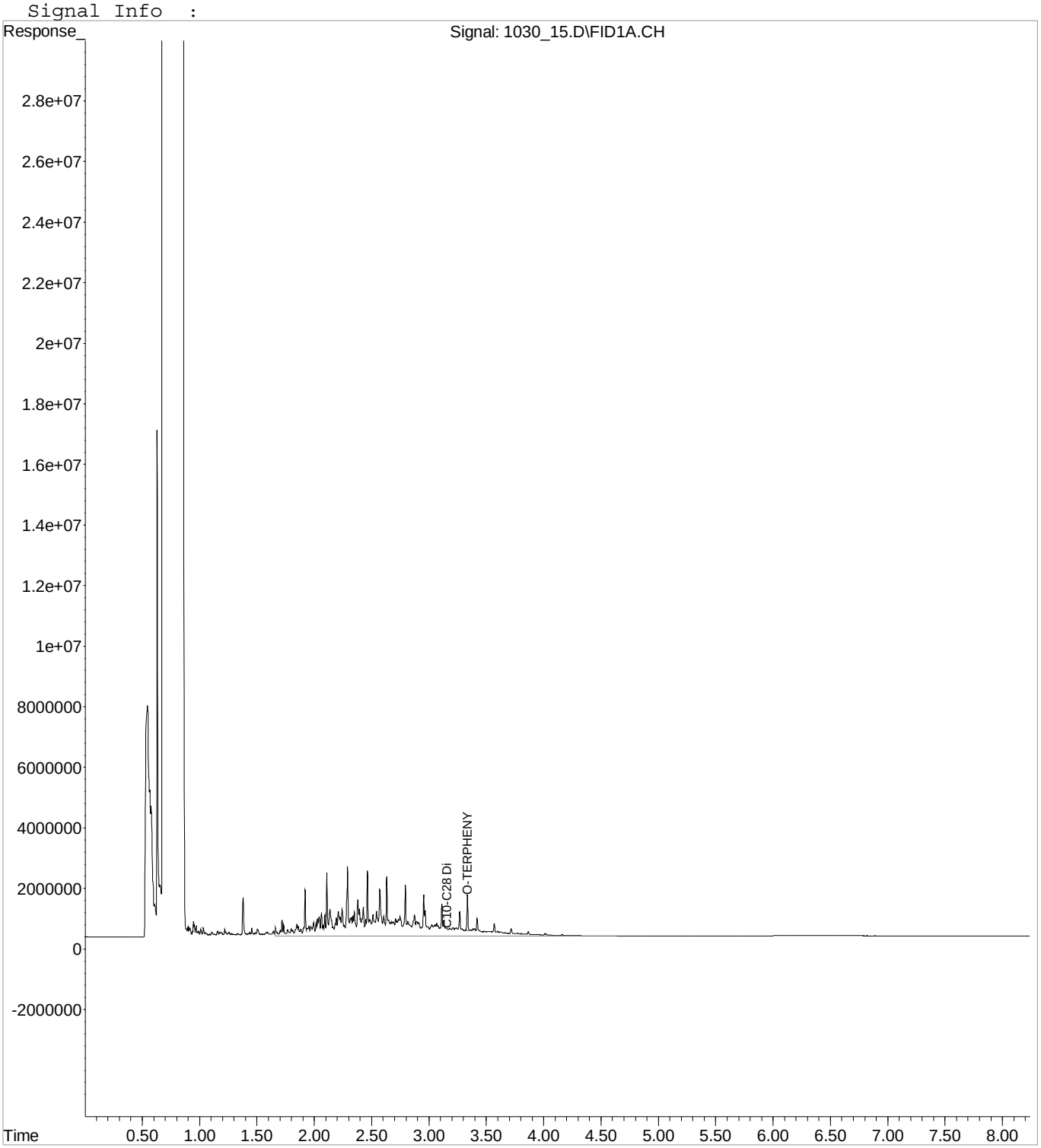
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.33	6600716	0.5449825	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 68.12%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	507980040	47.2185374	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 15.D Vial: 15
Acq On : 30 Oct 2014 11:35 am Operator: 543
Sample : MSD 1x WG751565 L729032-05 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 11:46 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 18.D Vial: 18
Acq On : 30 Oct 2014 12:12 pm Operator: 543
Sample : L729802-01 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 12:22:15 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

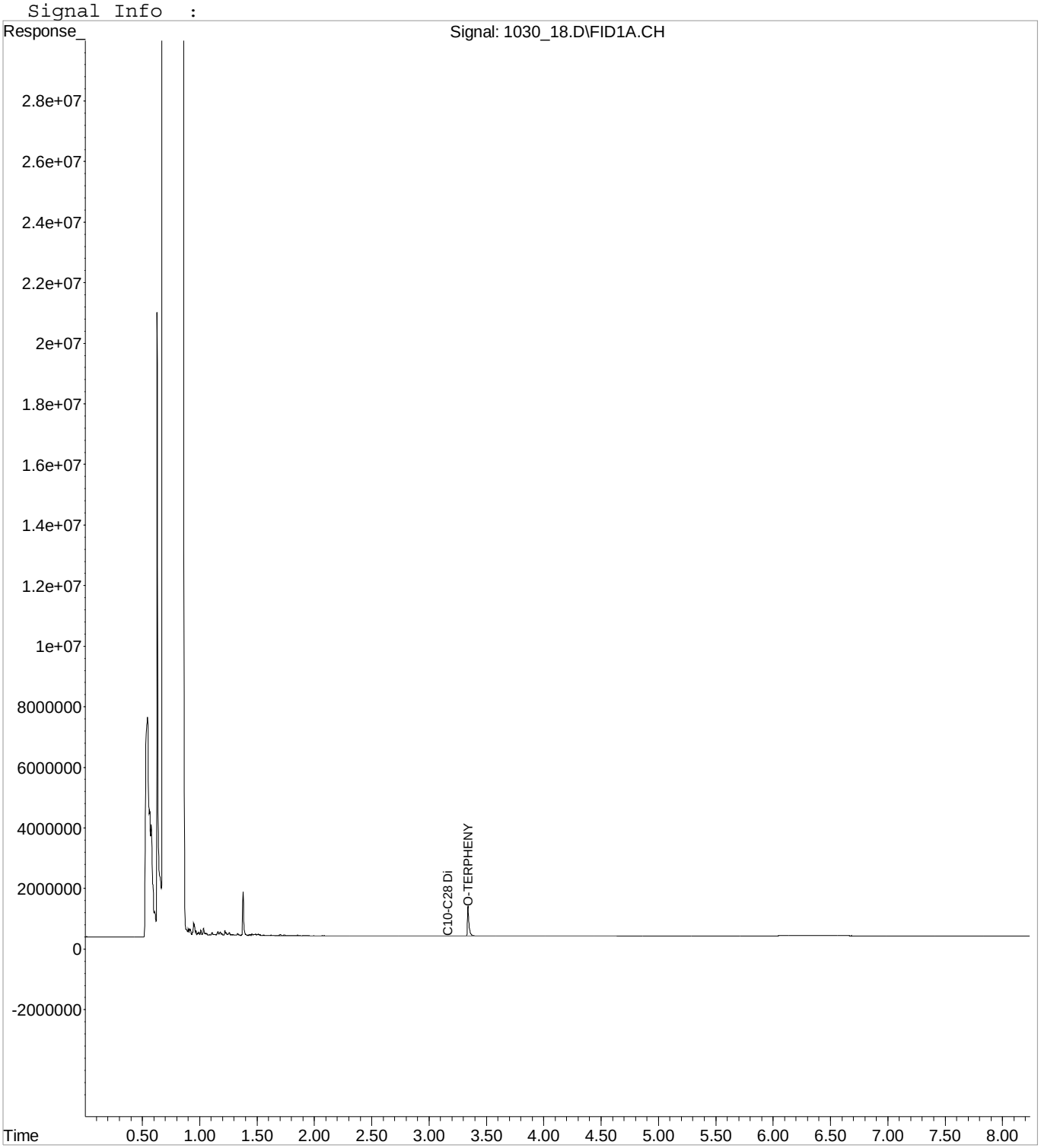
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	9027534	0.7453507	ppm	m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 93.17%					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	9526449	0.1542836	ppm	
2) h,m C28-C40 Oil Range	5.93	15486071	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 18.D Vial: 18
Acq On : 30 Oct 2014 12:12 pm Operator: 543
Sample : L729802-01 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 12:22 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 19.D Vial: 19
Acq On : 30 Oct 2014 12:24 pm Operator: 543
Sample : L729802-03 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 13:09:31 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	7136864	0.5892492 ppm
Spiked Amount 0.8000 Range 50 - 150 Recovery = 73.66%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	9738083	0.1742663 ppm
2) h,m C28-C40 Oil Range	5.93	15201952	N.D. ppm

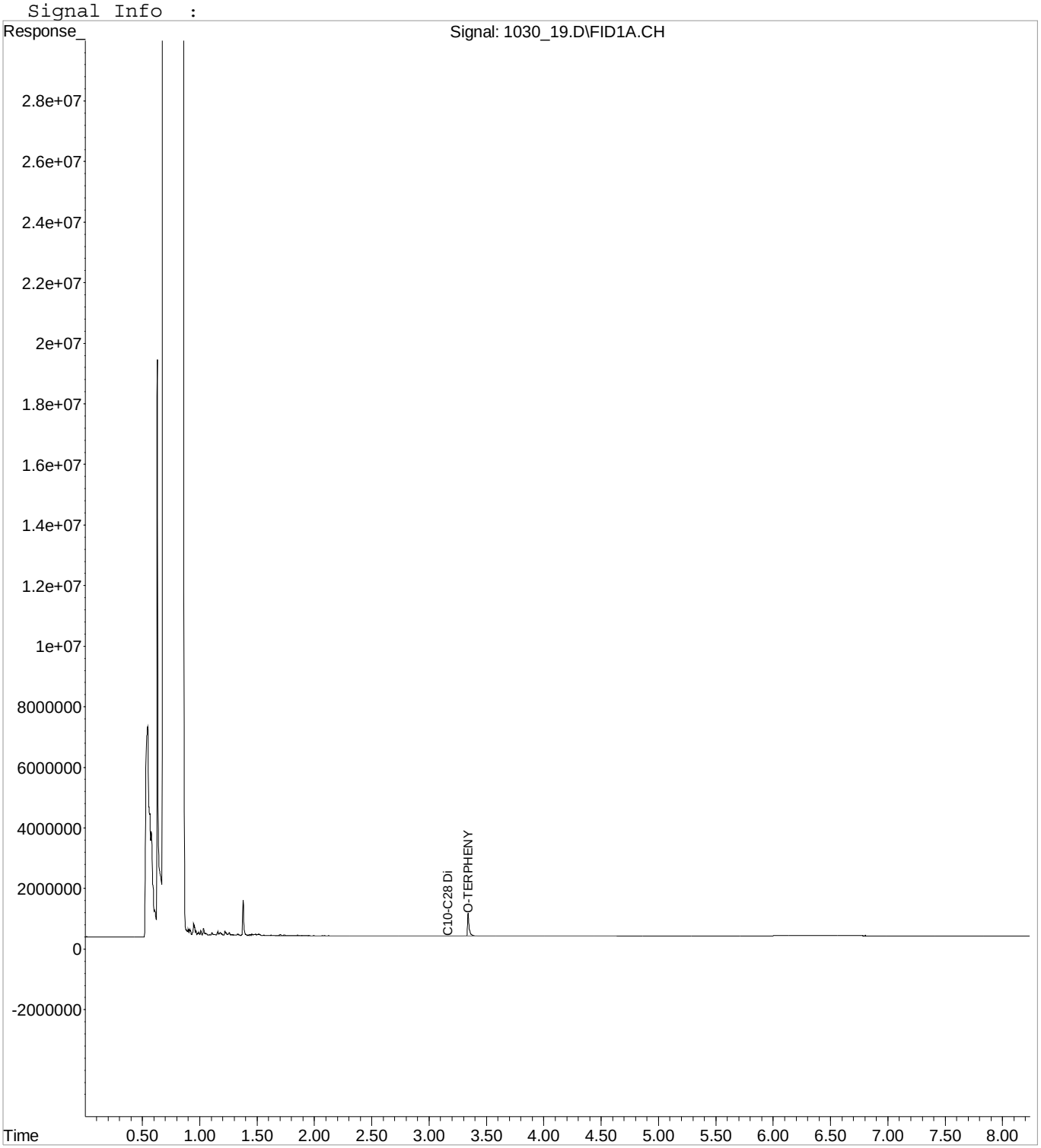
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 19.D Vial: 19
Acq On : 30 Oct 2014 12:24 pm Operator: 543
Sample : L729802-03 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 13:09 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 20.D Vial: 20
Acq On : 30 Oct 2014 12:37 pm Operator: 543
Sample : L729802-04 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 13:10:05 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	7686464	0.6346264 ppm
Spiked Amount 0.8000 Range 50 - 150 Recovery = 79.33%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	10306216	0.2279097 ppm
2) h,m C28-C40 Oil Range	5.93	14314893	N.D. ppm

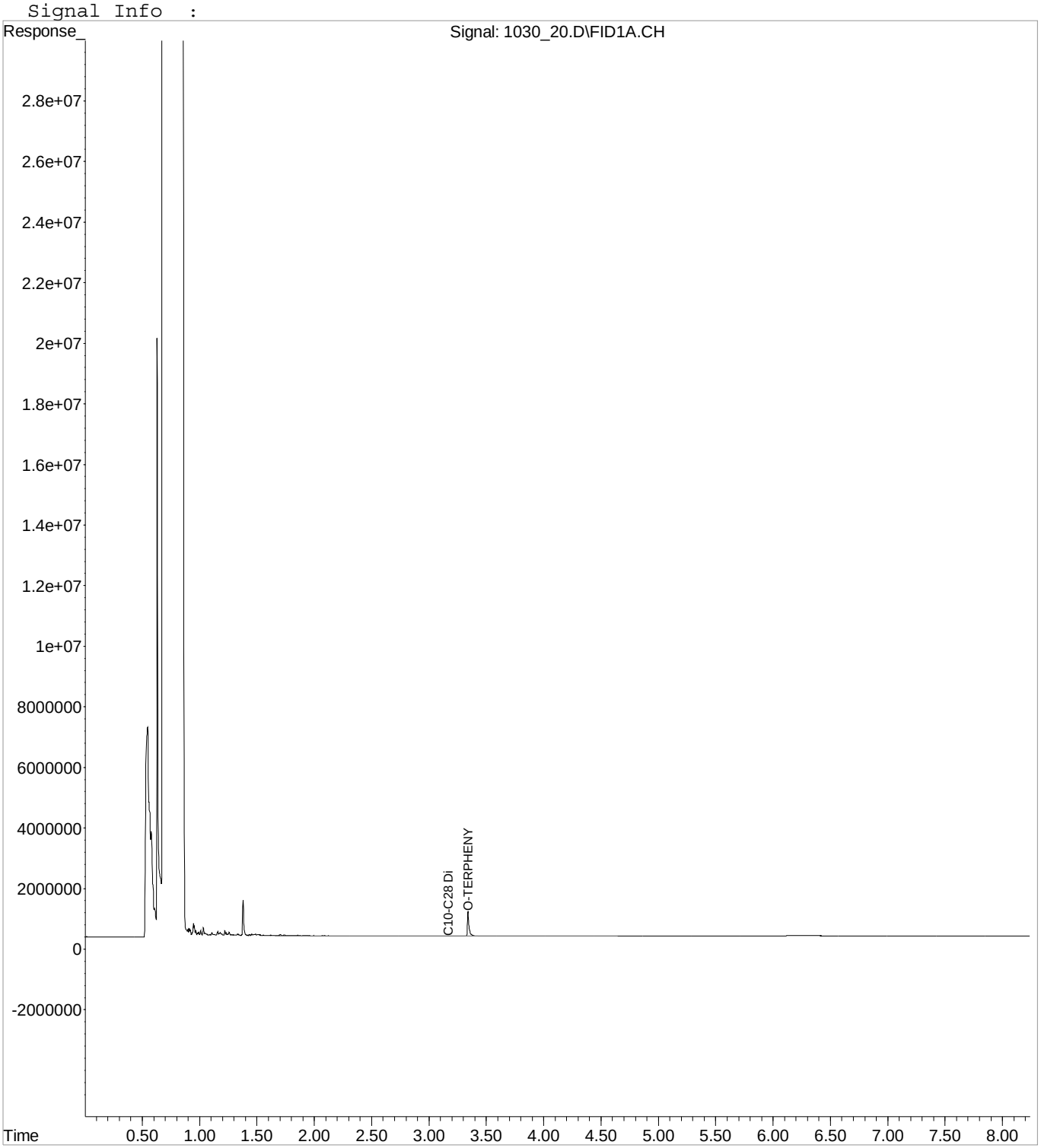
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 20.D Vial: 20
Acq On : 30 Oct 2014 12:37 pm Operator: 543
Sample : L729802-04 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 13:10 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 23.D Vial: 4
Acq On : 10-30-2014 01:13:59 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 13:26:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	418444311	1948.2471248	ppm

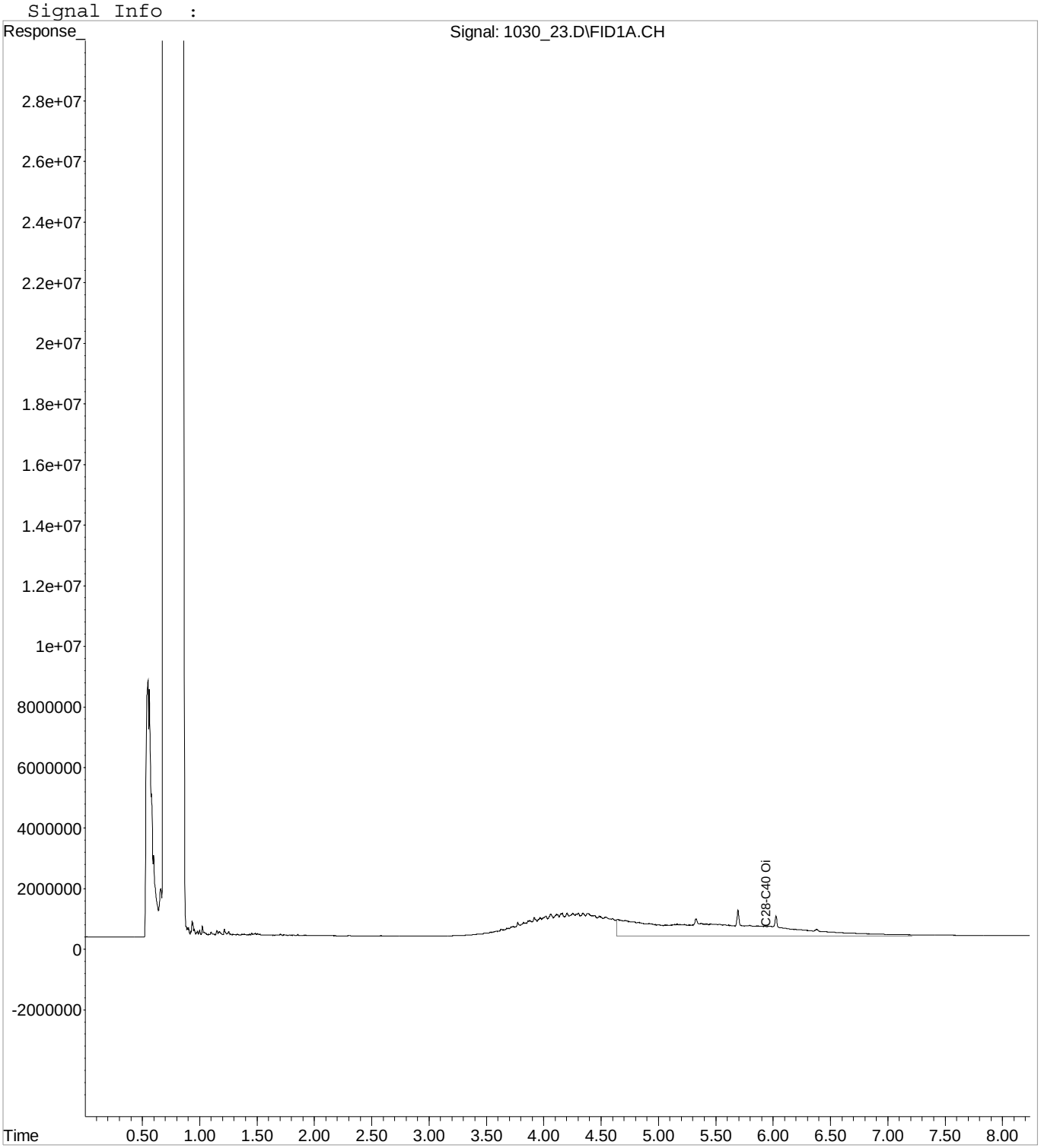
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 23.D Vial: 4
Acq On : 10-30-2014 01:13:59 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 13:26 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 24.D Vial: 99
Acq On : 10-30-2014 01:26:14 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J29821 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 13:36:51 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	10162221	20.9758798	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 104879.40%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1200938056	2816.2000619	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

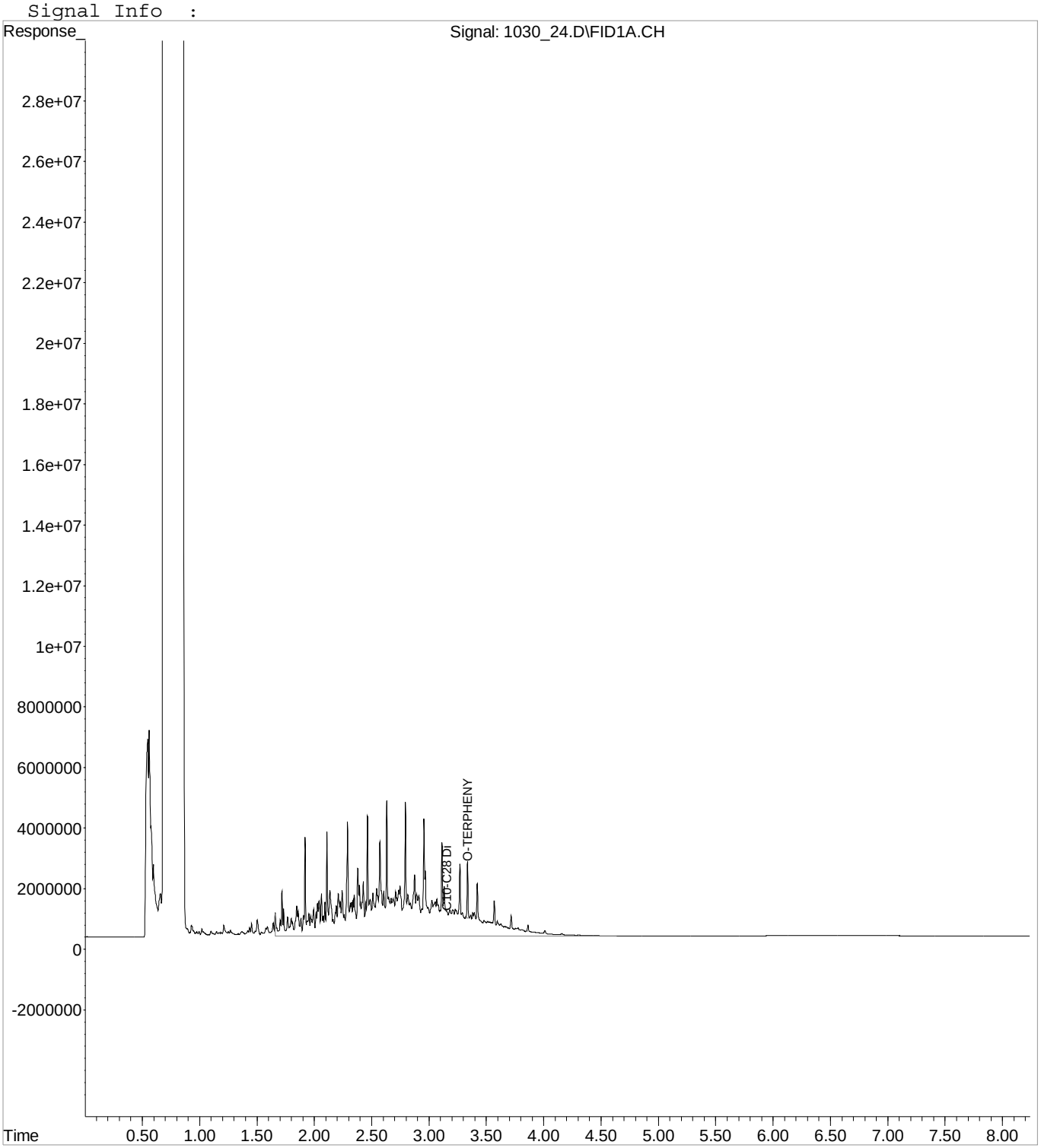
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 24.D Vial: 99
Acq On : 10-30-2014 01:26:14 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J29821 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 13:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 26.D Vial: 21
Acq On : 10-30-2014 01:55:16 PM Operator: 543
Sample : L729802-05 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 14:07:03 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S O-TERPHENYL	3.34	7899497	0.6522153 ppm m
Spiked Amount 0.8000 Range 50 - 150 Recovery = 81.53%			
Target Compounds			
1) h,m C10-C28 Diesel Range	3.16	12295664	0.4157544 ppm
2) h,m C28-C40 Oil Range	5.93	14485258	N.D. ppm

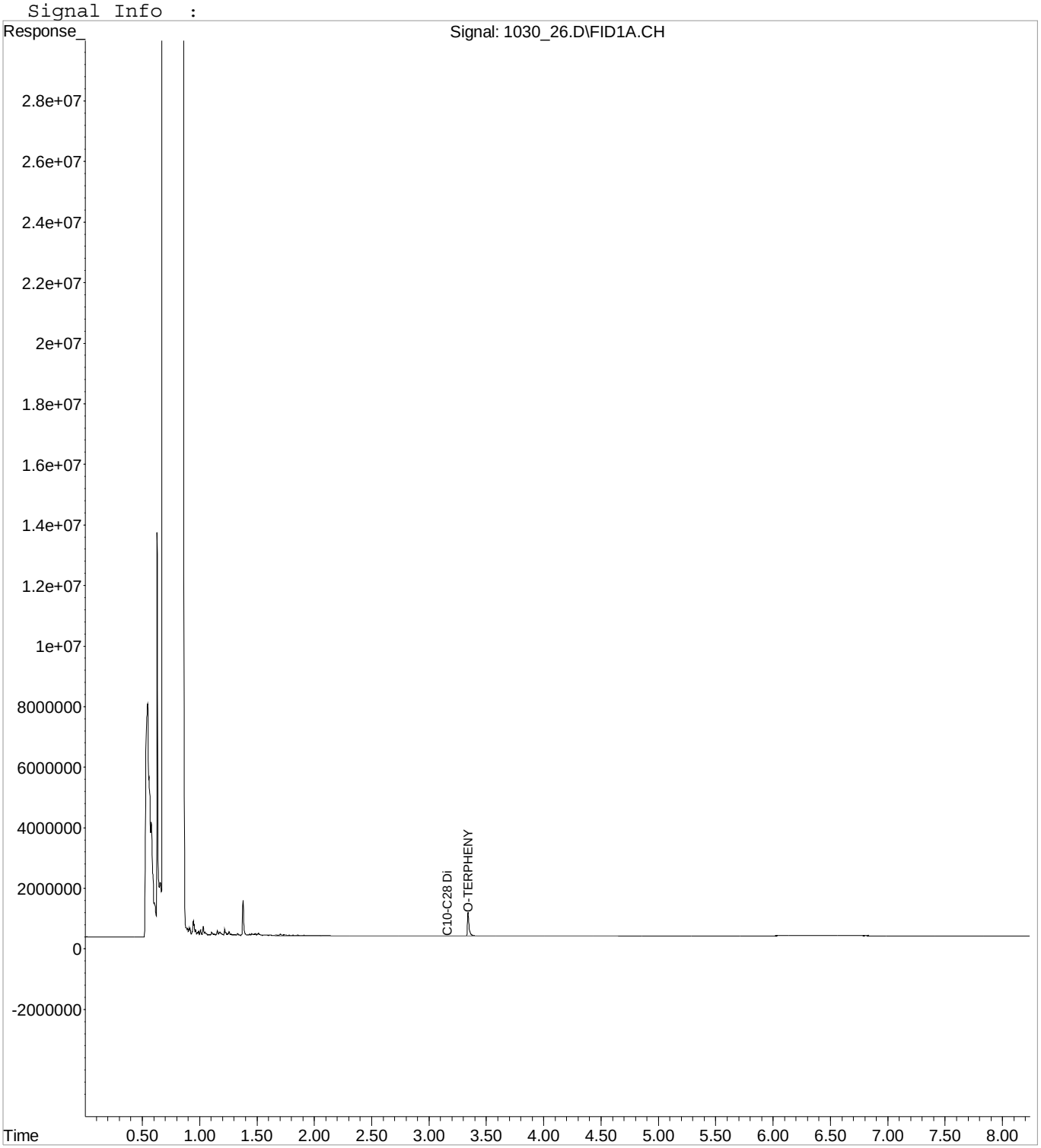
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 26.D Vial: 21
Acq On : 10-30-2014 01:55:16 PM Operator: 543
Sample : L729802-05 1x WG751565 12.5-0.5 Inst : SVGC16
Misc : soil sur14J28695/ 14J28699 Multiplr: 0.04
IntFile : events.e
Quant Time: Oct 30 14:07 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 28.D Vial: 99
Acq On : 10-30-2014 02:21:46 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 14:32:00 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S O-TERPHENYL	3.34	10127415	20.9040357	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 104520.18%#					
Target Compounds					
1) h,m C10-C28 Diesel Range	3.16	1155757941	2709.5518007	ppm	
2) h,m C28-C40 Oil Range	0.00	0	N.D.	ppm	

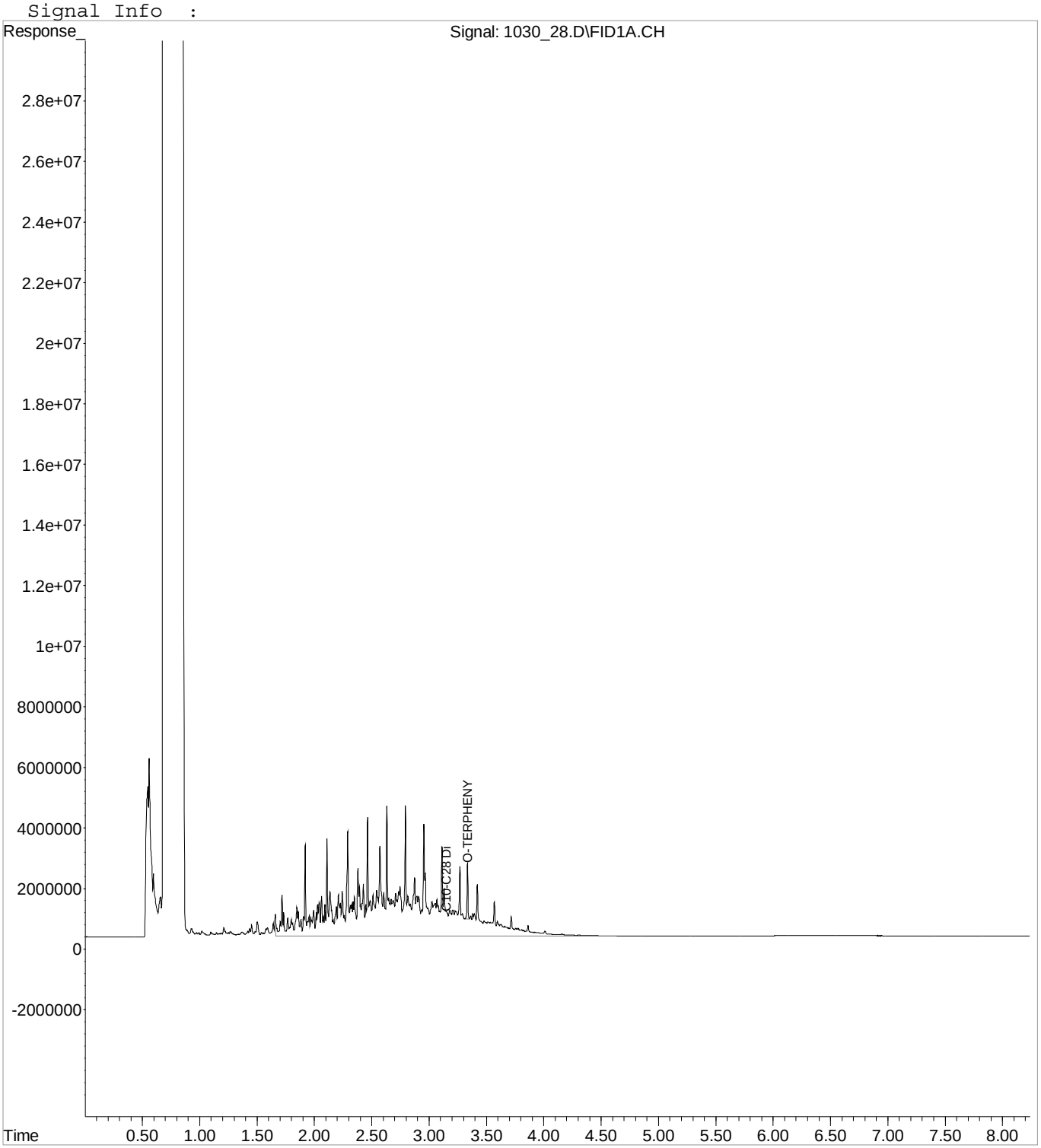
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 28.D Vial: 99
Acq On : 10-30-2014 02:21:46 PM Operator: 543
Sample : CCV DRO 3000 ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 14:32 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 29.D Vial: 4
Acq On : 10-30-2014 02:34:07 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 14:42:35 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	426840747	1990.0756510	ppm

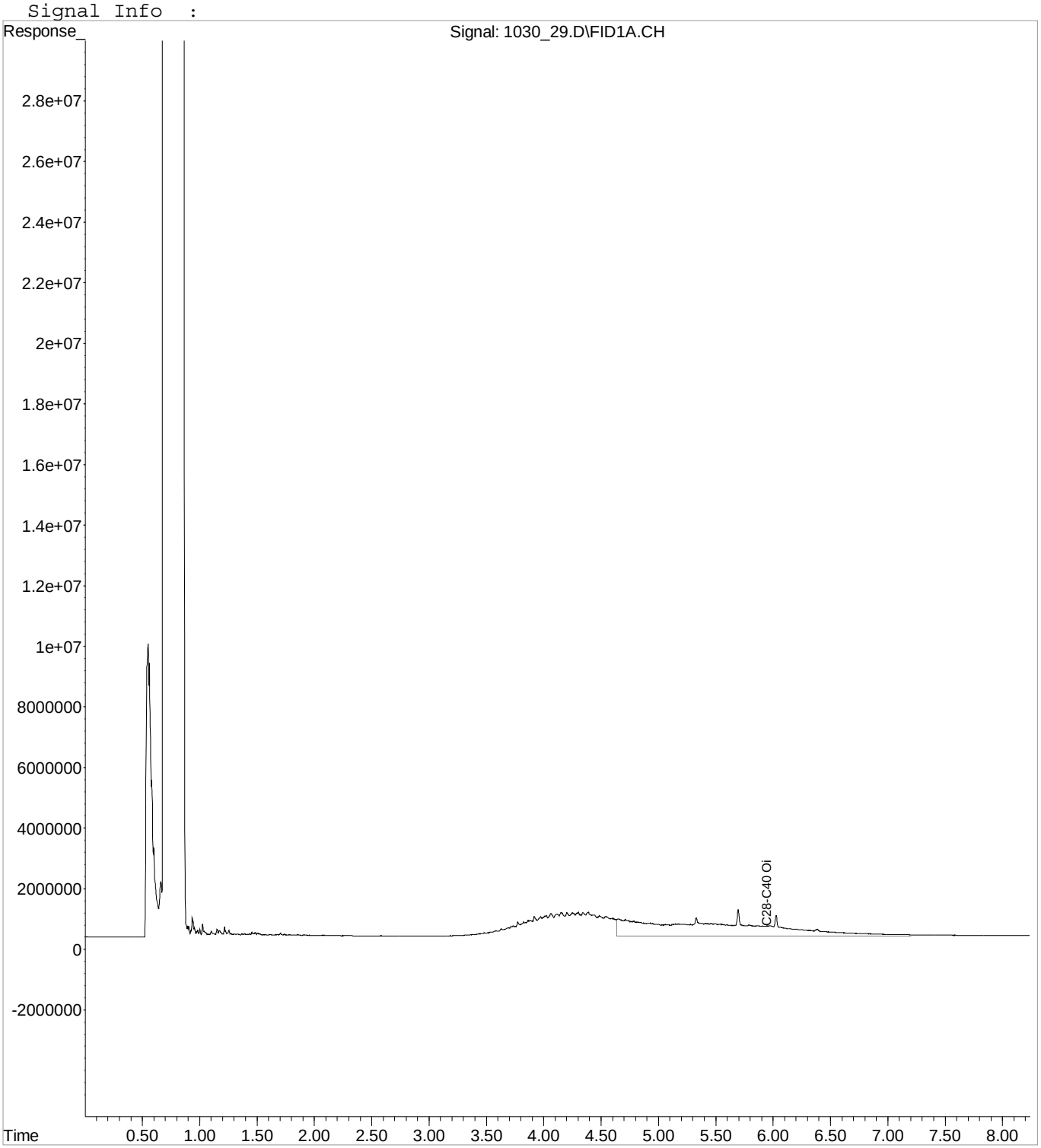
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103014\1030 29.D Vial: 4
Acq On : 10-30-2014 02:34:07 PM Operator: 543
Sample : CCV RRO 2KM ppm 14J28750 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 30 14:42 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Calibration

Instrument: SVGC16
Method: LA16J23N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0730B_03.D	100	7/30/2014 9:53:00 PM
0730B_04.D	200	7/30/2014 10:05:00 PM
0730B_05.D	500	7/30/2014 10:17:00 PM
0730B_06.D	1000	7/30/2014 10:30:00 PM
0730B_07.D	2000	7/30/2014 10:42:00 PM
0730B_08.D	3000	7/30/2014 10:54:00 PM
0730B_09.D	5000	7/30/2014 11:06:00 PM
0730B_10.D	10000	7/30/2014 11:18:00 PM
1023A_03.D	50M	10/23/2014 3:44:00 PM
1023A_04.D	100M	10/23/2014 4:19:00 PM
1023A_05.D	200M	10/23/2014 4:31:00 PM
1023A_06.D	500M	10/23/2014 4:43:00 PM
1023A_07.D	1KM	10/23/2014 4:55:00 PM
1023A_08.D	2KM	10/23/2014 5:08:00 PM
1023A_09.D	2.5000	10/23/2014 5:20:00 PM
1023A_10.D	5KM	10/23/2014 5:32:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/28/2014 2:39:11 PM
Run ID : 102314A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0730B_02	LOC FL 14E23224	DE16G30N						1	1	07/30/14 2141	" "
2	0730B_03	STD DRO 100 PPM 14G01431	LA16J23N						1	1	07/30/14 2153	" "
3	0730B_04	STD DRO 200 PPM 14G01431	LA16J23N						1	1	07/30/14 2205	" "
4	0730B_05	STD DRO 500 PPM 14G01431	LA16J23N						1	1	07/30/14 2217	" "
5	0730B_06	STD DRO 1000 PPM 14G01431	LA16J23N						1	1	07/30/14 2230	" "
6	0730B_07	STD DRO 2000 PPM 14G01431	LA16J23N						1	1	07/30/14 2242	" "
7	0730B_08	STD DRO 3000 PPM 14G01431	LA16J23N						1	1	07/30/14 2254	" "
8	0730B_09	STD DRO 5000 PPM 14G01431	LA16J23N						1	1	07/30/14 2306	" "
9	0730B_10	STD DRO 10K PPM 14G01431	LA16J23N						1	1	07/30/14 2318	" "
10	0730B_11	SSCV DRO 1500 PPM 14G17272	LA16J23N						1	1	07/30/14 2331	" "
11	1023A_01	INSTBLK	LA16J23N						1	1	10/23/14 1519	" "
12	1023A_02	LOC FL 14J160051	LA16J23N						1	1	10/23/14 1531	" "
13	1023A_03	STD 10W30 50M PPM 14J23427	LA16J23N						1	1	10/23/14 1544	" "
14	1023A_04	STD 10W30 100M PPM 14J23427	LA16J23N						1	1	10/23/14 1619	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC16
Computer Name : SVCOMPV
Released By : Casey Gwaltney
Date Released : 10/28/2014 2:39:11 PM
Run ID : 102314A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1023A_05	STD 10W30 200M PPM 14J23427	LA16J23N						1	1	10/23/14 1631	" "
16	1023A_06	STD 10W30 500M PPM 14J23427	LA16J23N						1	1	10/23/14 1643	" "
17	1023A_07	STD 10W30 1KM PPM 14J23427	LA16J23N						1	1	10/23/14 1655	" "
18	1023A_08	STD 10W30 2KM PPM 14J23427	LA16J23N						1	1	10/23/14 1708	" "
19	1023A_09	STD 10W30 2.5K PPM 14J23427	LA16J23N						1	1	10/23/14 1720	" "
20	1023A_10	STD 10W30 5KMPPM 14J23427	LA16J23N						1	1	10/23/14 1732	" "
21	1023A_11	SSCV 10W30 1500 PPM 14J23434	LA16J23N						1	1	10/23/14 1744	" "

Mint Miner (UNREGISTERED DEMO) Directory Scan: y:\102314A

28 Oct 2014 16:08

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102314A\0730B_02.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_02.D\FID1A.CH					
0	Scanned		543	SVGC16	LOC FL 14E23224
Scan File Path: y:\102314A\0730B_03.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_03.D\FID1A.CH					
13	Scanned	M(7), D(1), MR(1)	543	SVGC16	STD DRO 100 ppm 14G01431
Scan File Path: y:\102314A\0730B_04.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_04.D\FID1A.CH					
13	Scanned	M(7), D(1), MR(1)	543	SVGC16	STD DRO 200 ppm 14G01431
Scan File Path: y:\102314A\0730B_05.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_05.D\FID1A.CH					
23	Scanned	MR(3), M(7), D(1)	543	SVGC16	STD DRO 500 ppm 14G01431
Scan File Path: y:\102314A\0730B_06.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_06.D\FID1A.CH					
41	Scanned	MR(6), M(9), MQ(1), D(1)	543	SVGC16	STD DRO 1000 ppm 14G01431
Scan File Path: y:\102314A\0730B_07.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_07.D\FID1A.CH					
39	Scanned	MR(6), M(7), MQ(1), D(1)	543	SVGC16	STD DRO 2000 ppm 14G01431
Scan File Path: y:\102314A\0730B_08.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_08.D\FID1A.CH					
39	Scanned	MR(6), M(6), MQ(1), D(2)	543	SVGC16	STD DRO 3000 ppm 14G01431
Scan File Path: y:\102314A\0730B_09.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_09.D\FID1A.CH					
39	Scanned	D(2), MR(6), MQ(1), M(6)	543	SVGC16	STD DRO 5000 ppm 14G01431
Scan File Path: y:\102314A\0730B_10.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_10.D\FID1A.CH					
39	Scanned	D(2), MR(6), MQ(1), M(6)	543	SVGC16	STD DRO 10K ppm 14G01431
Scan File Path: y:\102314A\0730B_11.D					
Original Path: C:\MSDCHEM\1\DATA\073014A\0730A_11.D\FID1A.CH					
42	Scanned	MR(6), M(7), D(3), MQ(2)	543	SVGC16	SSCV DRO 1500 ppm 14G17272
Scan File Path: y:\102314A\1023A_01.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_01.D\FID1A.CH					
0	Scanned		543	SVGC16	INSTBLK

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102314A\1023A_02.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_02.D\FID1A.CH					
0	Scanned		543	SVGC16	LOC FL 14J160051
Scan File Path: y:\102314A\1023A_03.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_03.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 50 ppm 14J23427
Scan File Path: y:\102314A\1023A_04.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_04.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 100 ppm 14J23427
Scan File Path: y:\102314A\1023A_05.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_05.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 200 ppm 14J23427
Scan File Path: y:\102314A\1023A_06.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_06.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 500 ppm 14J23427
Scan File Path: y:\102314A\1023A_07.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_07.D\FID1A.CH					
33	Scanned	D(4), M(4), MR(2), MT(2), MM(1)	543	SVGC16	STD 10W30 1000 ppm 14J23427
Scan File Path: y:\102314A\1023A_08.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_08.D\FID1A.CH					
11	Scanned	D(4), M(2), MT(1)	543	SVGC16	STD 10W30 2000 ppm 14J23427
Scan File Path: y:\102314A\1023A_09.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_09.D\FID1A.CH					
27	Scanned	D(4), MR(2), M(3), MT(2)	543	SVGC16	STD 10W30 2500 ppm 14J23427
Scan File Path: y:\102314A\1023A_10.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_10.D\FID1A.CH					
38	Scanned	D(4), MR(3), M(4), MT(2), MM(1)	543	SVGC16	STD 10W30 5000 ppm 14J23427
Scan File Path: y:\102314A\1023A_11.D					
Original Path: C:\MSDCHEM\1\DATA\102314A\1023A_11.D\FID1A.CH					
50	Scanned	D(7), M(7), MT(3), QM(1), MM(1), MR(2), MQ(4)	543	SVGC16	SSCV 10W30 1500 ppm 14J23434

D = Deletion of any analyte
MM = More than 3 manual integrations of the same analyte
MR = Manual integration with before/after ratio <10%
QM = Processed >3 times using the same method
M = Manual integration (non-specific)
MQ = Manual integration and deletion of the same analyte
MT = Multiple manual integrations of the same analyte >10 minutes apart

Level	Status	Code	Operator	Instrument	Sample ID

ScanSummary.rpt

Total Files Scanned	21	Beginning Analyzed Date	7/30/2014 9:41:04PM
Methods	0	Ending Analyzed Date	10/23/2014 5:44:46PM
Samples	21	Analyzed Range	2036 hours, 3 minutes
Tunes	0	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

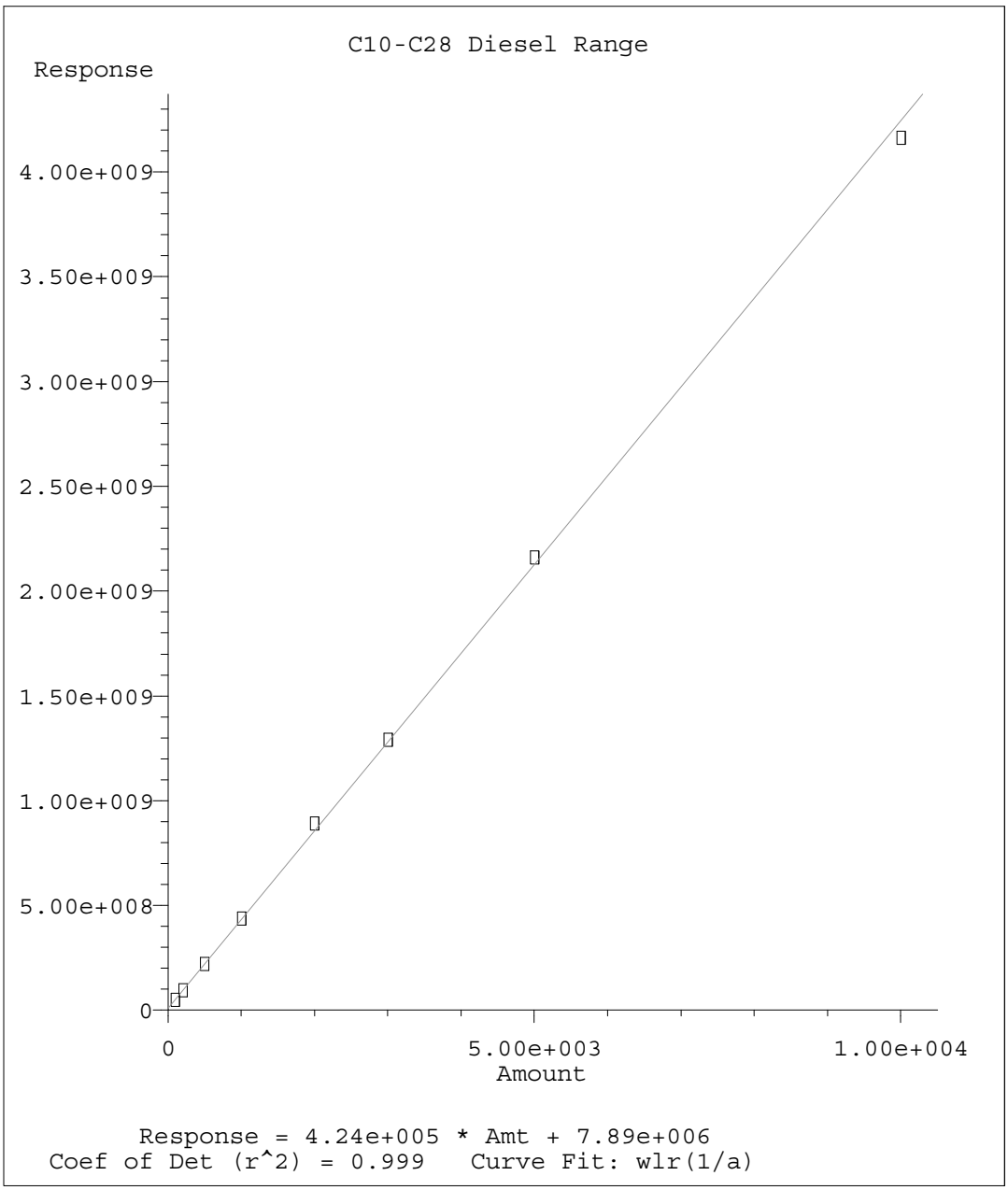
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

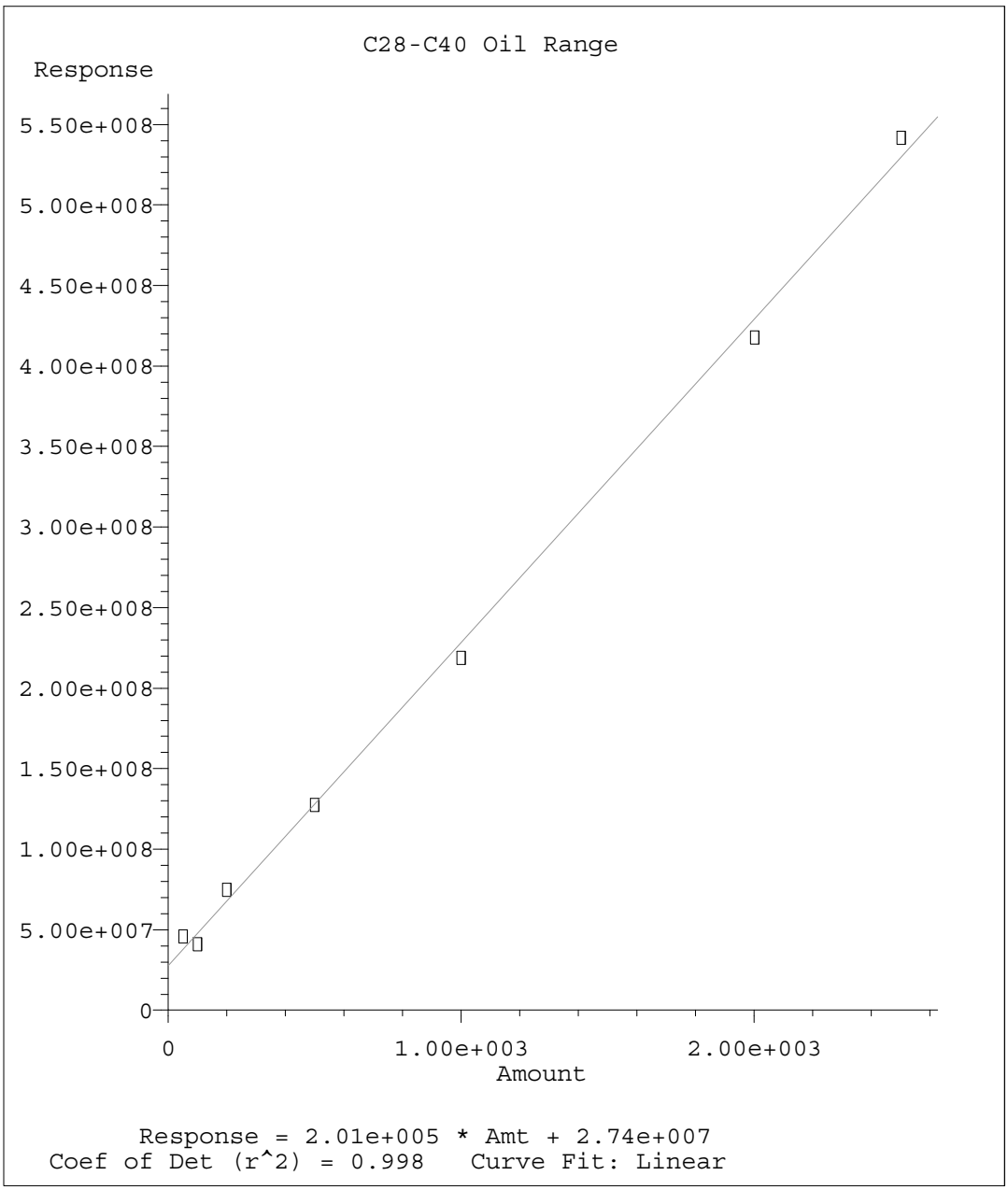
Instrument ID	: SVGC16	Review Method	: EPHMOD	Released By	: Casey Gwaltney
Method	: LA16J23N	Review Protocol	: EPHMOD	Released On	: 10/28/2014 2:39:11 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- LA16J23N -- ICal Updated Time: Tue Oct 28 11:00:10 2014

Parameter	100	200	500	1000	2000	3000	5000	10000	50M	100M	200M	500M	1KM	2KM	2.5000	AvgRF	%RSD	COD	Cur
C10-C28 Diesel Range	475600	467800	436600	437000	445100	429600	432100	416300								442512.8	4.5	0.999	0
C28-C40 Oil Range									912700	408800	372700	254600	218600	208800	216600	370421.2	68.1	0.998	0
O-TERPHENYL	523900	506100	455600	455600	481100											484471.7	6.28	0.063	1



Method Name: C:\MSDCHEM\1\METHODS\LA16J23N.M



Method Name: C:\MSDCHEM\1\METHODS\LA16J23N.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03:44 2014 Quant Results File: DE16G30N.RES

Quant Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

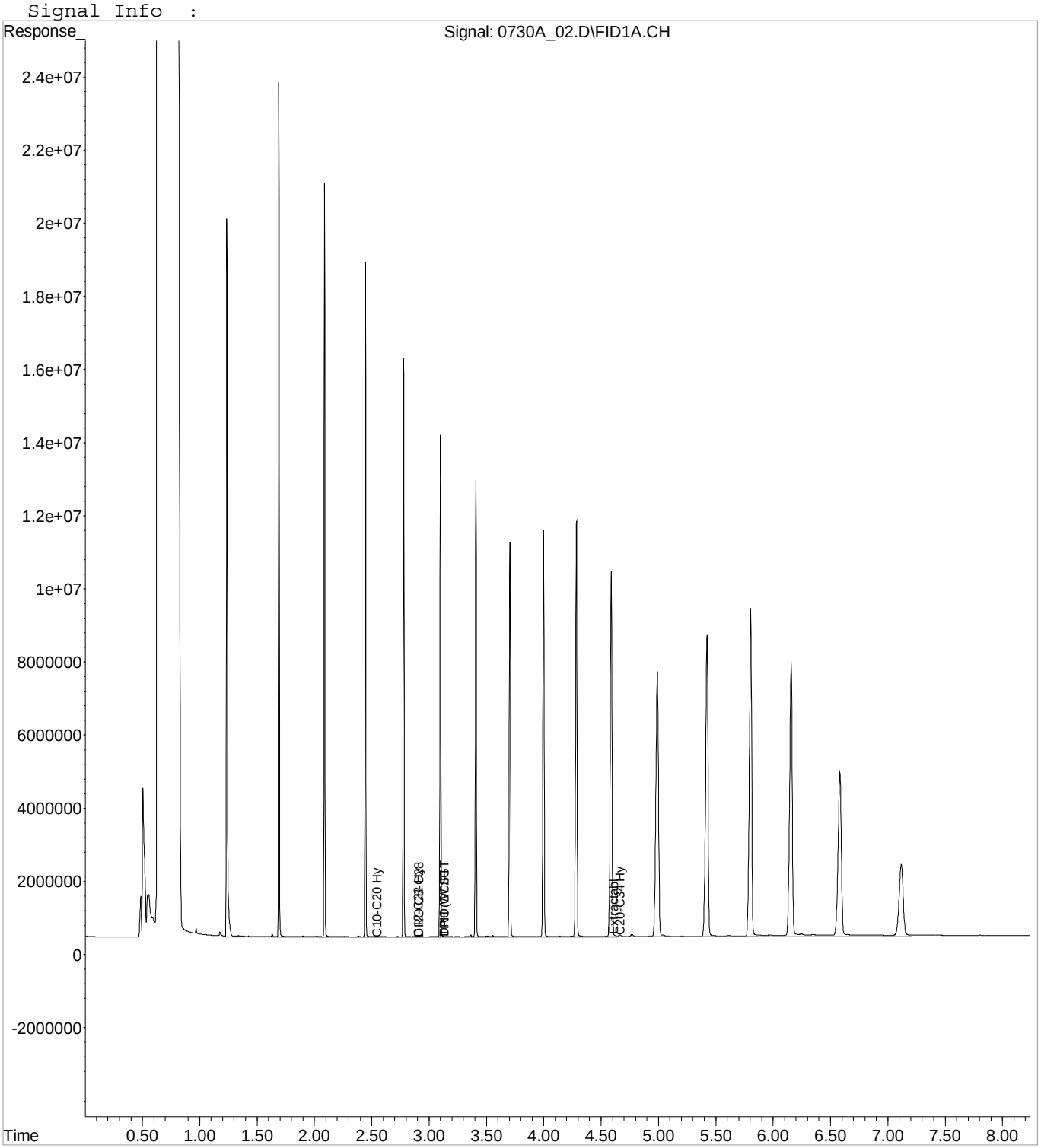
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) t,m,h C12-C22 Hydrocarbons	2.90	521337010	623.8574135	ppm
2) t,m,h TPH (GC/FID) HIGH FRACTION	3.14	916178591	947.0628273	ppm
3) H,M C10-C20 Hydrocarbons	2.55	551308651	565.8257979	ppm
4) t,m,h C20-C34 Hydrocarbons	4.66	730612567	749.8511725	ppm
5) h,t DRO W/ SGT	3.14	916178591	946.9774131	ppm
6) h,m DRO C8-C28	2.92	1039580354	1038.4603455	ppm
7) t,m,h Extractable Petroleum Hydr	4.62	1452034985	1714.6543859	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Quant Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

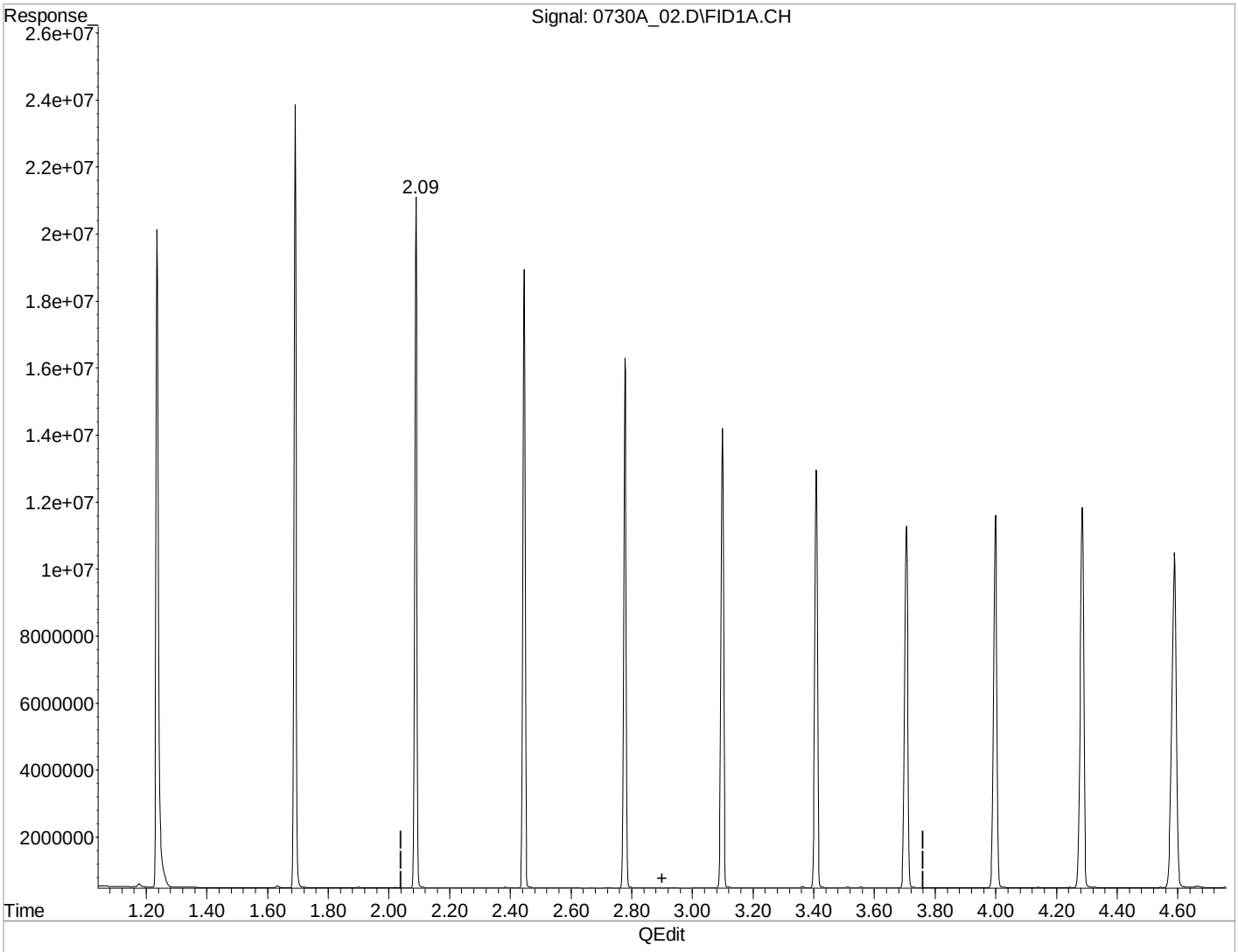
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(1) C12-C22 Hydrocarbons (t,m,h)

2.90min 623.8574135 ppm m

response 521337010

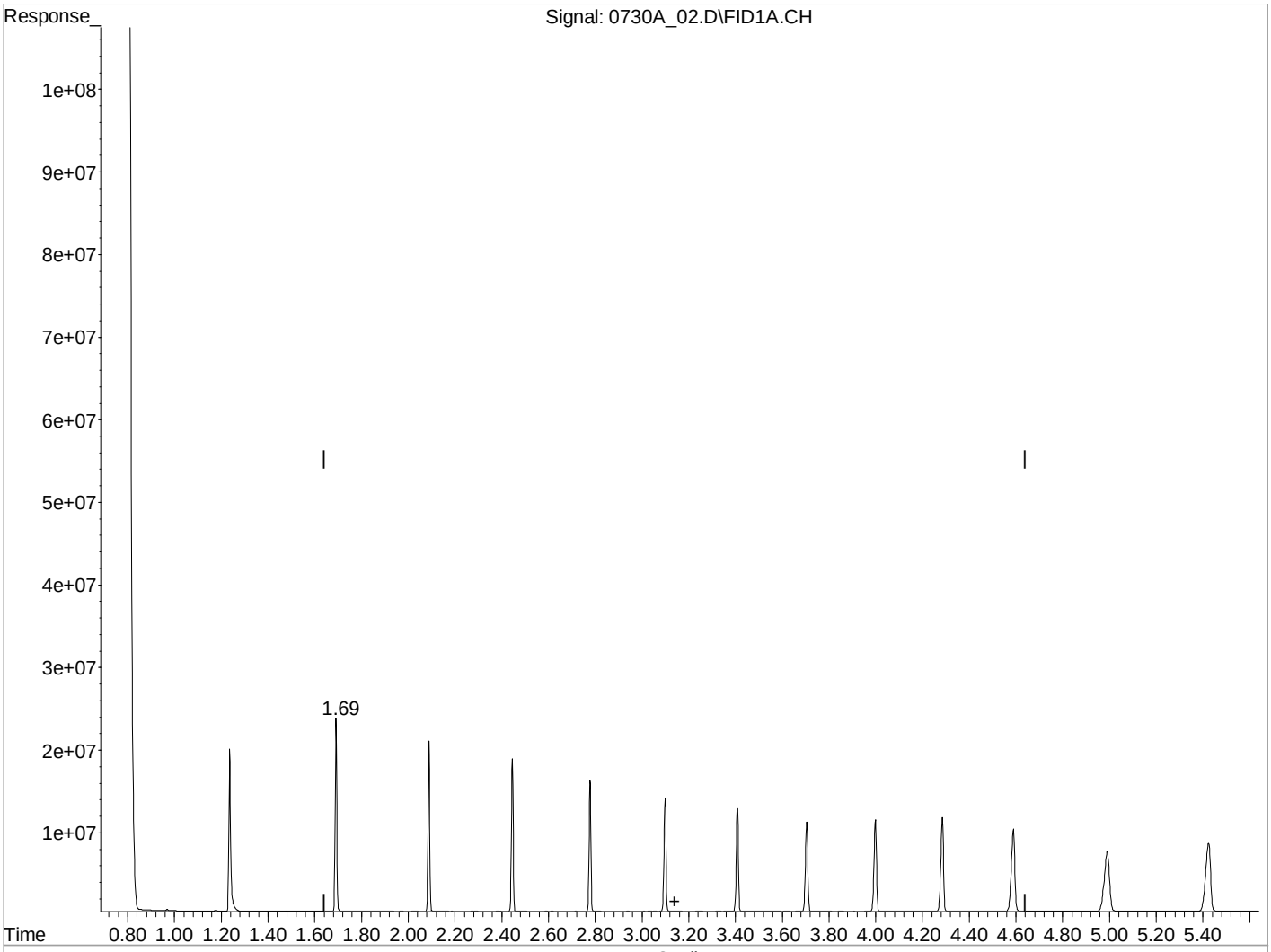
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:03:49 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(2) TPH (GC/FID) HIGH FRACTION (t,m,h)

3.14min 947.0628273 ppm m

response 916178591

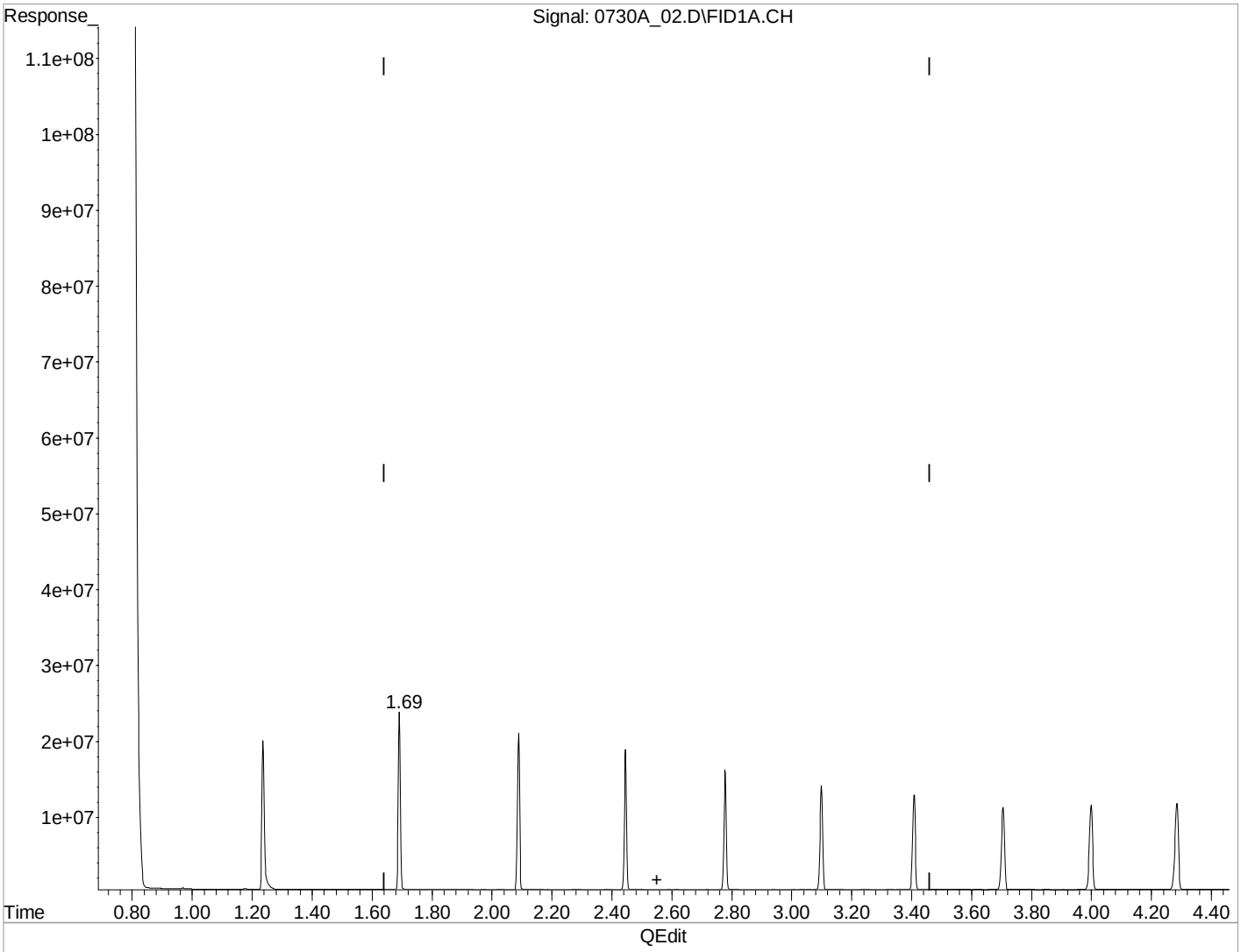
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:03:55 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(3) C10-C20 Hydrocarbons (H,M)

2.55min 565.8257979 ppm m

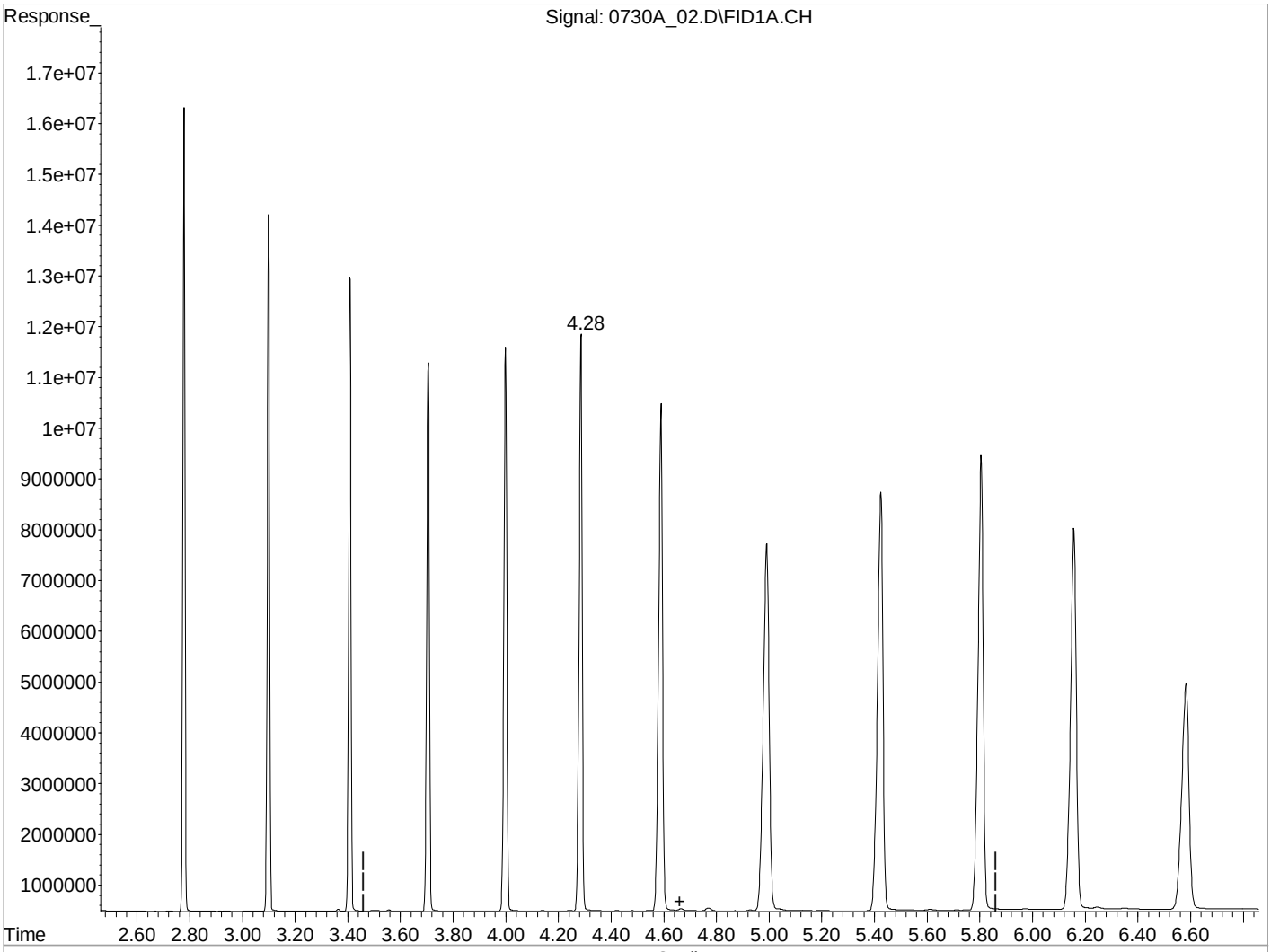
response 551308651

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(4) C20-C34 Hydrocarbons (t,m,h)

4.66min 749.8511725 ppm m

response 730612567

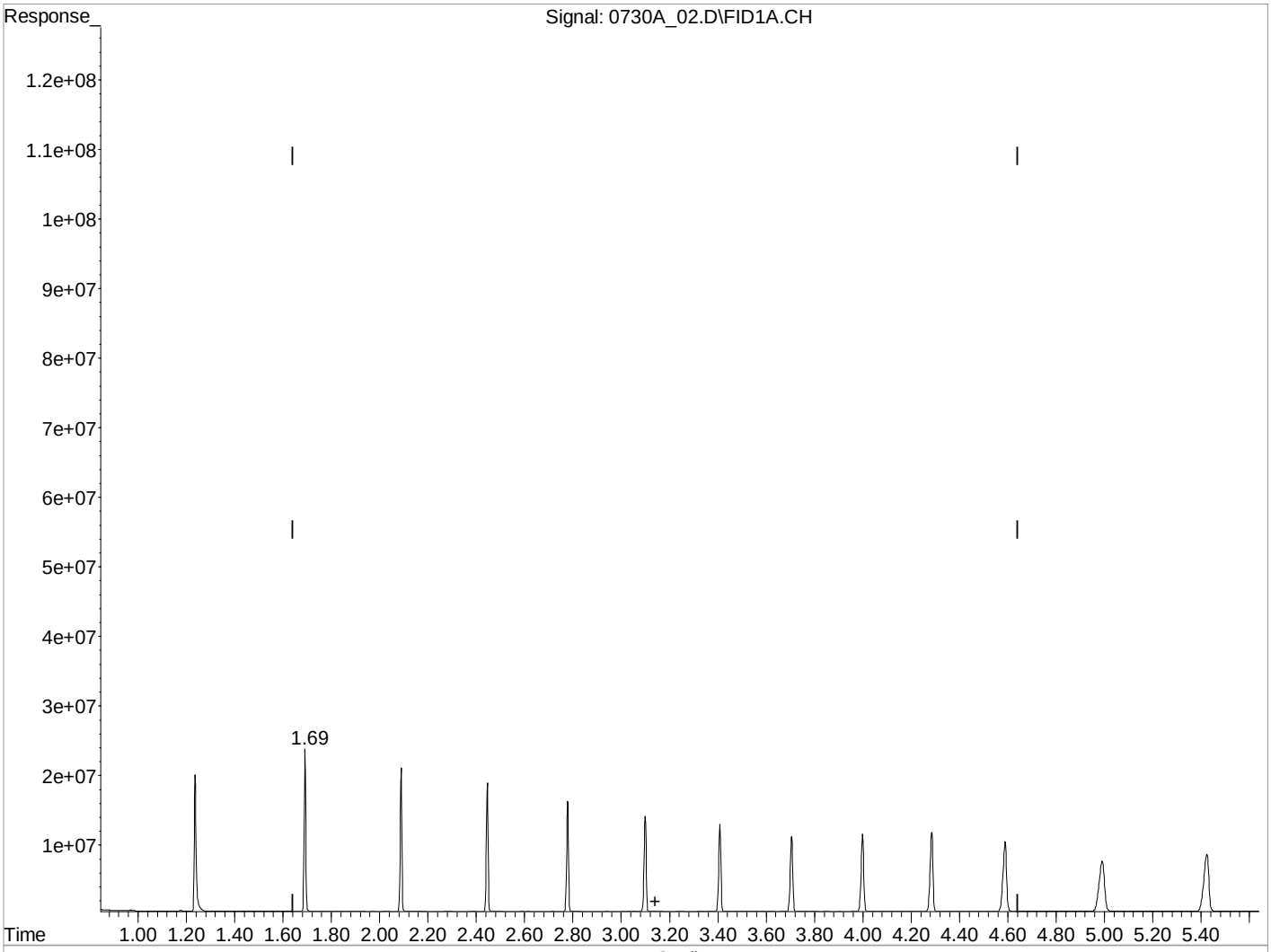
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:03 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(5) DRO W/ SGT (h,t)

3.14min 946.9774131 ppm m

response 916178591

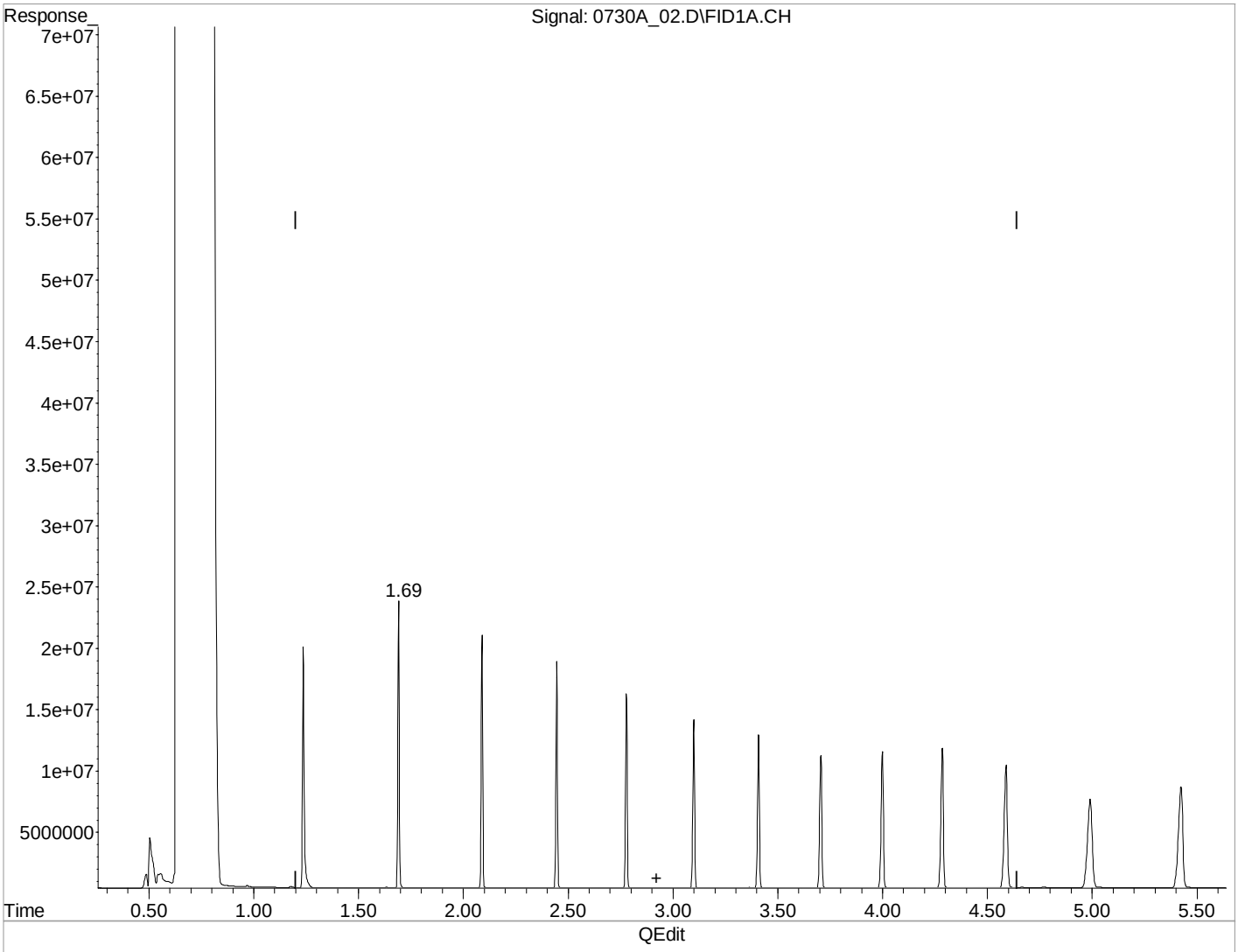
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:07 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(6) DRO C8-C28 (h,m)

2.92min 1038.4603455 ppm m

response 1039580354

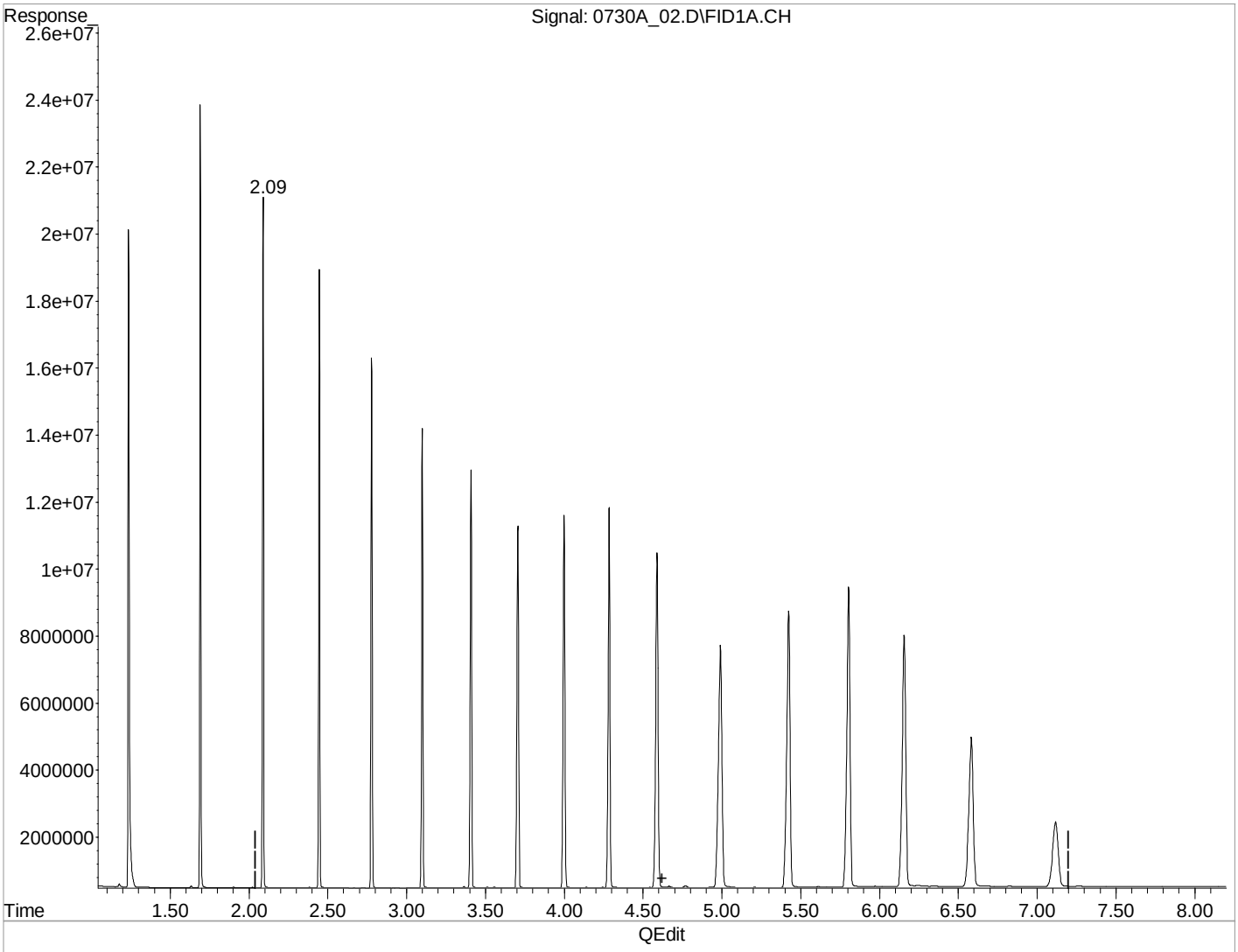
(+) = Expected Retention Time

0730A_02.D DE16G30N.M Wed Jul 30 22:04:11 2014

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\073014A\0730A 02.D Vial: 2
Acq On : 7-30-2014 09:41:04 PM Operator: 543
Sample : LOC FL 14E23224 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jul 30 22:03 2014 Quant Results File: DE16G30N.RES

Method : C:\MSDCHEM\1\METHODS\DE16G30N.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 30 22:03:39 2014
Response via : Multiple Level Calibration



(7) Extractable Petroleum Hydrocarbon (t,m,h)

4.62min 1714.6543859 ppm m

response 1452034985

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23:55 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:23:48 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

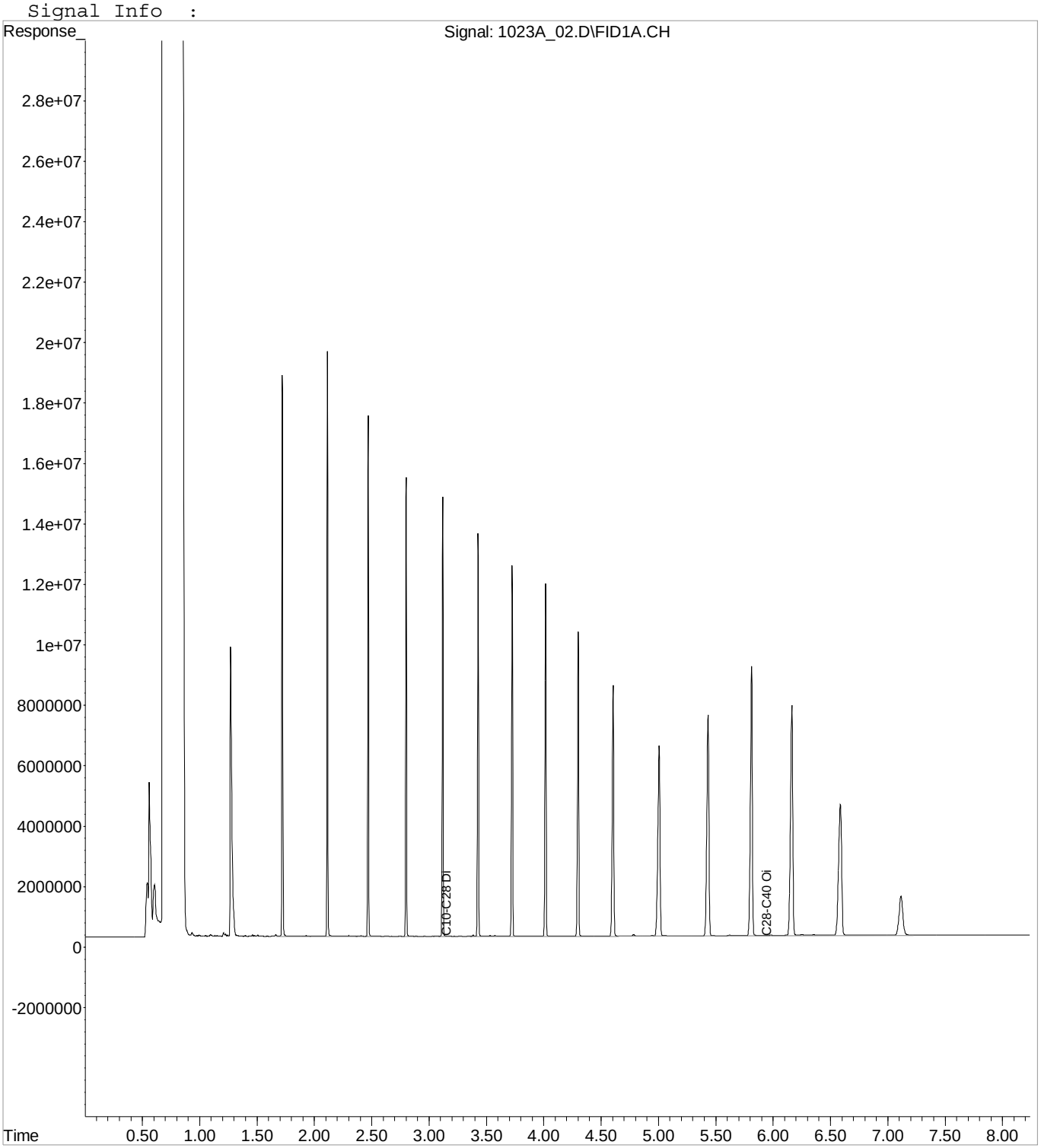
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	830023485	1940.6512764	ppm
2) h,m C28-C40 Oil Range	5.93	510377238	1765.0094751	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:23:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

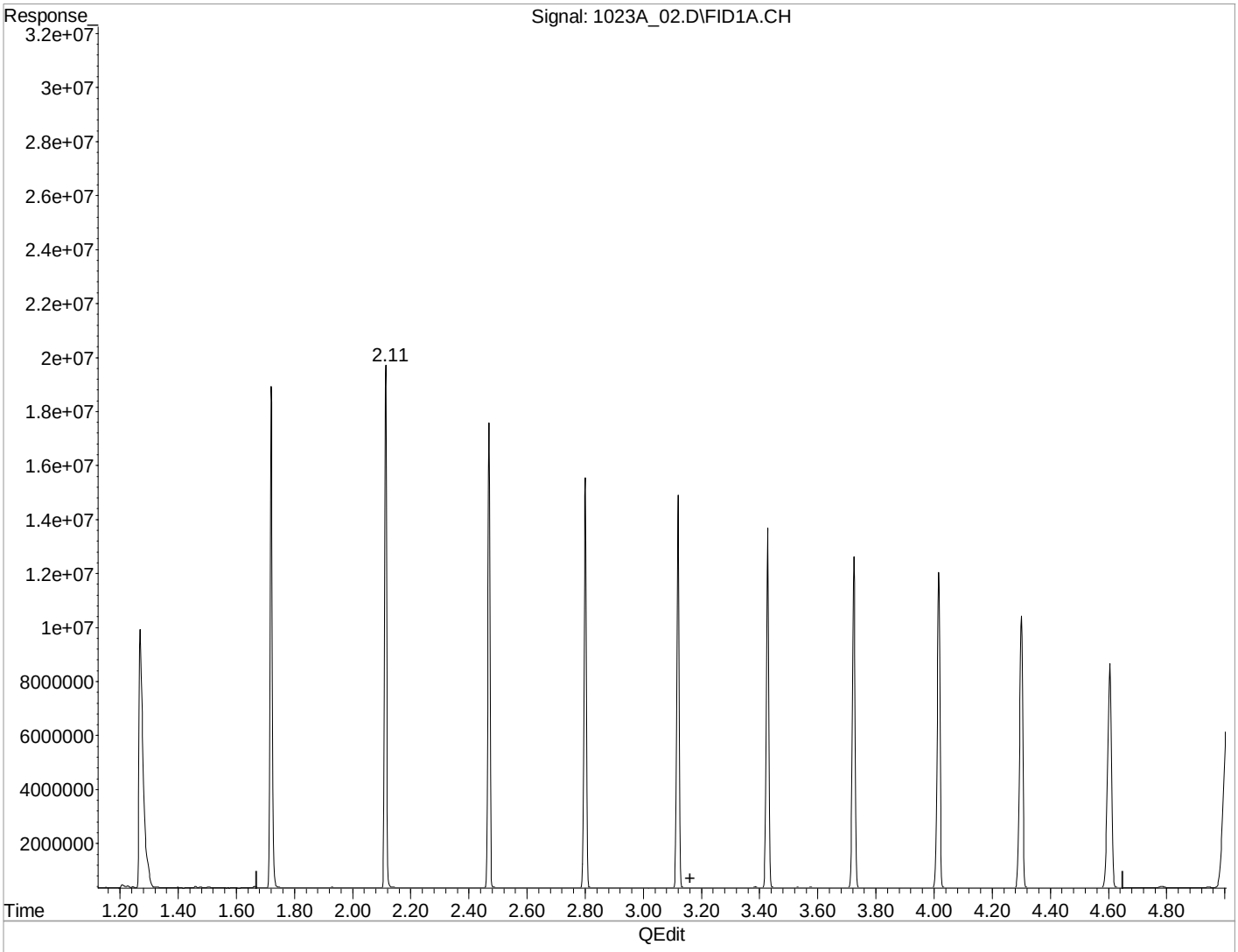
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration



(1) C10-C28 Diesel Range (h,m)

3.16min 1940.6512764 ppm m

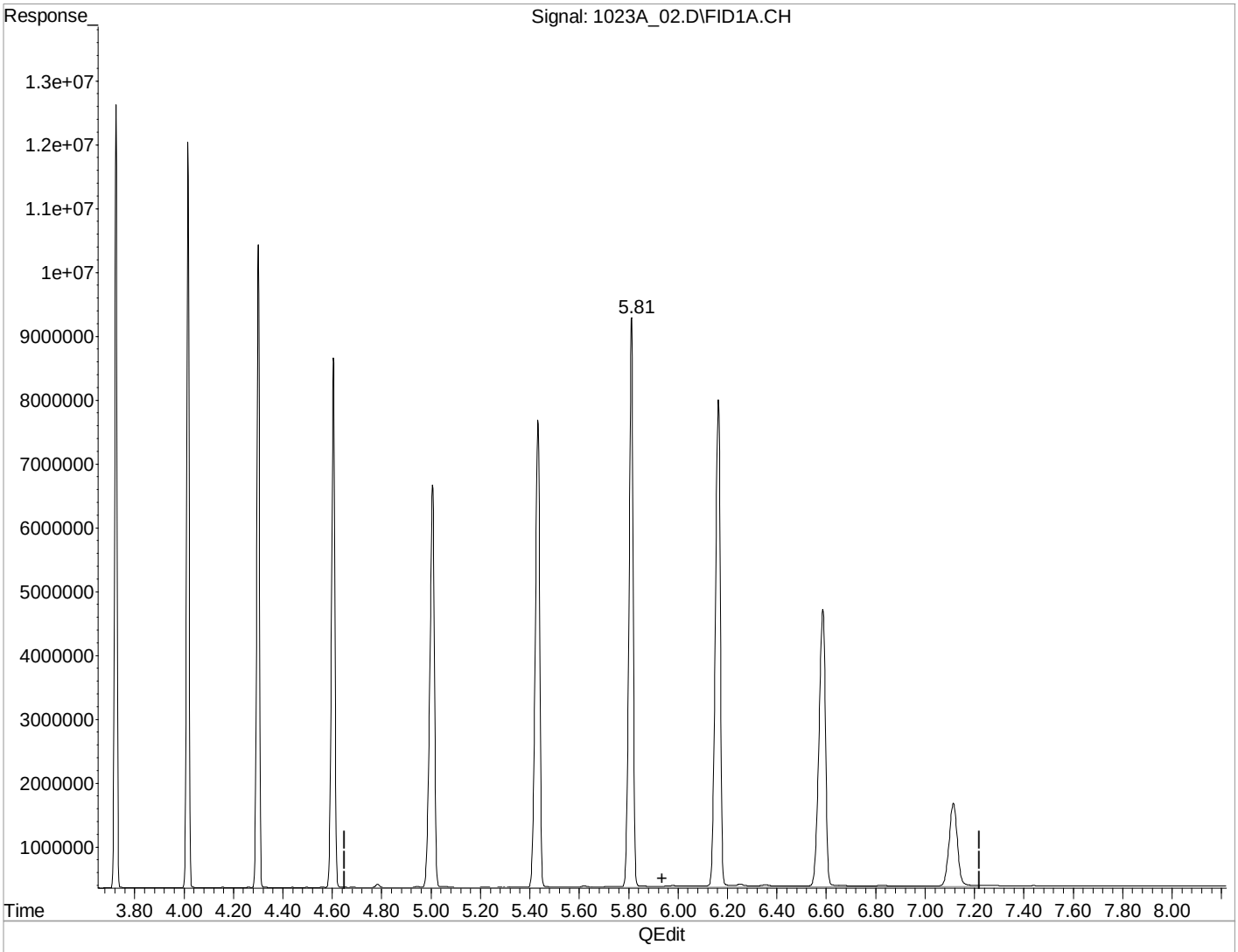
response 830023485

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 02.D Vial: 2
Acq On : 10-23-2014 03:31:54 PM Operator: 543
Sample : LOC FL 14J160051 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:23 2014 Quant Results File: LA16J23N.RES

Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration



(2) C28-C40 Oil Range (h,m)

5.93min 1765.0094751 ppm m

response 510377238

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\0730B 11.D Vial: 11
Acq On : 30 Jul 2014 11:31 pm Operator: 543
Sample : SSCV DRO 1500 ppm 14G17272 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:28:14 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

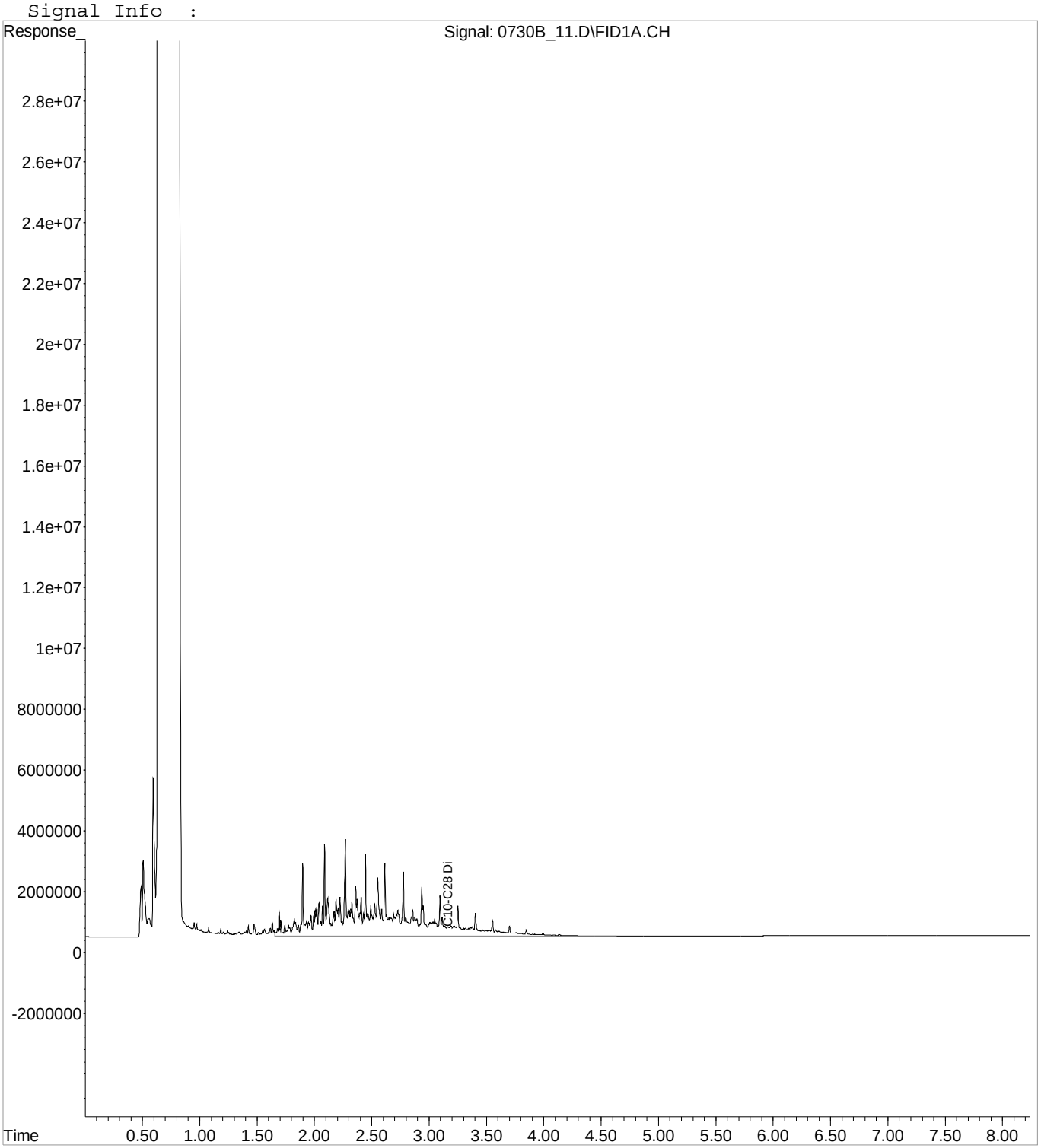
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	3.16	674881026	1574.4354360	ppm
2) h,m C28-C40 Oil Range	5.93	8651293	N.D.	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\0730B 11.D Vial: 11
Acq On : 30 Jul 2014 11:31 pm Operator: 543
Sample : SSCV DRO 1500 ppm 14G17272 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:28 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 11.D Vial: 11
Acq On : 10-23-2014 05:44:46 PM Operator: 543
Sample : SSCV 10W30 1500 ppm 14J23434 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:28:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

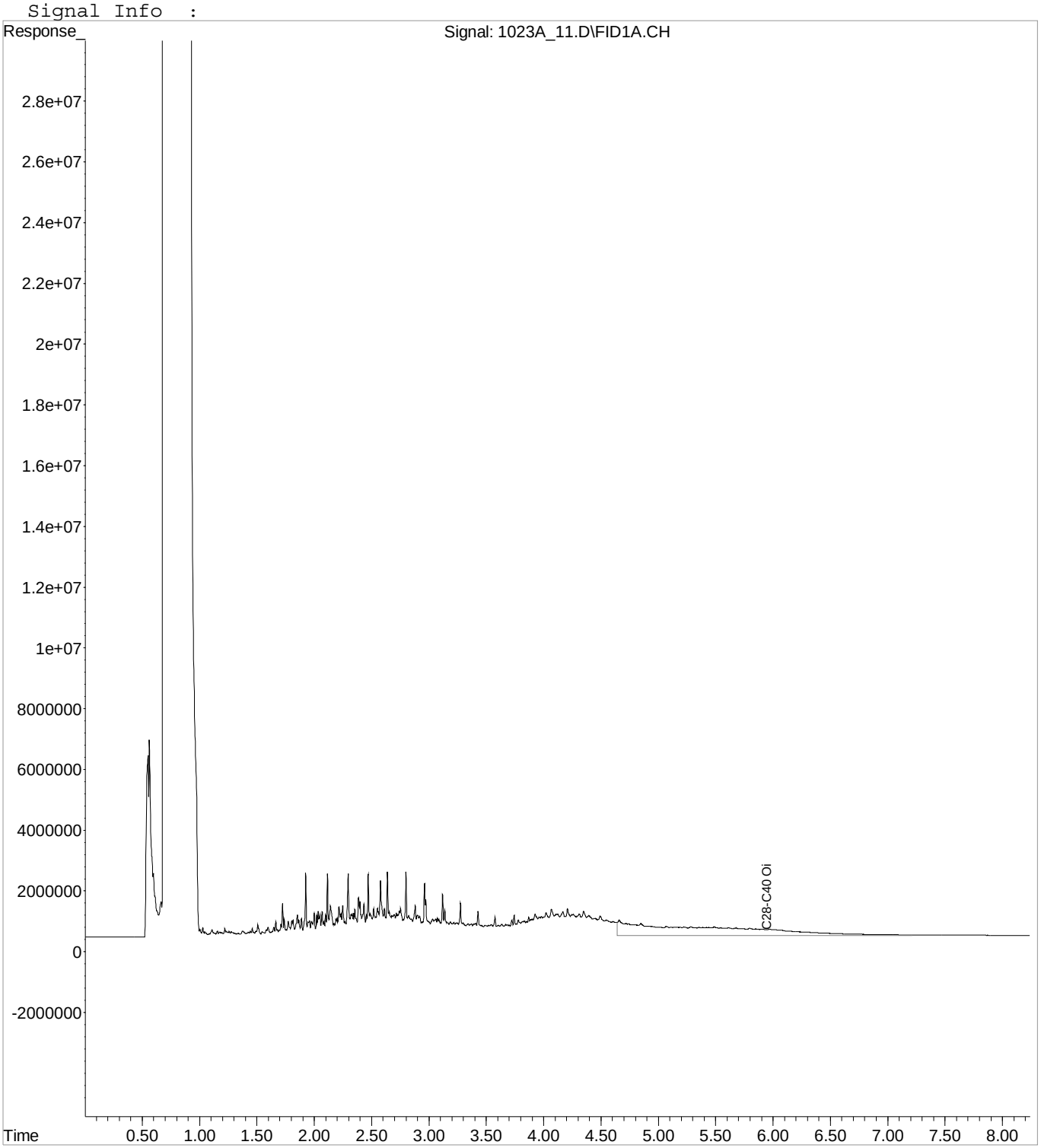
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	268952122	1203.5218318	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 11.D Vial: 11
Acq On : 10-23-2014 05:44:46 PM Operator: 543
Sample : SSCV 10W30 1500 ppm 14J23434 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:29 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Tue Oct 28 11:00:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 03.D        Vial: 3
Acq On    : 10-23-2014 03:44:03 PM                  Operator: 543
Sample    : STD 10W30 50M ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:24:13 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:23:48 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

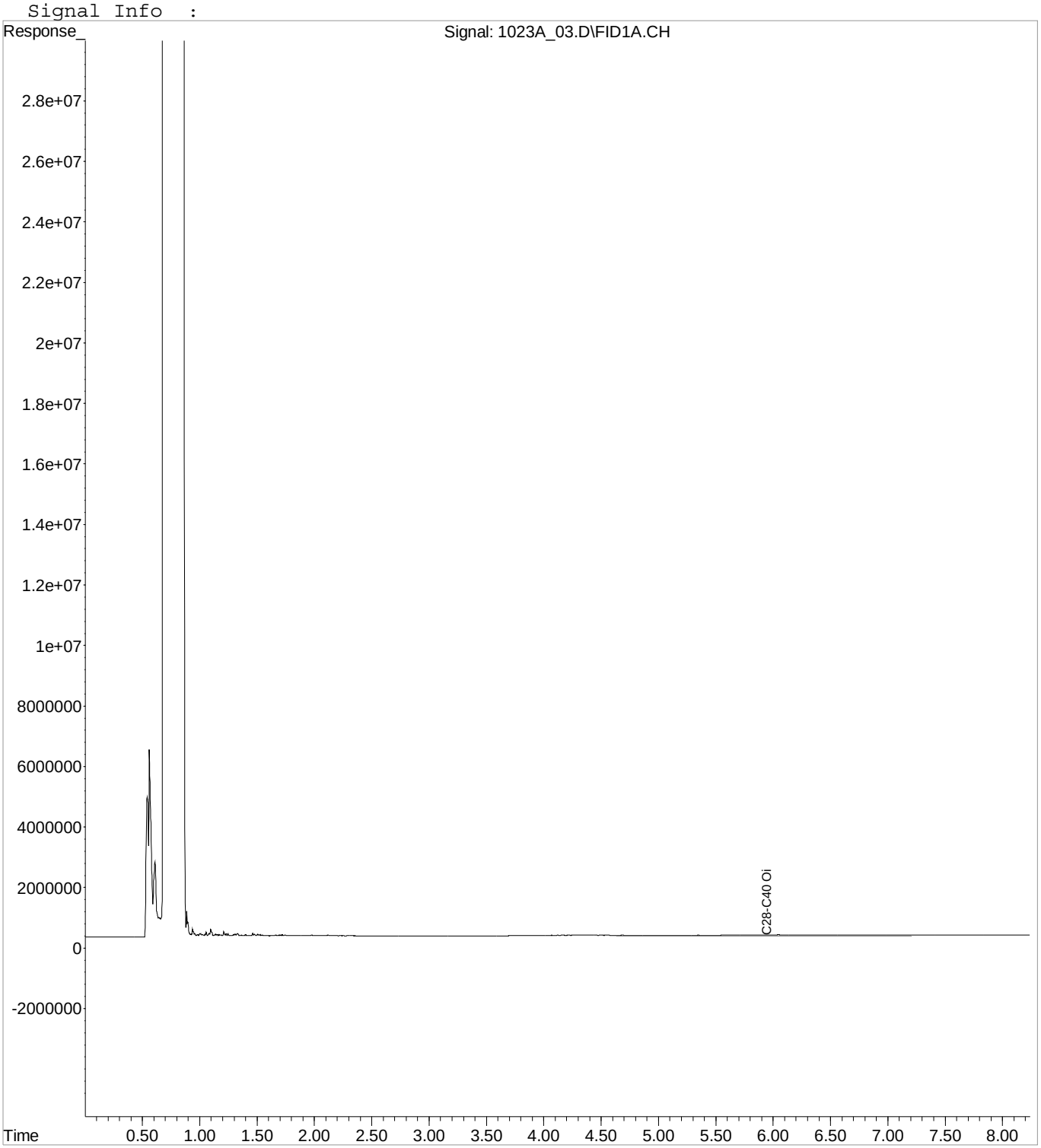
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	45636462	120.6724103	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 03.D Vial: 3
Acq On : 10-23-2014 03:44:03 PM Operator: 543
Sample : STD 10W30 50M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:23:48 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 04.D Vial: 4
Acq On : 10-23-2014 04:19:28 PM Operator: 543
Sample : STD 10W30 100M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24:47 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:24:44 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

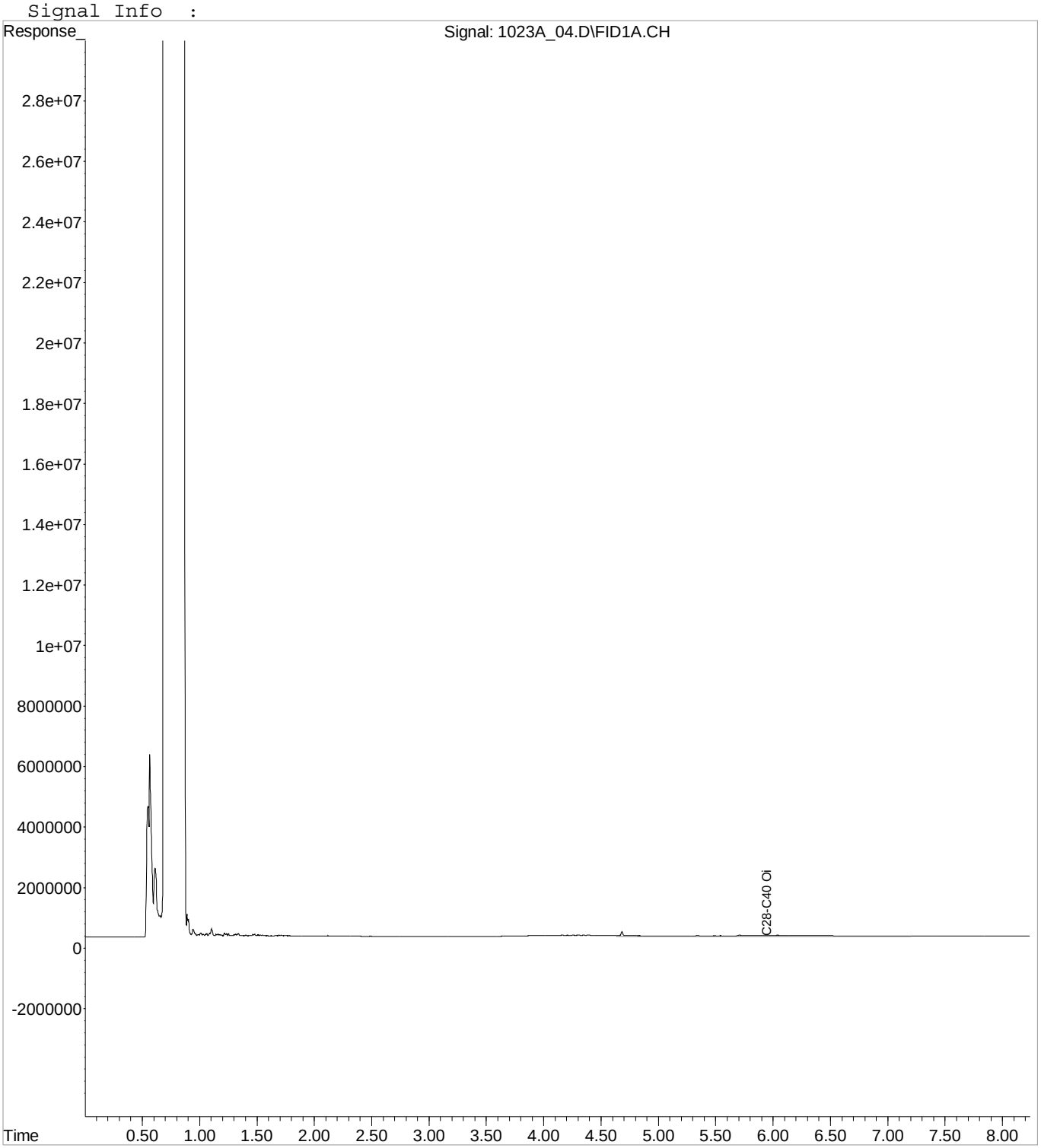
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	40877010	107.2310002	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 04.D Vial: 4
Acq On : 10-23-2014 04:19:28 PM Operator: 543
Sample : STD 10W30 100M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:24 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:24:44 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 05.D        Vial: 5
Acq On    : 10-23-2014 04:31:33 PM                  Operator: 543
Sample    : STD 10W30 200M ppm 14J23427             Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:04 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:01 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

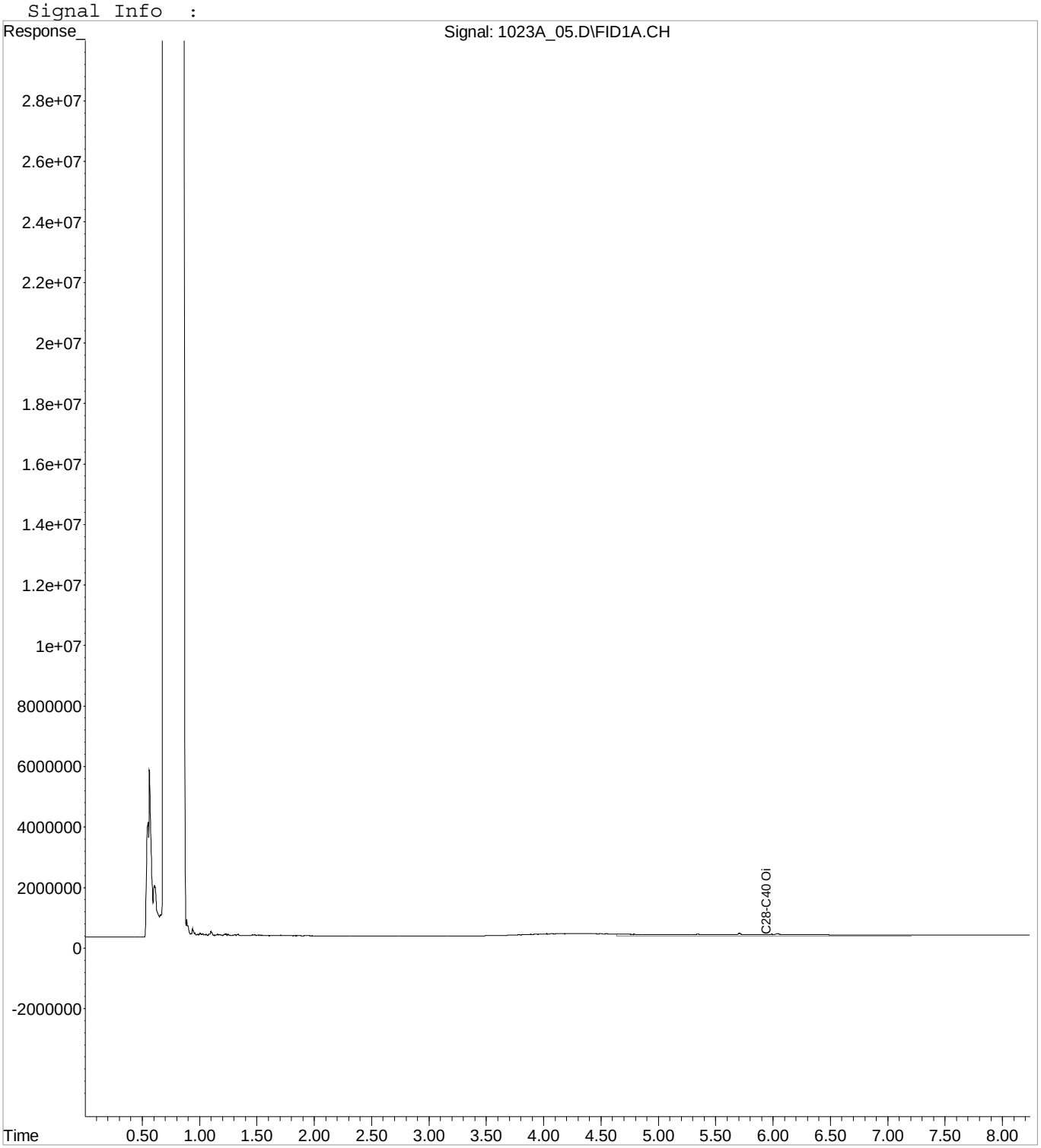
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	74547967	231.1416055	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 05.D Vial: 5
Acq On : 10-23-2014 04:31:33 PM Operator: 543
Sample : STD 10W30 200M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:25 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:01 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 06.D        Vial: 6
Acq On    : 10-23-2014 04:43:42 PM                  Operator: 543
Sample    : STD 10W30 500M ppm 14J23427             Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:24 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:21 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

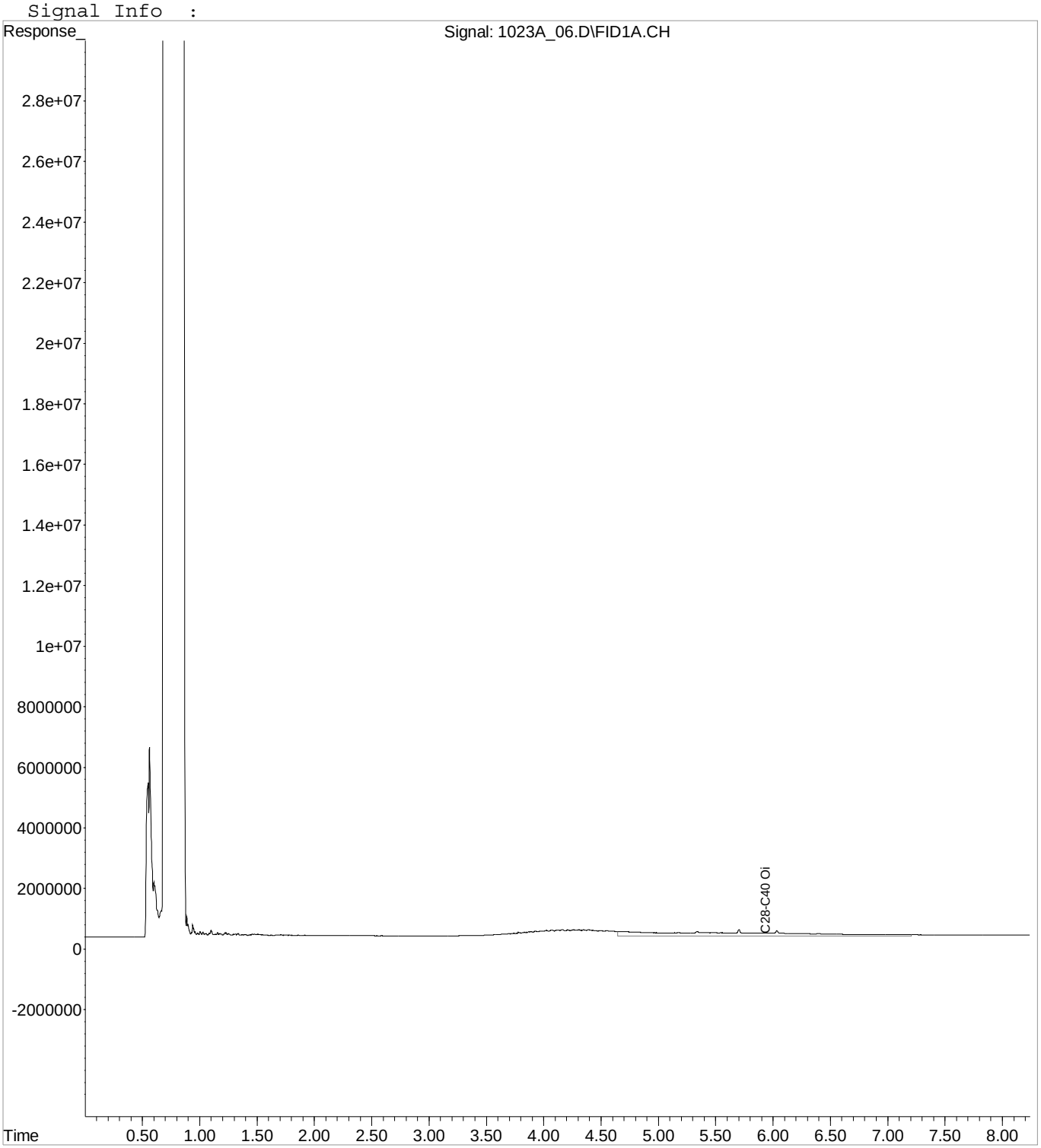
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	127318778	425.6072252	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 06.D Vial: 6
Acq On : 10-23-2014 04:43:42 PM Operator: 543
Sample : STD 10W30 500M ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:25 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:21 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 07.D        Vial: 7
Acq On    : 10-23-2014 04:55:52 PM                  Operator: 543
Sample    : STD 10W30 1KM ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:39 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:37 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

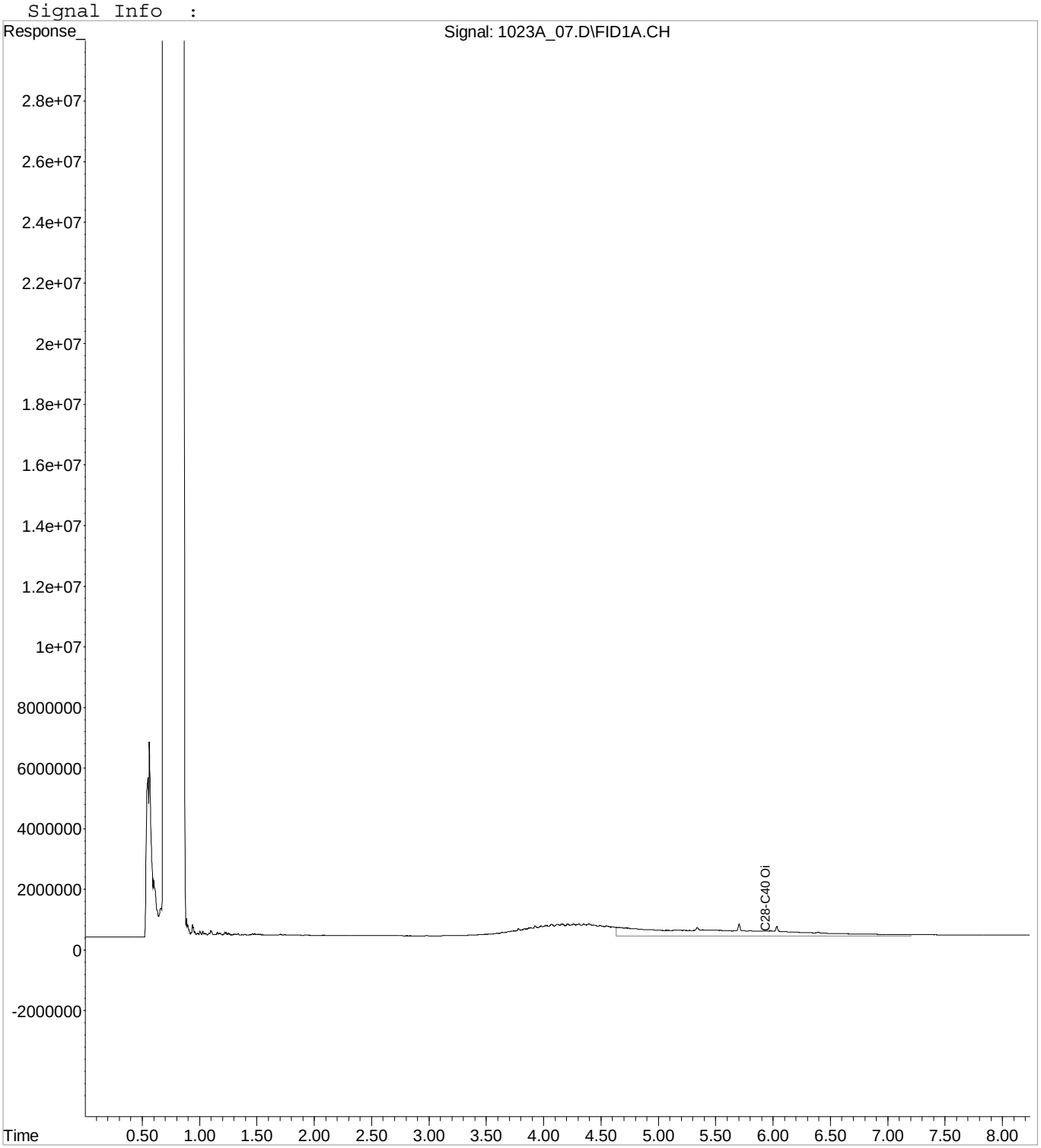
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	218621838	764.4133216	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 07.D Vial: 7
Acq On : 10-23-2014 04:55:52 PM Operator: 543
Sample : STD 10W30 1KM ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:37 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:37 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 08.D        Vial: 8
Acq On    : 10-23-2014 05:08:02 PM                  Operator: 543
Sample    : STD 10W30 2KM ppm 14J23427              Inst    : SVGC16
Misc      :                                         Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:25:58 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:25:54 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

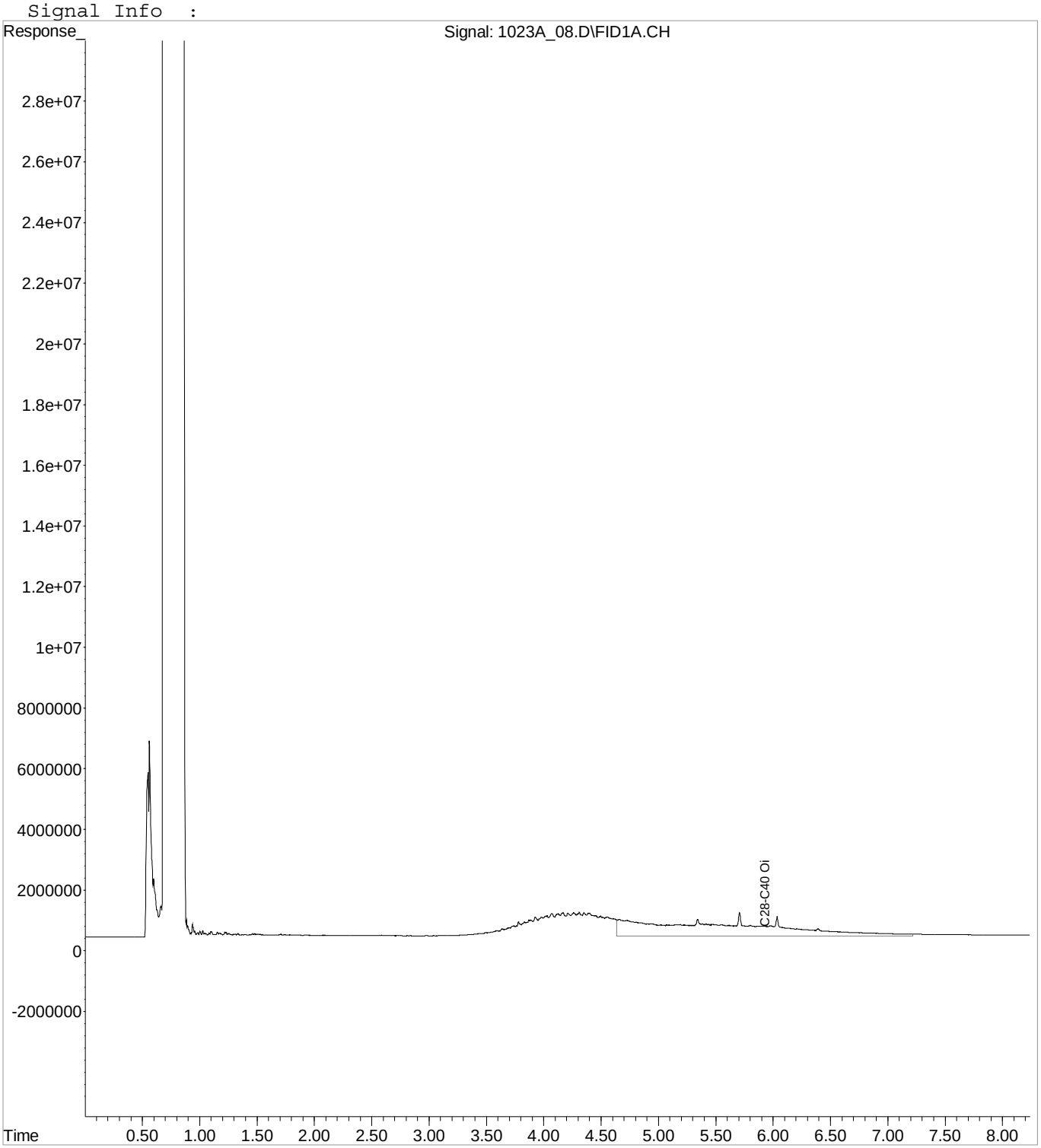
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	417669036	1488.6241042	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 08.D Vial: 8
Acq On : 10-23-2014 05:08:02 PM Operator: 543
Sample : STD 10W30 2KM ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:26 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:25:54 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 09.D Vial: 9
Acq On : 10-23-2014 05:20:22 PM Operator: 543
Sample : STD 10W30 2.5K ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 25 18:26:13 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:10 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :

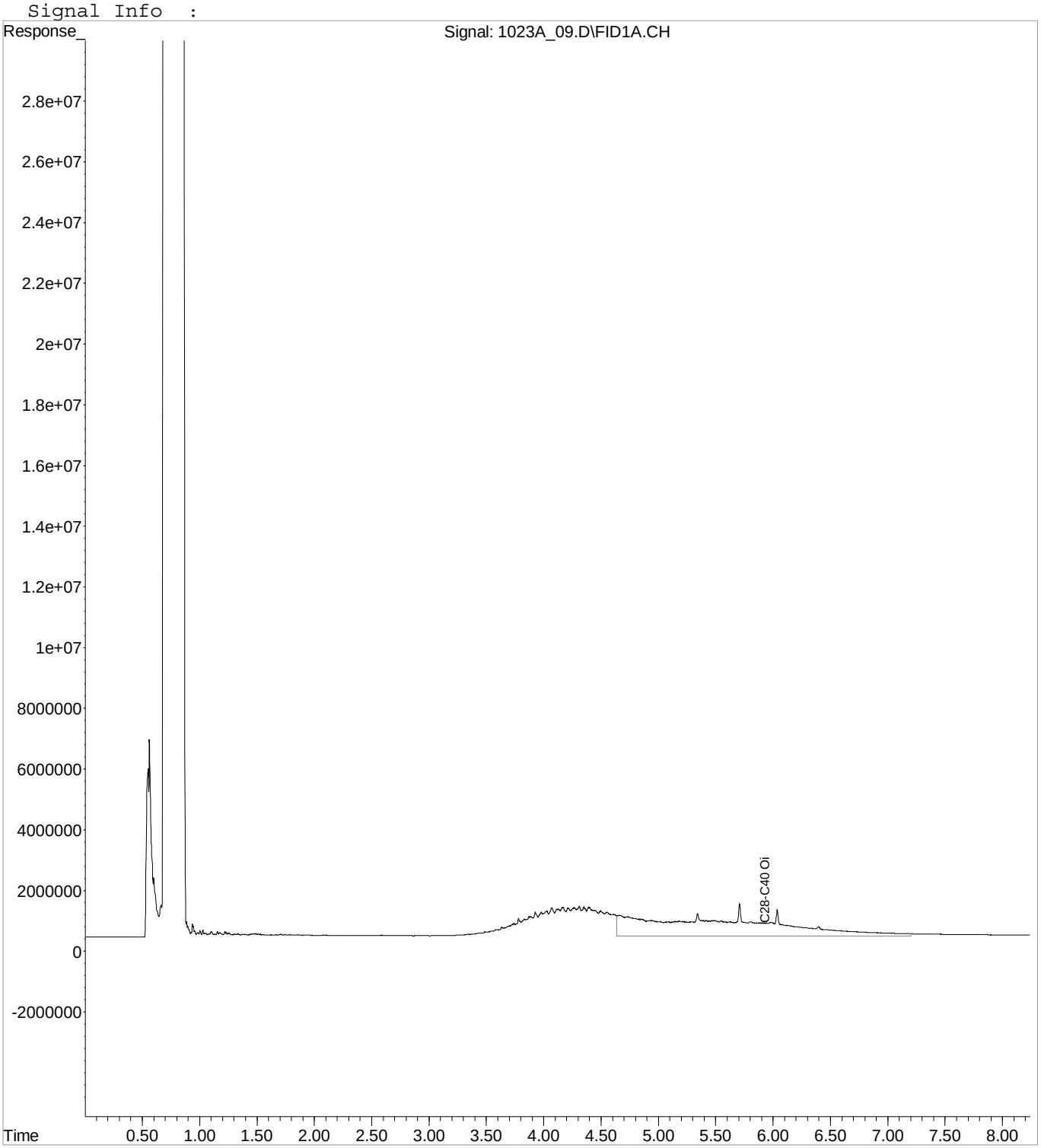
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	541539004	1976.6738531	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 09.D Vial: 9
Acq On : 10-23-2014 05:20:22 PM Operator: 543
Sample : STD 10W30 2.5K ppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:38 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:10 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\MSDCHEM\1\DATA\102314A\1023A 10.D         Vial: 10
Acq On    : 10-23-2014 05:32:36 PM                   Operator: 543
Sample    : STD 10W30 5KMppm 14J23427                Inst    : SVGC16
Misc      :                                          Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct 25 18:26:28 2014  Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title        :
Last Update  : Sat Oct 25 18:26:25 2014
Response via : Initial Calibration
DataAcq Meth : DRO16C.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

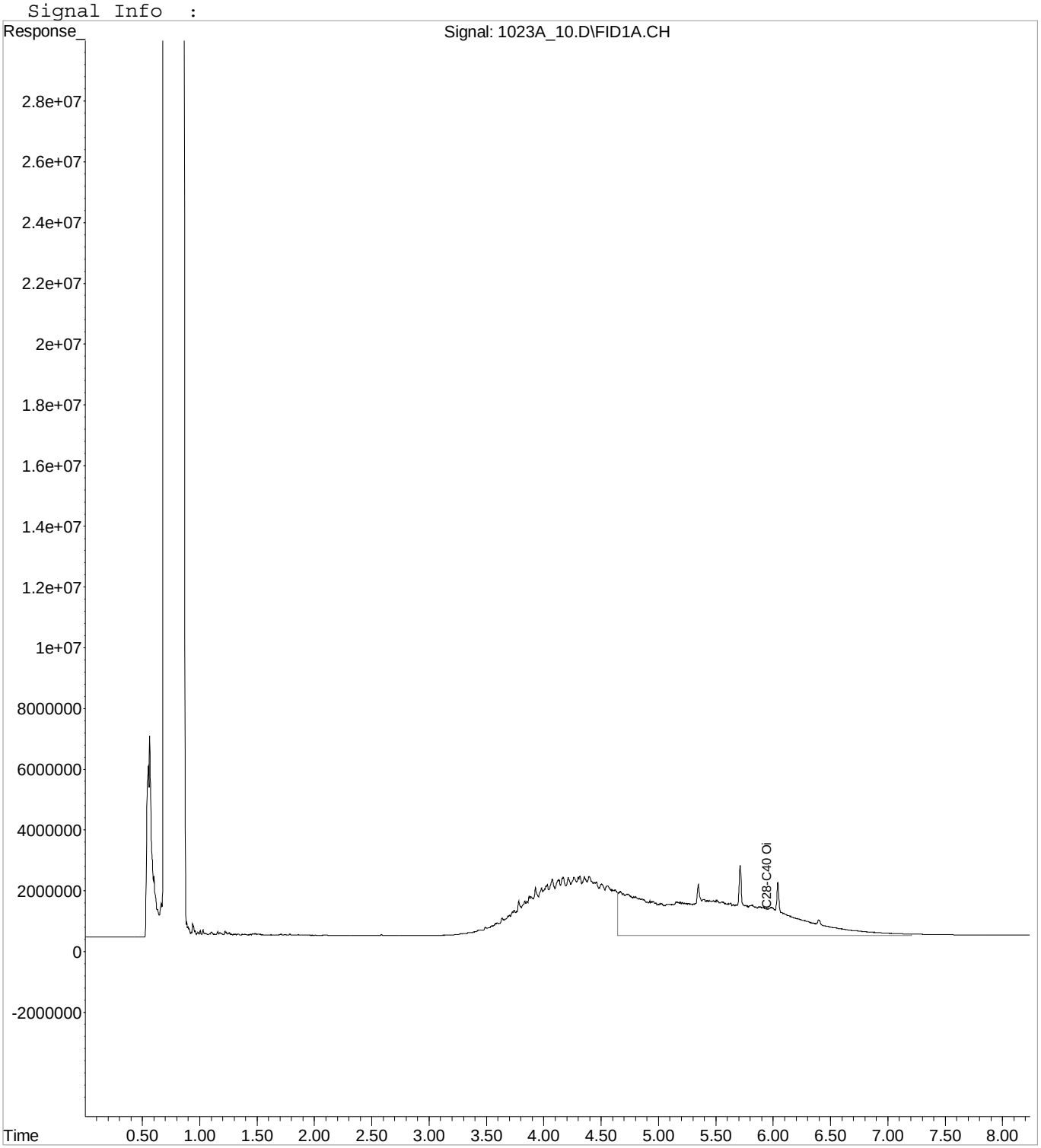
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S O-TERPHENYL	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) h,m C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) h,m C28-C40 Oil Range	5.93	1134541207	4200.9500219	ppm

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102314A\1023A 10.D Vial: 10
Acq On : 10-23-2014 05:32:36 PM Operator: 543
Sample : STD 10W30 5KMppm 14J23427 Inst : SVGC16
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 10:39 2014 Quant Results File: LA16J23N.RES

Quant Method : C:\MSDCHEM\1\METHODS\LA16J23N.M (Chemstation Integrator)
Title :
Last Update : Sat Oct 25 18:26:25 2014
Response via : Multiple Level Calibration
DataAcq Meth : DRO16C.M

Volume Inj. :
Signal Phase :
Signal Info :



Semi-Volatiles by Method 8270C

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(800) 767-5859
Fax (615) 758-5859
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Est. 1970

Quality Control Summary
SDG: L729802

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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(615) 758-5858
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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751196**
Description: **SVOCs by Method 8270C (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/30/2014	10/31/2014
L729802-03 1x	10/23/2014	10/30/2014	10/31/2014
L729802-04 1x	10/23/2014	10/30/2014	10/31/2014
L729802-05 1x	10/23/2014	10/30/2014	10/31/2014

Parameters in bold text are reported in this SDG

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Fax (615) 758-5859
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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS4	LCS WG751196	LCS WG751196	1031_04.D	10/31/2014	11:49 AM
BNAMS4	LCSD WG751196	LCSD WG751196	1031_05.D	10/31/2014	12:11 PM
BNAMS4	Blank WG751196	Blank WG751196	1031_06.D	10/31/2014	12:33 PM
BNAMS4	MS WG751196	MS WG751196	1031_14.D	10/31/2014	3:28 PM
BNAMS4	MSD WG751196	MSD WG751196	1031_15.D	10/31/2014	3:49 PM
BNAMS4	TU515-SB02-NS01	L729802-01	1031_19.D	10/31/2014	5:17 PM
BNAMS4	TU515-SB08-NS01	L729802-03	1031_20.D	10/31/2014	5:39 PM
BNAMS4	TU515-SB10-NS01	L729802-04	1031_21.D	10/31/2014	6:01 PM
BNAMS4	TU515-SB10-NS02	L729802-05	1031_22.D	10/31/2014	6:22 PM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 333	< 8.76	
2,4,5-Trichlorophenol	95-95-4	< 333	< 10.4	
2,4,6-Trichlorophenol	88-06-2	< 333	< 7.79	
2,4-Dichlorophenol	120-83-2	< 333	< 7.46	
2,4-Dimethylphenol	105-67-9	< 333	< 47.1	
2,4-Dinitrophenol	51-28-5	< 333	< 98.0	
2,4-Dinitrotoluene	121-14-2	< 333	< 6.07	
2,6-Dinitrotoluene	606-20-2	< 333	< 7.37	
2-Chloronaphthalene	91-58-7	< 333	< 6.27	
2-Chlorophenol	95-57-8	< 333	< 8.31	
2-Methylphenol	95-48-7	< 333	< 9.86	
2-Nitroaniline	88-74-4	< 333	< 7.55	
2-Nitrophenol	88-75-5	< 333	< 13.0	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 333	< 7.83	
3,3-Dichlorobenzidine	91-94-1	< 333	< 79.4	
3-Nitroaniline	99-09-2	< 333	< 8.5	
4,6-Dinitro-2-methylphenol	534-52-1	< 333	< 124	
4-Bromophenyl-phenylether	101-55-3	< 333	< 11.4	
4-Chloro-3-methylphenol	59-50-7	< 333	< 4.77	
4-Chloroaniline	106-47-8	< 333	< 3.52	
4-Chlorophenyl-phenylether	7005-72-3	< 333	< 6.27	
4-Nitroaniline	100-01-6	< 333	< 6.39	
4-Nitrophenol	100-02-7	< 333	< 52.5	
Azobenzene	103-33-3	< 333	< 1.41	
Benzoic Acid	65-85-0	< 3330	< 123	
Benzyl Alcohol	100-51-6	< 333	< 7.5	
Benzylbutyl phthalate	85-68-7	< 333	< 10.3	
Bis(2-chlorethoxy)methane	111-91-1	< 333	< 7.7	
Bis(2-chloroethyl)ether	111-44-4	< 333	< 8.96	
Bis(2-chloroisopropyl)ether	108-60-1	< 333	< 7.6	
Bis(2-ethylhexyl)phthalate	117-81-7	< 333	< 12.0	
Carbazole	86-74-8	< 333	< 5.24	
Dibenzofuran	132-64-9	< 333	< 5.18	
Diethyl phthalate	84-66-2	< 333	< 6.91	
Dimethyl phthalate	131-11-3	< 333	< 5.4	
Di-n-butyl phthalate	84-74-2	< 333	< 10.9	
Di-n-octyl phthalate	117-84-0	< 333	< 9.07	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Hexachloro-1,3-butadiene	87-68-3	< 333	< 10.0	
Hexachlorobenzene	118-74-1	< 333	< 8.56	
Hexachloroethane	67-72-1	< 333	< 13.4	
Isophorone	78-59-1	< 333	< 5.22	
Nitrobenzene	98-95-3	< 333	< 6.95	
n-Nitrosodimethylamine	62-75-9	< 333	< 64.7	
n-Nitrosodi-n-propylamine	621-64-7	< 333	< 9.06	
n-Nitrosodiphenylamine	86-30-6	< 333	< 5.94	
Pentachlorophenol	87-86-5	< 333	< 48.0	
Phenol	108-95-2	< 333	< 6.95	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	238.49	71.6	39.8 - 100	
2,4,5-Trichlorophenol	1	333	282.47	84.8	43.3 - 110	
2,4,6-Trichlorophenol	1	333	294.30	88.4	44.4 - 108	
2,4-Dichlorophenol	1	333	263.78	79.2	46.2 - 109	
2,4-Dimethylphenol	1	333	250.30	75.2	42.2 - 110	
2,4-Dinitrophenol	1	333	258.74	77.7	10 - 105	
2,4-Dinitrotoluene	1	333	280.92	84.4	53 - 112	
2,6-Dinitrotoluene	1	333	281.85	84.6	51.6 - 110	
2-Chloronaphthalene	1	333	255.41	76.7	47.1 - 105	
2-Chlorophenol	1	333	224.59	67.4	40.8 - 103	
2-Methylphenol	1	333	203.81	61.2	42.4 - 100	
2-Nitroaniline	1	333	270.23	81.2	53.8 - 107	
2-Nitrophenol	1	333	269.46	80.9	44.2 - 113	
3&4-Methyl Phenol	1	333	232.02	69.7	50.5 - 115	
3,3-Dichlorobenzidine	1	333	195.60	58.7	21 - 101	
3-Nitroaniline	1	333	238.69	71.7	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	295.46	88.7	23.1 - 119	
4-Bromophenyl-phenylether	1	333	263.56	79.1	51.4 - 110	
4-Chloro-3-methylphenol	1	333	251.16	75.4	51.1 - 113	
4-Chloroaniline	1	333	194.11	58.3	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	261.03	78.4	48.1 - 108	
4-Nitroaniline	1	333	258.61	77.7	38.6 - 133	
4-Nitrophenol	1	333	250.82	75.3	34.8 - 109	
Azobenzene	1	333	211.86	63.6	46.4 - 109	
Benzoic Acid	1	333	99.445	29.9	0 - 82	
Benzyl Alcohol	1	333	187.97	56.4	49.1 - 105	
Benzylbutyl phthalate	1	333	247.98	74.5	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	196.30	58.9	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	164.07	49.3	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	214.89	64.5	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	247.50	74.3	48.1 - 116	
Carbazole	1	333	261.01	78.4	52.4 - 102	
Dibenzofuran	1	333	264.94	79.6	48.6 - 104	
Diethyl phthalate	1	333	275.85	82.8	52 - 112	
Dimethyl phthalate	1	333	274.88	82.5	51.4 - 108	
Di-n-butyl phthalate	1	333	276.34	83	49.7 - 113	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	246.23	73.9	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	261.83	78.6	41.5 - 112	
Hexachlorobenzene	1	333	273.65	82.2	43.2 - 104	
Hexachloroethane	1	333	222.50	66.8	36.2 - 103	
Isophorone	1	333	242.99	73	28.8 - 104	
Nitrobenzene	1	333	221.12	66.4	40.7 - 109	
n-Nitrosodimethylamine	1	333	162.42	48.8	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	180.59	54.2	43.3 - 109	
n-Nitrosodiphenylamine	1	333	252.26	75.8	48.8 - 107	
Pentachlorophenol	1	333	282.56	84.9	16.2 - 102	
Phenol	1	333	207.06	62.2	41.5 - 106	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	333	249.59	75	39.8 - 100	
2,4,5-Trichlorophenol	1	333	296.16	88.9	43.3 - 110	
2,4,6-Trichlorophenol	1	333	317.77	95.4	44.4 - 108	
2,4-Dichlorophenol	1	333	280.28	84.2	46.2 - 109	
2,4-Dimethylphenol	1	333	262.33	78.8	42.2 - 110	
2,4-Dinitrophenol	1	333	252.98	76	10 - 105	
2,4-Dinitrotoluene	1	333	299.77	90	53 - 112	
2,6-Dinitrotoluene	1	333	304.28	91.4	51.6 - 110	
2-Chloronaphthalene	1	333	274.92	82.6	47.1 - 105	
2-Chlorophenol	1	333	230.38	69.2	40.8 - 103	
2-Methylphenol	1	333	218.06	65.5	42.4 - 100	
2-Nitroaniline	1	333	291.96	87.7	53.8 - 107	
2-Nitrophenol	1	333	286.39	86	44.2 - 113	
3&4-Methyl Phenol	1	333	249.22	74.8	50.5 - 115	
3,3-Dichlorobenzidine	1	333	206.00	61.9	21 - 101	
3-Nitroaniline	1	333	256.00	76.9	34.7 - 103	
4,6-Dinitro-2-methylphenol	1	333	322.02	96.7	23.1 - 119	
4-Bromophenyl-phenylether	1	333	288.73	86.7	51.4 - 110	
4-Chloro-3-methylphenol	1	333	275.22	82.6	51.1 - 113	
4-Chloroaniline	1	333	206.16	61.9	24.5 - 101	
4-Chlorophenyl-phenylether	1	333	282.22	84.8	48.1 - 108	
4-Nitroaniline	1	333	281.45	84.5	38.6 - 133	
4-Nitrophenol	1	333	275.65	82.8	34.8 - 109	
Azobenzene	1	333	229.92	69	46.4 - 109	
Benzoic Acid	1	333	81.327	24.4	0 - 82	
Benzyl Alcohol	1	333	221.18	66.4	49.1 - 105	
Benzylbutyl phthalate	1	333	262.81	78.9	47.5 - 115	
Bis(2-chlorethoxy)methane	1	333	213.58	64.1	44.9 - 108	
Bis(2-chloroethyl)ether	1	333	175.13	52.6	32.5 - 112	
Bis(2-chloroisopropyl)ether	1	333	221.48	66.5	40.4 - 99	
Bis(2-ethylhexyl)phthalate	1	333	265.14	79.6	48.1 - 116	
Carbazole	1	333	281.23	84.5	52.4 - 102	
Dibenzofuran	1	333	279.72	84	48.6 - 104	
Diethyl phthalate	1	333	296.35	89	52 - 112	
Dimethyl phthalate	1	333	298.93	89.8	51.4 - 108	
Di-n-butyl phthalate	1	333	299.19	89.8	49.7 - 113	

Parameters in bold text are reported in this SDG

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Mt. Juliet, TN 37122
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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Di-n-octyl phthalate	1	333	262.32	78.8	49.6 - 112	
Hexachloro-1,3-butadiene	1	333	271.69	81.6	41.5 - 112	
Hexachlorobenzene	1	333	290.03	87.1	43.2 - 104	
Hexachloroethane	1	333	228.05	68.5	36.2 - 103	
Isophorone	1	333	261.23	78.4	28.8 - 104	
Nitrobenzene	1	333	226.71	68.1	40.7 - 109	
n-Nitrosodimethylamine	1	333	174.69	52.5	18.1 - 122	
n-Nitrosodi-n-propylamine	1	333	195.32	58.7	43.3 - 109	
n-Nitrosodiphenylamine	1	333	266.51	80	48.8 - 107	
Pentachlorophenol	1	333	306.25	92	16.2 - 102	
Phenol	1	333	217.37	65.3	41.5 - 106	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	333	238.49	71.6	249.59	75	39.8 - 100		4.55	20	
2,4,5-Trichlorophenol	1	333	282.47	84.8	296.16	88.9	43.3 - 110		4.73	20	
2,4,6-Trichlorophenol	1	333	294.30	88.4	317.77	95.4	44.4 - 108		7.67	20	
2,4-Dichlorophenol	1	333	263.78	79.2	280.28	84.2	46.2 - 109		6.07	20	
2,4-Dimethylphenol	1	333	250.30	75.2	262.33	78.8	42.2 - 110		4.69	20	
2,4-Dinitrophenol	1	333	258.74	77.7	252.98	76	10 - 105		2.25	36.5	
2,4-Dinitrotoluene	1	333	280.92	84.4	299.77	90	53 - 112		6.49	20	
2,6-Dinitrotoluene	1	333	281.85	84.6	304.28	91.4	51.6 - 110		7.65	20	
2-Chloronaphthalene	1	333	255.41	76.7	274.92	82.6	47.1 - 105		7.36	20	
2-Chlorophenol	1	333	224.59	67.4	230.38	69.2	40.8 - 103		2.54	20	
2-Methylphenol	1	333	203.81	61.2	218.06	65.5	42.4 - 100		6.76	20	
2-Nitroaniline	1	333	270.23	81.2	291.96	87.7	53.8 - 107		7.73	20	
2-Nitrophenol	1	333	269.46	80.9	286.39	86	44.2 - 113		6.09	20.9	
3&4-Methyl Phenol	1	333	232.02	69.7	249.22	74.8	50.5 - 115		7.15	20	
3,3-Dichlorobenzidine	1	333	195.60	58.7	206.00	61.9	21 - 101		5.18	22	
3-Nitroaniline	1	333	238.69	71.7	256.00	76.9	34.7 - 103		7	20.7	
4,6-Dinitro-2-methylphenol	1	333	295.46	88.7	322.02	96.7	23.1 - 119		8.6	23.7	
4-Bromophenyl-phenylether	1	333	263.56	79.1	288.73	86.7	51.4 - 110		9.11	20	
4-Chloro-3-methylphenol	1	333	251.16	75.4	275.22	82.6	51.1 - 113		9.14	20	
4-Chloroaniline	1	333	194.11	58.3	206.16	61.9	24.5 - 101		6.02	24.5	
4-Chlorophenyl-phenylether	1	333	261.03	78.4	282.22	84.8	48.1 - 108		7.8	20	
4-Nitroaniline	1	333	258.61	77.7	281.45	84.5	38.6 - 133		8.46	21.7	
4-Nitrophenol	1	333	250.82	75.3	275.65	82.8	34.8 - 109		9.43	20	
Azobenzene	1	333	211.86	63.6	229.92	69	46.4 - 109		8.17	20	
Benzoic Acid	1	333	99.445	29.9	81.327	24.4	0 - 82		20	32.5	
Benzyl Alcohol	1	333	187.97	56.4	221.18	66.4	49.1 - 105		16.2	20	
Benzylbutyl phthalate	1	333	247.98	74.5	262.81	78.9	47.5 - 115		5.81	20	
Bis(2-chlorethoxy)methane	1	333	196.30	58.9	213.58	64.1	44.9 - 108		8.43	20	
Bis(2-chloroethyl)ether	1	333	164.07	49.3	175.13	52.6	32.5 - 112		6.52	26	
Bis(2-chloroisopropyl)ether	1	333	214.89	64.5	221.48	66.5	40.4 - 99		3.02	20.7	
Bis(2-ethylhexyl)phthalate	1	333	247.50	74.3	265.14	79.6	48.1 - 116		6.88	20.5	
Carbazole	1	333	261.01	78.4	281.23	84.5	52.4 - 102		7.46	21.1	
Dibenzofuran	1	333	264.94	79.6	279.72	84	48.6 - 104		5.42	20	
Diethyl phthalate	1	333	275.85	82.8	296.35	89	52 - 112		7.17	20	
Dimethyl phthalate	1	333	274.88	82.5	298.93	89.8	51.4 - 108		8.38	20	
Di-n-butyl phthalate	1	333	276.34	83	299.19	89.8	49.7 - 113		7.94	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Di-n-octyl phthalate	1	333	246.23	73.9	262.32	78.8	49.6 - 112		6.33	22	
Hexachloro-1,3-butadiene	1	333	261.83	78.6	271.69	81.6	41.5 - 112		3.7	20	
Hexachlorobenzene	1	333	273.65	82.2	290.03	87.1	43.2 - 104		5.81	20.1	
Hexachloroethane	1	333	222.50	66.8	228.05	68.5	36.2 - 103		2.47	22.7	
Isophorone	1	333	242.99	73	261.23	78.4	28.8 - 104		7.24	20	
Nitrobenzene	1	333	221.12	66.4	226.71	68.1	40.7 - 109		2.5	21	
n-Nitrosodimethylamine	1	333	162.42	48.8	174.69	52.5	18.1 - 122		7.28	23.5	
n-Nitrosodi-n-propylamine	1	333	180.59	54.2	195.32	58.7	43.3 - 109		7.84	20	
n-Nitrosodiphenylamine	1	333	252.26	75.8	266.51	80	48.8 - 107		5.49	20	
Pentachlorophenol	1	333	282.56	84.9	306.25	92	16.2 - 102		8.05	22.9	
Phenol	1	333	207.06	62.2	217.37	65.3	41.5 - 106		4.86	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	415	<8.76	284.45	68.6	290.43	70	36.5 - 114		2.08	28.4	
2,4,5-Trichlorophenol	1	415	<10.4	334.46	80.7	353.10	85.1	37.1 - 138		5.42	26	
2,4,6-Trichlorophenol	1	415	<7.79	321.78	77.6	360.96	87	33.8 - 133		11.5	28.1	
2,4-Dichlorophenol	1	415	<7.46	314.09	75.7	325.58	78.5	34.8 - 134		3.59	27.3	
2,4-Dimethylphenol	1	415	<47.1	298.64	72	319.53	77.1	12.3 - 149		6.76	32.3	
2,4-Dinitrophenol	1	415	<98	128.90	31.1	126.06	30.4	10 - 121		2.23	39.4	
2,4-Dinitrotoluene	1	415	<6.07	292.22	70.5	334.45	80.6	27.8 - 147		13.5	29.7	
2,6-Dinitrotoluene	1	415	<7.37	299.52	72.2	327.33	78.9	36.5 - 137		8.87	29.7	
2-Chloronaphthalene	1	415	<6.27	291.39	70.3	315.81	76.2	37.5 - 123		8.04	26.5	
2-Chlorophenol	1	415	<8.31	269.75	65	268.39	64.7	33.2 - 121		0.5	29.3	
2-Methylphenol	1	415	<9.86	230.55	55.6	245.14	59.1	30.3 - 118		6.13	25.1	
2-Nitroaniline	1	415	<7.55	293.73	70.8	330.89	79.8	42.9 - 133		11.9	24	
2-Nitrophenol	1	415	<13	300.27	72.4	315.00	76	29.5 - 144		4.79	29.9	
3&4-Methyl Phenol	1	415	<7.83	274.00	66.1	291.13	70.2	33.3 - 141		6.06	25.7	
3,3-Dichlorobenzidine	1	415	<79.4	255.13	61.5	305.04	73.6	10 - 129		17.8	40	
3-Nitroaniline	1	415	<8.5	272.80	65.8	302.31	72.9	22.1 - 121		10.3	33.5	
4,6-Dinitro-2-methylphenol	1	415	<124	215.71	52	248.40	59.9	10 - 144		14.1	32.7	
4-Bromophenyl-phenylether	1	415	<11.4	277.26	66.9	321.49	77.5	39 - 130		14.8	26	
4-Chloro-3-methylphenol	1	415	<4.77	279.88	67.5	311.93	75.2	27 - 154		10.8	26.6	
4-Chloroaniline	1	415	<3.52	231.30	55.8	249.92	60.3	10 - 138		7.74	28.8	
4-Chlorophenyl-phenylether	1	415	<6.27	286.99	69.2	320.76	77.3	37.9 - 123		11.1	25.9	
4-Nitroaniline	1	415	<6.39	285.46	68.8	331.88	80	27.6 - 149		15	33.8	
4-Nitrophenol	1	415	<52.5	259.57	62.6	285.5	68.8	20 - 133		9.51	30.2	
Azobenzene	1	415	<1.41	226.42	54.6	257.28	62	37 - 131		12.8	29.9	
Benzoic Acid	1	415	<123	97.960	23.6	90.152	21.7	10 - 126		8.3	27.5	
Benzyl Alcohol	1	415	<7.5	243.46	58.7	258.28	62.3	28.4 - 149		5.91	25.3	
Benzylbutyl phthalate	1	415	<10.3	251.01	60.5	296.34	71.5	33.4 - 128		16.6	28.5	
Bis(2-chlorethoxy)methane	1	415	<7.7	231.63	55.9	241.61	58.3	35 - 132		4.22	26.1	
Bis(2-chloroethyl)ether	1	415	<8.96	191.28	46.1	200.48	48.3	28.8 - 128		4.7	33.6	
Bis(2-chloroisopropyl)ether	1	415	<7.6	239.37	57.7	246.75	59.5	31.8 - 118		3.04	31.7	
Bis(2-ethylhexyl)phthalate	1	415	<12	251.08	59.2	292.99	69.3	21.8 - 141		15.4	35.2	
Carbazole	1	415	<5.24	279.42	67.4	311.55	75.1	43.7 - 121		10.9	26.4	
Dibenzofuran	1	415	<5.18	287.17	69.2	319.87	77.1	38.8 - 122		10.8	24.6	
Diethyl phthalate	1	415	<6.91	292.25	70.5	335.32	80.9	39.4 - 136		13.7	25.5	
Dimethyl phthalate	1	415	<5.4	296.27	71.4	340.37	82.1	35.8 - 137		13.8	25.4	
Di-n-butyl phthalate	1	415	<10.9	280.84	67.7	325.96	78.6	32.2 - 133		14.9	25.9	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729568-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Di-n-octyl phthalate	1	415	<9.07	245.93	59.3	293.43	70.8	28.5 - 128		17.6	32.5	
Hexachloro-1,3-butadiene	1	415	<10	301.19	72.6	315.16	76	36.5 - 125		4.53	29.7	
Hexachlorobenzene	1	415	<8.56	290.63	70.1	326.31	78.7	34.4 - 116		11.6	25.4	
Hexachloroethane	1	415	<13.4	257.55	62.1	269.36	65	11.3 - 143		4.48	31.9	
Isophorone	1	415	<5.22	270.43	65.2	291.89	70.4	25.7 - 116		7.63	27.7	
Nitrobenzene	1	415	<6.95	259.10	62.5	263.99	63.7	30.9 - 134		1.87	27.8	
n-Nitrosodimethylamine	1	415	<64.7	204.96	49.4	194.63	46.9	19.2 - 127		5.17	32	
n-Nitrosodi-n-propylamine	1	415	<9.06	203.68	49.1	223.66	53.9	33 - 134		9.35	28.2	
n-Nitrosodiphenylamine	1	415	<5.94	270.48	65.2	300.40	72.4	26.8 - 133		10.5	25.9	
Pentachlorophenol	1	415	<48	276.20	66.6	335.75	81	10 - 139		19.5	28.3	
Phenol	1	415	<6.95	242.55	58.5	251.00	60.5	25.1 - 130		3.43	29.6	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1031_02
Analyzed: 10/31/14 110400

	IS4		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	104855	5.06	268294	8.18	618649	12.66	419551	6.32
Upper Limit	210000	5.56	537000	8.68	1240000	13.16	839000	6.82
Lower Limit	52400	4.56	134000	7.68	309000	12.16	210000	5.82
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729802-01	98977	5.06	255068	8.18	559781	12.66	392916	6.32
L729802-03	107215	5.06	275287	8.18	622404	12.66	430923	6.32
L729802-04	101681	5.06	263384	8.18	579544	12.66	412484	6.32
L729802-05	108521	5.06	274685	8.18	612583	12.66	428903	6.32
MSD WG751196	108771	5.06	277423	8.18	642020	12.66	436663	6.32
MS WG751196	101655	5.06	265240	8.18	604352	12.66	401257	6.32
LCSD WG751196	105423	5.06	271208	8.18	627443	12.66	424578	6.32
LCS WG751196	107851	5.06	276595	8.18	623239	12.66	429122	6.32
BLANK WG751196	103064	5.06	265324	8.18	571071	12.66	404260	6.32

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1031_02
Analyzed: 10/31/14 110400

	IS4		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	104855	5.06	653580	14.10	482851	9.79
Upper Limit	210000	5.56	1310000	14.60	966000	10.29
Lower Limit	52400	4.56	327000	13.60	241000	9.29
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729802-01	98977	5.06	638529	14.10	457572	9.79
L729802-03	107215	5.06	693832	14.09	493959	9.79
L729802-04	101681	5.06	642401	14.10	464740	9.79
L729802-05	108521	5.06	668234	14.09	493965	9.79
MSD WG751196	108771	5.06	709348	14.10	504582	9.79
MS WG751196	101655	5.06	664800	14.10	473067	9.79
LCSD WG751196	105423	5.06	681765	14.10	474890	9.79
LCS WG751196	107851	5.06	695529	14.10	477684	9.79
BLANK WG751196	103064	5.06	651180	14.10	465225	9.79

Legend:

IS4 -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729802-01	BNAMS4	1031_19	0.523	78.5	0.239	71.7	0.435	65.3	0.206	61.9
L729802-03	BNAMS4	1031_20	0.517	77.6	0.264	79.4	0.452	67.8	0.221	66.3
L729802-04	BNAMS4	1031_21	0.493	74.0	0.254	76.2	0.436	65.4	0.204	61.2
L729802-05	BNAMS4	1031_22	0.444	66.7	0.239	71.7	0.404	60.7	0.193	58.1
LCS WG751196	BNAMS4	1031_04	0.596	89.4	0.257	77.2	0.434	65.1	0.216	64.8
LCSD WG751196	BNAMS4	1031_05	0.642	96.4	0.269	80.8	0.462	69.4	0.225	67.5
BLANK WG751196	BNAMS4	1031_06	0.590	88.6	0.278	83.5	0.477	71.7	0.239	71.7
MS WG751196	BNAMS4	1031_14	0.505	75.8	0.225	67.7	0.436	65.5	0.199	59.8
MSD WG751196	BNAMS4	1031_15	0.576	86.5	0.252	75.5	0.430	64.5	0.206	61.9

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
FBP --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
NBZ --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
TPH --P-TERPHENYL-D14	True Value: 0.333 ppm	Limits: 21.5 - 128
PHL --PHENOL-D5	True Value: 0.666 ppm	Limits: 26.3 - 121

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec
L729802-01	BNAMS4	1031_19	0.181	54.5	0.407	61.2
L729802-03	BNAMS4	1031_20	0.201	60.4	0.397	59.6
L729802-04	BNAMS4	1031_21	0.203	60.9	0.382	57.4
L729802-05	BNAMS4	1031_22	0.195	58.6	0.353	53.0
LCS WG751196	BNAMS4	1031_04	0.232	69.6	0.409	61.4
LCSD WG751196	BNAMS4	1031_05	0.252	75.6	0.430	64.6
BLANK WG751196	BNAMS4	1031_06	0.273	81.9	0.452	67.9
MS WG751196	BNAMS4	1031_14	0.201	60.3	0.394	59.2
MSD WG751196	BNAMS4	1031_15	0.224	67.2	0.401	60.1

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.666 ppm	Limits: 21.6 - 142
FBP --2-FLUOROBIPHENYL	True Value: 0.333 ppm	Limits: 34.9 - 129
2FP --2-FLUOROPHENOL	True Value: 0.666 ppm	Limits: 21.10 - 116
NBZ --NITROBENZENE-D5	True Value: 0.333 ppm	Limits: 21.9 - 129
TPH --P-TERPHENYL-D14	True Value: 0.333 ppm	Limits: 21.5 - 128
PHL --PHENOL-D5	True Value: 0.666 ppm	Limits: 26.3 - 121

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Quality Control Summary
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URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751196**
Analysis Date:	10/31/2014	Analyst:	280
Instrument ID:	BNAMS4	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Instrument Performance Summary

FileID:1031_01.D Date:10/31/2014 Time: 10:39 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	39.0
68	Less than 2% of mass 69	0.0
69	Less than 100% of mass 198	38.3
70	Less than 2% of mass 69	0.6
127	40 - 60% of mass 198	57.1
197	Less than 1% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	26.1
365	1 - 100% of mass 198	3.9
441	Present, but less than mass 443	78.4
442	40 - 100% of mass 198	61.7
443	17 - 23% of mass 442	19.0

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG751196	LCS WG751196	1031_04.D	10/31/2014	11:49 AM
LCSD WG751196	LCSD WG751196	1031_05.D	10/31/2014	12:11 PM
Blank WG751196	Blank WG751196	1031_06.D	10/31/2014	12:33 PM
MS WG751196	MS WG751196	1031_14.D	10/31/2014	3:28 PM
MSD WG751196	MSD WG751196	1031_15.D	10/31/2014	3:49 PM
TU515-SB02-NS01	L729802-01	1031_19.D	10/31/2014	5:17 PM
TU515-SB08-NS01	L729802-03	1031_20.D	10/31/2014	5:39 PM
TU515-SB10-NS01	L729802-04	1031_21.D	10/31/2014	6:01 PM
TU515-SB10-NS02	L729802-05	1031_22.D	10/31/2014	6:22 PM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Pyridine		2.228	2.214	2.227	2.236	2.257	2.270	2.295	2.258	2.248075	1.20
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138	1.141807	2.22
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.420	1.410171	1.13
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828	0.851797	2.68
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139	1.181458	2.48
Phenol-d5	1.725	1.721	1.694	1.710	1.714	1.730	1.728	1.738	1.713	1.719207	0.77
Phenol	1.811	1.807	1.750	1.780	1.778	1.774	1.759	1.766	1.730	1.772807	1.44
Benzaldehyde										0.795692	14.13
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528	1.543597	1.10
n-Decane	0.981	1.089	0.910	0.931	0.883	0.884	0.874	0.868	0.839	0.917693	8.32
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641	1.707399	3.06
1,4-Dichlorobenzene	1.812	1.860	1.744	1.739	1.746	1.724	1.698	1.706	1.665	1.743632	3.40
Benzyl Alcohol	1.462	1.326	1.247	1.270	1.267	1.284	1.279	1.275	1.241	1.294708	5.21
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612	1.668855	3.66
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.500	0.493	0.485	0.481	0.479	0.467	0.499842	6.29
2-Methylphenol	1.392	1.467	1.390	1.395	1.395	1.403	1.388	1.382	1.350	1.395623	2.20
Hexachloroethane	0.719	0.786	0.746	0.753	0.750	0.752	0.748	0.753	0.737	0.749248	2.35
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.160	1.125	1.140	1.139	1.122	1.098	1.172866	8.03
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554	1.602019	2.46
Acetophenone										1.986257	3.28
Nitrobenzene-d5	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386	0.387149	2.67
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.380	0.382	0.381908	2.46
Isophorone	0.702	0.692	0.680	0.666	0.672	0.646	0.657	0.650	0.660	0.669338	2.84
2-Nitrophenol	0.169	0.172	0.180	0.189	0.192	0.195	0.203	0.202	0.205	0.189632	7.10
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351	0.358235	5.04
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429	0.439422	2.80
2,4-Dichlorophenol	0.286	0.300	0.298	0.304	0.309	0.298	0.306	0.302	0.304	0.300699	2.24
Benzoic Acid										0.151698	42.89

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327	0.335694	2.51
Naphthalene	1.428	1.237	1.180	1.160	1.140	1.105	1.114	1.092	1.090	1.171698	9.14
4-Chloroaniline	0.170	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141	0.146071	6.21
Hexachloro-1,3-butadiene	0.200	0.192	0.192	0.188	0.190	0.181	0.183	0.180	0.182	0.187371	3.47
Caprolactam										0.104014	7.45
4-Chloro-3-methylphenol	0.372	0.330	0.345	0.335	0.342	0.339	0.343	0.332	0.342	0.342260	3.59
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.800	0.780	0.788	0.811601	3.21
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737	0.754239	2.61
1,2,4,5-Tetrachlorobenzene										0.314824	3.96
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.320	0.329	0.281437	15.42
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364	0.323592	9.32
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384	0.361584	4.65
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332	1.352083	3.48
Biphenyl	1.541	1.549	1.511	1.510	1.494	1.404	1.445	1.463	1.495	1.490241	3.11
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.200	1.123	1.162	1.180	1.189	1.190576	2.71
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427	0.394946	5.53
Acenaphthylene	1.991	2.050	2.003	1.988	1.989	1.867	1.898	1.923	1.940	1.960811	2.96
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.340	1.364	1.344966	3.71
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324	0.302416	7.53
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374	0.352789	4.86
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.210	1.225	1.237	1.243239	2.75
2,4-Dinitrophenol		0.024	0.040	0.074	0.090	0.127	0.148	0.151		0.093552	54.46
Dibenzofuran	1.789	1.819	1.771	1.752	1.750	1.639	1.667	1.670	1.698	1.728445	3.59
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.440	0.448	0.404777	9.12
2,3,4,6-Tetrachlorophenol										0.218549	13.17
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292	0.255411	15.53
Fluorene	1.484	1.497	1.461	1.445	1.430	1.342	1.382	1.392	1.419	1.428026	3.52
4-Chlorophenyl-phenylether	0.632	0.668	0.640	0.634	0.628	0.587	0.597	0.598	0.613	0.621966	4.08
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524	1.459810	3.97

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Quality Control Summary
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Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396	0.360866	9.44
Azobenzene	1.718	1.549	1.480	1.447	1.448	1.390	1.468	1.455	1.486	1.493501	6.31
Atrazine										0.310950	6.43
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.130	0.105858	23.36
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679	0.677630	3.59
2,4,6-Tribromophenol		0.082	0.081	0.090	0.095	0.090	0.096	0.097	0.096	0.090757	6.98
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206	0.207510	3.99
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227	0.234009	4.63
n-octadecane		0.154	0.147	0.149	0.149	0.130	0.133	0.139	0.137	0.142223	6.07
Pentachlorophenol			0.058	0.083	0.101	0.110	0.124	0.125	0.129	0.104303	24.88
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.190	1.190	1.184194	2.71
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201	1.212236	2.40
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188	1.179606	2.39
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581	1.605175	2.29
2-nitrodiphenylamine										0.273249	14.12
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.360	1.452	1.369	1.394	1.396444	2.20
Benzidine										0.633502	24.41
Pyrene	1.304	1.289	1.285	1.230	1.339	1.199	1.204	1.283	1.233	1.262762	3.82
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935	0.970733	4.21
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.650	0.656	0.698	0.681	0.681274	3.99
3,3-Dichlorobenzidine										0.451703	7.03
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311	1.310123	5.42
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156	1.188156	4.31
bis(2-Ethylhexyl)phthalate	1.280	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021	1.055885	8.71
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.780	1.764	1.872	1.695	1.832351	4.70
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442	1.274600	6.05
Benzo(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.080	1.069	1.104	1.066	1.157063	6.62
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.210	1.237	1.193219	2.56
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338	1.313944	4.43

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS4
Method Name : S804J16N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129	1.096851	5.78
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.020	1.028	1.107	1.094	1.090373	4.59

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/31/2014
FileName : 1031_02.D Time : 11:04 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.1418	0.8368	26.7		
Bis(2-chloroethyl)ether	1.1815	0.8748	26		
Phenol	1.7728	1.4969	15.6		
2-Chlorophenol	1.5436	1.4968	3.03		
1,4-Dichlorobenzene	1.7436	1.7356	0.46		
Benzyl Alcohol	1.2947	1.0710	17.3		
Bis(2-chloroisopropyl)ether	0.4998	0.4391	12.2		
2-Methylphenol	1.3956	1.2082	13.4		
Hexachloroethane	0.7492	0.7490	0.04		
n-Nitrosodi-n-propylamine	1.1729	0.8822	24.8	>0.05	
3&4-Methyl Phenol	1.6020	0.6916	56.8		
Nitrobenzene	0.3819	0.3592	5.94		
Isophorone	0.6693	0.6013	10.2		
2-Nitrophenol	0.1896	0.2083	9.86		
2,4-Dimethylphenol	0.3582	0.2771	22.7		
Bis(2-chlorethoxy)methane	0.4394	0.3751	14.6		
2,4-Dichlorophenol	0.3007	0.3328	10.7		
1,2,4-Trichlorobenzene	0.3357	0.3626	8.01		
4-Chloroaniline	0.1461	0.1256	14		
Hexachloro-1,3-butadiene	0.1874	0.2240	19.6		
4-Chloro-3-methylphenol	0.3423	0.3346	2.23		
Hexachlorocyclopentadiene	0.2814	0.2289	18.7	>0.05	
2,4,6-Trichlorophenol	0.3236	0.3663	13.2		
2,4,5-Trichlorophenol	0.3616	0.4083	12.9		
2-Chloronaphthalene	1.1906	1.2112	1.73		
2-Nitroaniline	0.3949	0.4002	1.34		
Dimethyl phthalate	1.3450	1.4113	4.93		
2,6-Dinitrotoluene	0.3024	0.3261	7.83		
3-Nitroaniline	0.3528	0.3433	2.69		
Acenaphthene	1.2432	1.2537	0.84		
2,4-Dinitrophenol	0.0936	0.1725	84.4	>0.05	**

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/31/2014
FileName : 1031_02.D Time : 11:04 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.7284	1.7631	2.01		
2,4-Dinitrotoluene	0.4048	0.4372	8		
4-Nitrophenol	0.2554	0.2549	0.19	>0.05	**
4-Chlorophenyl-phenylether	0.6220	0.6484	4.25		
Diethyl phthalate	1.4598	1.5465	5.94		
4-Nitroaniline	0.3609	0.3532	2.12		
1,2-Diphenylhydrazine	1.4935	1.2444	16.7		
4,6-Dinitro-2-methylphenol	0.1059	0.1335	26.1		**
n-Nitrosodiphenylamine	0.6776	0.6680	1.42		
4-Bromophenyl-phenylether	0.2075	0.2077	0.09		
Hexachlorobenzene	0.2340	0.2308	1.35		
Pentachlorophenol	0.1043	0.1214	16.4		**
Carbazole	1.1796	1.1634	1.37		
Di-n-butyl phthalate	1.6052	1.6692	3.99		
Fluoranthene	1.3964	1.3952	0.09		
Benzylbutyl phthalate	0.6813	0.6363	6.6		
Bis(2-ethylhexyl)phthalate	1.0559	0.9651	8.6		
Di-n-octyl phthalate	1.8324	1.7361	5.25		
Benzo(a)pyrene	1.1932	1.1610	2.7		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: BNAMS4

Method Name : S804J16N.M Date : 10/31/2014
FileName : 1031_03.D Time : 11:27 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1517	0.2111	39.1	**

*** - calibrated by linear regression*

Raw Data

BNA SS Extractions Benchsheet

Batch #: WG751196

Analyst: DLT573 **Prep Start Date/Time:** 10/30/14 07:42:20 **Prep End Date/Time:** 10/30/14 09:20:23

Na2SO4: 14I15522 Exp. Date:03/15/15 **MeCl2:** 14J11832 Exp. Date:04/11/15 **Surrogate:** 14J29852 Amt. Used: 0.50 mL Exp. Date:01/29/15

LCS/MS Spike: 14J29853 Amt. Used: 0.50 mL Exp. Date:10/31/14

Sample Number	Qualifiers	Wet Weight Extracted(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		15	Sand	25	0.5	Colorless	
LCS		15	Sand	25	0.5	Colorless	
LCSD		15	Sand	25	0.5	Colorless	
MS(L729568-02)		15	Sand	25	0.5	Colorless	
MSD(L729568-02)		15	Sand	25	0.5	Colorless	
1. L729566-01		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
2. L729566-02		15	Dirt	25	0.5	Yellow	EDD/QC4/DOD
3. L729566-03		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
4. L729566-05		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
5. L729566-06		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
6. L729568-01		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
7. L729568-02		15	Sand	25	0.5	Colorless	MS/MSD this sample. EDD/QC4/DOD
8. L729568-04		15	Sand	25	0.5	Colorless	EDD/QC4/DOD
9. L729568-05		15	Sand	25	0.5	Colorless	EDD/QC4/DOD,wet
10. L729650-13		15	Dirt	25	0.5	Yellow	
11. L729650-14		15	Clay	25	0.5	Orange	
12. L729706-01		15	Sand	25	0.5	Orange	
13. L729802-01		15	Clay	25	0.5	Colorless	EDD/QC4

14. L729802-03		15	Clay	25	0.5	Colorless	EDD/QC4
15. L729802-04		15	Clay	25	0.5	Colorless	EDD/QC4
16. L729802-05		15	Clay	25	0.5	Colorless	EDD/QC4
17. L729819-02		15	Dirt	25	5	Dark-brown	
18. L729819-06		15	Clay	25	5	Dark-brown	
19. L729819-09		15	Clay	25	5	Dark-brown	
20. L729819-12		15	Sand	25	0.5	Orange	

Comments:

Reviewed By:CJM526 on 10/31/14 13:02:00

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH

Released By : Allen Fuller
Date Released : 11/3/2014 11:21:27 AM

Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1031_00	INSTBLK	S804J16N						1	1	10/31/14 1018	"instrument blank"
2	1031_01	TUNE 50 PPM 14F19703	TUNEC						1	1	10/31/14 1039	"DFTPP"
3	1031_01T	TUNE 50 PPM 14F19703								1	10/31/14 1039	
4	1031_02	ICV SVMS 10K PPB 14G09881	S804J16N						1	1	10/31/14 1104	"8270 Primary Standard"
5	1031_03	ICV TCL 10K1 PPB 14G09882	S804J16N						1	1	10/31/14 1127	"8270 TCL Standard"
6	1031_04	LCS	S804J16N	WG751196	SV8270	SS			1	0.0333	10/31/14 1149	"soil 14J29852/14J29853"
7	1031_05	LCSD	S804J16N	WG751196	SV8270	SS			1	0.0333	10/31/14 1211	"soil 14J29852/14J29853"
8	1031_06	BLANK	S804J16N	WG751196	SV8270	SS			1	0.0333	10/31/14 1233	"soil 14J29852/14J29853"
9	1031_07	L729566-01	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1255	"soil 14J29852/14J29853"
10	1031_08	L729566-02	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1316	"soil 14J29852/14J29853"
11	1031_09	L729566-03	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1338	"soil 14J29852/14J29853"
12	1031_10	L729566-05	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1400	"soil 14J29852/14J29853"
13	1031_11	L729566-06	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1422	"soil 14J29852/14J29853"
14	1031_12	L729568-01	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1444	"soil 14J29852/14J29853"
15	1031_13	L729568-02	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1506	"soil 14J29852/14J29853"
16	1031_14	MS	S804J16N	WG751196	SV8270	SS			1	0.0333	10/31/14 1528	"soil 14J29852/14J29853"
17	1031_15	MSD	S804J16N	WG751196	SV8270	SS			1	0.0333	10/31/14 1549	"soil 14J29852/14J29853"
18	1031_16	L729568-04	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1611	"soil 14J29852/14J29853"
19	1031_17	L729568-05	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1633	"soil 14J29852/14J29853"
20	1031_18	L729650-13	S804J16N	WG751196	SV8270	SS	LITENGNTN	TN	1	0.0333	10/31/14 1655	"soil 14J29852/14J29853"
21	1031_19	L729802-01	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1717	"soil 14J29852/14J29853"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Allen Fuller
Date Released : 11/3/2014 11:21:27 AM
Run ID : 103114
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1031_20	L729802-03	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1739	"soil 14J29852/14J29853"
23	1031_21	L729802-04	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1801	"soil 14J29852/14J29853"
24	1031_22	L729802-05	S804J16N	WG751196	SV8270	SS	URSTAZ	NM	1	0.0333	10/31/14 1822	"soil 14J29852/14J29853"
25	1031_23	L729706-01	S804J16N	WG751196	SV8270	SS	LTENVRCO	CO	1	0.0333	10/31/14 1844	"soil 14J29852/14J29853"
26	1031_24	L729819-12	S804J16N	WG751196	SV8270	SS	BNSF4TRC	CA	1	0.0333	10/31/14 1906	"soil 14J29852/14J29853"
27	1031_25	L729650-14	S804J16N	WG751196	SV8270	SS	LITENGNTN	TN	1	0.0333	10/31/14 1928	"soil 14J29852/14J29853"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:02 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

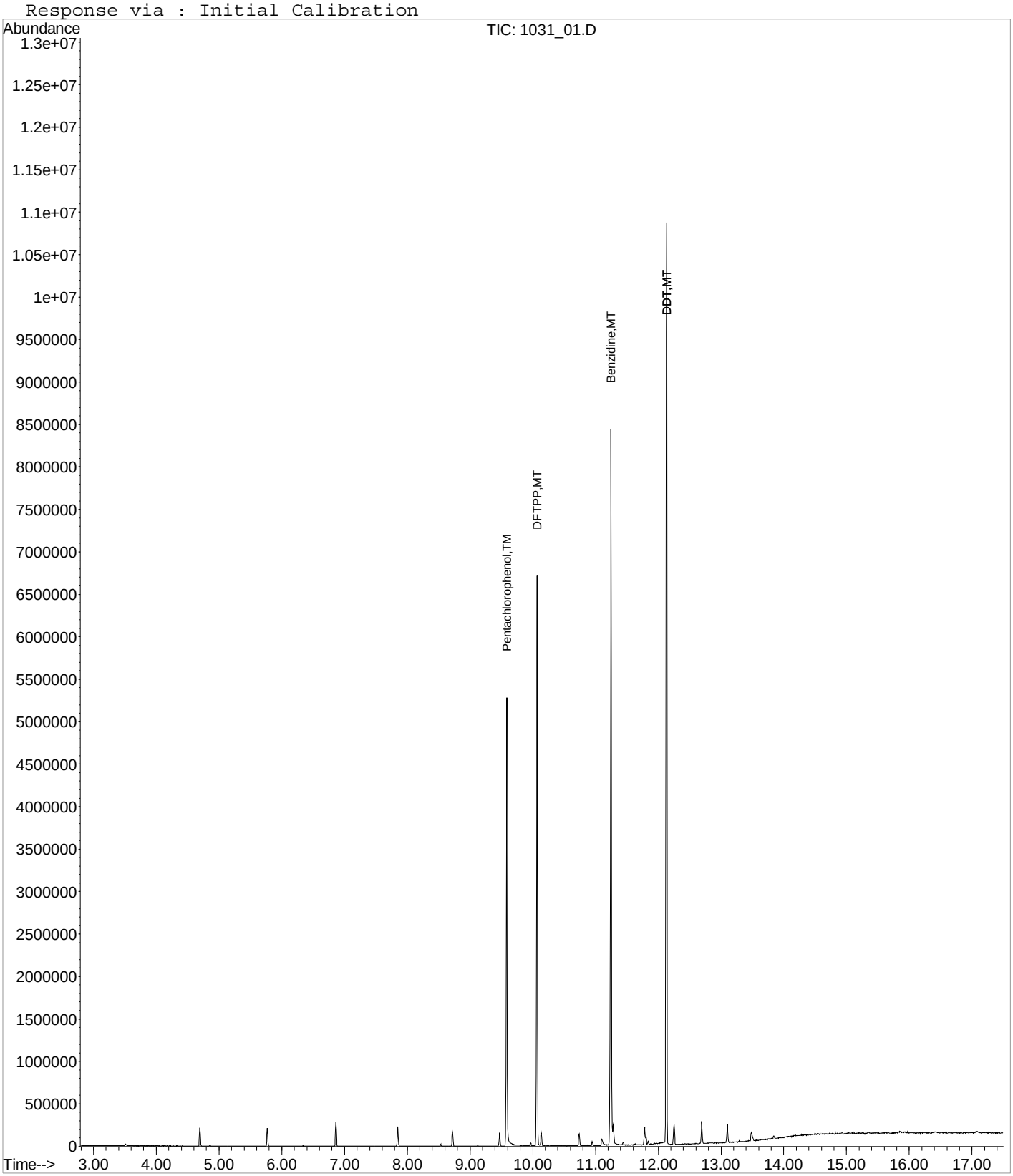
Target Compounds					Qvalue
1) Pentachlorophenol	9.58	264	333987	24.0643017 ug/mL	100
2) DFTPP	10.07	198	681367	28.5414424 ug/mL	100
3) Benzidine	11.25	184	3767900	25.6261084 ug/mL	100
4) DDT	12.13	TIC	10699422	163.3444678 ug/ml	100
5) DDT	12.13	235	1927773	143.2625953 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:02 2014 Quant Results File: TUNEC.RES

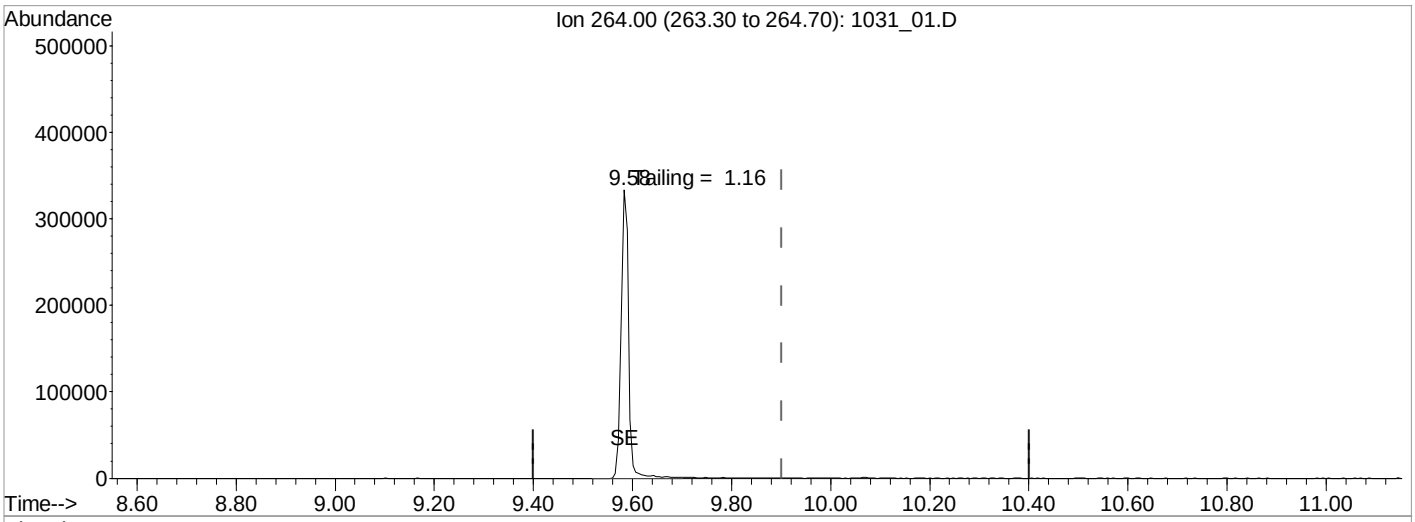
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration

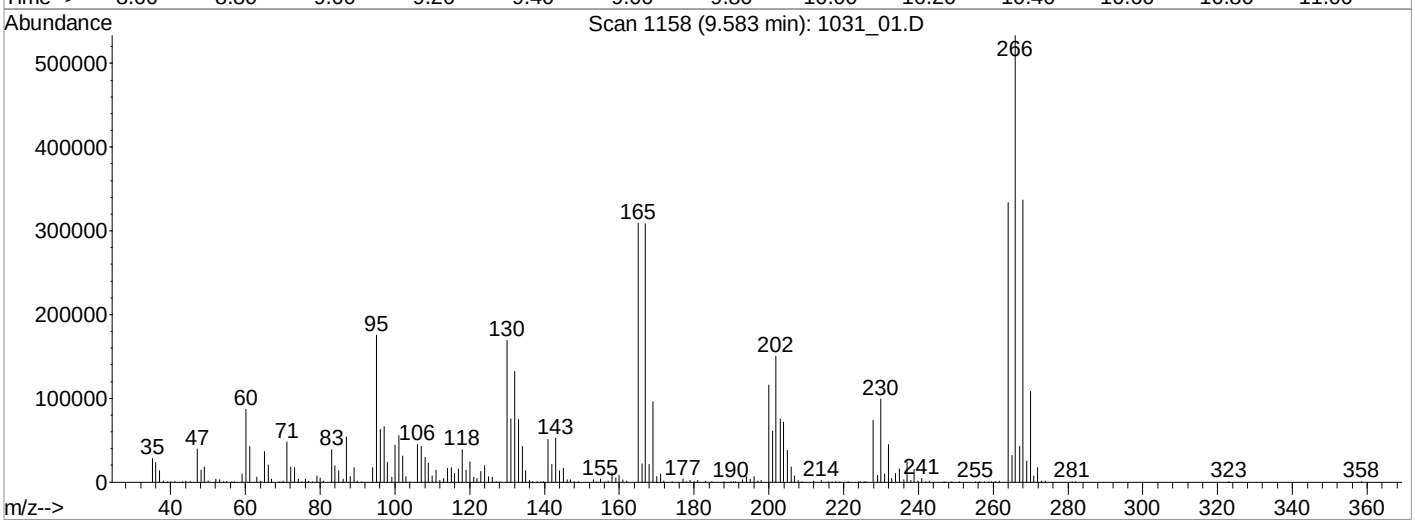


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:02 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1031_01.D

(1) Pentachlorophenol (TM)

9.58min (-0.317) 24.0643017 ug/mL

Qvalue = 100

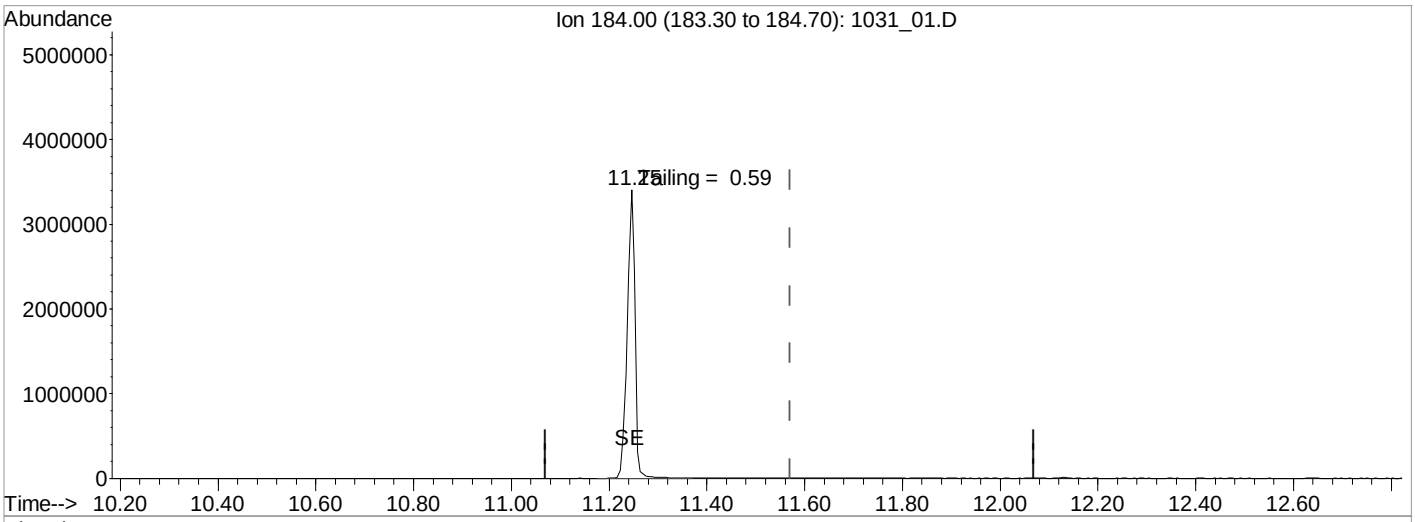
response 333987

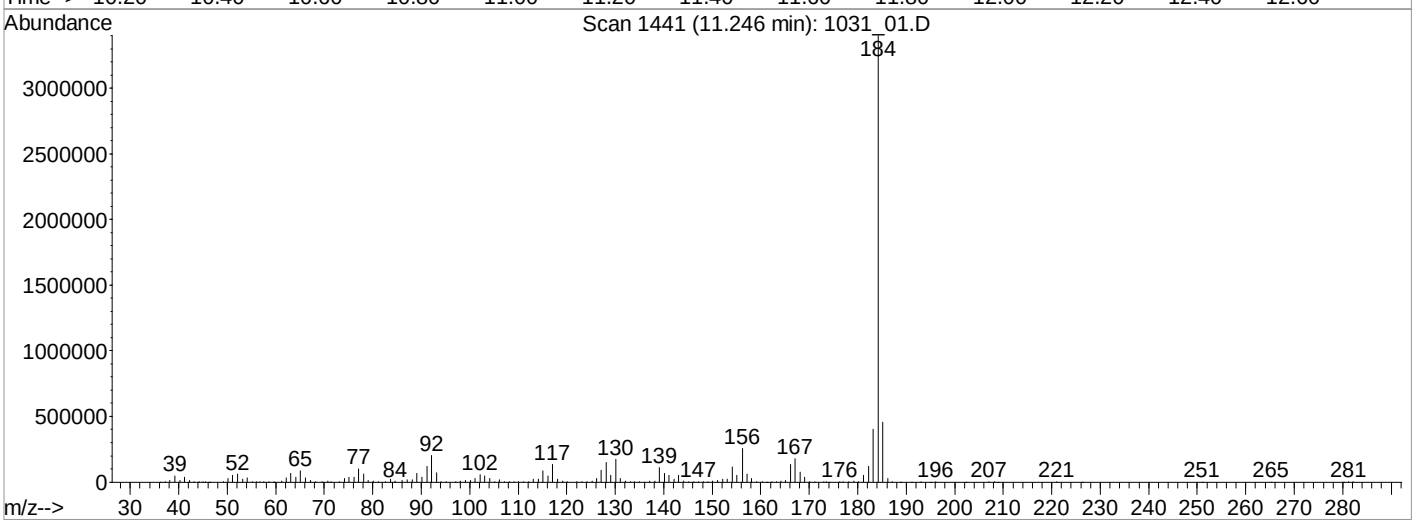
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:02 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1031_01.D

(3) Benzidine (MT)

11.25min (-0.323) 25.6261084 ug/mL

Qvalue = 100

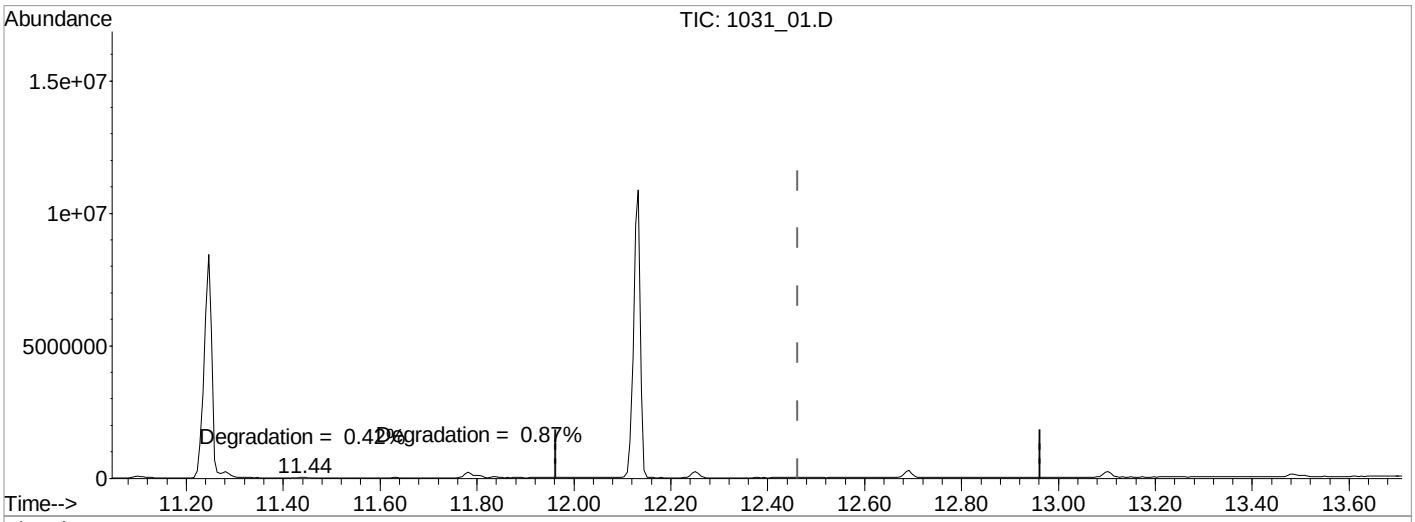
response 3767900

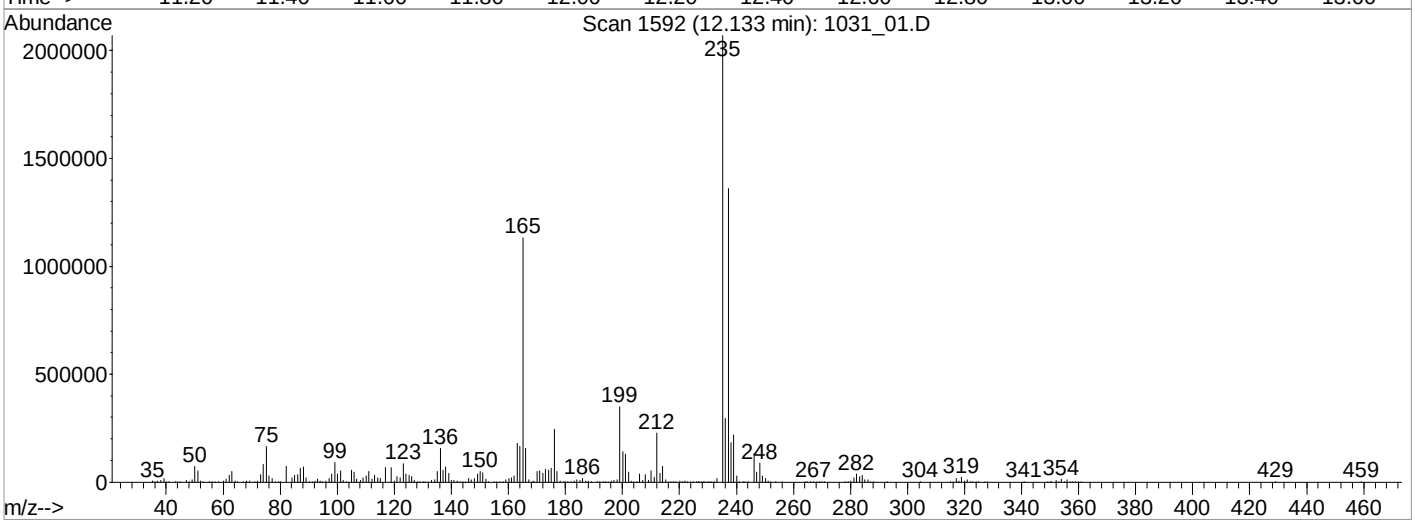
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:02 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1031_01.D

(4) DDT (MT)

12.13min (-0.329) 163.3444678 ug/ml

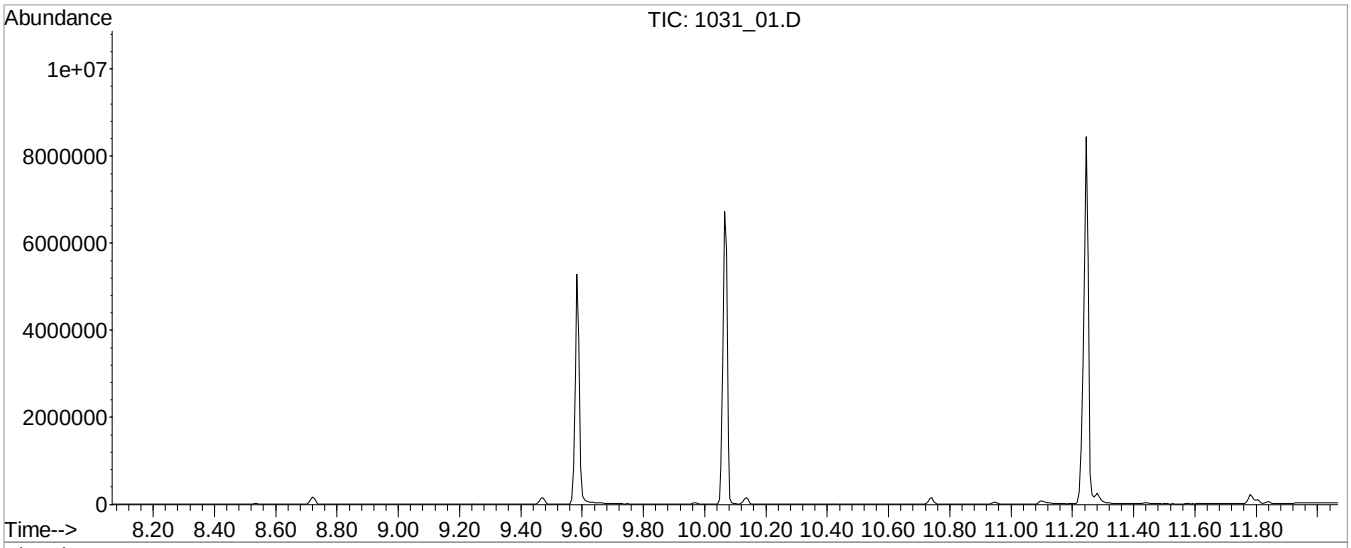
Qvalue = 100

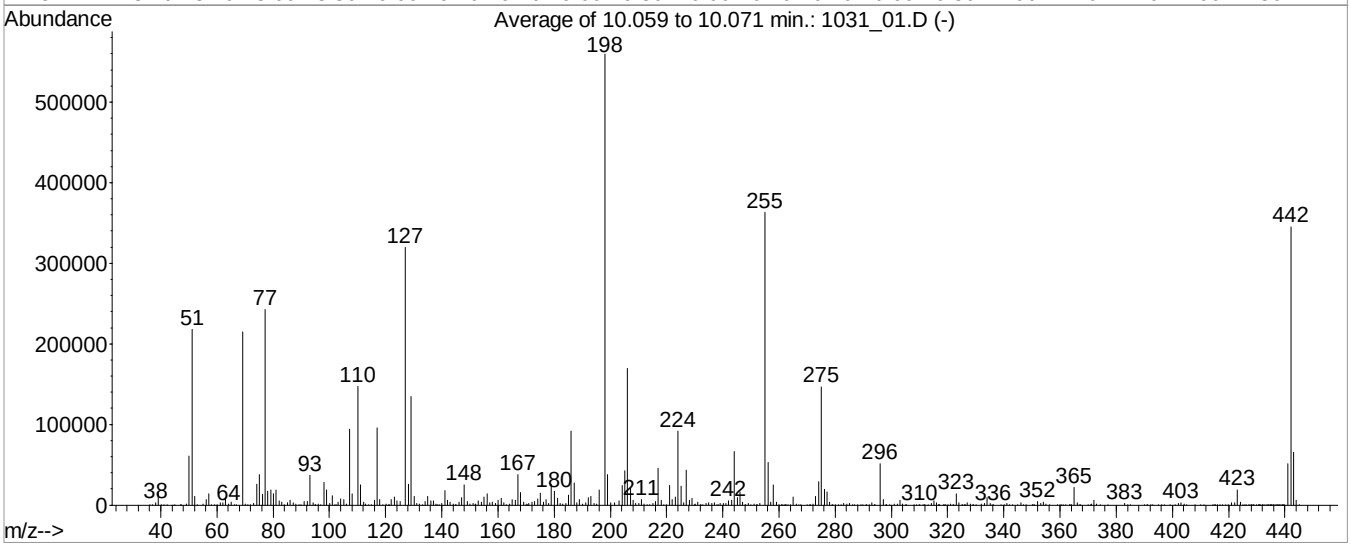
response 10699422

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\103114\1031 01.D Vial: 1
Acq On : 31 Oct 2014 10:39 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA





Spectrum Information: Average of 10.059 to 10.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	218218	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.3	214613	PASS
70	69	0.00	2	0.6	1198	PASS
127	198	40	60	57.1	319616	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	559744	PASS
199	198	5	9	6.8	37973	PASS
275	198	10	30	26.1	146354	PASS
365	198	1	100	3.9	22099	PASS
441	443	0.01	100	78.4	51482	PASS
442	198	40	100	61.7	345344	PASS
443	442	17	23	19.0	65693	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	104855	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	419551	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	268294	8000.00 ppb	-0.01
64) Phenanthrene-d10	9.79	188	482851	8000.00 ppb	-0.01
78) Chrysene-d12	12.66	240	618649	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	653580	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	173494	9386.7153564 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 46933.58%#		
7) Phenol-d5	4.71	99	197090	8746.5583927 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 43732.79%#		
23) Nitrobenzene-d5	5.59	82	187260	9222.9871769 ppb	-0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 92229.87%#		
44) 2-Fluorobiphenyl	7.45	172	474516	10464.6908359 ppb	-0.01
Spiked Amount 10.000	Range 35 - 133		Recovery = 104646.91%#		
67) 2,4,6-Tribromophenol	9.04	330	58642	10705.5089569 ppb	-0.01
Spiked Amount 20.000	Range 22 - 154		Recovery = 53527.54%#		
81) p-Terphenyl-d14	11.50	244	705136	9393.3165857 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 93933.17%#		

Target Compounds						Qvalue
2) Pyridine	2.98	79	172910	5868.2702218 ppb		94
3) N-Nitrosodimethylamine	2.96	42	109679	7328.7789599 ppb	#	77
5) Aniline	4.77	66	88764	7950.6349280 ppb		96
6) bis(2-Chloroethyl)ether	4.82	63	114655	7404.1565468 ppb		88
8) Phenol	4.72	94	196197	8443.6779451 ppb		91
9) Benzaldehyde	4.70	105	596	57.1481109 ppb	#	15
10) 2-Chlorophenol	4.88	128	196185	9696.8944809 ppb		93
11) n-Decane	4.90	41	104211	8663.9730229 ppb	#	98
12) 1,3-Dichlorobenzene	5.02	146	224287	10022.3598603 ppb		99
13) 1,4-Dichlorobenzene	5.08	146	227479	9953.7630019 ppb		96
14) Benzyl Alcohol	5.18	79	140377	8272.2759906 ppb		95
15) 1,2-Dichlorobenzene	5.22	146	217605	9948.3525471 ppb		95
16) bis(2-Chloroisopropyl)ethe	5.31	121	57551	8784.5868268 ppb		99
17) 2-Methylphenol	5.28	108	158361	8657.2720279 ppb		97
18) Hexachloroethane	5.55	117	98165	9996.1274265 ppb		95
19) N-Nitrosodi-n-propylamine	5.43	70	115625	7521.4970074 ppb		91
20) 3&4-Methyl phenol	5.42	107	181290	8633.8996949 ppb		95
21) Acetophenone	5.42	105	2028	77.8992575 ppb	#	1
24) Nitrobenzene	5.61	77	188396	9406.2851336 ppb		95
25) Isophorone	5.84	82	315367	8984.1231472 ppb		100
26) 2-Nitrophenol	5.93	139	109256	10985.9653473 ppb		85
27) 2,4-Dimethylphenol	5.95	107	145298	7733.8649613 ppb		95
28) bis(2-Chlorethoxy)methane	6.05	93	196697	8535.3437616 ppb		94
29) 2,4-Dichlorophenol	6.16	162	174518	11066.5963193 ppb		97
30) Benzoic Acid	5.95	105	4499	2595.6204310 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.26	180	190159	10801.3540181 ppb		96
32) Naphthalene	6.34	128	592482	9641.9465826 ppb		98
33) 4-Chloroaniline	6.39	65	65877	8599.5337488 ppb		88
34) Hexachloro-1,3-butadiene	6.46	225	117497	11957.2124921 ppb		95
35) Caprolactam	6.89	113	5942	1089.2966005 ppb	#	16
36) 4-Chloro-3-methylphenol	6.89	107	175495	9777.1919120 ppb		98
37) 2-Methylnaphthalene	7.07	142	426960	10031.1280182 ppb	#	97
38) 1-Methylnaphthalene	7.17	142	393006	9935.6312857 ppb	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

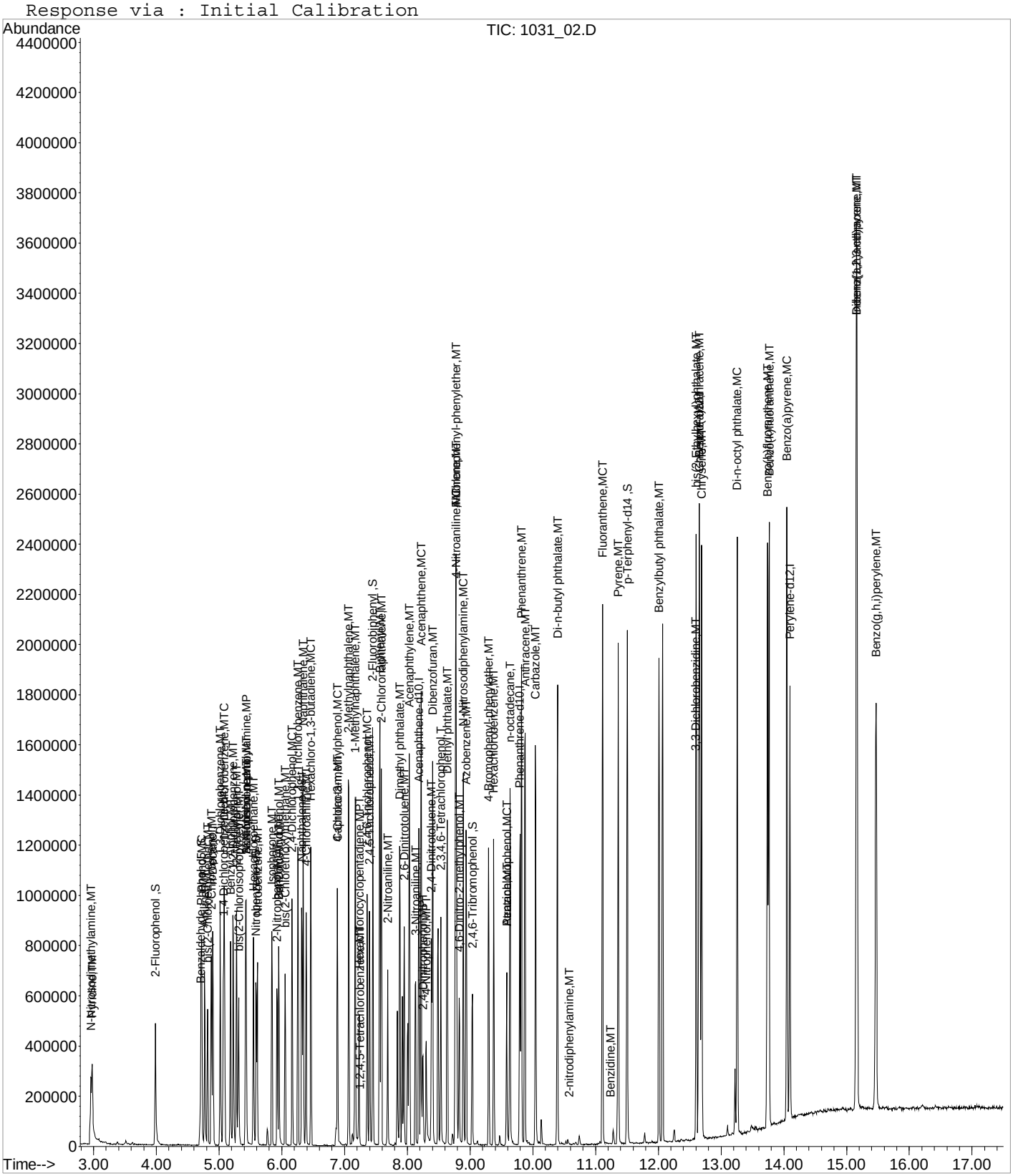
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	247	14.9600896 ppb	#	83
41)	Hexachlorocyclopentadiene	7.23	237	76776	8134.3602512 ppb		99
42)	2,4,6-Trichlorophenol	7.36	196	122835	11318.8917924 ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	136919	11291.0414147 ppb		96
45)	Biphenyl	7.56	154	507591	10156.3235154 ppb		99
46)	2-Chloronaphthalene	7.59	162	406196	10173.1988305 ppb		97
47)	2-Nitroaniline	7.69	138	134225	10133.8560438 ppb	#	90
48)	Acenaphthylene	8.03	152	665640	10122.3838117 ppb		99
49)	Dimethyl phthalate	7.88	163	473307	10493.2657261 ppb		96
50)	2,6-Dinitrotoluene	7.95	165	109359	10782.7210110 ppb		90
51)	3-Nitroaniline	8.13	138	115135	9731.3167456 ppb	#	82
52)	Acenaphthene	8.22	153	420437	10083.8243721 ppb		98
53)	2,4-Dinitrophenol	8.25	184	57849	13300.5719057 ppb	#	90
54)	Dibenzofuran	8.40	168	591291	10200.5789316 ppb		94
55)	2,4-Dinitrotoluene	8.38	165	146608	10799.9173027 ppb		95
56)	2,3,4,6-Tetrachlorophenol	8.53	232	104546	14263.9102313 ppb		84
57)	4-Nitrophenol	8.30	139	85495	9734.3724954 ppb	#	86
58)	Fluorene	8.78	166	490517	10242.2879257 ppb		97
59)	4-Chlorophenyl-phenylether	8.77	204	217458	10425.2731673 ppb		91
60)	Diethyl phthalate	8.64	149	518661	10594.1559206 ppb		99
61)	4-Nitroaniline	8.78	138	118452	9787.5790979 ppb	#	75
62)	Azobenzene	8.94	77	417337	8332.2128510 ppb		93
63)	Atrazine	9.58	200	14462	1386.8089693 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	80556	11674.0951086 ppb		88
66)	N-Nitrosodiphenylamine	8.90	169	403205	9858.4776956 ppb		98
68)	4-Bromophenyl-phenylether	9.30	248	125361	10009.2315333 ppb		92
69)	Hexachlorobenzene	9.38	284	139331	9864.8779038 ppb		99
70)	n-octadecane	9.64	55	69692	8118.7703507 ppb		93
71)	Pentachlorophenol	9.58	266	73297	10871.1312305 ppb		92
72)	Phenanthrene	9.82	178	691254	9671.4533655 ppb		95
73)	Anthracene	9.88	178	700051	9567.9563956 ppb		99
74)	Carbazole	10.04	167	702192	9862.6979417 ppb		99
75)	Di-n-butyl phthalate	10.39	149	1007452	10398.6965723 ppb		99
76)	2-nitrodiphenylamine	10.58	167	122	7.3973813 ppb	#	100
77)	Fluoranthene	11.11	202	842122	9991.4431400 ppb		99
79)	Benzidine	11.23	184	702	748.0800250 ppb		91
80)	Pyrene	11.36	202	887131	9084.7298043 ppb		98
82)	Benzylbutyl phthalate	12.01	149	492040	9339.5150009 ppb		95
83)	3,3-Dichlorobenzidine	12.59	252	121	3.4639989 ppb	#	11
84)	Benzo(a)anthracene	12.65	228	895514	8839.0598026 ppb		94
85)	Chrysene	12.69	228	814561	8865.3515654 ppb		96
86)	bis(2-Ethylhexyl)phthalate	12.60	149	746289	9139.7882719 ppb		98
87)	Di-n-octyl phthalate	13.26	149	1342559	9474.8086483 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	970272m	9317.7424190 ppb		
90)	Benzo(k)fluoranthene	13.77	252	967134m	10231.0623078 ppb		
91)	Benzo(a)pyrene	14.05	252	948537	9730.2808383 ppb		91
92)	Indeno(1,2,3-cd)pyrene	15.16	276	1151431	10726.3564426 ppb		85
93)	Dibenz(a,h)anthracene	15.16	278	996049	11115.3752882 ppb		90
94)	Benzo(g,h,i)perylene	15.47	276	946376	10623.8003379 ppb		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

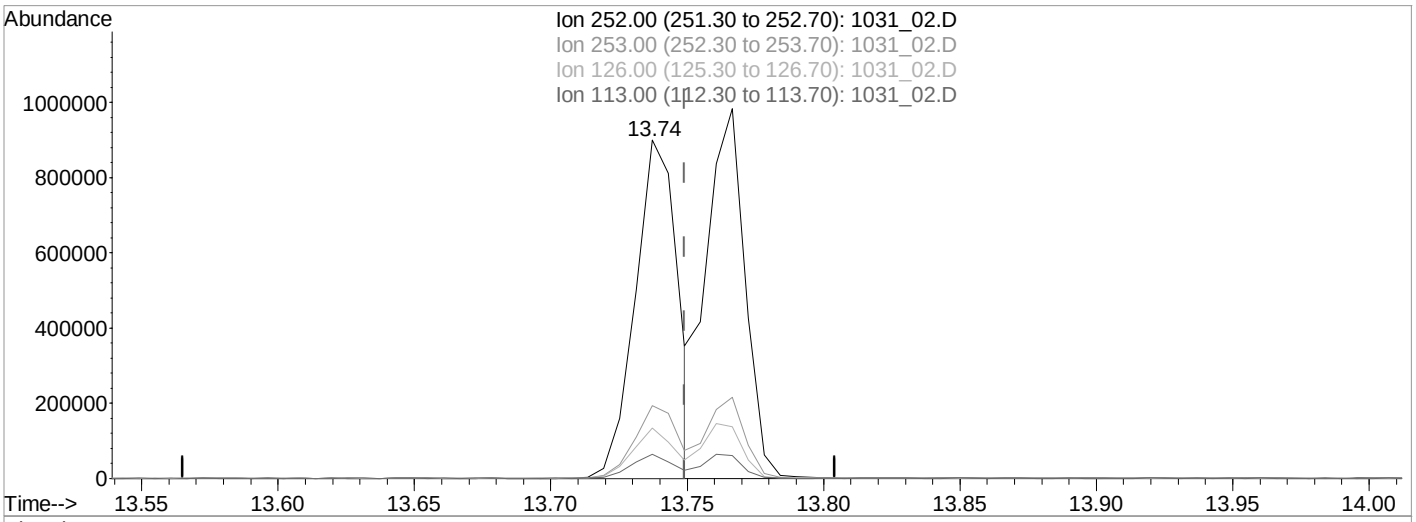
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

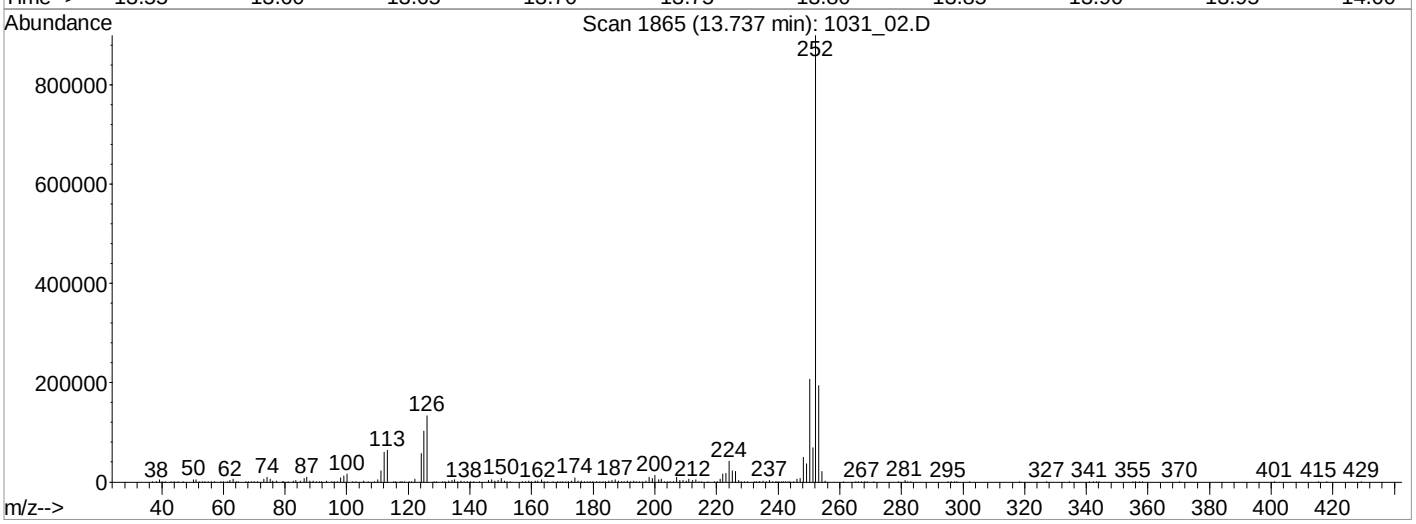


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1031_02.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.012) 9317.7424190 ppb m

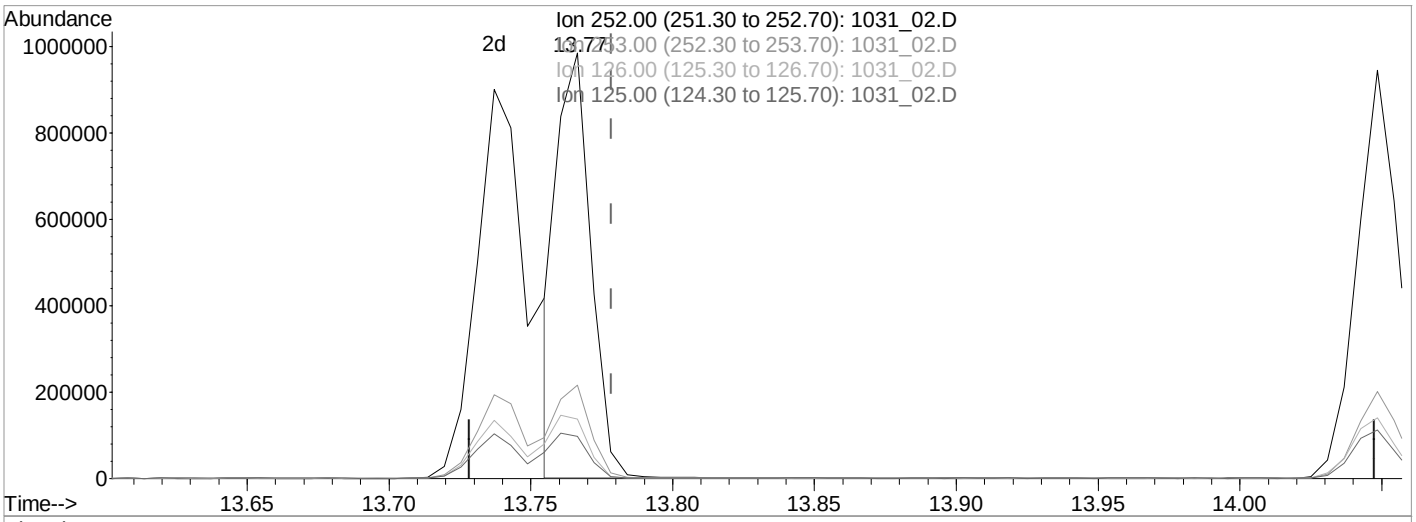
response 970272

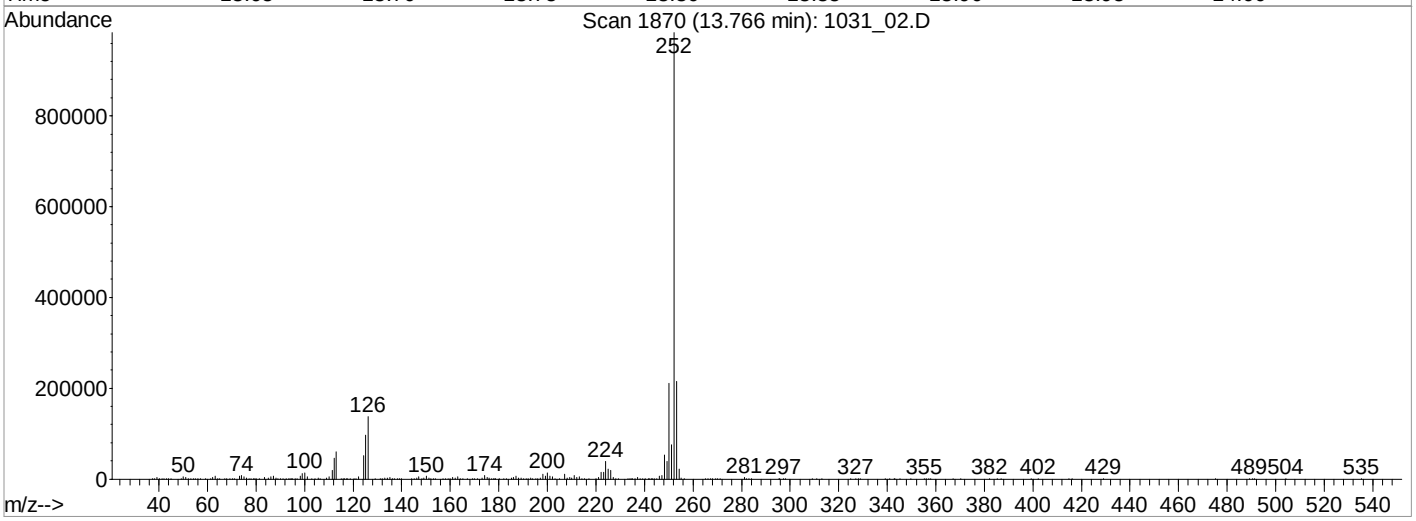
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.57
126.00	19.90	14.84
113.00	9.50	7.15

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1031_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 8698.3187720 ppb

Qvalue = 93

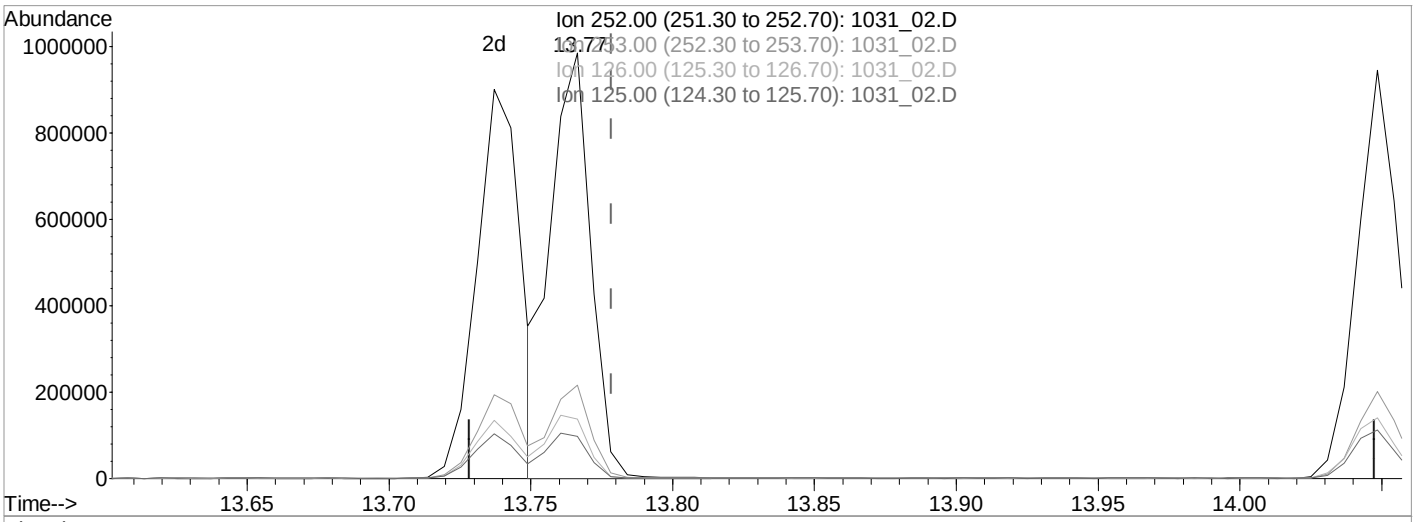
response 822245

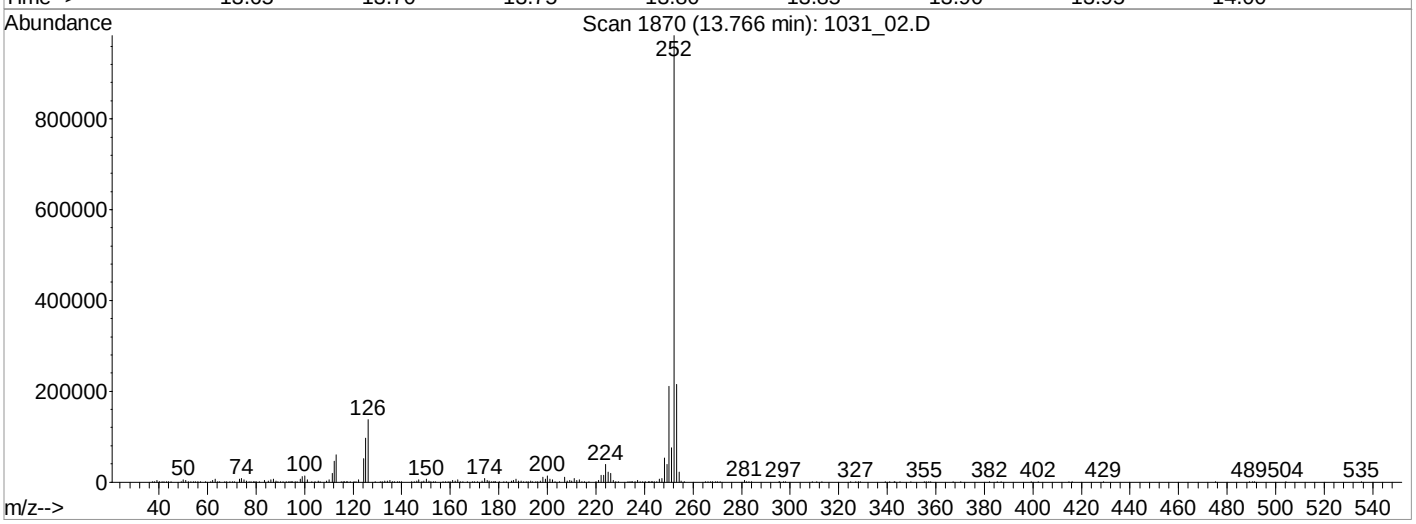
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.90
126.00	19.90	13.98
125.00	13.60	9.78

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1031_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 10231.0623078 ppb m

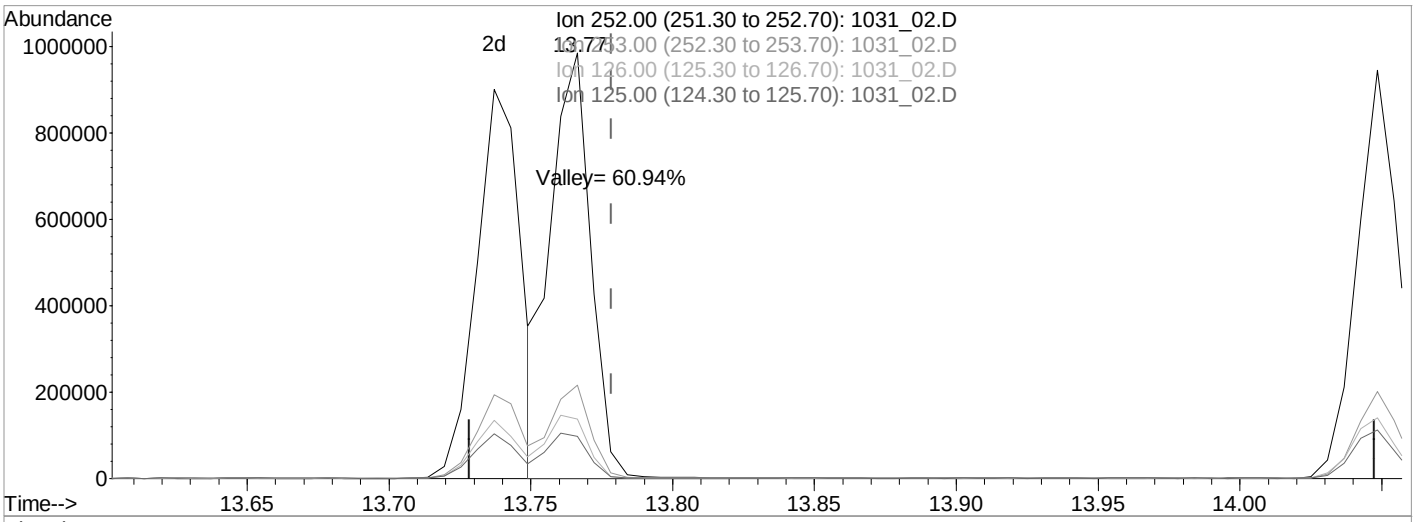
response 967134

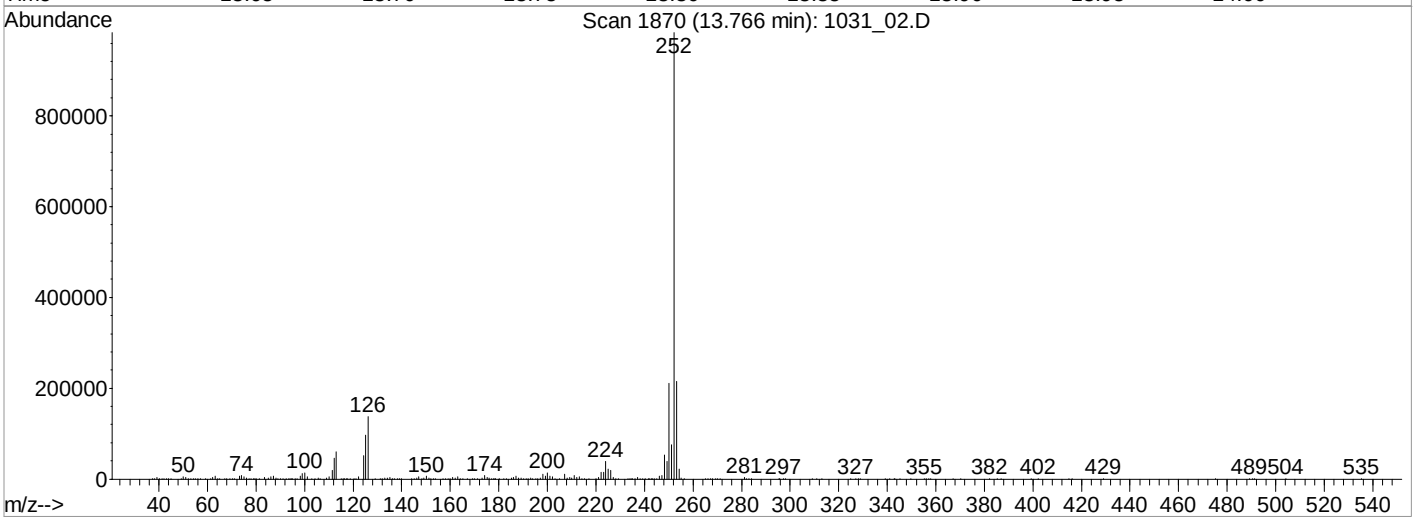
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.92
126.00	19.90	13.97
125.00	13.60	9.79

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\103114\1031 02.D Vial: 2
Acq On : 31 Oct 2014 11:04 am Operator: 280
Sample : ICV SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1031_02.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 10231.0623078 ppb m

response 967134

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.92
126.00	19.90	13.97
125.00	13.60	9.79

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 03.D Vial: 3
Acq On : 31 Oct 2014 11:27 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	110863	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	446295	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	290019	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	522198	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	628437	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	725775	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.97	112	54	2.7632836 ppb	-0.02
Spiked Amount 20.000	Range 10 - 74		Recovery = 13.82%		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	5.71	82	194	8.9823724 ppb	0.11
Spiked Amount 10.000	Range 28 - 123		Recovery = 89.82%		
44) 2-Fluorobiphenyl	7.50	172	117	2.3869642 ppb	0.04
Spiked Amount 10.000	Range 35 - 133		Recovery = 23.87%#		
67) 2,4,6-Tribromophenol	8.95	330	61	10.2968957 ppb	-0.09
Spiked Amount 20.000	Range 22 - 154		Recovery = 51.48%		
81) p-Terphenyl-d14	11.66	244	54	0.7081453 ppb	0.15
Spiked Amount 10.000	Range 30 - 148		Recovery = 7.08%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	59	1.8938454 ppb	#	22
3) N-Nitrosodimethylamine	2.96	42	84	5.3087215 ppb	#	1
5) Aniline	4.71	66	53	4.4899689 ppb	#	23
6) bis(2-Chloroethyl)ether	4.68	63	4615	281.8751674 ppb	#	9
8) Phenol	4.72	94	175	7.1232775 ppb	#	49
9) Benzaldehyde	4.68	105	118583	10754.2609483 ppb		97
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	4.91	41	123	9.6718857 ppb	#	33
12) 1,3-Dichlorobenzene	5.10	146	56	2.3667721 ppb	#	29
13) 1,4-Dichlorobenzene	5.10	146	56	2.3175896 ppb	#	29
14) Benzyl Alcohol	5.19	79	69	3.8457466 ppb	#	32
15) 1,2-Dichlorobenzene	5.10	146	56	2.4214351 ppb	#	30
16) bis(2-Chloroisopropyl)ethe	5.44	121	6047	872.9933833 ppb	#	1
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	5.52	117	55	5.2971262 ppb	#	10
19) N-Nitrosodi-n-propylamine	5.45	70	67	4.1222076 ppb	#	1
20) 3&4-Methyl phenol	5.44	107	1155	52.0256664 ppb	#	1
21) Acetophenone	5.44	105	265771	9655.5157347 ppb		95
24) Nitrobenzene	5.44	77	198848	9333.1969027 ppb	#	59
25) Isophorone	5.86	82	61	1.6336237 ppb		58
26) 2-Nitrophenol	5.83	139	72	6.8059408 ppb	#	1
27) 2,4-Dimethylphenol	6.00	107	151	7.5557336 ppb	#	1
28) bis(2-Chlorethoxy)methane	6.03	93	607	24.7613724 ppb	#	1
29) 2,4-Dichlorophenol	6.15	162	57	3.3979066 ppb	#	26
30) Benzoic Acid	6.04	105	117750	13842.3320113 ppb		95
31) 1,2,4-Trichlorobenzene	6.25	180	704	37.5921110 ppb	#	62
32) Naphthalene	6.34	128	3254	49.7817143 ppb		93
33) 4-Chloroaniline	6.32	65	1328	162.9678388 ppb	#	1
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	6.73	113	53818	9274.7837923 ppb	#	74
36) 4-Chloro-3-methylphenol	6.88	107	56	2.9329196 ppb	#	1
37) 2-Methylnaphthalene	7.06	142	71	1.5681358 ppb	#	20
38) 1-Methylnaphthalene	7.24	142	1945	46.2251821 ppb	#	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 03.D Vial: 3
Acq On : 31 Oct 2014 11:27 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

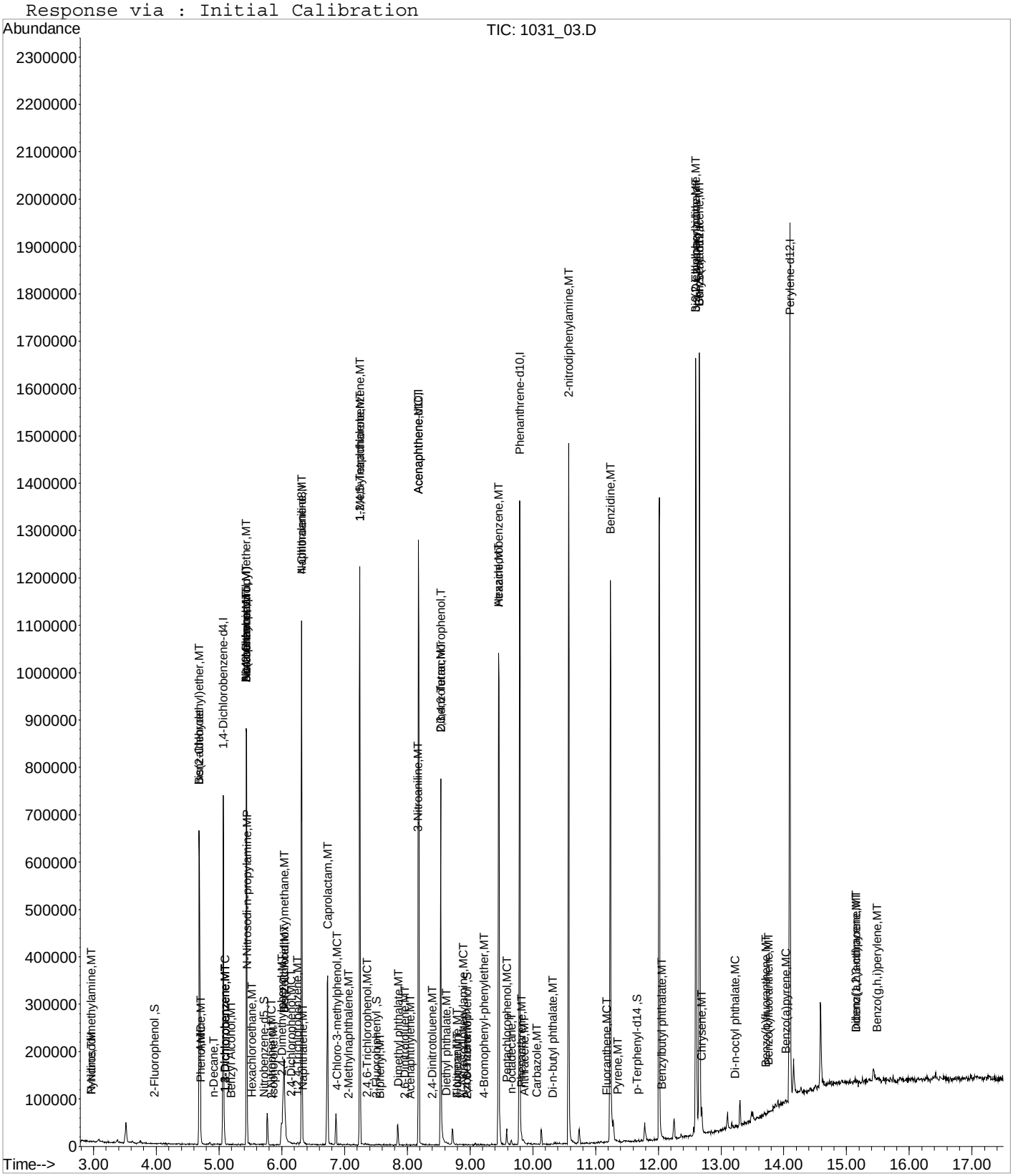
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	194691	11085.2592987 ppb		100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	7.36	196	176	15.0030292 ppb	#	31
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	7.56	154	129	2.3877939 ppb	#	40
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	8.06	152	74	1.0410213 ppb		63
49)	Dimethyl phthalate	7.86	163	130	2.6662177 ppb	#	14
50)	2,6-Dinitrotoluene	7.96	165	60	5.4728003 ppb	#	35
51)	3-Nitroaniline	8.17	138	102	7.9753348 ppb	#	1
52)	Acenaphthene	8.18	153	144	3.1950036 ppb	#	1
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.53	168	30734	490.4866019 ppb	#	43
55)	2,4-Dinitrotoluene	8.39	165	61	4.1569721 ppb	#	30
56)	2,3,4,6-Tetrachlorophenol	8.53	232	90796	11459.9415289 ppb		89
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	8.80	166	80	1.5453164 ppb	#	17
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	8.63	149	561	10.6005925 ppb		70
61)	4-Nitroaniline	8.80	138	62	4.7392442 ppb	#	24
62)	Azobenzene	8.95	77	89	1.6437962 ppb	#	5
63)	Atrazine	9.46	200	130485	11575.3300820 ppb	#	82
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	8.89	169	67	1.5147351 ppb	#	31
68)	4-Bromophenyl-phenylether	9.21	248	59	4.3558030 ppb	#	6
69)	Hexachlorobenzene	9.45	284	81	5.3028203 ppb	#	21
70)	n-octadecane	9.66	55	438	47.1801558 ppb	#	46
71)	Pentachlorophenol	9.58	266	3773	1868.5530168 ppb	#	73
72)	Phenanthrene	9.82	178	132	1.7076779 ppb		69
73)	Anthracene	9.87	178	66	0.8340870 ppb		64
74)	Carbazole	10.07	167	57	0.7402742 ppb	#	1
75)	Di-n-butyl phthalate	10.32	149	78	0.7444355 ppb		79
76)	2-nitrodiphenylamine	10.57	167	211089	11834.8214247 ppb	#	100
77)	Fluoranthene	11.18	202	57	0.6253253 ppb		60
79)	Benzidine	11.23	184	493313	8889.9134764 ppb		99
80)	Pyrene	11.35	202	221	2.2279175 ppb	#	59
82)	Benzylbutyl phthalate	12.06	149	347	6.4838948 ppb		72
83)	3,3-Dichlorobenzidine	12.60	252	359566	10133.3619773 ppb		96
84)	Benzo(a)anthracene	12.66	228	1849	17.9660735 ppb	#	1
85)	Chrysene	12.69	228	176	1.8856782 ppb	#	54
86)	bis(2-Ethylhexyl)phthalate	12.60	149	7635	92.0493455 ppb		80
87)	Di-n-octyl phthalate	13.22	149	808	5.6134647 ppb		74
89)	Benzo(b)fluoranthene	13.71	252	414	3.5802577 ppb	#	63
90)	Benzo(k)fluoranthene	13.76	252	259	2.4673490 ppb	#	21
91)	Benzo(a)pyrene	14.04	252	535	4.9422150 ppb	#	1
92)	Indeno(1,2,3-cd)pyrene	15.15	276	54	0.4530069 ppb	#	22
93)	Dibenz(a,h)anthracene	15.15	278	447	4.4920822 ppb	#	53
94)	Benzo(g,h,i)perylene	15.48	276	136	1.3748390 ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 03.D Vial: 3
Acq On : 31 Oct 2014 11:27 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Standard Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 11:09 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 04.D Vial: 61
Acq On : 31 Oct 2014 11:49 am Operator: 280
Sample : LCS 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	107851	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	429122	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	276595	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	477684	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	623239	8000.00 ppb	-0.01
88) Perylene-d12	14.10	264	695529	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	247654	433.7941962 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 65.13%		
7) Phenol-d5	4.71	99	284688	409.0260551 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 61.42%		
23) Nitrobenzene-d5	5.59	82	134508	215.6864760 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 64.77%		
44) 2-Fluorobiphenyl	7.45	172	360853	257.0494805 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 77.19%		
67) 2,4,6-Tribromophenol	9.03	330	96921	595.5704010 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 89.42%		
81) p-Terphenyl-d14	11.50	244	525988	231.6092152 ppb	-0.01
Spiked Amount 333.000	Range 22 - 128		Recovery = 69.55%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	48186	52.9444049 ppb		89
3) N-Nitrosodimethylamine	2.96	42	75080	162.4207857 ppb	#	79
5) Aniline	4.77	66	54715	158.6647870 ppb		99
6) bis(2-Chloroethyl)ether	4.81	63	78475	164.0677114 ppb		93
8) Phenol	4.72	94	148610	207.0601546 ppb		93
9) Benzaldehyde	4.68	105	78606	244.0172441 ppb		96
10) 2-Chlorophenol	4.88	128	140351	224.5906045 ppb		92
11) n-Decane	4.90	41	81174	218.4890503 ppb		96
12) 1,3-Dichlorobenzene	5.02	146	153092	221.4764680 ppb		98
13) 1,4-Dichlorobenzene	5.08	146	154746	219.2171964 ppb		97
14) Benzyl Alcohol	5.18	79	98527	187.9721548 ppb		96
15) 1,2-Dichlorobenzene	5.22	146	148474	219.7565902 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.31	121	43485	214.8904631 ppb		92
17) 2-Methylphenol	5.28	108	115153	203.8061510 ppb		97
18) Hexachloroethane	5.55	117	67490	222.4967864 ppb		95
19) N-Nitrosodi-n-propylamine	5.43	70	85748	180.5866919 ppb		98
20) 3&4-Methyl phenol	5.42	107	150479	232.0161672 ppb		94
21) Acetophenone	5.43	105	187257	232.8695107 ppb	#	81
24) Nitrobenzene	5.61	77	136029	221.1190608 ppb		98
25) Isophorone	5.84	82	261988	242.9903702 ppb		93
26) 2-Nitrophenol	5.92	139	82309	269.4563779 ppb		88
27) 2,4-Dimethylphenol	5.95	107	144436	250.2998646 ppb		93
28) bis(2-Chlorethoxy)methane	6.05	93	138948	196.3015798 ppb		94
29) 2,4-Dichlorophenol	6.16	162	127766	263.7772604 ppb		97
30) Benzoic Acid	6.03	105	8028	99.4448900 ppb		86
31) 1,2,4-Trichlorobenzene	6.26	180	128961	238.4887633 ppb		97
32) Naphthalene	6.34	128	411275	217.9064499 ppb		99
33) 4-Chloroaniline	6.39	65	45674	194.1146678 ppb		87
34) Hexachloro-1,3-butadiene	6.46	225	79026	261.8311921 ppb		97
35) Caprolactam	6.72	113	39243	234.2199667 ppb	#	74
36) 4-Chloro-3-methylphenol	6.89	107	138471	251.1634469 ppb		94
37) 2-Methylnaphthalene	7.06	142	299241	228.8926748 ppb		97
38) 1-Methylnaphthalene	7.17	142	309443	254.6977815 ppb	#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 04.D Vial: 61
Acq On : 31 Oct 2014 11:49 am Operator: 280
Sample : LCS 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

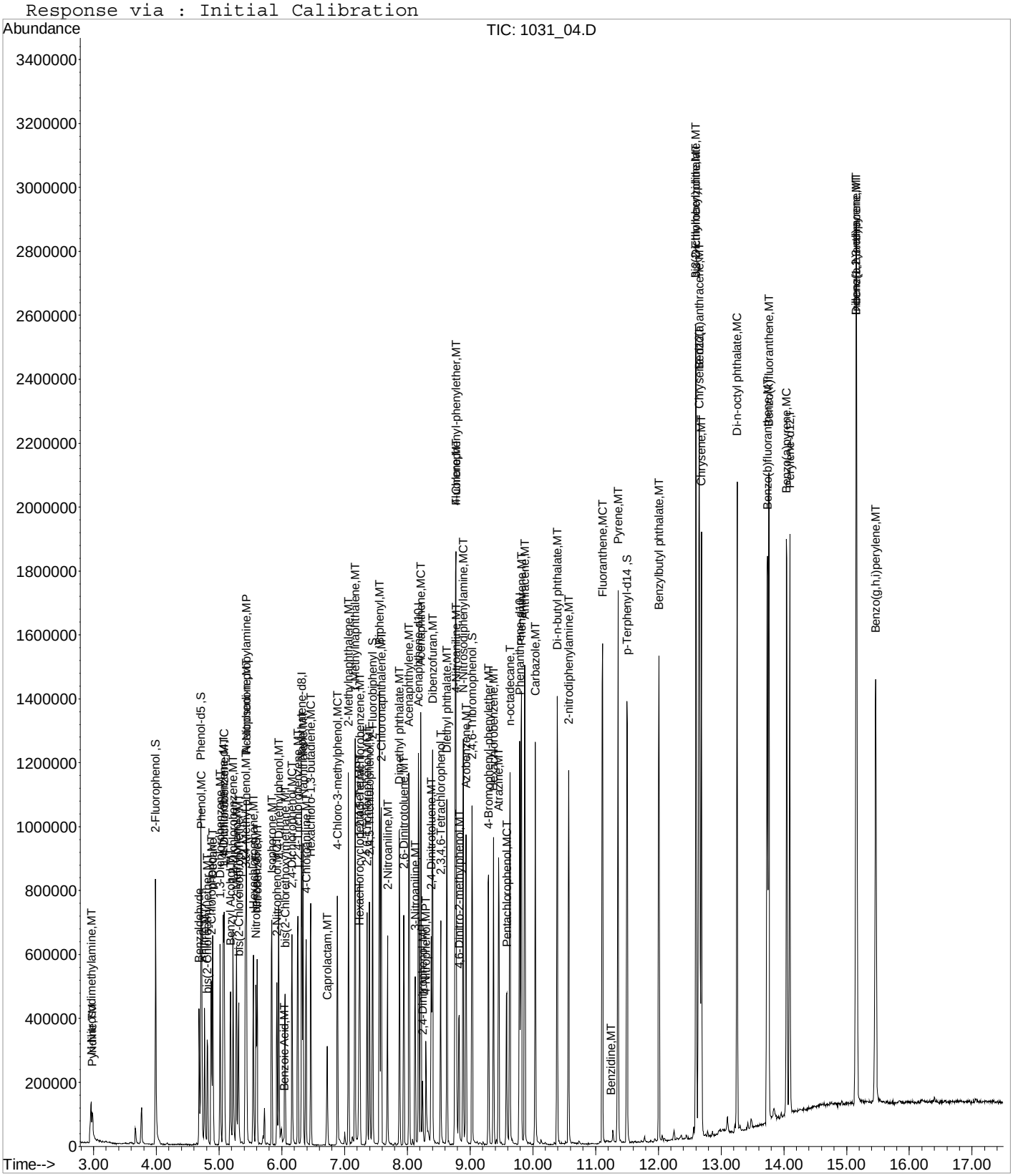
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	136334	268.8373662	ppb		99
41)	Hexachlorocyclopentadiene	7.23	237	47036	160.9678603	ppb		96
42)	2,4,6-Trichlorophenol	7.36	196	98879	294.3043711	ppb		94
43)	2,4,5-Trichlorophenol	7.40	196	106047	282.4746881	ppb		95
45)	Biphenyl	7.56	154	396667	256.3654843	ppb		98
46)	2-Chloronaphthalene	7.59	162	315721	255.4090189	ppb		98
47)	2-Nitroaniline	7.69	138	110812	270.2333718	ppb	#	89
48)	Acenaphthylene	8.03	152	528455	259.5746450	ppb		99
49)	Dimethyl phthalate	7.87	163	383847	274.8759623	ppb		97
50)	2,6-Dinitrotoluene	7.94	165	88499	281.8532652	ppb		86
51)	3-Nitroaniline	8.13	138	87431	238.6934809	ppb	#	84
52)	Acenaphthene	8.21	153	324381	251.2989197	ppb		99
53)	2,4-Dinitrophenol	8.24	184	29458	258.7352752	ppb	#	91
54)	Dibenzofuran	8.40	168	475467	264.9444344	ppb		94
55)	2,4-Dinitrotoluene	8.38	165	118061	280.9183359	ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.53	232	77673	342.3041183	ppb		89
57)	4-Nitrophenol	8.30	139	66505	250.8183104	ppb	#	85
58)	Fluorene	8.77	166	387111	261.0894347	ppb		99
59)	4-Chlorophenyl-phenylether	8.77	204	168565	261.0299425	ppb		91
60)	Diethyl phthalate	8.63	149	418096	275.8478789	ppb		99
61)	4-Nitroaniline	8.78	138	96895	258.6098859	ppb	#	77
62)	Azobenzene	8.94	77	328526	211.8624941	ppb		92
63)	Atrazine	9.45	200	111104	344.1350030	ppb	#	81
65)	4,6-Dinitro-2-methylphenol	8.83	198	57986	295.4623351	ppb		91
66)	N-Nitrosodiphenylamine	8.89	169	306514	252.2614796	ppb		99
68)	4-Bromophenyl-phenylether	9.30	248	98068	263.5616877	ppb		92
69)	Hexachlorobenzene	9.37	284	114826	273.6534139	ppb		98
70)	n-octadecane	9.64	55	60356	236.6706768	ppb	#	91
71)	Pentachlorophenol	9.58	266	54210	282.5592967	ppb		93
72)	Phenanthrene	9.82	178	555185	261.4619418	ppb		94
73)	Anthracene	9.87	178	569457	261.9793841	ppb		98
74)	Carbazole	10.04	167	552076	261.0089483	ppb		99
75)	Di-n-butyl phthalate	10.39	149	795369	276.3375332	ppb		99
76)	2-nitrodiphenylamine	10.57	167	166654	340.1344269	ppb	#	100
77)	Fluoranthene	11.11	202	666815	266.3024994	ppb		99
79)	Benzidine	11.24	184	1615	25.4148732	ppb		88
80)	Pyrene	11.36	202	701247	237.3718435	ppb		99
82)	Benzylbutyl phthalate	12.01	149	395235	247.9780482	ppb		95
83)	3,3-Dichlorobenzidine	12.60	252	206704	195.6028493	ppb		98
84)	Benzo(a)anthracene	12.64	228	723865	236.1702544	ppb		94
85)	Chrysene	12.69	228	655862	235.9493284	ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.60	149	611378	247.4986466	ppb		100
87)	Di-n-octyl phthalate	13.26	149	1055542	246.2331454	ppb		100
89)	Benzo(b)fluoranthene	13.74	252	844370	253.7334599	ppb		92
90)	Benzo(k)fluoranthene	13.76	252	689763	228.3293380	ppb		94
91)	Benzo(a)pyrene	14.05	252	770566	247.3481614	ppb		91
92)	Indeno(1,2,3-cd)pyrene	15.16	276	924701	269.5525093	ppb		86
93)	Dibenz(a,h)anthracene	15.15	278	784234	273.8525810	ppb		90
94)	Benzo(g,h,i)perylene	15.46	276	761206	267.3905963	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 04.D Vial: 61
Acq On : 31 Oct 2014 11:49 am Operator: 280
Sample : LCS 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 05.D Vial: 62
Acq On : 31 Oct 2014 12:11 pm Operator: 280
Sample : LCSD 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	105423	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	424578	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	271208	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	474890	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	627443	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	681765	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	257766	461.9051752 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 69.36%		
7) Phenol-d5	4.71	99	292609	430.0889629 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 64.58%		
23) Nitrobenzene-d5	5.59	82	138786	224.9281193 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 67.55%		
44) 2-Fluorobiphenyl	7.45	172	370375	269.0728655 ppb	-0.01
Spiked Amount 333.000	Range 35 - 129		Recovery = 80.80%		
67) 2,4,6-Tribromophenol	9.03	330	103852	641.9153402 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 96.38%		
81) p-Terphenyl-d14	11.50	244	575234	251.5966707 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 75.55%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	65618	73.7583155 ppb		96
3) N-Nitrosodimethylamine	2.96	42	78934	174.6908910 ppb	#	77
5) Aniline	4.77	66	57128	169.4774711 ppb		97
6) bis(2-Chloroethyl)ether	4.81	63	81881	175.1312870 ppb		96
8) Phenol	4.72	94	152495	217.3666487 ppb		93
9) Benzaldehyde	4.68	105	62335	197.9637127 ppb		98
10) 2-Chlorophenol	4.88	128	140725	230.3754177 ppb		91
11) n-Decane	4.90	41	84584	232.9108684 ppb		95
12) 1,3-Dichlorobenzene	5.02	146	156436	231.5264435 ppb		97
13) 1,4-Dichlorobenzene	5.08	146	157576	228.3673777 ppb		98
14) Benzyl Alcohol	5.18	79	113325	221.1835345 ppb		96
15) 1,2-Dichlorobenzene	5.22	146	150101	227.2813970 ppb		96
16) bis(2-Chloroisopropyl)ethe	5.31	121	43809	221.4776021 ppb		94
17) 2-Methylphenol	5.28	108	120434	218.0619779 ppb		98
18) Hexachloroethane	5.55	117	67618	228.0528170 ppb		95
19) N-Nitrosodi-n-propylamine	5.43	70	90654	195.3158645 ppb		91
20) 3&4-Methyl phenol	5.42	107	157998	249.2199169 ppb		95
21) Acetophenone	5.44	105	198360	252.3582310 ppb	#	83
24) Nitrobenzene	5.61	77	137991	226.7089841 ppb		94
25) Isophorone	5.84	82	278674	261.2326211 ppb		96
26) 2-Nitrophenol	5.92	139	86554	286.3858648 ppb		88
27) 2,4-Dimethylphenol	5.95	107	149777	262.3333970 ppb		97
28) bis(2-Chlorethoxy)methane	6.05	93	149580	213.5838039 ppb		94
29) 2,4-Dichlorophenol	6.16	162	134323	280.2823377 ppb		95
30) Benzoic Acid	6.04	105	3229	81.3272478 ppb	#	30
31) 1,2,4-Trichlorobenzene	6.26	180	133537	249.5941706 ppb		96
32) Naphthalene	6.34	128	432175	231.4305610 ppb		98
33) 4-Chloroaniline	6.39	65	47994	206.1576932 ppb		86
34) Hexachloro-1,3-butadiene	6.46	225	81133	271.6890975 ppb		96
35) Caprolactam	6.72	113	42050	253.6594276 ppb	#	76
36) 4-Chloro-3-methylphenol	6.89	107	150125	275.2161529 ppb		99
37) 2-Methylnaphthalene	7.06	142	312368	241.4908206 ppb	#	97
38) 1-Methylnaphthalene	7.17	142	311836	259.4143783 ppb	#	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 05.D Vial: 62
Acq On : 31 Oct 2014 12:11 pm Operator: 280
Sample : LCSD 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

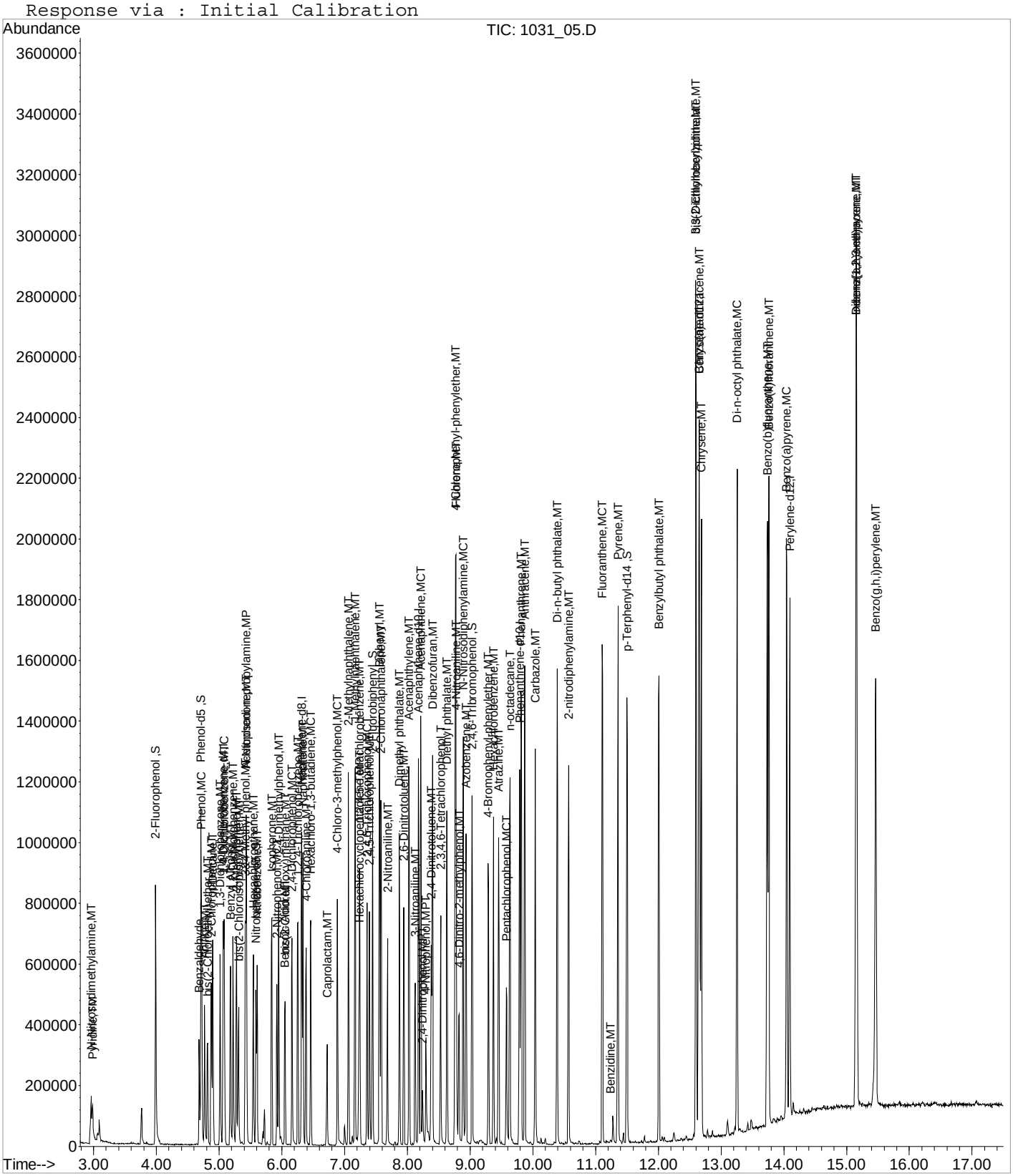
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	144353	287.6964893	ppb		98
41)	Hexachlorocyclopentadiene	7.23	237	50426	175.9969485	ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	104684	317.7713834	ppb		98
43)	2,4,5-Trichlorophenol	7.40	196	109020	296.1618794	ppb		98
45)	Biphenyl	7.56	154	418659	275.9533958	ppb		99
46)	2-Chloronaphthalene	7.58	162	333215	274.9154399	ppb		96
47)	2-Nitroaniline	7.69	138	117391	291.9636727	ppb	#	90
48)	Acenaphthylene	8.03	152	557371	279.2160989	ppb		98
49)	Dimethyl phthalate	7.87	163	409301	298.9256945	ppb		97
50)	2,6-Dinitrotoluene	7.94	165	93679	304.2767593	ppb		82
51)	3-Nitroaniline	8.13	138	91944	256.0002179	ppb	#	80
52)	Acenaphthene	8.21	153	338432	267.3920328	ppb		99
53)	2,4-Dinitrophenol	8.24	184	27959	252.9767971	ppb	#	92
54)	Dibenzofuran	8.40	168	492199	279.7157861	ppb		93
55)	2,4-Dinitrotoluene	8.38	165	123531	299.7722418	ppb		93
56)	2,3,4,6-Tetrachlorophenol	8.53	232	82854	372.3894372	ppb		89
57)	4-Nitrophenol	8.30	139	72392	275.6473998	ppb	#	85
58)	Fluorene	8.77	166	413035	284.1073501	ppb		98
59)	4-Chlorophenyl-phenylether	8.76	204	178700	282.2209857	ppb		89
60)	Diethyl phthalate	8.63	149	440418	296.3469935	ppb		99
61)	4-Nitroaniline	8.78	138	103397	281.4449905	ppb	#	78
62)	Azobenzene	8.94	77	349578	229.9165622	ppb		92
63)	Atrazine	9.45	200	120726	381.3658439	ppb	#	78
65)	4,6-Dinitro-2-methylphenol	8.83	198	63791	322.0208145	ppb		91
66)	N-Nitrosodiphenylamine	8.89	169	321930	266.5076888	ppb		98
68)	4-Bromophenyl-phenylether	9.30	248	106804	288.7288293	ppb	#	90
69)	Hexachlorobenzene	9.37	284	120986	290.0303341	ppb		96
70)	n-octadecane	9.64	55	63528	250.5744907	ppb		93
71)	Pentachlorophenol	9.58	266	59318	306.2473935	ppb		96
72)	Phenanthrene	9.81	178	595270	281.9891670	ppb		95
73)	Anthracene	9.87	178	603039	279.0610675	ppb		99
74)	Carbazole	10.04	167	591364	281.2283392	ppb		99
75)	Di-n-butyl phthalate	10.39	149	856105	299.1892053	ppb		99
76)	2-nitrodiphenylamine	10.57	167	179998	369.5304233	ppb	#	100
77)	Fluoranthene	11.10	202	712750	286.3220390	ppb		99
79)	Benzidine	11.24	184	7259	28.5202017	ppb		94
80)	Pyrene	11.36	202	741576	249.3412865	ppb		99
82)	Benzylbutyl phthalate	12.01	149	421700	262.8099390	ppb		95
83)	3,3-Dichlorobenzidine	12.60	252	219155	205.9956374	ppb		97
84)	Benzo(a)anthracene	12.64	228	767593	248.7590951	ppb		95
85)	Chrysene	12.69	228	702194	250.9248853	ppb		96
86)	bis(2-Ethylhexyl)phthalate	12.60	149	659375	265.1403603	ppb		98
87)	Di-n-octyl phthalate	13.26	149	1132094	262.3214634	ppb		99
89)	Benzo(b)fluoranthene	13.74	252	898938	275.5847788	ppb		90
90)	Benzo(k)fluoranthene	13.76	252	738595	249.4300232	ppb		95
91)	Benzo(a)pyrene	14.05	252	816899	267.5147599	ppb		90
92)	Indeno(1,2,3-cd)pyrene	15.16	276	988119	293.8541596	ppb		85
93)	Dibenz(a,h)anthracene	15.15	278	833991	297.1071313	ppb		89
94)	Benzo(g,h,i)perylene	15.46	276	808650	289.7911100	ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 05.D Vial: 62
Acq On : 31 Oct 2014 12:11 pm Operator: 280
Sample : LCSD 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:30 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 06.D Vial: 63
Acq On : 31 Oct 2014 12:33 pm Operator: 280
Sample : BLANK 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:54 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	103064	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	404260	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	265324	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	465225	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	571071	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	651180	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	260384	477.2762976 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 71.66%		
7) Phenol-d5	4.71	99	300638	452.0046142 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 67.87%		
23) Nitrobenzene-d5	5.59	82	140314	238.8338138 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 71.72%		
44) 2-Fluorobiphenyl	7.44	172	374578	278.1611453 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 83.53%		
67) 2,4,6-Tribromophenol	9.03	330	93493	589.8912651 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 88.57%		
81) p-Terphenyl-d14	11.50	244	567352	272.6447281 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 81.88%		

Target Compounds					Qvalue
2) Pyridine	2.94	79	96	N.D.	
3) N-Nitrosodimethylamine	2.94	42	85	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	1227	N.D.	
8) Phenol	4.72	94	235	N.D.	
9) Benzaldehyde	4.91	105	71	N.D.	
10) 2-Chlorophenol	4.89	128	344	N.D.	
11) n-Decane	4.90	41	6203	17.4715604 ppb #	88
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	5.27	79	66	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	5.53	117	59	N.D.	
19) N-Nitrosodi-n-propylamine	5.41	70	77	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	128	N.D.	
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	5.82	82	88	N.D.	
26) 2-Nitrophenol	5.96	139	70	N.D.	
27) 2,4-Dimethylphenol	5.95	107	61	N.D.	
28) bis(2-Chlorethoxy)methane	5.83	93	54	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.33	128	2639	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	6.45	225	69	N.D.	
35) Caprolactam	6.06	113	60	N.D.	
36) 4-Chloro-3-methylphenol	6.92	107	68	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	7.41	142	54	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 06.D Vial: 63
Acq On : 31 Oct 2014 12:33 pm Operator: 280
Sample : BLANK 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:54 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

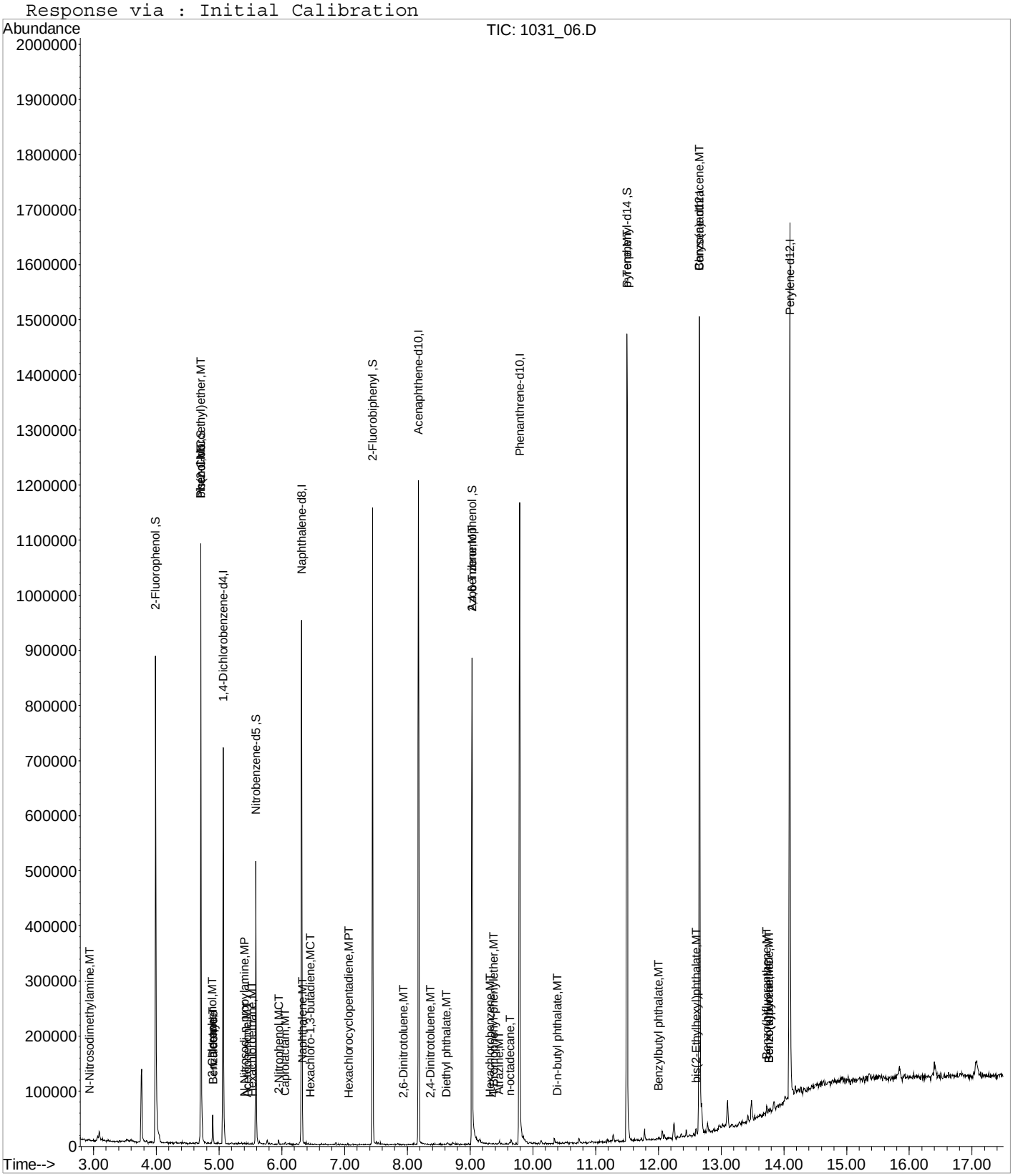
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.06	237	60	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	d
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.54	154	59	N.D.	
46)	2-Chloronaphthalene	7.40	162	69	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	8.16	152	61	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	7.94	165	60	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	8.09	153	61	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.58	168	82	N.D.	
55)	2,4-Dinitrotoluene	8.37	165	72	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	742	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.03	77	831	N.D.	
63)	Atrazine	9.47	200	63	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	d
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	9.38	248	87	N.D.	
69)	Hexachlorobenzene	9.32	284	62	N.D.	
70)	n-octadecane	9.64	55	357	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	0.00	178	0	N.D.	d
73)	Anthracene	0.00	178	0	N.D.	d
74)	Carbazole	10.21	167	60	N.D.	
75)	Di-n-butyl phthalate	10.39	149	1195	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.10	202	138	N.D.	
79)	Benzidine	0.00	184	0	N.D.	d
80)	Pyrene	11.50	202	1861	N.D.	
82)	Benzylbutyl phthalate	12.01	149	331	N.D.	
83)	3,3-Dichlorobenzidine	12.60	252	62	N.D.	
84)	Benzo(a)anthracene	12.65	228	2035	N.D.	
85)	Chrysene	0.00	228	0	N.D.	d
86)	bis(2-Ethylhexyl)phthalate	12.60	149	5662	N.D.	
87)	Di-n-octyl phthalate	0.00	149	0	N.D.	d
89)	Benzo(b)fluoranthene	13.73	252	664	N.D.	
90)	Benzo(k)fluoranthene	13.76	252	923	N.D.	
91)	Benzo(a)pyrene	13.76	252	389	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.16	276	187	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	104	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	145	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 06.D Vial: 63
Acq On : 31 Oct 2014 12:33 pm Operator: 280
Sample : BLANK 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:54 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 14.D Vial: 71
Acq On : 31 Oct 2014 3:28 pm Operator: 280
Sample : MS 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	101655	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	401257	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	265240	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	473067	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	604352	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	664800	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	234707	436.1740905 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 65.49%		
7) Phenol-d5	4.71	99	258664	394.2877034 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 59.20%		
23) Nitrobenzene-d5	5.59	82	116030	198.9771703 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 59.75%		
44) 2-Fluorobiphenyl	7.44	172	303465	225.4240901 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 67.69%		
67) 2,4,6-Tribromophenol	9.03	330	81379	504.9467826 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 75.82%		
81) p-Terphenyl-d14	11.50	244	442232	200.8143862 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 60.30%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	108419	126.3863070 ppb		92
3) N-Nitrosodimethylamine	2.96	42	71709	164.5835557 ppb	#	74
5) Aniline	4.77	66	56625	174.2118914 ppb		97
6) bis(2-Chloroethyl)ether	4.81	63	69246	153.5967119 ppb		90
8) Phenol	4.72	94	131756	194.7665327 ppb		93
9) Benzaldehyde	4.68	105	54879	180.7450622 ppb		96
10) 2-Chlorophenol	4.87	128	127587	216.6097146 ppb		95
11) n-Decane	4.90	41	71025	202.8240282 ppb	#	98
12) 1,3-Dichlorobenzene	5.02	146	139874	214.6878755 ppb		97
13) 1,4-Dichlorobenzene	5.08	146	141387	212.5005696 ppb		97
14) Benzyl Alcohol	5.18	79	96585	195.4984760 ppb		93
15) 1,2-Dichlorobenzene	5.22	146	133133	209.0608198 ppb		99
16) bis(2-Chloroisopropyl)ethe	5.31	121	36662	192.2158746 ppb		91
17) 2-Methylphenol	5.28	108	98593	185.1328742 ppb		94
18) Hexachloroethane	5.55	117	59129	206.8141647 ppb		89
19) N-Nitrosodi-n-propylamine	5.43	70	73198	163.5521997 ppb		93
20) 3&4-Methyl phenol	5.42	107	134502	220.0222115 ppb		94
21) Acetophenone	5.43	105	167622	221.1571675 ppb	#	82
24) Nitrobenzene	5.61	77	119681	208.0549454 ppb		96
25) Isophorone	5.83	82	218931	217.1566246 ppb		96
26) 2-Nitrophenol	5.92	139	68869	241.1143607 ppb		87
27) 2,4-Dimethylphenol	5.95	107	129395	239.8064254 ppb		94
28) bis(2-Chlorethoxy)methane	6.05	93	123104	185.9952348 ppb		93
29) 2,4-Dichlorophenol	6.16	162	114234	252.2177212 ppb		97
30) Benzoic Acid	5.99	105	2400	78.6616491 ppb	#	17
31) 1,2,4-Trichlorobenzene	6.26	180	115494	228.4163097 ppb		97
32) Naphthalene	6.33	128	359800	203.8717692 ppb		98
33) 4-Chloroaniline	6.38	65	40865	185.7372312 ppb		76
34) Hexachloro-1,3-butadiene	6.46	225	68257	241.8559287 ppb		93
35) Caprolactam	6.72	113	31913	203.6983473 ppb	#	77
36) 4-Chloro-3-methylphenol	6.89	107	115861	224.7465517 ppb		95
37) 2-Methylnaphthalene	7.06	142	253488	207.3606570 ppb	#	94
38) 1-Methylnaphthalene	7.17	142	264891	233.1684902 ppb	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 14.D Vial: 71
Acq On : 31 Oct 2014 3:28 pm Operator: 280
Sample : MS 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

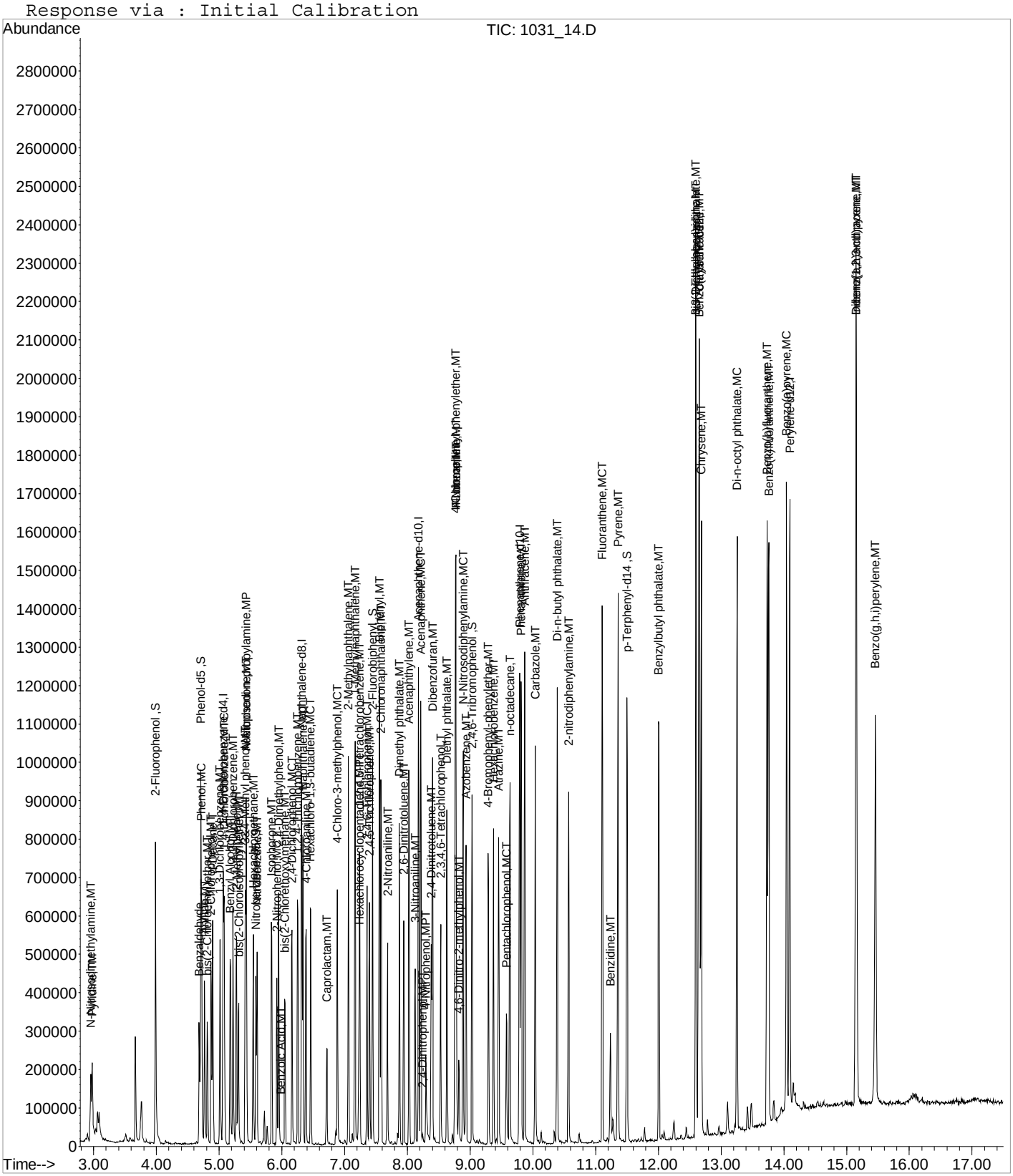
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	118779	250.4858965	ppb		99
41)	Hexachlorocyclopentadiene	7.23	237	35811	127.7999088	ppb		97
42)	2,4,6-Trichlorophenol	7.36	196	83248	258.3876554	ppb		99
43)	2,4,5-Trichlorophenol	7.40	196	96688	268.5709488	ppb		96
45)	Biphenyl	7.56	154	341154	229.9266203	ppb		99
46)	2-Chloronaphthalene	7.58	162	277369	233.9892933	ppb		97
47)	2-Nitroaniline	7.69	138	92748	235.8642100	ppb	#	90
48)	Acenaphthylene	8.03	152	441634	226.2153465	ppb		99
49)	Dimethyl phthalate	7.87	163	318582	237.9058670	ppb		96
50)	2,6-Dinitrotoluene	7.94	165	72418	240.5118835	ppb		87
51)	3-Nitroaniline	8.13	138	76946	219.0617064	ppb	#	83
52)	Acenaphthene	8.21	153	274028	221.3785101	ppb		98
53)	2,4-Dinitrophenol	8.24	184	3856	103.5105239	ppb		90
54)	Dibenzofuran	8.40	168	396839	230.5972232	ppb		93
55)	2,4-Dinitrotoluene	8.38	165	94568	234.6513947	ppb		93
56)	2,3,4,6-Tetrachlorophenol	8.53	232	64341	295.6889922	ppb		90
57)	4-Nitrophenol	8.30	139	51784	208.4334554	ppb	#	89
58)	Fluorene	8.77	166	322318	226.6958925	ppb		98
59)	4-Chlorophenyl-phenylether	8.76	204	142711	230.4547574	ppb		92
60)	Diethyl phthalate	8.63	149	341091	234.6762838	ppb		98
61)	4-Nitroaniline	8.78	138	82360	229.2268041	ppb	#	77
62)	Azobenzene	8.94	77	270362	181.8173364	ppb		90
63)	Atrazine	9.45	200	91857	296.6994333	ppb	#	79
65)	4,6-Dinitro-2-methylphenol	8.82	198	29253	173.2157106	ppb		90
66)	N-Nitrosodiphenylamine	8.89	169	261360	217.1989821	ppb		98
68)	4-Bromophenyl-phenylether	9.30	248	82040	222.6376731	ppb	#	92
69)	Hexachlorobenzene	9.37	284	96980	233.3785058	ppb		99
70)	n-octadecane	9.64	55	49139	194.5666306	ppb		94
71)	Pentachlorophenol	9.58	266	39822	221.7899738	ppb		89
72)	Phenanthrene	9.81	178	460517	218.9951347	ppb		94
73)	Anthracene	9.87	178	489487	227.3868703	ppb		99
74)	Carbazole	10.04	167	469993	224.3706054	ppb		100
75)	Di-n-butyl phthalate	10.39	149	642816	225.5152604	ppb		99
76)	2-nitrodiphenylamine	10.57	167	132602	273.2769268	ppb	#	100
77)	Fluoranthene	11.10	202	562634	226.8892377	ppb		99
79)	Benzidine	11.23	184	132385	100.2860311	ppb		99
80)	Pyrene	11.36	202	569694	198.8678096	ppb		98
82)	Benzylbutyl phthalate	12.01	149	311514	201.5580132	ppb		95
83)	3,3-Dichlorobenzidine	12.60	252	209932	204.8658630	ppb		97
84)	Benzo(a)anthracene	12.64	228	599996	201.8741135	ppb		95
85)	Chrysene	12.69	228	543871	201.7747590	ppb		96
86)	bis(2-Ethylhexyl)phthalate	12.60	149	482949	201.6178369	ppb		98
87)	Di-n-octyl phthalate	13.26	149	820895	197.4800657	ppb		99
89)	Benzo(b)fluoranthene	13.73	252	739285	232.4240546	ppb		92
90)	Benzo(k)fluoranthene	13.76	252	529893	183.5161279	ppb		93
91)	Benzo(a)pyrene	14.04	252	623758	209.4783789	ppb		93
92)	Indeno(1,2,3-cd)pyrene	15.15	276	731965	223.2320763	ppb		87
93)	Dibenz(a,h)anthracene	15.15	278	611054	223.2415322	ppb		90
94)	Benzo(g,h,i)perylene	15.46	276	590033	216.8425275	ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 14.D Vial: 71
Acq On : 31 Oct 2014 3:28 pm Operator: 280
Sample : MS 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 15.D Vial: 72
Acq On : 31 Oct 2014 3:49 pm Operator: 280
Sample : MSD 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	108771	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	436663	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	277423	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	504582	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	642020	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	709348	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	247346	429.5901716 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 64.50%		
7) Phenol-d5	4.71	99	281149	400.5247982 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 60.14%		
23) Nitrobenzene-d5	5.59	82	130848	206.1941191 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 61.92%		
44) 2-Fluorobiphenyl	7.44	172	354158	251.5274153 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 75.53%		
67) 2,4,6-Tribromophenol	9.03	330	99055	576.2362331 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 86.52%		
81) p-Terphenyl-d14	11.50	244	523831	223.9119436 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 67.24%		

Target Compounds						Qvalue
2) Pyridine	2.98	79	111229	121.1792563 ppb	#	91
3) N-Nitrosodimethylamine	2.96	42	72860	156.2850964 ppb	#	77
5) Aniline	4.77	66	63331	182.0964796 ppb		99
6) bis(2-Chloroethyl)ether	4.81	63	77656	160.9822034 ppb		91
8) Phenol	4.72	94	145894	201.5565826 ppb		91
9) Benzaldehyde	4.68	105	56646	174.3593028 ppb		98
10) 2-Chlorophenol	4.88	128	135832	215.5208162 ppb		88
11) n-Decane	4.90	41	77040	205.6080238 ppb	#	99
12) 1,3-Dichlorobenzene	5.02	146	150634	216.0773057 ppb		97
13) 1,4-Dichlorobenzene	5.08	146	152331	213.9708123 ppb		98
14) Benzyl Alcohol	5.18	79	109638	207.4007966 ppb		95
15) 1,2-Dichlorobenzene	5.22	146	144295	211.7648312 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.31	121	40438	198.1428431 ppb		94
17) 2-Methylphenol	5.28	108	112170	196.8474554 ppb		95
18) Hexachloroethane	5.55	117	66169	216.2967236 ppb		93
19) N-Nitrosodi-n-propylamine	5.43	70	86008	179.6021978 ppb		97
20) 3&4-Methyl phenol	5.42	107	152915	233.7779230 ppb		94
21) Acetophenone	5.43	105	189641	233.8394931 ppb	#	82
24) Nitrobenzene	5.61	77	132703	211.9872801 ppb		96
25) Isophorone	5.84	82	257153	234.3870670 ppb		93
26) 2-Nitrophenol	5.92	139	78622	252.9412239 ppb		89
27) 2,4-Dimethylphenol	5.95	107	150664	256.5836871 ppb		98
28) bis(2-Chlorethoxy)methane	6.05	93	139743	194.0152837 ppb		96
29) 2,4-Dichlorophenol	6.16	162	128858	261.4374671 ppb		97
30) Benzoic Acid	6.05	105	948	72.3918481 ppb	#	17
31) 1,2,4-Trichlorobenzene	6.26	180	128327	233.2179411 ppb		98
32) Naphthalene	6.34	128	409771	213.3601853 ppb		98
33) 4-Chloroaniline	6.39	65	48050	200.6860032 ppb		85
34) Hexachloro-1,3-butadiene	6.46	225	77724	253.0701439 ppb		95
35) Caprolactam	6.72	113	38856	227.9051773 ppb	#	76
36) 4-Chloro-3-methylphenol	6.89	107	140523	250.4836627 ppb		99
37) 2-Methylnaphthalene	7.06	142	293952	220.9640404 ppb	#	95
38) 1-Methylnaphthalene	7.17	142	303602	245.5746386 ppb	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 15.D Vial: 72
Acq On : 31 Oct 2014 3:49 pm Operator: 280
Sample : MSD 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

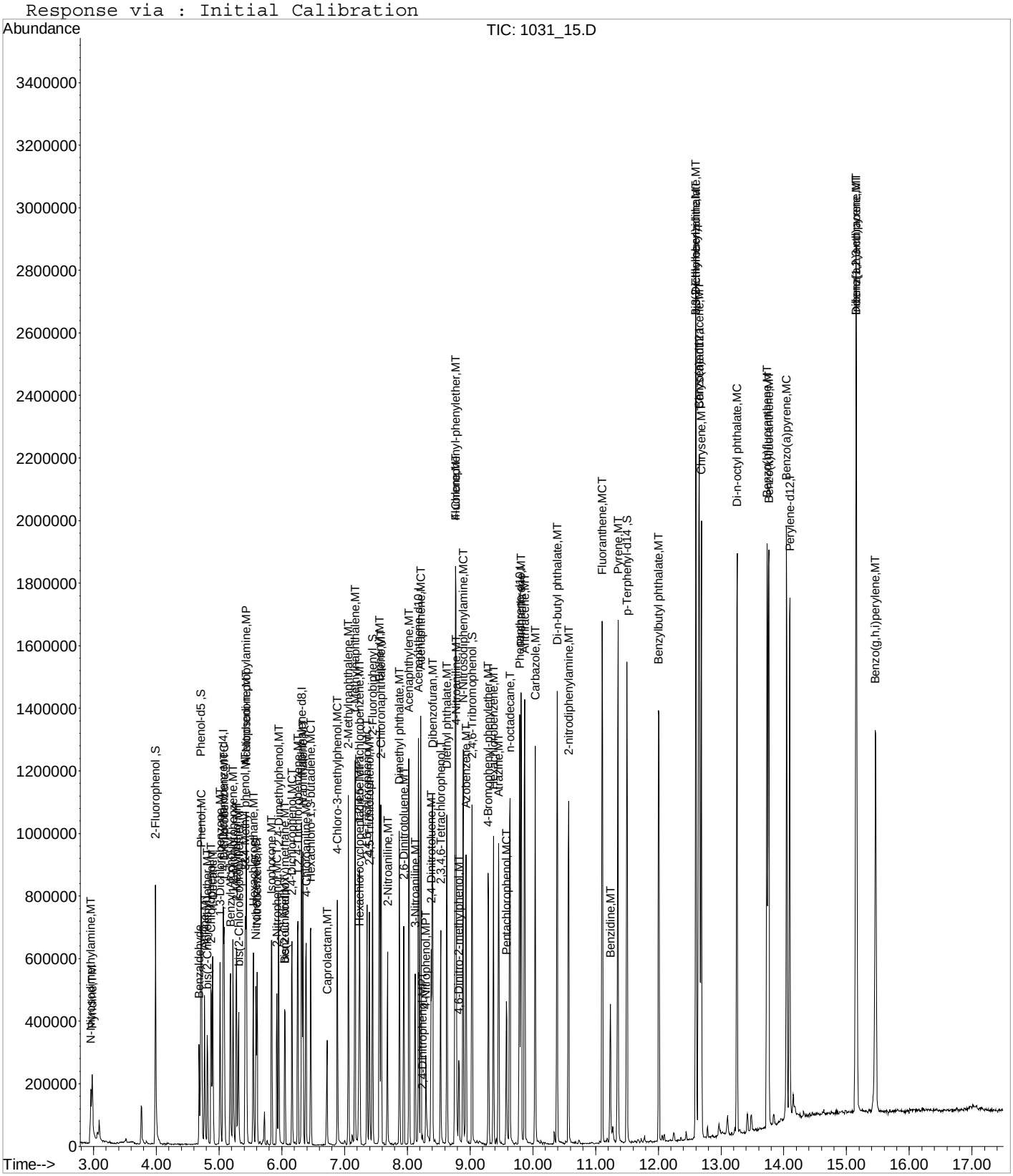
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	137027	265.5375786	ppb		99
41)	Hexachlorocyclopentadiene	7.23	237	44069	150.3639917	ppb		98
42)	2,4,6-Trichlorophenol	7.36	196	97673	289.8471506	ppb		96
43)	2,4,5-Trichlorophenol	7.40	196	106766	283.5410766	ppb		98
45)	Biphenyl	7.56	154	390459	251.6000835	ppb		98
46)	2-Chloronaphthalene	7.58	162	314416	253.5941663	ppb		97
47)	2-Nitroaniline	7.69	138	109281	265.7043769	ppb	#	88
48)	Acenaphthylene	8.03	152	529545	259.3337204	ppb		99
49)	Dimethyl phthalate	7.87	163	382815	273.3187463	ppb		96
50)	2,6-Dinitrotoluene	7.94	165	82778	262.8460758	ppb		83
51)	3-Nitroaniline	8.13	138	89186	242.7580609	ppb		87
52)	Acenaphthene	8.21	153	315969	244.0515388	ppb		98
53)	2,4-Dinitrophenol	8.24	184	3658	101.2282844	ppb	#	66
54)	Dibenzofuran	8.40	168	462328	256.8540859	ppb		93
55)	2,4-Dinitrotoluene	8.38	165	113206	268.5622312	ppb		95
56)	2,3,4,6-Tetrachlorophenol	8.53	232	75371	331.1678613	ppb		86
57)	4-Nitrophenol	8.30	139	60324	229.2564504	ppb	#	87
58)	Fluorene	8.77	166	379481	255.1794420	ppb		97
59)	4-Chlorophenyl-phenylether	8.76	204	166828	257.5690804	ppb		90
60)	Diethyl phthalate	8.63	149	409334	269.2609148	ppb		99
61)	4-Nitroaniline	8.78	138	100150	266.4996056	ppb	#	78
62)	Azobenzene	8.94	77	321318	206.5956872	ppb		92
63)	Atrazine	9.45	200	111935	345.6741617	ppb	#	78
65)	4,6-Dinitro-2-methylphenol	8.83	198	37654	199.4645565	ppb		88
66)	N-Nitrosodiphenylamine	8.89	169	309608	241.2246795	ppb		95
68)	4-Bromophenyl-phenylether	9.30	248	101466	258.1573191	ppb	#	93
69)	Hexachlorobenzene	9.37	284	116140	262.0302293	ppb		98
70)	n-octadecane	9.64	55	60528	224.6928578	ppb		93
71)	Pentachlorophenol	9.58	266	54110	269.6041141	ppb		94
72)	Phenanthrene	9.81	178	548750	244.6550771	ppb		95
73)	Anthracene	9.87	178	575650	250.7111396	ppb		99
74)	Carbazole	10.04	167	558963	250.1776629	ppb		99
75)	Di-n-butyl phthalate	10.39	149	795802	261.7490919	ppb		98
76)	2-nitrodiphenylamine	10.57	167	168127	324.8487906	ppb	#	100
77)	Fluoranthene	11.10	202	677508	256.1493455	ppb		99
79)	Benzidine	11.23	184	193153	128.5792858	ppb		98
80)	Pyrene	11.36	202	697053	229.0498711	ppb		98
82)	Benzylbutyl phthalate	12.01	149	390693	237.9575757	ppb		93
83)	3,3-Dichlorobenzidine	12.60	252	266651	244.9489473	ppb		99
84)	Benzo(a)anthracene	12.64	228	724143	229.3496178	ppb		95
85)	Chrysene	12.69	228	663702	231.7850750	ppb		96
86)	bis(2-Ethylhexyl)phthalate	12.60	149	598678	235.2677426	ppb		98
87)	Di-n-octyl phthalate	13.26	149	1040490	235.6215289	ppb		100
89)	Benzo(b)fluoranthene	13.73	252	884888	260.7288844	ppb		93
90)	Benzo(k)fluoranthene	13.76	252	650346	211.0873416	ppb		93
91)	Benzo(a)pyrene	14.04	252	767099	241.4382944	ppb		93
92)	Indeno(1,2,3-cd)pyrene	15.16	276	895594	255.9818192	ppb		83
93)	Dibenz(a,h)anthracene	15.15	278	763530	261.4286445	ppb		89
94)	Benzo(g,h,i)perylene	15.46	276	721495	248.5038644	ppb		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 15.D Vial: 72
Acq On : 31 Oct 2014 3:49 pm Operator: 280
Sample : MSD 1x WG751196 L729568-02 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 3 10:30 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 19.D Vial: 76
Acq On : 31 Oct 2014 5:17 pm Operator: 280
Sample : L729802-01 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	98977	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	392916	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	255068	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	457572	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	559781	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	638529	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	227960	435.0978414 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 65.33%		
7) Phenol-d5	4.71	99	260232	407.4106727 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 61.17%		
23) Nitrobenzene-d5	5.59	82	117761	206.2326160 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 61.93%		
44) 2-Fluorobiphenyl	7.44	172	309119	238.7813803 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 71.71%		
67) 2,4,6-Tribromophenol	9.03	330	81484	522.7196344 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 78.49%		
81) p-Terphenyl-d14	11.50	244	370039	181.4111456 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 54.48%		

Target Compounds					Qvalue
2) Pyridine	3.28	79	57	N.D.	
3) N-Nitrosodimethylamine	2.93	42	164	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	994	N.D.	
8) Phenol	4.72	94	330	N.D.	
9) Benzaldehyde	4.72	105	54	N.D.	
10) 2-Chlorophenol	4.88	128	75	N.D.	
11) n-Decane	4.90	41	4877	14.3039300 ppb #	97
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	5.18	79	70	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.32	121	57	N.D.	
17) 2-Methylphenol	5.24	108	58	N.D.	
18) Hexachloroethane	5.65	117	53	N.D.	
19) N-Nitrosodi-n-propylamine	5.32	70	68	N.D.	
20) 3&4-Methyl phenol	5.18	107	178	N.D.	
21) Acetophenone	5.44	105	165	N.D.	
24) Nitrobenzene	5.58	77	686	N.D.	
25) Isophorone	5.83	82	59	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	5.74	107	65	N.D.	
28) bis(2-Chlorethoxy)methane	5.95	93	54	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.33	128	2034	N.D.	
33) 4-Chloroaniline	6.45	65	57	N.D.	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	61	N.D.	
36) 4-Chloro-3-methylphenol	6.66	107	74	N.D.	
37) 2-Methylnaphthalene	7.16	142	88	N.D.	
38) 1-Methylnaphthalene	7.16	142	88	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 19.D Vial: 76
Acq On : 31 Oct 2014 5:17 pm Operator: 280
Sample : L729802-01 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

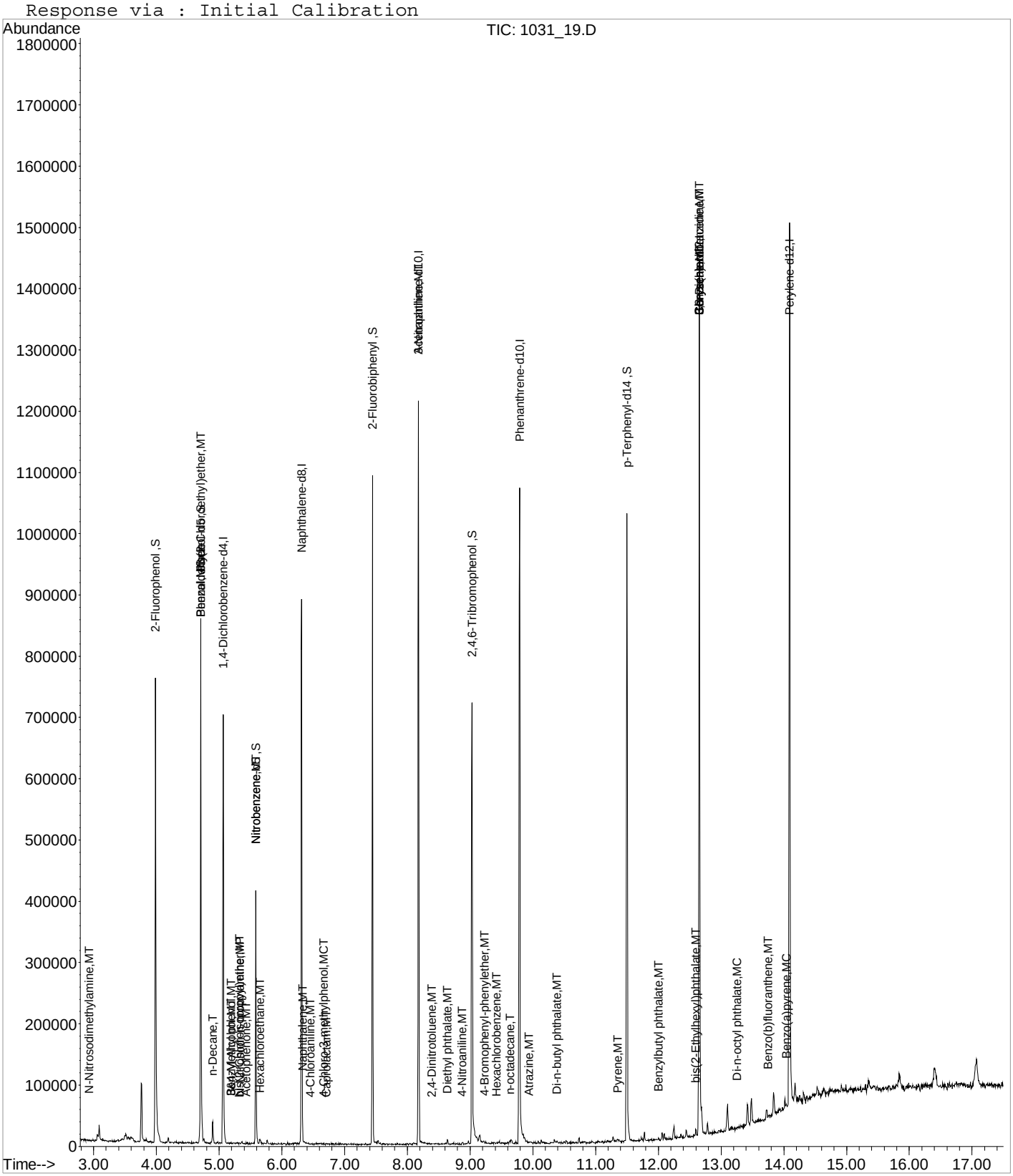
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.55	154	75	N.D.	
46)	2-Chloronaphthalene	7.50	162	59	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	8.14	152	59	N.D.	
49)	Dimethyl phthalate	7.87	163	57	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.18	138	198	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.38	165	58	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	680	N.D.	
61)	4-Nitroaniline	8.87	138	55	N.D.	
62)	Azobenzene	8.92	77	61	N.D.	
63)	Atrazine	9.94	200	59	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	9.23	248	56	N.D.	
69)	Hexachlorobenzene	9.42	284	59	N.D.	
70)	n-octadecane	9.64	55	441	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	9.85	178	120	N.D.	
73)	Anthracene	9.87	178	60	N.D.	
74)	Carbazole	10.21	167	53	N.D.	
75)	Di-n-butyl phthalate	10.38	149	2013	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.10	202	164	N.D.	
79)	Benzidine	0.00	184	0	N.D.	d
80)	Pyrene	11.36	202	436	N.D.	
82)	Benzylbutyl phthalate	12.01	149	668	N.D.	
83)	3,3-Dichlorobenzidine	12.66	252	136	N.D.	
84)	Benzo(a)anthracene	12.66	228	1502	N.D.	
85)	Chrysene	12.66	228	1502	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	4568	N.D.	
87)	Di-n-octyl phthalate	13.25	149	1106	N.D.	
89)	Benzo(b)fluoranthene	13.75	252	442	N.D.	
90)	Benzo(k)fluoranthene	13.77	252	142	N.D.	
91)	Benzo(a)pyrene	14.04	252	479	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.20	276	140	N.D.	
93)	Dibenz(a,h)anthracene	15.16	278	200	N.D.	
94)	Benzo(g,h,i)perylene	15.47	276	204	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 19.D Vial: 76
Acq On : 31 Oct 2014 5:17 pm Operator: 280
Sample : L729802-01 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 20.D Vial: 77
Acq On : 31 Oct 2014 5:39 pm Operator: 280
Sample : L729802-03 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	107215	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	430923	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	275287	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	493959	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	622404	8000.00 ppb	-0.02
88) Perylene-d12	14.09	264	693832	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	256258	451.5277527 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 67.80%		
7) Phenol-d5	4.71	99	274785	397.1398434 ppb	0.00
Spiked Amount 666.000	Range 26 - 121		Recovery = 59.63%		
23) Nitrobenzene-d5	5.59	82	138316	220.8657255 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 66.33%		
44) 2-Fluorobiphenyl	7.44	172	369499	264.4589686 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 79.42%		
67) 2,4,6-Tribromophenol	9.03	330	86967	516.7964247 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 77.60%		
81) p-Terphenyl-d14	11.50	244	456074	201.0932811 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 60.39%		

Target Compounds					Qvalue
2) Pyridine	2.90	79	68	N.D.	
3) N-Nitrosodimethylamine	2.94	42	197	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	1023	N.D.	
8) Phenol	4.72	94	451	N.D.	
9) Benzaldehyde	4.98	105	157	N.D.	
10) 2-Chlorophenol	4.88	128	245	N.D.	
11) n-Decane	4.89	41	7327	19.8384413 ppb	97
12) 1,3-Dichlorobenzene	5.06	146	56	N.D.	
13) 1,4-Dichlorobenzene	5.06	146	56	N.D.	
14) Benzyl Alcohol	5.22	79	106	N.D.	
15) 1,2-Dichlorobenzene	5.06	146	56	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.17	121	71	N.D.	
17) 2-Methylphenol	5.37	108	54	N.D.	
18) Hexachloroethane	5.65	117	64	N.D.	
19) N-Nitrosodi-n-propylamine	5.43	70	73	N.D.	
20) 3&4-Methyl phenol	5.55	107	55	N.D.	
21) Acetophenone	5.44	105	102	N.D.	
24) Nitrobenzene	5.59	77	772	N.D.	
25) Isophorone	5.82	82	198	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	5.99	107	62	N.D.	
28) bis(2-Chlorethoxy)methane	6.15	93	112	N.D.	
29) 2,4-Dichlorophenol	6.25	162	56	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.33	128	2113	N.D.	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	6.20	225	58	N.D.	
35) Caprolactam	6.70	113	364	N.D.	
36) 4-Chloro-3-methylphenol	6.92	107	69	N.D.	
37) 2-Methylnaphthalene	6.92	142	54	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 20.D Vial: 77
Acq On : 31 Oct 2014 5:39 pm Operator: 280
Sample : L729802-03 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

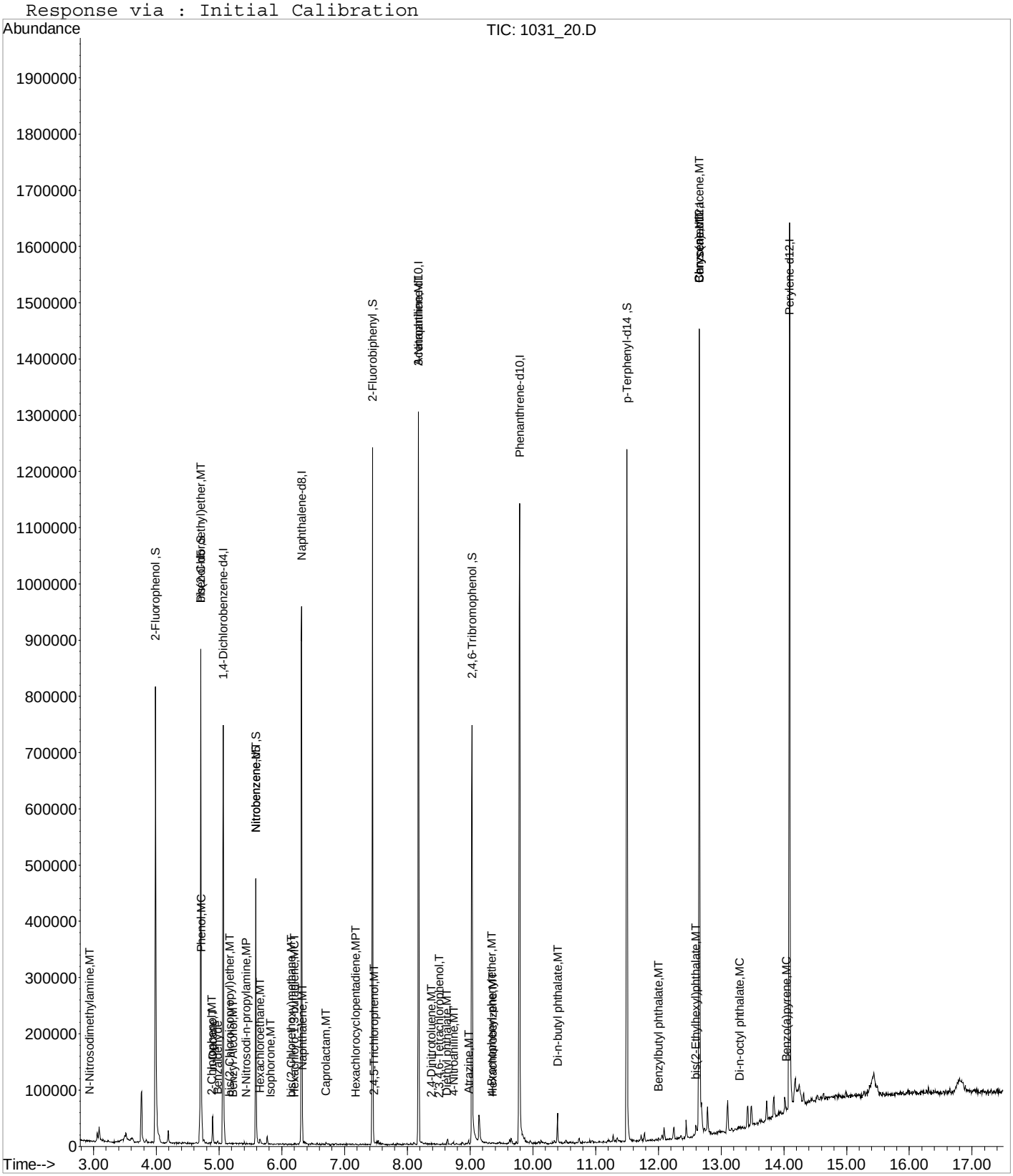
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.18	237	61	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	7.47	196	65	N.D.	
45)	Biphenyl	7.57	154	59	N.D.	
46)	2-Chloronaphthalene	7.53	162	155	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	8.00	152	53	N.D.	
49)	Dimethyl phthalate	7.94	163	68	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	8.18	138	82	N.D.	
52)	Acenaphthene	8.18	153	125	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.38	165	63	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.50	232	65	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	d
58)	Fluorene	8.78	166	60	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	440	N.D.	
61)	4-Nitroaniline	8.73	138	60	N.D.	
62)	Azobenzene	8.90	77	96	N.D.	
63)	Atrazine	8.97	200	59	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	9.34	248	62	N.D.	
69)	Hexachlorobenzene	9.37	284	68	N.D.	
70)	n-octadecane	0.00	55	0	N.D.	d
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	9.87	178	175	N.D.	
73)	Anthracene	9.87	178	175	N.D.	
74)	Carbazole	10.15	167	129	N.D.	
75)	Di-n-butyl phthalate	10.39	149	2269	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.11	202	157	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.35	202	363	N.D.	
82)	Benzylbutyl phthalate	12.00	149	856	N.D.	
83)	3,3-Dichlorobenzidine	12.59	252	87	N.D.	
84)	Benzo(a)anthracene	12.65	228	2056	N.D.	
85)	Chrysene	12.65	228	2056	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	7532	N.D.	
87)	Di-n-octyl phthalate	13.30	149	3799	N.D.	
89)	Benzo(b)fluoranthene	13.73	252	396	N.D.	
90)	Benzo(k)fluoranthene	13.76	252	296	N.D.	
91)	Benzo(a)pyrene	14.04	252	449	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.13	276	131	N.D.	
93)	Dibenz(a,h)anthracene	15.19	278	58	N.D.	
94)	Benzo(g,h,i)perylene	15.45	276	59	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 20.D Vial: 77
Acq On : 31 Oct 2014 5:39 pm Operator: 280
Sample : L729802-03 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:49 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 21.D Vial: 78
Acq On : 31 Oct 2014 6:01 pm Operator: 280
Sample : L729802-04 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:50 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	101681	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	412484	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	263384	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	464740	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	579544	8000.00 ppb	-0.02
88) Perylene-d12	14.10	264	642401	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	234467	435.6166637 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 65.41%		
7) Phenol-d5	4.71	99	250710	382.0655118 ppb	-0.01
Spiked Amount 666.000	Range 26 - 121		Recovery = 57.37%		
23) Nitrobenzene-d5	5.59	82	122238	203.9175987 ppb	-0.01
Spiked Amount 333.000	Range 22 - 129		Recovery = 61.24%		
44) 2-Fluorobiphenyl	7.44	172	339331	253.8428197 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 76.23%		
67) 2,4,6-Tribromophenol	9.03	330	78029	492.8354073 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 74.00%		
81) p-Terphenyl-d14	11.50	244	428385	202.8534799 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 60.92%		

Target Compounds					Qvalue
2) Pyridine	2.94	79	54	N.D.	
3) N-Nitrosodimethylamine	2.95	42	121	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.88	63	201	N.D.	
8) Phenol	4.72	94	321	N.D.	
9) Benzaldehyde	4.69	105	307	N.D.	
10) 2-Chlorophenol	4.88	128	248	N.D.	
11) n-Decane	4.89	41	6293	17.9661420 ppb	95
12) 1,3-Dichlorobenzene	5.06	146	88	N.D.	
13) 1,4-Dichlorobenzene	5.06	146	88	N.D.	
14) Benzyl Alcohol	5.15	79	57	N.D.	
15) 1,2-Dichlorobenzene	5.06	146	88	N.D.	
16) bis(2-Chloroisopropyl)ethe	5.36	121	60	N.D.	
17) 2-Methylphenol	5.16	108	56	N.D.	
18) Hexachloroethane	5.54	117	54	N.D.	
19) N-Nitrosodi-n-propylamine	5.43	70	73	N.D.	
20) 3&4-Methyl phenol	5.67	107	67	N.D.	
21) Acetophenone	5.44	105	124	N.D.	
24) Nitrobenzene	5.58	77	375	N.D.	
25) Isophorone	5.85	82	72	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	5.67	107	67	N.D.	
28) bis(2-Chlorethoxy)methane	6.00	93	55	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.39	180	58	N.D.	
32) Naphthalene	6.33	128	2029	N.D.	
33) 4-Chloroaniline	6.40	65	53	N.D.	
34) Hexachloro-1,3-butadiene	6.42	225	62	N.D.	
35) Caprolactam	6.70	113	361	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	7.44	142	175	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 21.D Vial: 78
Acq On : 31 Oct 2014 6:01 pm Operator: 280
Sample : L729802-04 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:50 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

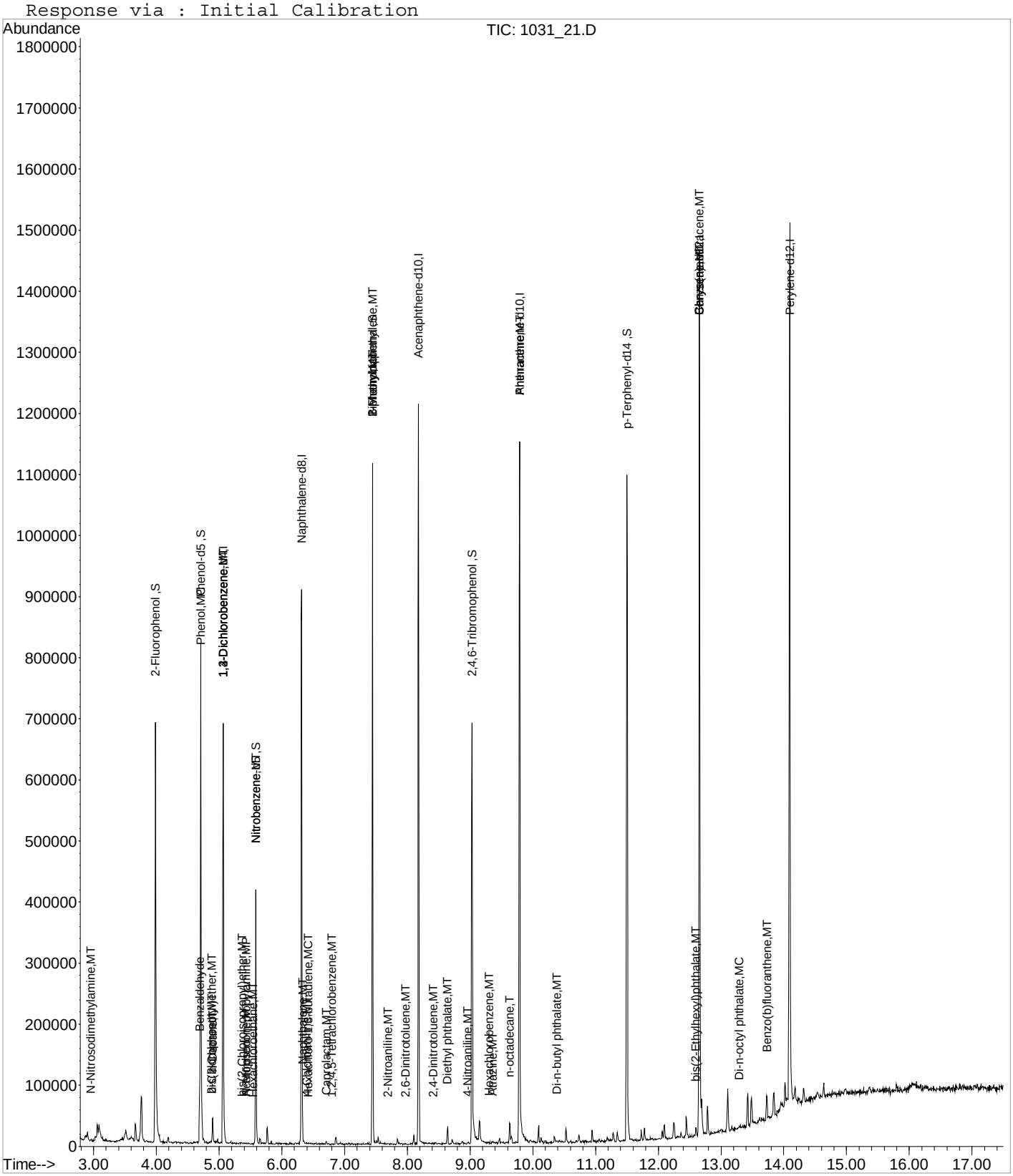
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	6.80	216	96	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.44	154	669	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	7.70	138	60	N.D.	
48)	Acenaphthylene	8.07	152	84	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	7.97	165	54	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	8.18	153	96	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	8.41	165	55	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	8.71	166	80	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	420	N.D.	
61)	4-Nitroaniline	8.96	138	67	N.D.	
62)	Azobenzene	8.84	77	63	N.D.	
63)	Atrazine	9.37	200	61	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	9.30	284	57	N.D.	
70)	n-octadecane	9.63	55	3378	13.6148948 ppb	# 75
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	10.06	178	55	N.D.	
73)	Anthracene	9.79	178	586	N.D.	
74)	Carbazole	9.79	167	190	N.D.	
75)	Di-n-butyl phthalate	10.39	149	2031	N.D.	
76)	2-nitrodiphenylamine	10.55	167	56	N.D.	
77)	Fluoranthene	11.10	202	286	N.D.	
79)	Benzidine	0.00	184	0	N.D.	d
80)	Pyrene	11.36	202	56	N.D.	
82)	Benzylbutyl phthalate	11.97	149	154	N.D.	
83)	3,3-Dichlorobenzidine	12.57	252	87	N.D.	
84)	Benzo(a)anthracene	12.66	228	2034	N.D.	
85)	Chrysene	12.66	228	2034	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	6105	N.D.	
87)	Di-n-octyl phthalate	13.30	149	1901	N.D.	
89)	Benzo(b)fluoranthene	13.74	252	679	N.D.	
90)	Benzo(k)fluoranthene	13.78	252	143	N.D.	
91)	Benzo(a)pyrene	14.04	252	160	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.17	276	141	N.D.	
93)	Dibenz(a,h)anthracene	15.17	278	56	N.D.	
94)	Benzo(g,h,i)perylene	15.46	276	53	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 21.D Vial: 78
Acq On : 31 Oct 2014 6:01 pm Operator: 280
Sample : L729802-04 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:50 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 22.D Vial: 79
Acq On : 31 Oct 2014 6:22 pm Operator: 280
Sample : L729802-05 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.06	152	108521	8000.00 ppb	-0.01
22) Naphthalene-d8	6.32	136	428903	8000.00 ppb	-0.01
40) Acenaphthene-d10	8.18	164	274685	8000.00 ppb	-0.02
64) Phenanthrene-d10	9.79	188	493965	8000.00 ppb	-0.02
78) Chrysene-d12	12.66	240	612583	8000.00 ppb	-0.02
88) Perylene-d12	14.09	264	668234	8000.00 ppb	-0.02

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	232135	404.1005163 ppb	0.00
Spiked Amount 666.000	Range 21 - 116		Recovery = 60.68%		
7) Phenol-d5	4.71	99	247276	353.0808539 ppb	-0.01
Spiked Amount 666.000	Range 26 - 121		Recovery = 53.02%		
23) Nitrobenzene-d5	5.58	82	120599	193.4818372 ppb	-0.02
Spiked Amount 333.000	Range 22 - 129		Recovery = 58.10%		
44) 2-Fluorobiphenyl	7.44	172	332758	238.6845437 ppb	-0.02
Spiked Amount 333.000	Range 35 - 129		Recovery = 71.68%		
67) 2,4,6-Tribromophenol	9.03	330	74757	444.2338019 ppb	-0.02
Spiked Amount 666.000	Range 22 - 142		Recovery = 66.70%		
81) p-Terphenyl-d14	11.50	244	435568	195.1307196 ppb	-0.02
Spiked Amount 333.000	Range 22 - 128		Recovery = 58.60%		

Target Compounds					Qvalue
2) Pyridine	2.91	79	298	N.D.	
3) N-Nitrosodimethylamine	2.94	42	167	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	4.71	63	953	N.D.	
8) Phenol	4.72	94	642	N.D.	
9) Benzaldehyde	4.69	105	238	N.D.	
10) 2-Chlorophenol	4.87	128	78	N.D.	
11) n-Decane	4.89	41	7225	19.3268453 ppb #	90
12) 1,3-Dichlorobenzene	5.09	146	54	N.D.	
13) 1,4-Dichlorobenzene	5.09	146	54	N.D.	
14) Benzyl Alcohol	5.18	79	181	N.D.	
15) 1,2-Dichlorobenzene	5.09	146	54	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	5.31	108	65	N.D.	
18) Hexachloroethane	5.53	117	91	N.D.	
19) N-Nitrosodi-n-propylamine	5.40	70	60	N.D.	
20) 3&4-Methyl phenol	5.22	107	63	N.D.	
21) Acetophenone	5.43	105	199	N.D.	
24) Nitrobenzene	5.58	77	584	N.D.	
25) Isophorone	5.84	82	68	N.D.	
26) 2-Nitrophenol	5.81	139	66	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	6.15	93	55	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.33	180	69	N.D.	
32) Naphthalene	6.33	128	2542	N.D.	
33) 4-Chloroaniline	6.34	65	57	N.D.	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.70	113	363	N.D.	
36) 4-Chloro-3-methylphenol	6.79	107	61	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	7.33	142	62	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 22.D Vial: 79
Acq On : 31 Oct 2014 6:22 pm Operator: 280
Sample : L729802-05 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

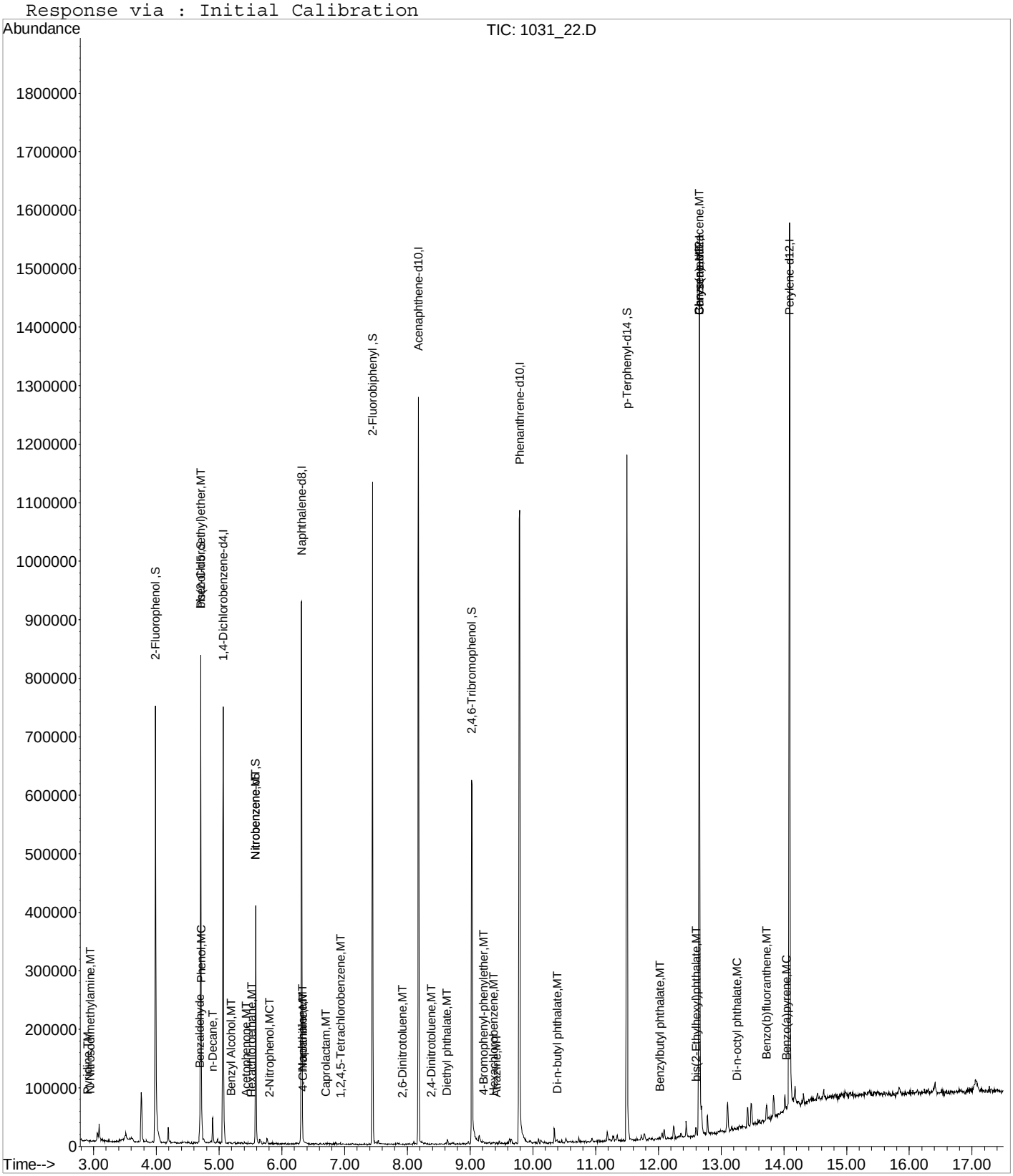
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	6.94	216	72	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.56	154	87	N.D.	
46)	2-Chloronaphthalene	7.53	162	72	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	8.16	152	60	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	7.91	165	66	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	8.17	153	153	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	8.40	168	58	N.D.	
55)	2,4-Dinitrotoluene	8.38	165	71	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	8.73	166	55	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.63	149	202	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	8.95	77	95	N.D.	
63)	Atrazine	9.41	200	55	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	9.21	248	55	N.D.	
69)	Hexachlorobenzene	9.38	284	79	N.D.	
70)	n-octadecane	0.00	55	0	N.D.	d
71)	Pentachlorophenol	0.00	266	0	N.D.	d
72)	Phenanthrene	9.88	178	69	N.D.	
73)	Anthracene	9.84	178	99	N.D.	
74)	Carbazole	10.03	167	58	N.D.	
75)	Di-n-butyl phthalate	10.39	149	2854	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	10.96	202	57	N.D.	
79)	Benzidine	0.00	184	0	N.D.	
80)	Pyrene	11.35	202	358	N.D.	
82)	Benzylbutyl phthalate	12.03	149	590	N.D.	
83)	3,3-Dichlorobenzidine	12.59	252	72	N.D.	
84)	Benzo(a)anthracene	12.66	228	2203	N.D.	
85)	Chrysene	12.66	228	2203	N.D.	
86)	bis(2-Ethylhexyl)phthalate	12.60	149	5888	N.D.	
87)	Di-n-octyl phthalate	13.26	149	2008	N.D.	
89)	Benzo(b)fluoranthene	13.73	252	502	N.D.	
90)	Benzo(k)fluoranthene	13.76	252	176	N.D.	
91)	Benzo(a)pyrene	14.04	252	497	N.D.	
92)	Indeno(1,2,3-cd)pyrene	15.13	276	53	N.D.	
93)	Dibenz(a,h)anthracene	15.15	278	77	N.D.	
94)	Benzo(g,h,i)perylene	15.46	276	79	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\103114\1031 22.D Vial: 79
Acq On : 31 Oct 2014 6:22 pm Operator: 280
Sample : L729802-05 1x WG751196 15-0.5 Inst : BNAMS4
Misc : soil 14J29852/14J29853 Multiplr: 0.03
MS Integration Params: RTEINT.P
Quant Time: Nov 5 14:51 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration



Calibration

Instrument: BNAMS4
Method: S804J16N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1016A_03.D	200	10/16/2014 5:01:00 PM
1016A_04.D	1000	10/16/2014 5:23:00 PM
1016A_05.D	2000	10/16/2014 5:44:00 PM
1016A_06.D	5000	10/16/2014 6:06:00 PM
1016A_02.D	10000	10/16/2014 4:39:00 PM
1016A_07.D	20000	10/16/2014 6:28:00 PM
1016A_08.D	30000	10/16/2014 6:50:00 PM
1016A_09.D	40000	10/16/2014 7:12:00 PM
1016A_10.D	50000	10/16/2014 7:33:00 PM
1016A_12.D	.2K1	10/16/2014 8:17:00 PM
1016A_13.D	1K1	10/16/2014 8:39:00 PM
1016A_14.D	2K1	10/16/2014 9:00:00 PM
1016A_15.D	5K1	10/16/2014 9:22:00 PM
1016A_11.D	10K1	10/16/2014 7:55:00 PM
1016A_16.D	20K1	10/16/2014 9:44:00 PM
1016A_17.D	30K1	10/16/2014 10:06:00 PM
1016A_18.D	40K1	10/16/2014 10:27:00 PM
1016A_19.D	50K1	10/16/2014 10:49:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Chris McCord
Date Released : 10/17/2014 10:26:46 AM
Run ID : 101614A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1016A_01	TUNE 50 PPM 14F19703								1	10/16/14 1618	
2	1016A_02	MSTD SVMS 10K PPB 14G09881	S804J16N						1	1	10/16/14 1639	"8270 Primary Calibration"
3	1016A_03	STD SVMS 200 PPB 14G09881	S804J16N						1	1	10/16/14 1701	"8270 Primary Calibration"
4	1016A_03 MRL	MRL SVMS 200 PPB 14G09881	S804J16N						1	1	10/16/14 1701	"8270 Primary Calibration"
5	1016A_04	STD SVMS 1K PPB 14G09881	S804J16N						1	1	10/16/14 1723	"8270 Primary Calibration"
6	1016A_05	STD SVMS 2K PPB 14G09881	S804J16N						1	1	10/16/14 1744	"8270 Primary Calibration"
7	1016A_05 MRL	MRL SVMS 2K PPB 14G09881	S804J16N						1	1	10/16/14 1744	"8270 Primary Calibration"
8	1016A_06	STD SVMS 5K PPB 14G09881	S804J16N						1	1	10/16/14 1806	"8270 Primary Calibration"
9	1016A_07	STD SVMS 20K PPB 14G09881	S804J16N						1	1	10/16/14 1828	"8270 Primary Calibration"
10	1016A_08	STD SVMS 30K PPB 14G09881	S804J16N						1	1	10/16/14 1850	"8270 Primary Calibration"
11	1016A_09	STD SVMS 40K PPB 14G09881	S804J16N						1	1	10/16/14 1912	"8270 Primary Calibration"
12	1016A_10	STD SVMS 50K PPB 14G09881	S804J16N						1	1	10/16/14 1933	"8270 Primary Calibration"
13	1016A_11	MSTD TCL 10K1 PPB 14G09882	S804J16N						1	1	10/16/14 1955	"8270 TCL Calibration"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS4
Computer Name : SVCOMPH
Released By : Chris McCord
Date Released : 10/17/2014 10:26:46 AM
Run ID : 101614A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	1016A_12	STD TCL .2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2017	"8270 TCL Calibration"
15	1016A_13	STD TCL 1K1 PPB 14G09882	S804J16N						1	1	10/16/14 2039	"8270 TCL Calibration"
16	1016A_14	STD TCL 2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2100	"8270 TCL Calibration"
17	1016A_14 MRL	MRL TCL 2K1 PPB 14G09882	S804J16N						1	1	10/16/14 2100	"8270 TCL Calibration"
18	1016A_15	STD TCL 5K1 PPB 14G09882	S804J16N						1	1	10/16/14 2122	"8270 TCL Calibration"
19	1016A_16	STD TCL 20K1 PPB 14G09882	S804J16N						1	1	10/16/14 2144	"8270 TCL Calibration"
20	1016A_17	STD TCL 30K1 PPB 14G09882	S804J16N						1	1	10/16/14 2206	"8270 TCL Calibration"
21	1016A_18	STD TCL 40K1 PPB 14G09882	S804J16N						1	1	10/16/14 2227	"8270 TCL Calibration"
22	1016A_19	STD TCL 50K1 PPB 14G09882	S804J16N						1	1	10/16/14 2249	"8270 TCL Calibration"
23	1016A_20	SSCV SVMS 10K PPB 14C29003	S804J16N						1	1	10/16/14 2311	"8270 sscv"

Mint Miner 2.6.4 Directory Scan: z:\101614A

17 Oct 2014 12:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_01.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_01.D					
5	Scanned	TA(1)	280	BNAMS4	TUNE 50 PPM 14F19703 (DFTPP)
Scan File Path: z:\101614A\1016A_02.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_02.D					
14	Scanned	M(4), D(10)	280	BNAMS4	MSTD SVMS 10K PPB 14G09881 (8270 Primar
Scan File Path: z:\101614A\1016A_03.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_03.D					
9	Scanned	D(7), M(2)	280	BNAMS4	STD SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_03MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_03MRL.D					
29	Scanned	D(14), M(4), MT(2), ENR(1)	280	BNAMS4	MRL SVMS 200 PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_04.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_04.D					
7	Scanned	D(7)	280	BNAMS4	STD SVMS 1K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_05.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_05.D					
8	Scanned	D(8)	280	BNAMS4	STD SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_05MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_05MRL.D					
55	Scanned	D(16), QM(1), MR(3), MP(4), M(4), MM(1), ENR(1)	280	BNAMS4	MRL SVMS 2K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_06.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_06.D					
12	Scanned	D(10), M(2)	280	BNAMS4	STD SVMS 5K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_07.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_07.D					
10	Scanned	D(10)	280	BNAMS4	STD SVMS 20K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_08.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_08.D					
10	Scanned	D(10)	280	BNAMS4	STD SVMS 30K PPB 14G09881 (8270 Primary C
Scan File Path: z:\101614A\1016A_09.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_09.D					
11	Scanned	D(10), M(1)	280	BNAMS4	STD SVMS 40K PPB 14G09881 (8270 Primary C

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_10.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_10.D					
11	Scanned	D(10), M(1)	280	BNAMS4	STD SVMS 50K PPB 14G09881 (8270 Primary (
Scan File Path: z:\101614A\1016A_11.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_11.D					
245	Scanned	D(121), DS(10), DC(16), DK(17), DP(6), DB(10), M(5), MT(2), MR(2)	280	BNAMS4	MSTD TCL 10K1 PPB 14G09882 (8270 TCL Ca
Scan File Path: z:\101614A\1016A_12.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_12.D					
103	Scanned	D(55), DS(3), DC(8), DK(6), DP(1), DB(6)	280	BNAMS4	STD TCL .2K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_13.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_13.D					
116	Scanned	D(59), DS(4), DC(8), DK(8), DP(1), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 1K1 PPB 14G09882 (8270 TCL Calibr
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Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_14.D					
103	Scanned	D(52), DS(4), DC(8), DK(8), DP(1), DB(6)	280	BNAMS4	STD TCL 2K1 PPB 14G09882 (8270 TCL Calibr
Scan File Path: z:\101614A\1016A_14MRL.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_14MRL.D					
208	Scanned	D(105), DS(8), DC(16), DK(16), DP(2), DB(12), ENR(1)	280	BNAMS4	MRL TCL 2K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_15.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_15.D					
98	Scanned	D(52), DS(3), DC(8), DK(9), DP(1), DB(5)	280	BNAMS4	STD TCL 5K1 PPB 14G09882 (8270 TCL Calibr
Scan File Path: z:\101614A\1016A_16.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_16.D					
114	Scanned	D(64), DS(5), DC(9), DK(9), DP(2), DB(5)	280	BNAMS4	STD TCL 20K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_17.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_17.D					
104	Scanned	D(57), DS(3), DC(10), DK(8), DP(1), DB(5)	280	BNAMS4	STD TCL 30K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_18.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_18.D					
118	Scanned	D(61), DS(4), DC(9), DK(7), DP(1), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 40K1 PPB 14G09882 (8270 TCL Calib

Mint Miner 2.6.4 Directory Scan: z:\101614A

17 Oct 2014 12:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101614A\1016A_19.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_19.D					
125	Scanned	D(64), DS(5), DC(9), DK(9), DP(2), DB(6), MR(1), M(1)	280	BNAMS4	STD TCL 50K1 PPB 14G09882 (8270 TCL Calib
Scan File Path: z:\101614A\1016A_20.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_20.D					
1	Scanned	ENR(1)	280	BNAMS4	SSCV SVMS 10K PPB 14C29003 (8270 sscv)
Scan File Path: z:\101614A\1016A_21.D					
Original Path: C:\MSDCHEM\1\DATA\101614A\1016A_21.D					
0	Scanned		280	BNAMS4	MRL SVMS 500 PPB 14G09881 (8270 Primary

D	=	Deletion of any analyte	DB	=	Deletion of a common contaminant
DC	=	Deletion of a CCC	DK	=	Deletion of a spike compound
DP	=	Deletion of an SPCC	DS	=	Deletion of a surrogate
ENR	=	Quant report set to not reviewed (Disables MZ code)	M	=	Manual integration (non-specific)
MM	=	More than 3 manual integrations of the same analyte	MP	=	Manual integration of an SPCC
MR	=	Manual integration with before/after ratio <10%	MT	=	Multiple manual integrations of the same analyte >10 minutes apart
QM	=	Processed >3 times using the same method	TA	=	Tune spectrum obtained by spectral averaging

ScanSummary.rpt

Total Files Scanned	24	Beginning Analyzed Date	10/16/2014 4:18:00PM
Methods	0	Ending Analyzed Date	10/16/2014 11:33:00PM
Samples	23	Analyzed Range	7 hours, 15 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 2

Operators 1 Intruments 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

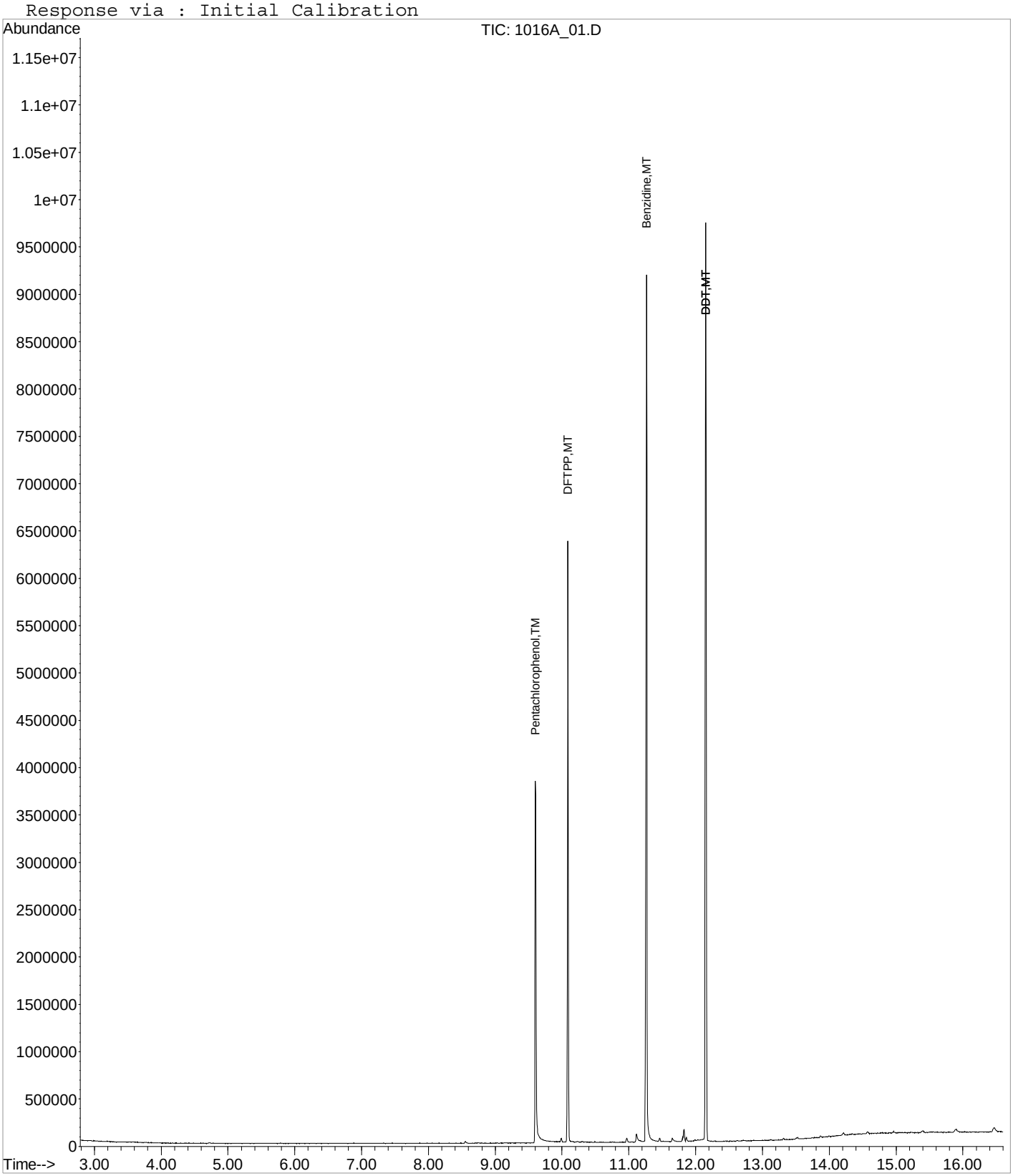
Target Compounds					Qvalue
1) Pentachlorophenol	9.61	264	292685	21.0884261 ug/mL	100
2) DFTPP	10.09	198	696436	29.1726602 ug/mL	100
3) Benzidine	11.26	184	4049969	27.5445061 ug/mL	100
4) DDT	12.15	TIC	9807246	149.7239177 ug/ml	100
5) DDT	12.15	235	1882713	139.9139580 ug/mL	100

(#) = qualifier out of range (m) = manual integration

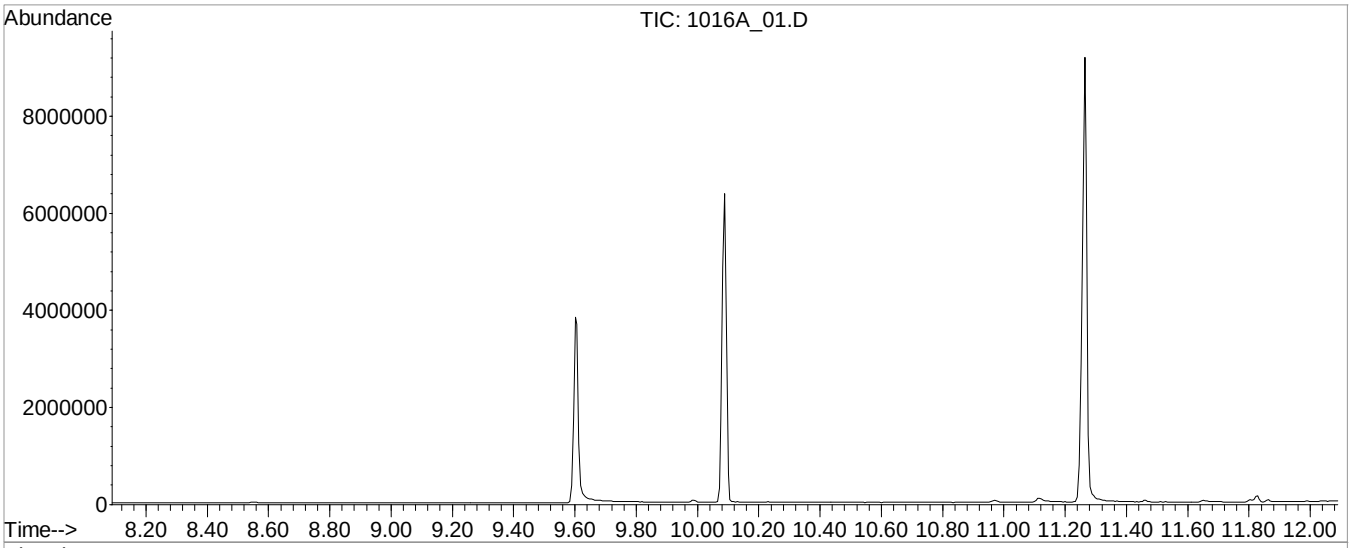
Quantitation Report (QT Reviewed)

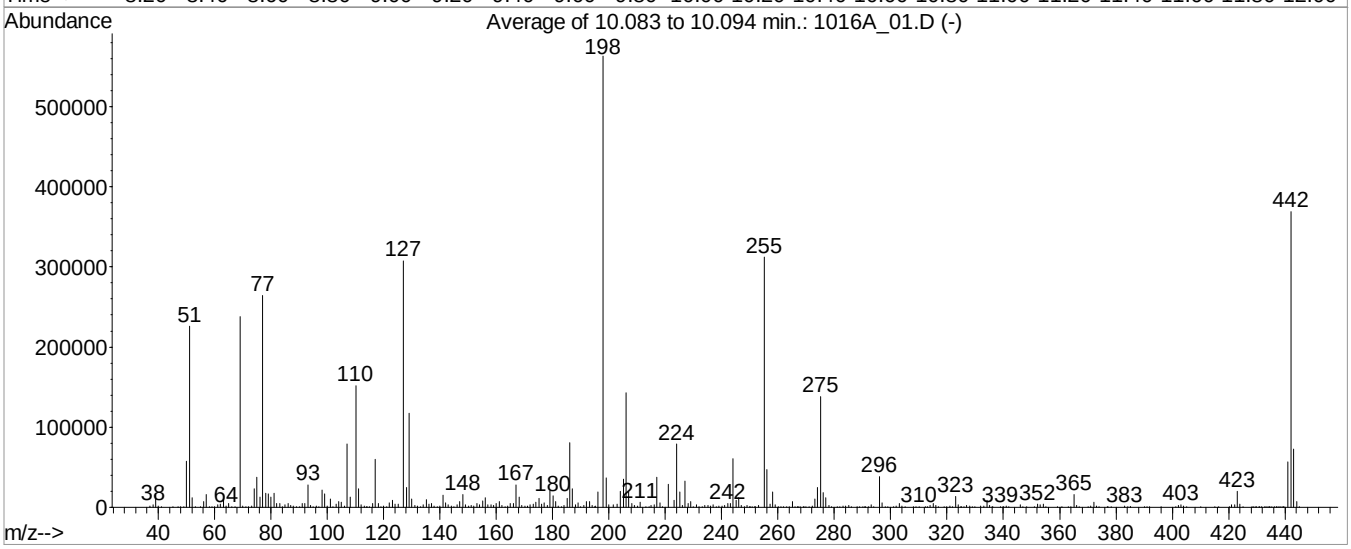
Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: TUNEC.RES

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA

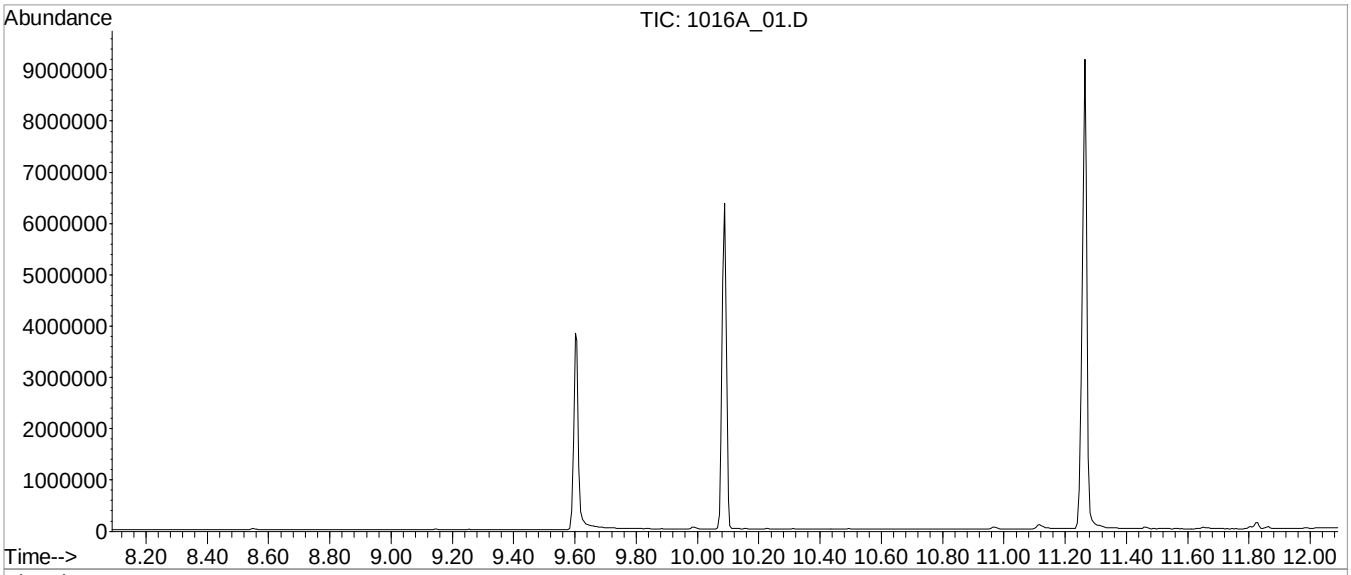


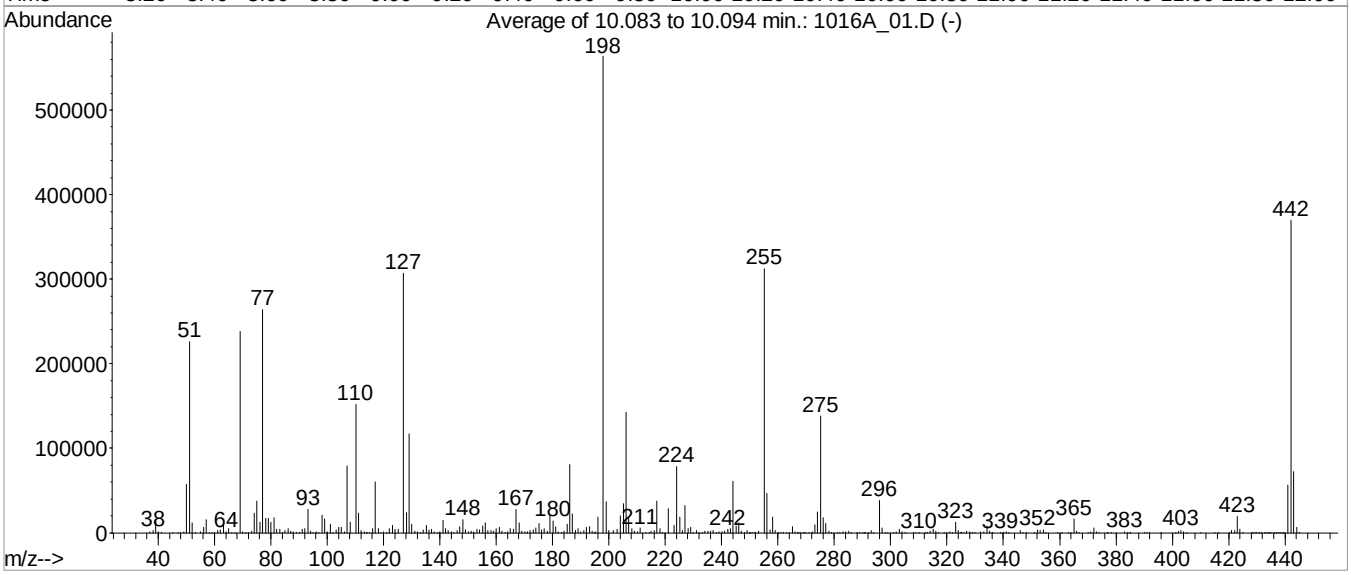


Spectrum Information: Average of 10.083 to 10.094 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.1	226339	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.3	238306	PASS
70	69	0.00	2	0.5	1118	PASS
127	198	40	60	54.5	307264	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	563754	PASS
199	198	5	9	6.5	36810	PASS
275	198	10	30	24.5	138352	PASS
365	198	1	100	2.8	15998	PASS
441	443	0.01	100	78.4	56645	PASS
442	198	40	100	65.6	369578	PASS
443	442	17	23	19.5	72237	PASS

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNED.M (RTE Integrator)
Title : 8270 BNA





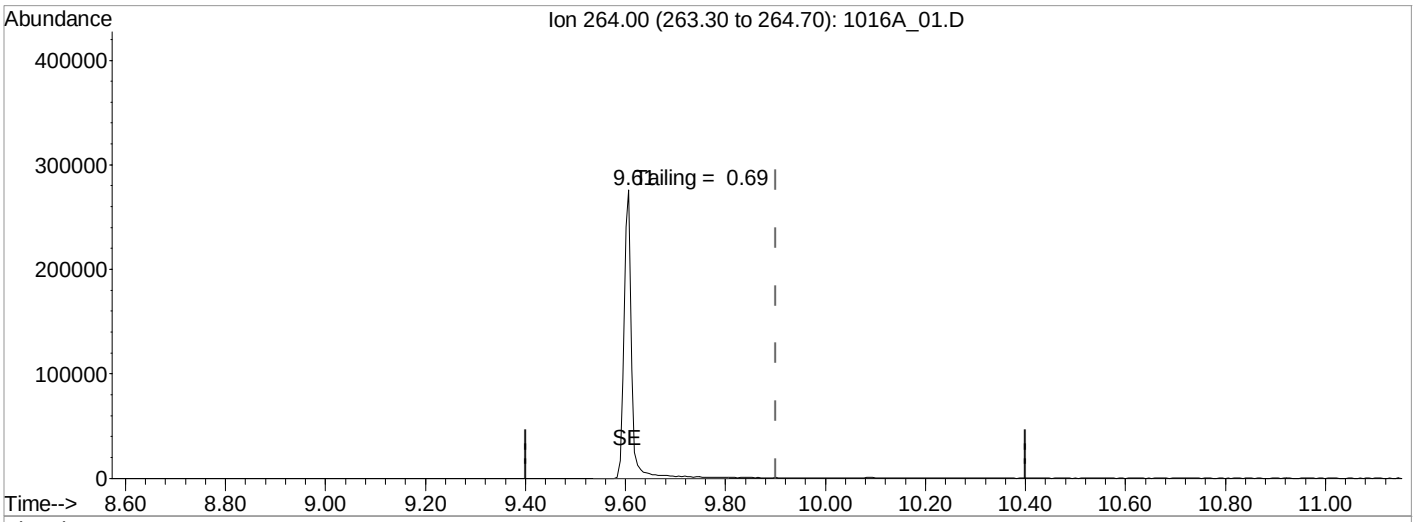
Spectrum Information: Average of 10.083 to 10.094 min.

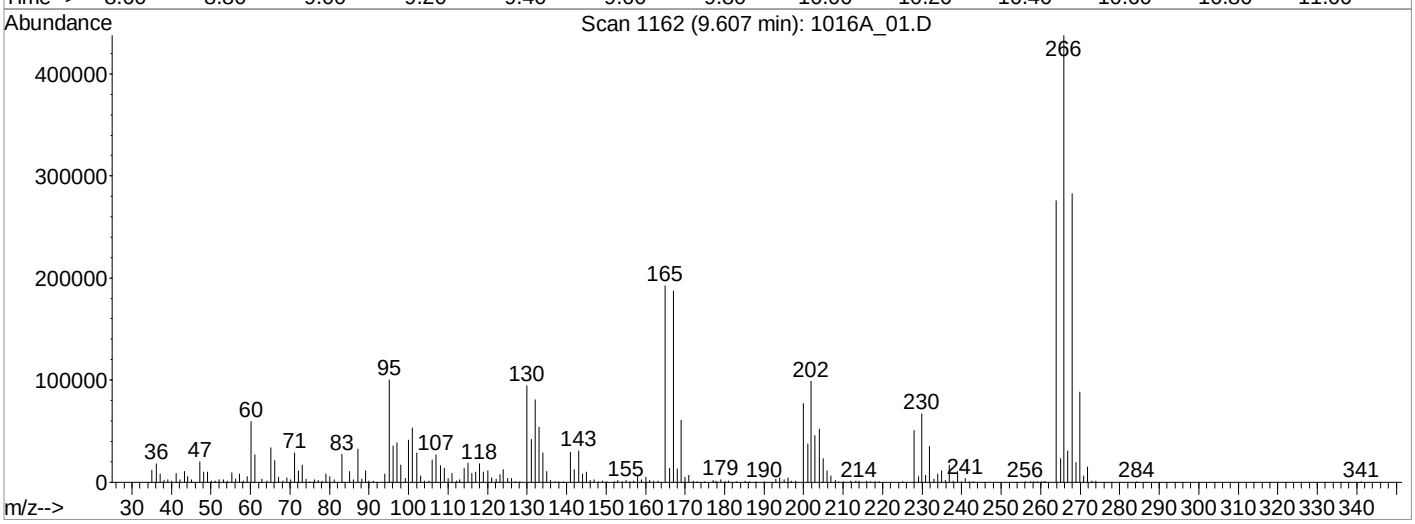
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	226339	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	1118	PASS
127	198	10	80	54.5	307264	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	563754	PASS
199	198	5	9	6.5	36810	PASS
275	198	10	60	24.5	138352	PASS
365	198	1	100	2.8	15998	PASS
441	442	0.01	24	15.3	56645	PASS
442	198	50	100	65.6	369578	PASS
443	442	15	24	19.5	72237	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(1) Pentachlorophenol (TM)

9.61min (-0.294) 21.0884261 ug/mL

Qvalue = 100

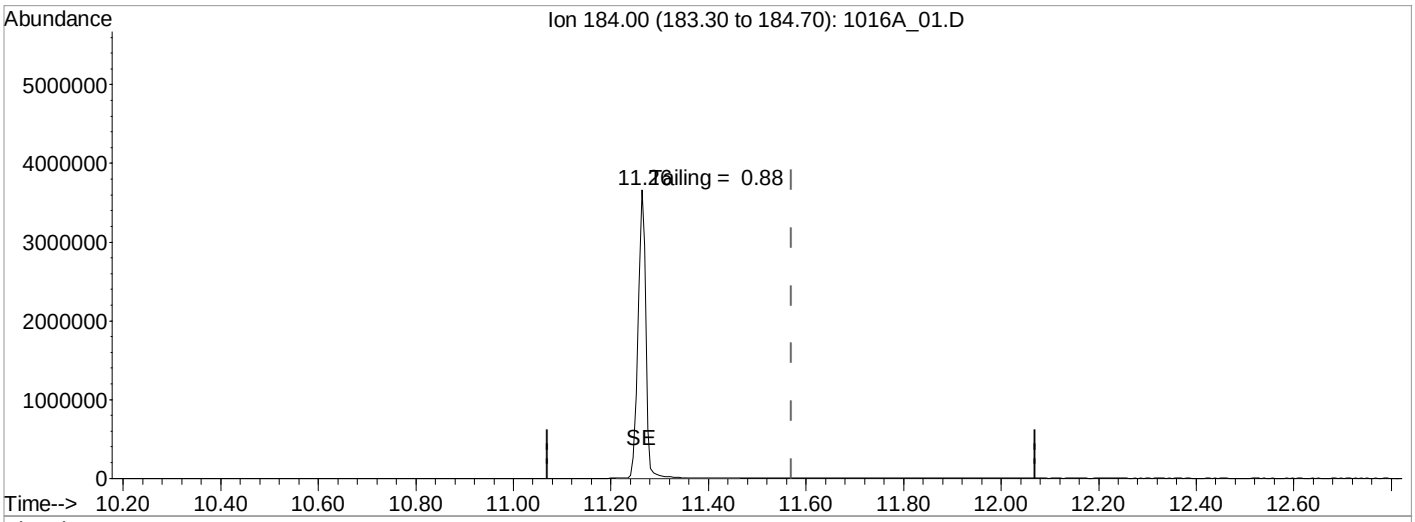
response 292685

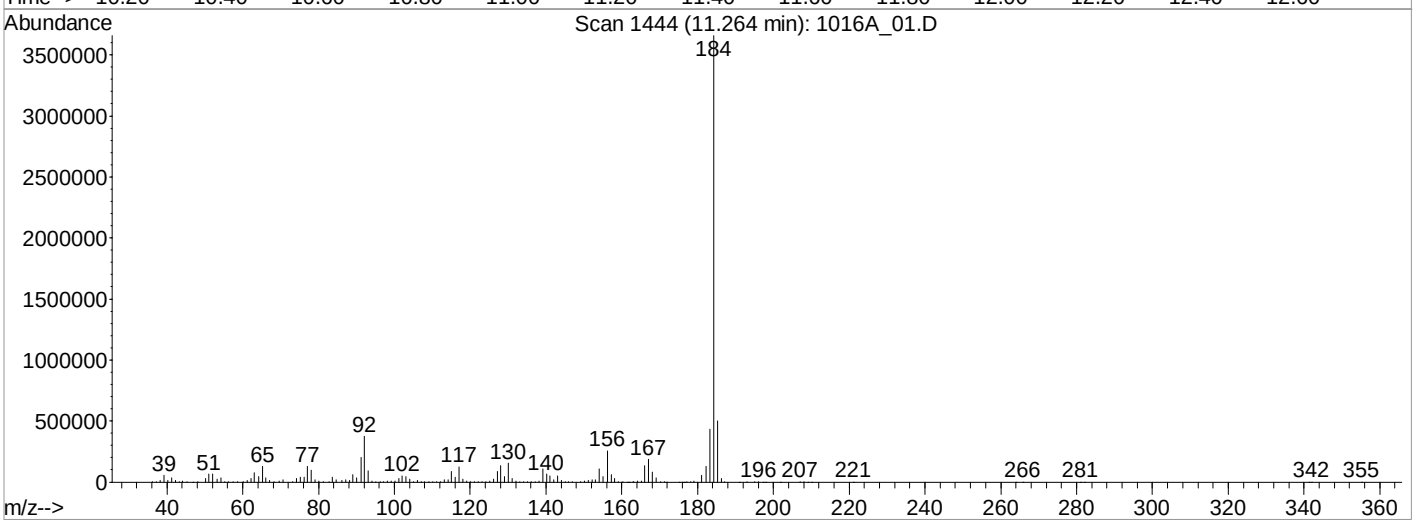
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(3) Benzidine (MT)

11.26min (-0.306) 27.5445061 ug/mL

Qvalue = 100

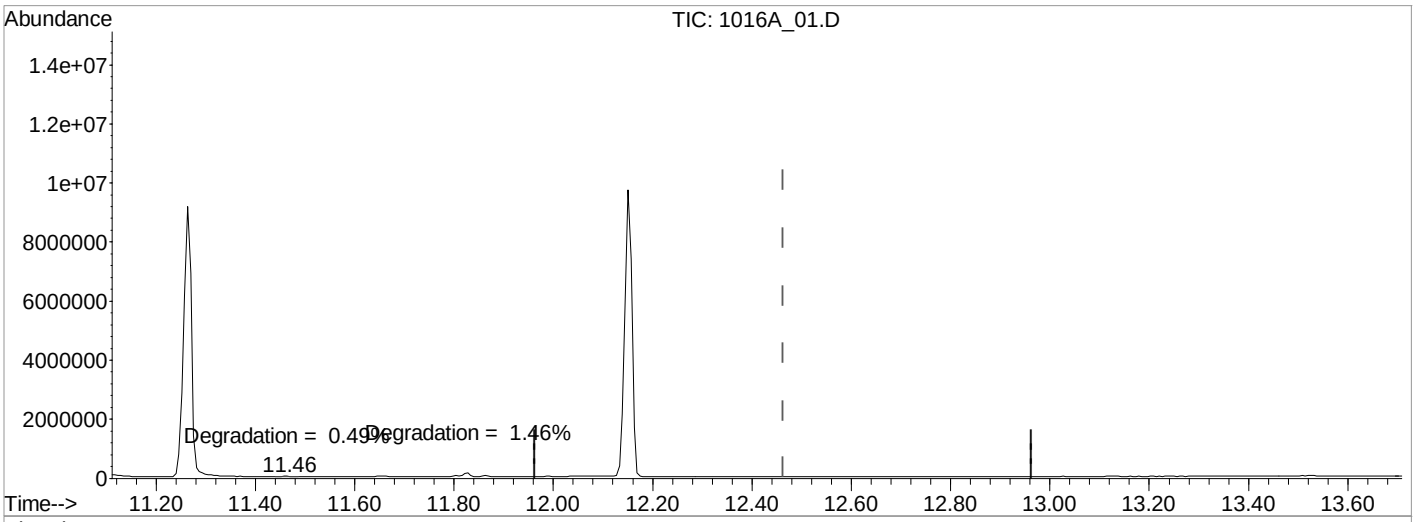
response 4049969

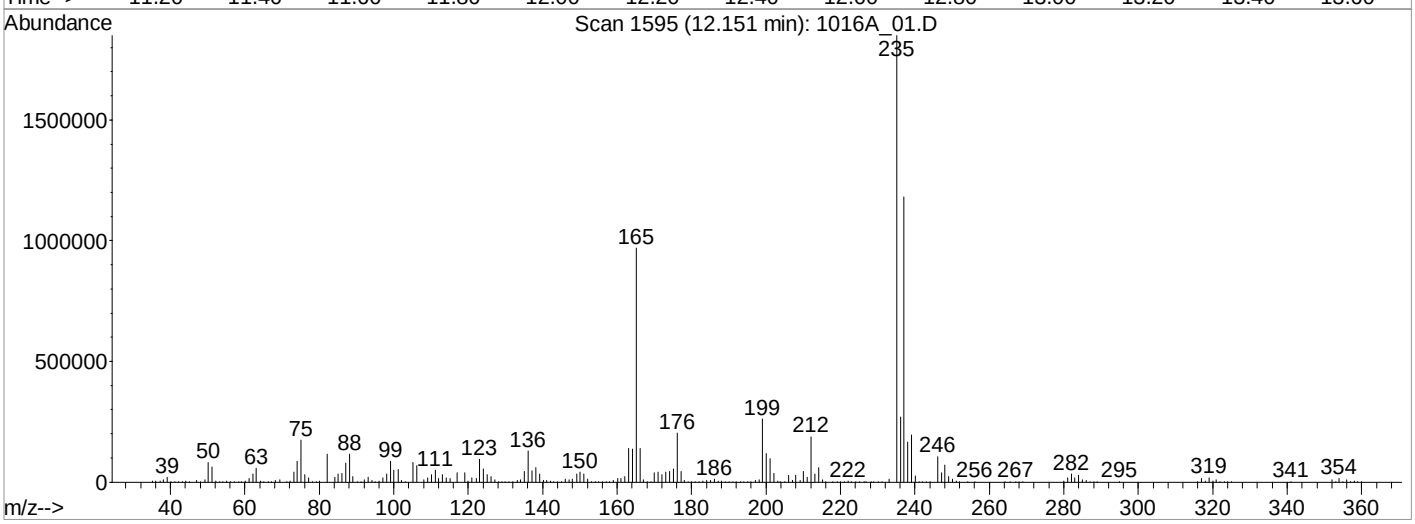
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 01.D Vial: 1
Acq On : 16 Oct 2014 4:18 pm Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS4
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 16:57 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Sep 17 10:33:01 2014
Response via : Single Level Calibration





TIC: 1016A_01.D

(4) DDT (MT)

12.15min (-0.311) 149.7239177 ug/ml

Qvalue = 100

response 9807246

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1
Naphthalene-d8																						

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1
Chrysene-d12																						
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1
Perylene-d12																						
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270C	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:46 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1
Naphthalene-d8																						

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 625	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1
Chrysene-d12																						
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1
Perylene-d12																						
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS4	Review Method	:	625	Released By	: Chris McCord
Method	:	S804J16N	Review Protocol	:	EPA	Released On	: 10/17/2014 10:25:32 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
1,4-Dichlorobenzene-d4																							
Pyridine		2.228	2.214	2.227	2.236	2.257	2.27	2.295	2.258										2.248075	1.2	0.012	1	
N-Nitrosodimethylamine		1.132	1.187	1.103	1.134	1.127	1.148	1.165	1.138										1.141807	2.22	0.022	1	
2-Fluorophenol	1.398	1.417	1.381	1.399	1.411	1.411	1.417	1.437	1.42										1.410171	1.13	0.011	1	
Aniline	0.887	0.892	0.849	0.853	0.829	0.844	0.842	0.842	0.828										0.851797	2.68	0.027	1	
bis(2-Chloroethyl)ether	1.191	1.246	1.164	1.189	1.176	1.192	1.167	1.169	1.139										1.181458	2.48	0.025	1	0.7
Phenol-d5	1.725	1.721	1.694	1.71	1.714	1.73	1.728	1.738	1.713										1.719207	0.77	0.008	1	
Phenol	1.811	1.807	1.75	1.78	1.778	1.774	1.759	1.766	1.73										1.772807	1.44	0.014	1	0.8
Benzaldehyde											0.752	0.722	0.668	0.849	0.647	0.922	0.925	0.881	0.795692	14.13	0.141	1	0.01
2-Chlorophenol	1.512	1.546	1.528	1.562	1.555	1.551	1.554	1.557	1.528										1.543597	1.1	0.011	1	0.8
n-Decane	0.981	1.089	0.91	0.931	0.883	0.884	0.874	0.868	0.839										0.917693	8.32	0.083	1	
1,3-Dichlorobenzene	1.742	1.827	1.695	1.685	1.712	1.697	1.686	1.681	1.641										1.707399	3.06	0.031	1	
1,4-Dichlorobenzene	1.812	1.86	1.744	1.739	1.746	1.724	1.698	1.706	1.665										1.743632	3.4	0.034	1	
Benzyl Alcohol	1.462	1.326	1.247	1.27	1.267	1.284	1.279	1.275	1.241										1.294708	5.21	0.052	1	
1,2-Dichlorobenzene	1.596	1.805	1.694	1.685	1.685	1.657	1.641	1.645	1.612										1.668855	3.66	0.037	1	
bis(2-Chloroisopropyl)ether	0.574	0.506	0.512	0.5	0.493	0.485	0.481	0.479	0.467										0.499842	6.29	0.063	1	
2-Methylphenol	1.392	1.467	1.39	1.395	1.395	1.403	1.388	1.382	1.35										1.395623	2.2	0.022	1	0.7
Hexachloroethane	0.719	0.786	0.746	0.753	0.75	0.752	0.748	0.753	0.737										0.749248	2.35	0.024	1	0.3
N-Nitrosodi-n-propylamine	1.397	1.247	1.127	1.16	1.125	1.14	1.139	1.122	1.098										1.172866	8.03	0.08	1	0.5
3&4-Methyl phenol	1.578	1.694	1.587	1.618	1.599	1.615	1.579	1.594	1.554										1.602019	2.46	0.025	1	0.6
Acetophenone										2.044	2.008	1.973	1.969	2.12	1.892	1.971	1.957	1.943	1.986257	3.28	0.033	1	0.01
Naphthalene-d8																							

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INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Nitrobenzene-d5	0.412	0.392	0.383	0.383	0.384	0.375	0.386	0.384	0.386										0.387149	2.67	0.027	1	
Nitrobenzene	0.363	0.391	0.387	0.393	0.387	0.373	0.382	0.38	0.382										0.381908	2.46	0.025	1	0.2
Isophorone	0.702	0.692	0.68	0.666	0.672	0.646	0.657	0.65	0.66										0.669338	2.84	0.028	1	0.4
2-Nitrophenol	0.169	0.172	0.18	0.189	0.192	0.195	0.203	0.202	0.205										0.189632	7.1	0.071	1	0.1
2,4-Dimethylphenol	0.395	0.368	0.369	0.352	0.331	0.359	0.352	0.347	0.351										0.358235	5.04	0.05	1	0.2
bis(2-Chlorethoxy)methane	0.462	0.454	0.444	0.443	0.438	0.429	0.432	0.425	0.429										0.439422	2.8	0.028	1	0.3
2,4-Dichlorophenol	0.286	0.3	0.298	0.304	0.309	0.298	0.306	0.302	0.304										0.300699	2.24	0.022	1	0.2
Benzoic Acid												0.053	0.081	0.147	0.15	0.194	0.215	0.221	0.151698	42.89	0.997	3	
1,2,4-Trichlorobenzene	0.346	0.342	0.342	0.344	0.339	0.325	0.329	0.327	0.327										0.335694	2.51	0.025	1	
Naphthalene	1.428	1.237	1.18	1.16	1.14	1.105	1.114	1.092	1.09										1.171698	9.14	0.091	1	0.7
4-Chloroaniline	0.17	0.146	0.144	0.144	0.145	0.142	0.142	0.142	0.141										0.146071	6.21	0.062	1	0.01
Hexachloro-1,3-butadiene	0.2	0.192	0.192	0.188	0.19	0.181	0.183	0.18	0.182										0.187371	3.47	0.035	1	0.01
Caprolactam										0.091	0.099	0.099	0.099	0.111	0.101	0.113	0.113	0.11	0.104014	7.45	0.074	1	0.01
4-Chloro-3-methylphenol	0.372	0.33	0.345	0.335	0.342	0.339	0.343	0.332	0.342										0.34226	3.59	0.036	1	0.2
2-Methylnaphthalene	0.854	0.841	0.835	0.817	0.798	0.792	0.8	0.78	0.788										0.811601	3.21	0.032	1	0.4
1-Methylnaphthalene	0.784	0.782	0.759	0.764	0.749	0.738	0.748	0.728	0.737										0.754239	2.61	0.026	1	
1,2,4,5-Tetrachlorobenzene										0.304	0.331	0.323	0.321	0.331	0.295	0.312	0.311	0.305	0.314824	3.96	0.04	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene			0.207	0.249	0.266	0.292	0.306	0.32	0.329										0.281437	15.42	0.154	1	0.05
2,4,6-Trichlorophenol		0.285	0.284	0.308	0.328	0.324	0.342	0.356	0.364										0.323592	9.32	0.093	1	0.2
2,4,5-Trichlorophenol		0.334	0.347	0.351	0.367	0.359	0.374	0.377	0.384										0.361584	4.65	0.047	1	0.2
2-Fluorobiphenyl	1.407	1.421	1.366	1.369	1.365	1.271	1.312	1.325	1.332										1.352083	3.48	0.035	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS4	Review Method	: 8270D	Released By	: Chris McCord
Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Biphenyl	1.541	1.549	1.511	1.51	1.494	1.404	1.445	1.463	1.495										1.490241	3.11	0.031	1	0.01
2-Chloronaphthalene	1.208	1.228	1.218	1.207	1.2	1.123	1.162	1.18	1.189										1.190576	2.71	0.027	1	0.8
2-Nitroaniline	0.379	0.366	0.371	0.384	0.408	0.393	0.409	0.419	0.427										0.394946	5.53	0.055	1	0.01
Acenaphthylene	1.991	2.05	2.003	1.988	1.989	1.867	1.898	1.923	1.94										1.960811	2.96	0.03	1	0.9
Dimethyl phthalate	1.421	1.406	1.353	1.337	1.313	1.256	1.315	1.34	1.364										1.344966	3.71	0.037	1	0.01
2,6-Dinitrotoluene	0.247	0.293	0.298	0.314	0.312	0.304	0.313	0.317	0.324										0.302416	7.53	0.075	1	0.2
3-Nitroaniline		0.328	0.331	0.347	0.354	0.352	0.368	0.369	0.374										0.352789	4.86	0.049	1	0.01
Acenaphthene	1.263	1.305	1.253	1.255	1.255	1.186	1.21	1.225	1.237										1.243239	2.75	0.028	1	0.9
2,4-Dinitrophenol		0.024	0.04	0.074	0.09	0.127	0.148	0.151											0.093552	54.46	0.993	0	0.01
Dibenzofuran	1.789	1.819	1.771	1.752	1.75	1.639	1.667	1.67	1.698										1.728445	3.59	0.036	1	0.8
2,4-Dinitrotoluene		0.352	0.358	0.388	0.399	0.417	0.437	0.44	0.448										0.404777	9.12	0.091	1	0.2
2,3,4,6-Tetrachlorophenol												0.172	0.19	0.231	0.21	0.243	0.241	0.243	0.218549	13.17	0.132	1	0.01
4-Nitrophenol			0.184	0.228	0.242	0.273	0.288	0.281	0.292										0.255411	15.53	0.997	0	0.01
Fluorene	1.484	1.497	1.461	1.445	1.43	1.342	1.382	1.392	1.419										1.428026	3.52	0.035	1	0.9
4-Chlorophenyl-phenylether	0.632	0.668	0.64	0.634	0.628	0.587	0.597	0.598	0.613										0.621966	4.08	0.041	1	0.4
Diethyl phthalate	1.567	1.459	1.411	1.399	1.408	1.422	1.456	1.492	1.524										1.45981	3.97	0.04	1	0.01
4-Nitroaniline	0.298	0.325	0.342	0.357	0.362	0.385	0.396	0.387	0.396										0.360866	9.44	0.094	1	0.01
Azobenzene	1.718	1.549	1.48	1.447	1.448	1.39	1.468	1.455	1.486										1.493501	6.31	0.063	1	
Atrazine										0.281	0.294	0.296	0.307	0.332	0.298	0.334	0.324	0.332	0.31095	6.43	0.064	1	0.01
Phenanthrene-d10																							
4,6-Dinitro-2-methylphenol			0.066	0.085	0.095	0.114	0.126	0.126	0.13										0.105858	23.36	0.996	0	0.01
N-Nitrosodiphenylamine	0.668	0.716	0.682	0.691	0.697	0.628	0.664	0.675	0.679										0.67763	3.59	0.036	1	0.01

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INITIAL CALIBRATION SUMMARY

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Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
2,4,6-Tribromophenol		0.082	0.081	0.09	0.095	0.09	0.096	0.097	0.096										0.090757	6.98	0.07	1	
4-Bromophenyl-phenylether	0.213	0.218	0.207	0.214	0.214	0.191	0.203	0.204	0.206										0.20751	3.99	0.04	1	0.1
Hexachlorobenzene	0.249	0.249	0.238	0.235	0.237	0.217	0.228	0.226	0.227										0.234009	4.63	0.046	1	0.1
n-octadecane		0.154	0.147	0.149	0.149	0.13	0.133	0.139	0.137										0.142223	6.07	0.061	1	
Pentachlorophenol			0.058	0.083	0.101	0.11	0.124	0.125	0.129										0.104303	24.88	0.997	0	0.05
Phenanthrene	1.224	1.218	1.175	1.186	1.181	1.111	1.182	1.19	1.19										1.184194	2.71	0.027	1	0.7
Anthracene	1.202	1.266	1.203	1.215	1.235	1.162	1.228	1.198	1.201										1.212236	2.4	0.024	1	0.7
Carbazole	1.177	1.205	1.173	1.176	1.214	1.138	1.208	1.136	1.188										1.179606	2.39	0.024	1	0.01
Di-n-butyl phthalate	1.607	1.606	1.557	1.619	1.673	1.573	1.646	1.584	1.581										1.605175	2.29	0.023	1	0.01
2-nitrodiphenylamine												0.215	0.234	0.288	0.255	0.308	0.305	0.307	0.273249	14.12	0.141	1	
Fluoranthene	1.414	1.388	1.361	1.408	1.422	1.36	1.452	1.369	1.394										1.396444	2.2	0.022	1	0.6
Chrysene-d12																							
Benzidine											0.396	0.466	0.54	0.696	0.613	0.803	0.787	0.767	0.633502	24.41	0.992	0	
Pyrene	1.304	1.289	1.285	1.23	1.339	1.199	1.204	1.283	1.233										1.262762	3.82	0.038	1	0.6
p-Terphenyl-d14	1.014	1.001	0.993	0.949	1.028	0.927	0.915	0.974	0.935										0.970733	4.21	0.042	1	
Benzylbutyl phthalate	0.717	0.699	0.657	0.657	0.716	0.65	0.656	0.698	0.681										0.681274	3.99	0.04	1	0.01
3,3-Dichlorobenzidine										0.39	0.453	0.443	0.441	0.483	0.422	0.485	0.481	0.468	0.451703	7.03	0.07	1	0.01
Benzo(a)anthracene	1.462	1.362	1.306	1.261	1.318	1.231	1.233	1.307	1.311										1.310123	5.42	0.054	1	0.8
Chrysene	1.253	1.244	1.216	1.157	1.224	1.118	1.122	1.203	1.156										1.188156	4.31	0.043	1	0.7
bis(2-Ethylhexyl)phthalate	1.28	1.073	1.026	0.992	1.085	0.984	0.986	1.055	1.021										1.055885	8.71	0.087	1	0.01
Di-n-octyl phthalate	1.911	1.829	1.834	1.815	1.991	1.78	1.764	1.872	1.695										1.832351	4.7	0.047	1	0.01
Perylene-d12																							
Benzo(b)fluoranthene	1.248	1.268	1.233	1.171	1.233	1.245	1.329	1.302	1.442										1.2746	6.05	0.061	1	0.7

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Method	: S804J16N	Review Protocol	: SW846	Released On	: 10/17/2014 10:26:13 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S804J16N -- ICal Updated Time: Fri Oct 17 10:07:59 2014

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Benzo(k)fluoranthene	1.255	1.234	1.207	1.184	1.214	1.08	1.069	1.104	1.066										1.157063	6.62	0.066	1	0.7
Benzo(a)pyrene	1.203	1.226	1.181	1.159	1.207	1.148	1.169	1.21	1.237										1.193219	2.56	0.026	1	0.7
Indeno(1,2,3-cd)pyrene	1.269	1.329	1.319	1.321	1.429	1.238	1.246	1.335	1.338										1.313944	4.43	0.044	1	0.5
Dibenz(a,h)anthracene	0.992	1.096	1.107	1.114	1.216	1.042	1.055	1.122	1.129										1.096851	5.78	0.058	1	0.4
Benzo(g,h,i)perylene	1.063	1.118	1.102	1.095	1.186	1.02	1.028	1.107	1.094										1.090373	4.59	0.046	1	0.5

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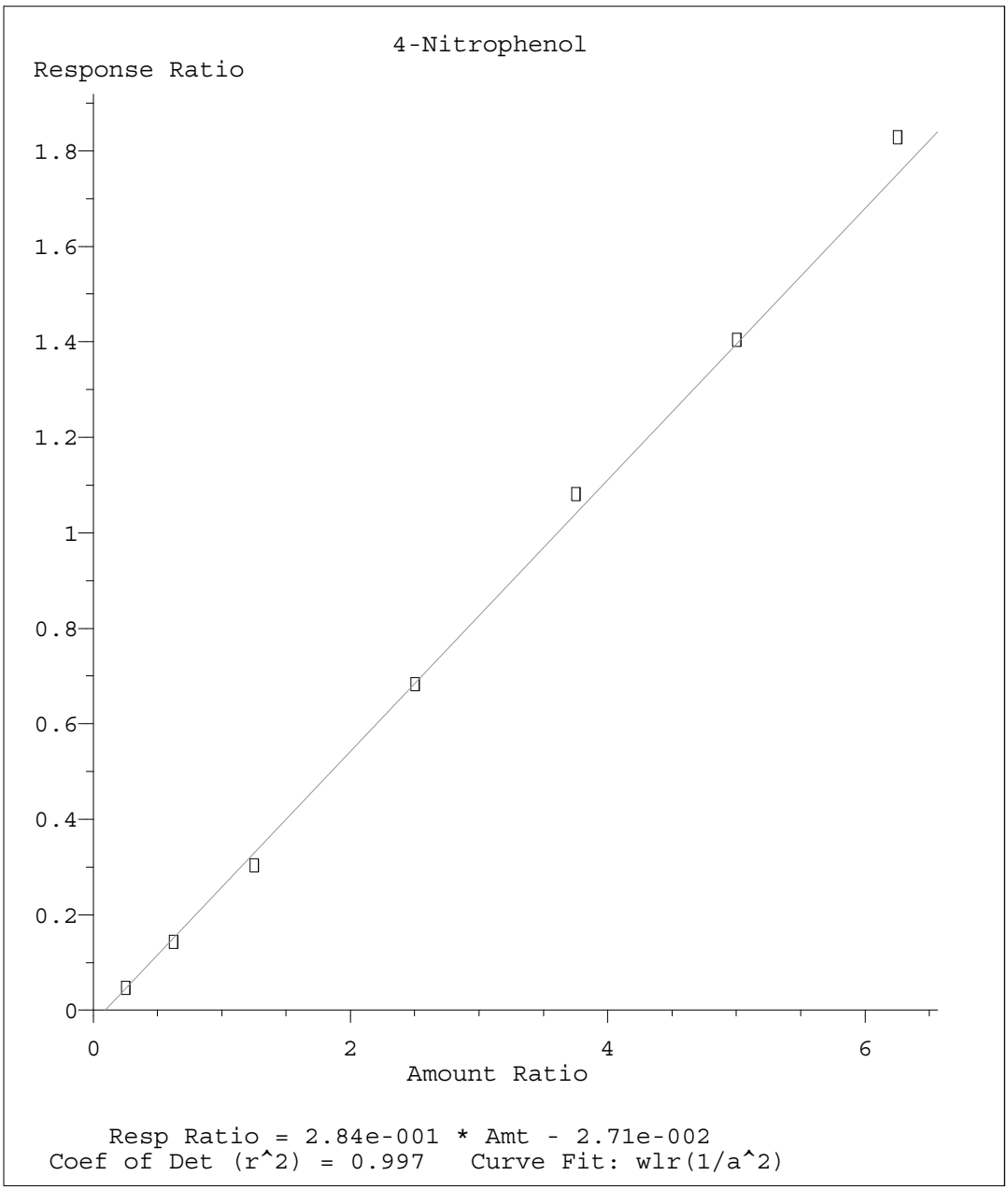

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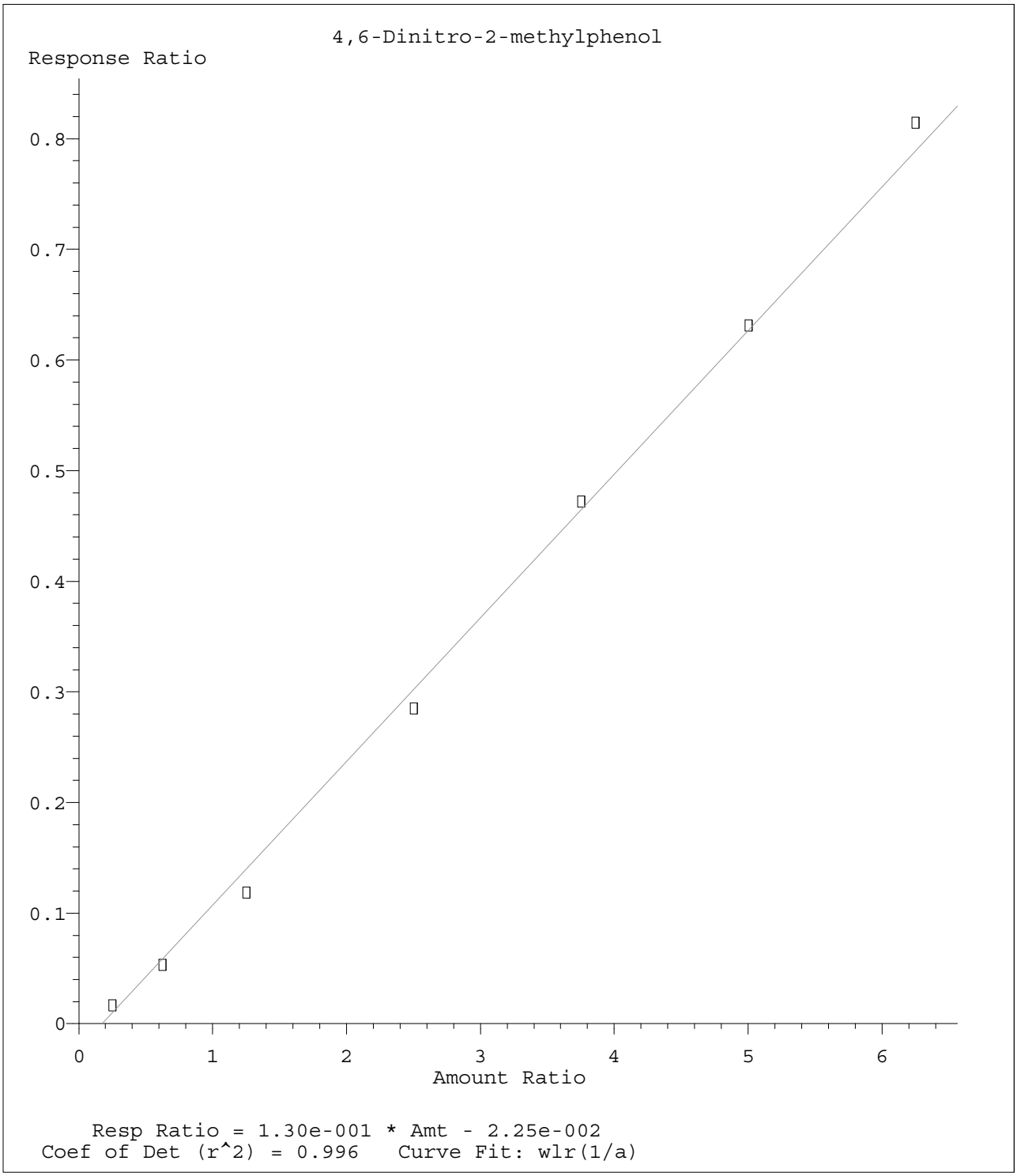

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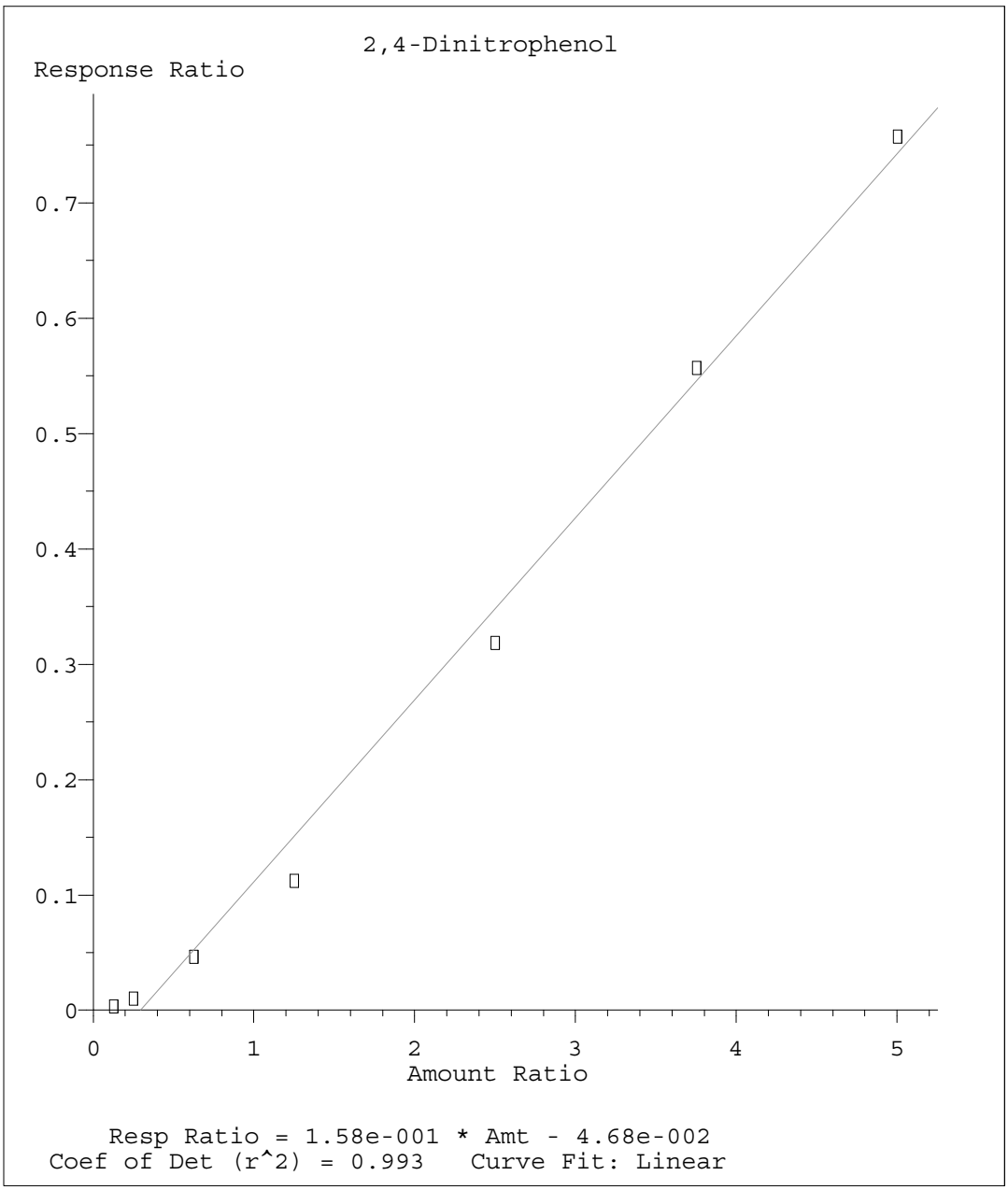
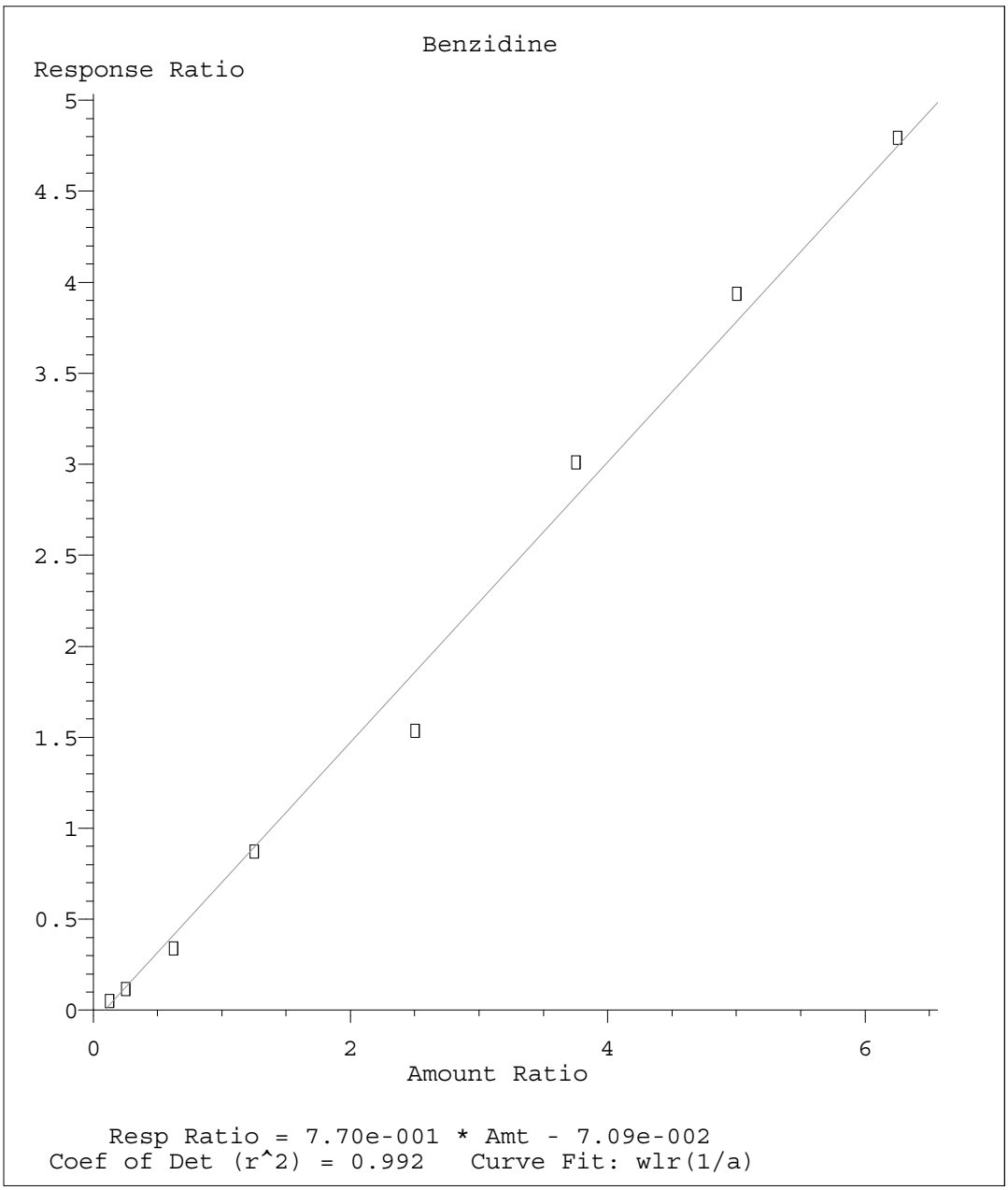
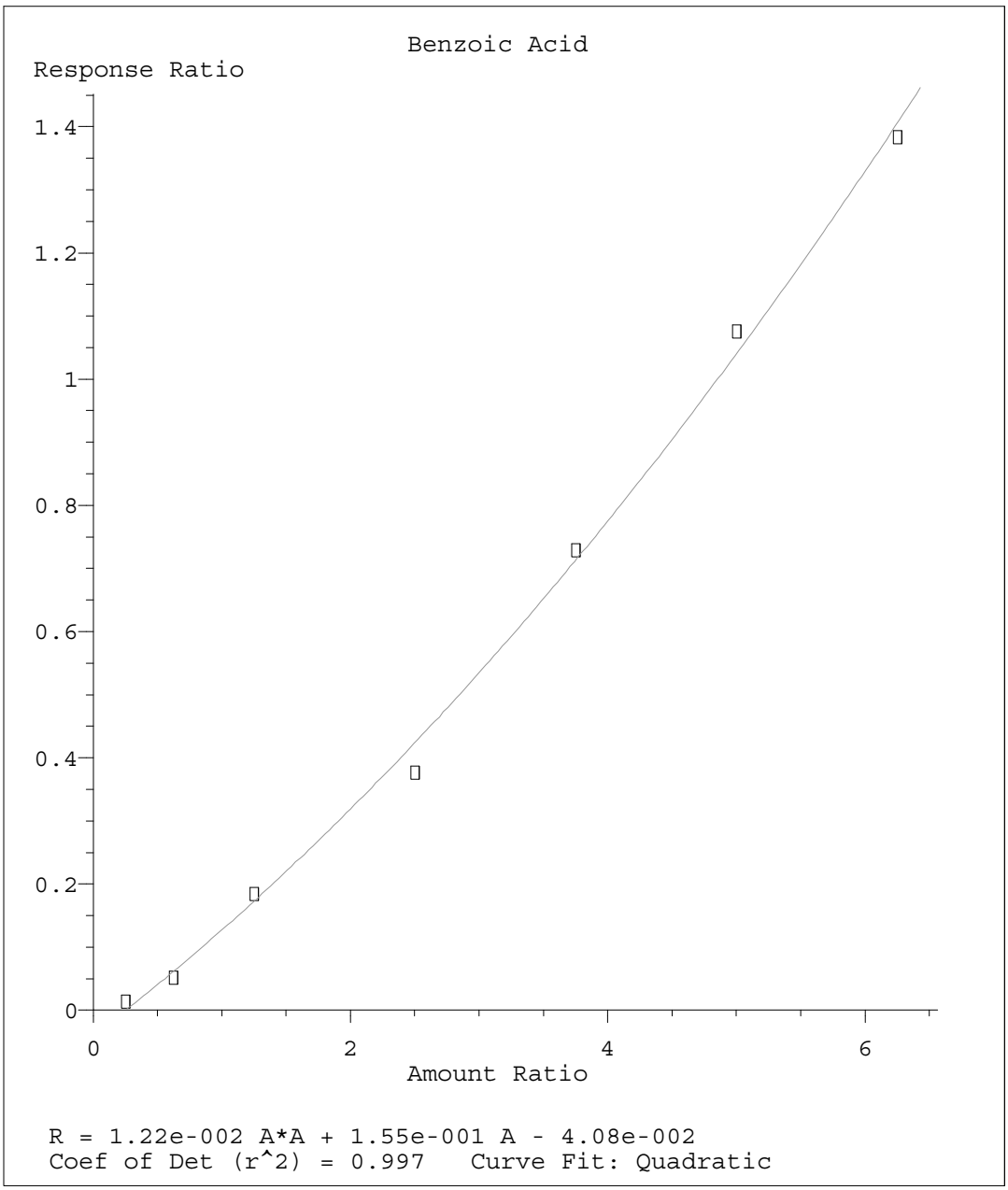
Calibration Table Last Updated: Fri Oct 17 10:07:59 2014



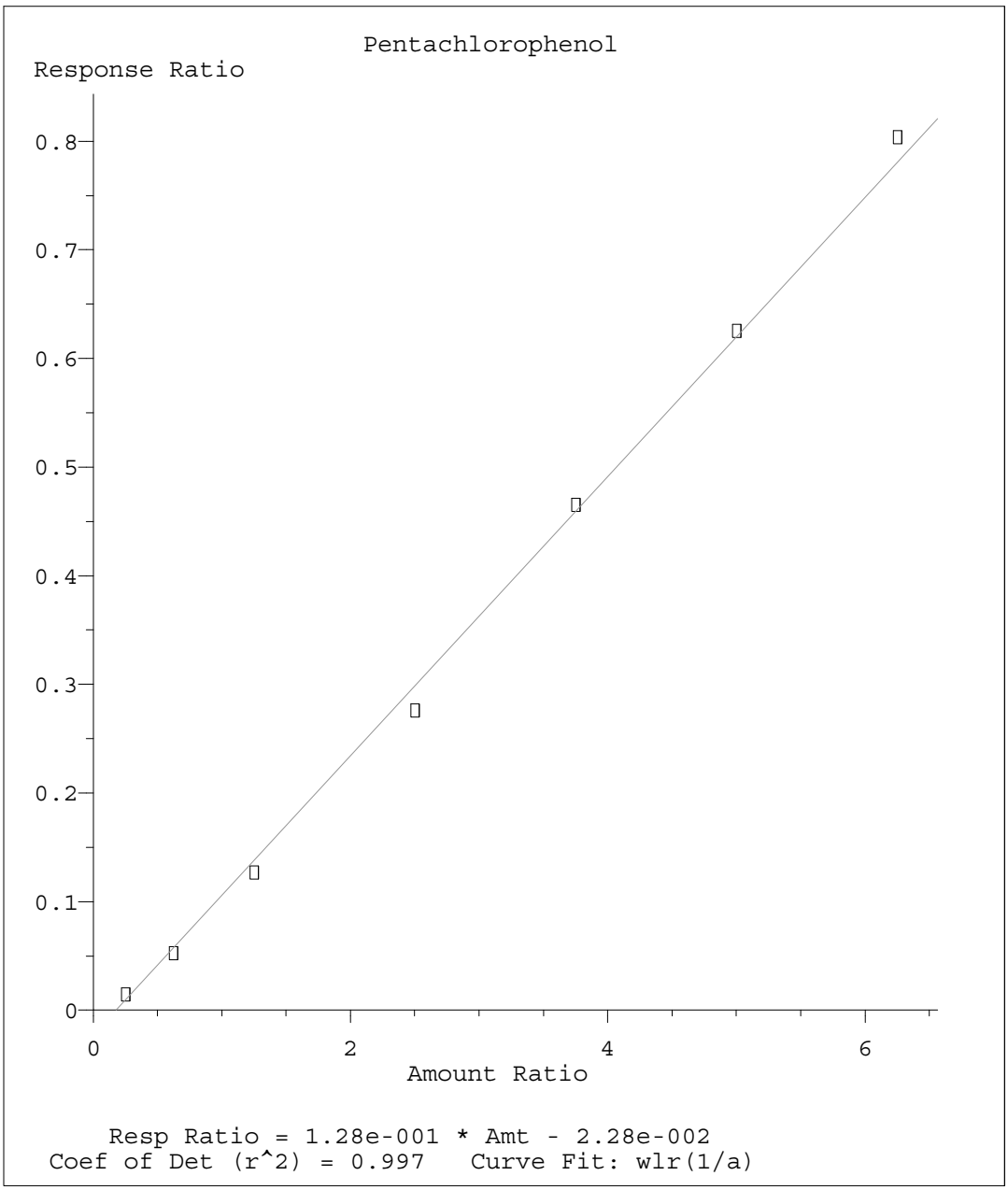
Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M



Method Name: C:\MSDCHEM\1\METHODS\S804J16N.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171571	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	739988	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	475667	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	807948	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	894719	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1016727	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	5998	198.3265750 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 991.63%#		
7) Phenol-d5	4.71	99	7399	200.6739040 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1003.37%#		
23) Nitrobenzene-d5	5.59	82	7624	212.8970075 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2128.97%#		
44) 2-Fluorobiphenyl	7.46	172	16734	208.1532728 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2081.53%#		
67) 2,4,6-Tribromophenol	9.04	330	1043	113.7922223 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 568.96%#		
81) p-Terphenyl-d14	11.52	244	22690	208.9961198 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 2089.96%#		

Target Compounds					Qvalue
2) Pyridine	2.99	79	14182	294.1526304 ppb #	85
3) N-Nitrosodimethylamine	2.97	42	8283	338.2525385 ppb #	53
5) Aniline	4.78	66	3806	208.3430384 ppb	93
6) bis(2-Chloroethyl)ether	4.82	63	5107	201.5550638 ppb	93
8) Phenol	4.73	94	7768	204.3119538 ppb	95
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	6487	195.9548563 ppb	97
11) n-Decane	4.91	41	4209	213.8590906 ppb #	76
12) 1,3-Dichlorobenzene	5.02	146	7470	204.0007454 ppb	98
13) 1,4-Dichlorobenzene	5.09	146	7771	207.8108203 ppb #	76
14) Benzyl Alcohol	5.19	79	6273	225.9173620 ppb	87
15) 1,2-Dichlorobenzene	5.24	146	6846	191.2777498 ppb	94
16) bis(2-Chloroisopropyl)ethe	5.32	121	2464	229.8552517 ppb	87
17) 2-Methylphenol	5.28	108	5970	199.4584417 ppb	96
18) Hexachloroethane	5.56	117	3084	191.9264119 ppb	93
19) N-Nitrosodi-n-propylamine	5.43	70	5994	238.2947871 ppb	97
20) 3&4-Methyl phenol	5.43	107	6770	197.0457538 ppb	93
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	6708	189.8889090 ppb	98
25) Isophorone	5.85	82	12980	209.6496904 ppb	100
26) 2-Nitrophenol	5.93	139	3122	177.9860277 ppb	90
27) 2,4-Dimethylphenol	5.96	107	7312	220.6648781 ppb	94
28) bis(2-Chlorethoxy)methane	6.06	93	8545	210.2303588 ppb	95
29) 2,4-Dichlorophenol	6.17	162	5283	189.9391697 ppb	93
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	6409	206.4009399 ppb	95
32) Naphthalene	6.35	128	26411	243.6881939 ppb	98
33) 4-Chloroaniline	6.39	65	3143	232.6191992 ppb	77
34) Hexachloro-1,3-butadiene	6.47	225	3691	212.9645406 ppb	92
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	6880	217.3191081 ppb	98
37) 2-Methylnaphthalene	7.07	142	15790	210.3317313 ppb	99
38) 1-Methylnaphthalene	7.18	142	14507	207.9380563 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

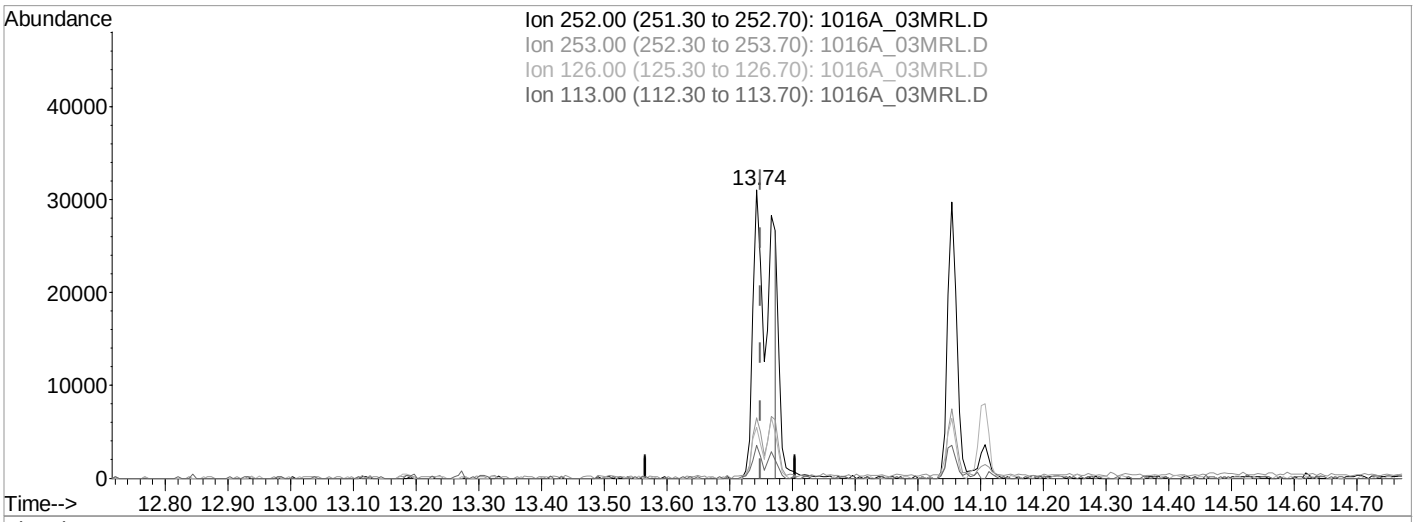
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	60.0581458 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	158.1062090 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	159.6805511 ppb		91
45)	Biphenyl	7.57	154	18328	206.8452856 ppb		95
46)	2-Chloronaphthalene	7.59	162	14371	203.0097131 ppb		96
47)	2-Nitroaniline	7.70	138	4501	191.6718209 ppb	#	94
48)	Acenaphthylene	8.04	152	23673	203.0507623 ppb		99
49)	Dimethyl phthalate	7.89	163	16898	211.3055902 ppb		95
50)	2,6-Dinitrotoluene	7.96	165	2941	163.5598865 ppb		91
51)	3-Nitroaniline	8.13	138	3100	147.7861975 ppb	#	85
52)	Acenaphthene	8.23	153	15022	203.2170019 ppb		96
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.41	168	21276	207.0243699 ppb		98
55)	2,4-Dinitrotoluene	8.39	165	3804	158.0560800 ppb		95
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	1715	863.9174482 ppb	#	81
58)	Fluorene	8.78	166	17644	207.8011294 ppb		94
59)	4-Chlorophenyl-phenylether	8.78	204	7516	203.2388660 ppb		96
60)	Diethyl phthalate	8.64	149	18634	214.6825752 ppb		98
61)	4-Nitroaniline	8.79	138	3542	165.0780695 ppb	#	93
62)	Azobenzene	8.95	77	20432	230.0871070 ppb		88
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	8.83	198	645	1439.0238256 ppb		86
66)	N-Nitrosodiphenylamine	8.90	169	13498	197.2345974 ppb		95
68)	4-Bromophenyl-phenylether	9.31	248	4293	204.8466665 ppb	#	82
69)	Hexachlorobenzene	9.38	284	5029	212.7920120 ppb		97
70)	n-octadecane	9.65	55	3850	268.0388732 ppb	#	62
71)	Pentachlorophenol	9.59	266	501	1457.2565155 ppb		90
72)	Phenanthrene	9.82	178	24721	206.7044585 ppb		98
73)	Anthracene	9.88	178	24271	198.2471270 ppb		96
74)	Carbazole	10.05	167	23777	199.5844208 ppb		99
75)	Di-n-butyl phthalate	10.40	149	32450	200.1699905 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	28558	202.4933299 ppb		98
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	29162	206.4900933 ppb		99
82)	Benzylbutyl phthalate	12.02	149	16043	210.5557728 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	32693	223.1239153 ppb		95
85)	Chrysene	12.70	228	28029	210.9296387 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	28628	242.4251978 ppb		99
87)	Di-n-octyl phthalate	13.27	149	42752	208.6177030 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	31726m	195.8515076 ppb		
90)	Benzo(k)fluoranthene	13.77	252	32235m	219.2078740 ppb		
91)	Benzo(a)pyrene	14.05	252	30574	201.6126404 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.17	276	32247	193.1070021 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	25204	180.8036921 ppb		96
94)	Benzo(g,h,i)perylene	15.48	276	27011	194.9176838 ppb		95

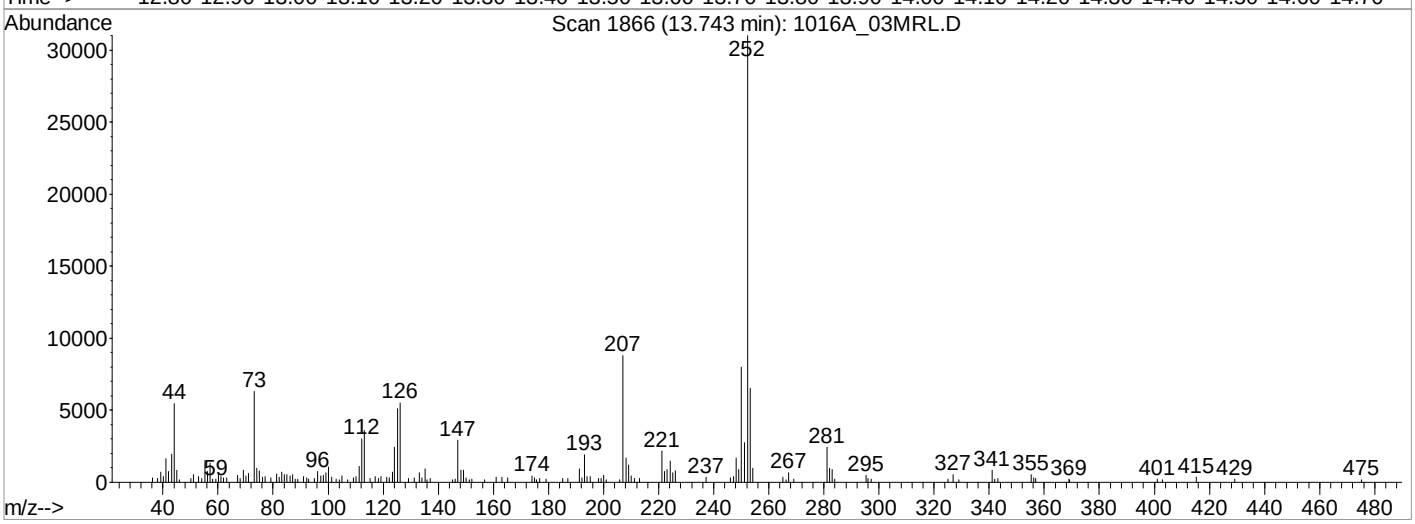
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 349.9905826 ppb

Qvalue = 92

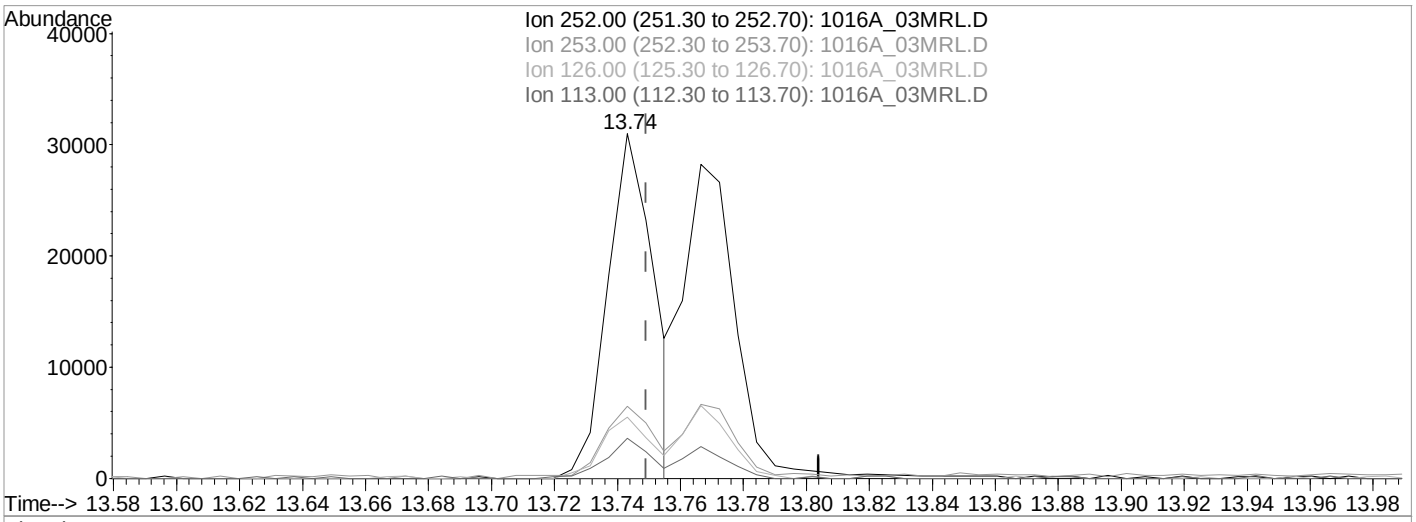
response 56695

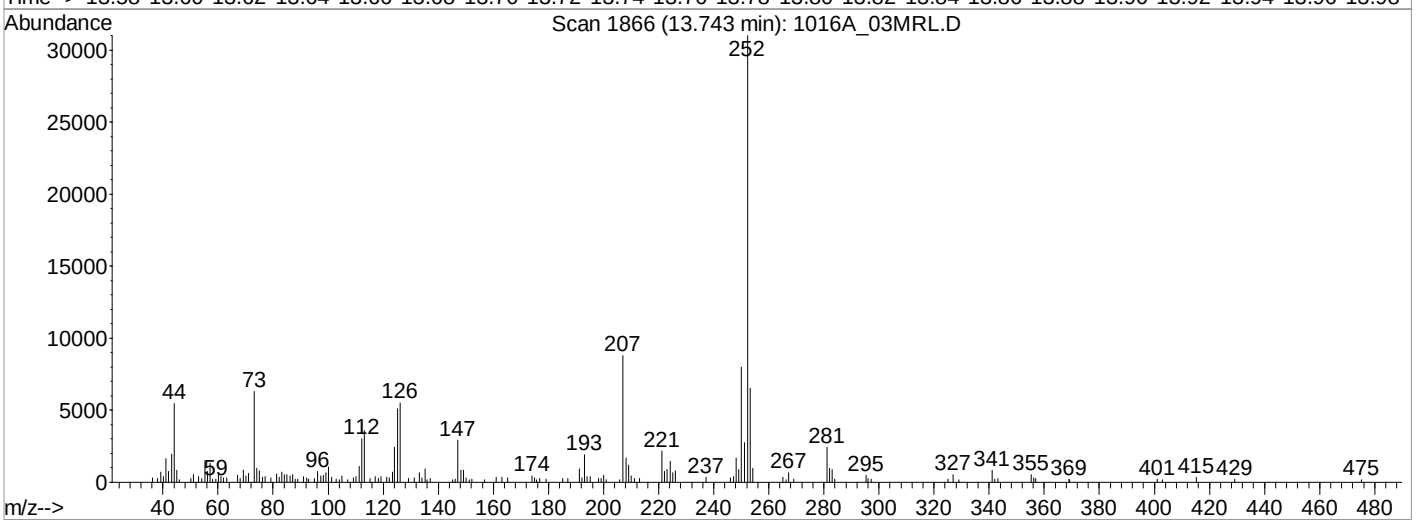
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 195.8515076 ppb m

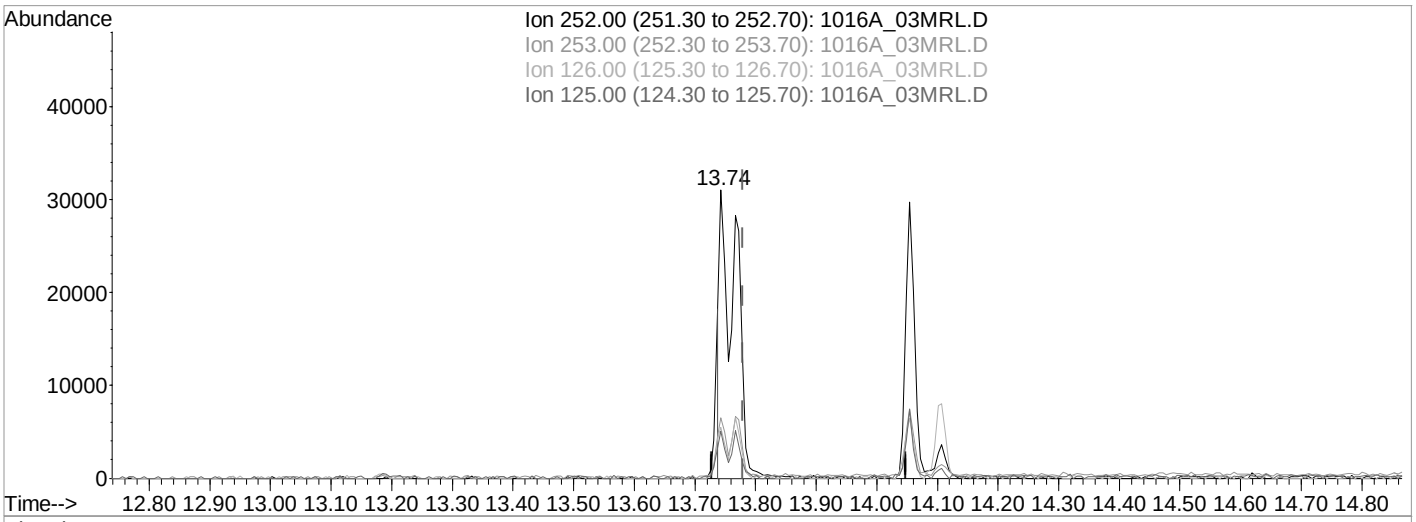
response 31726

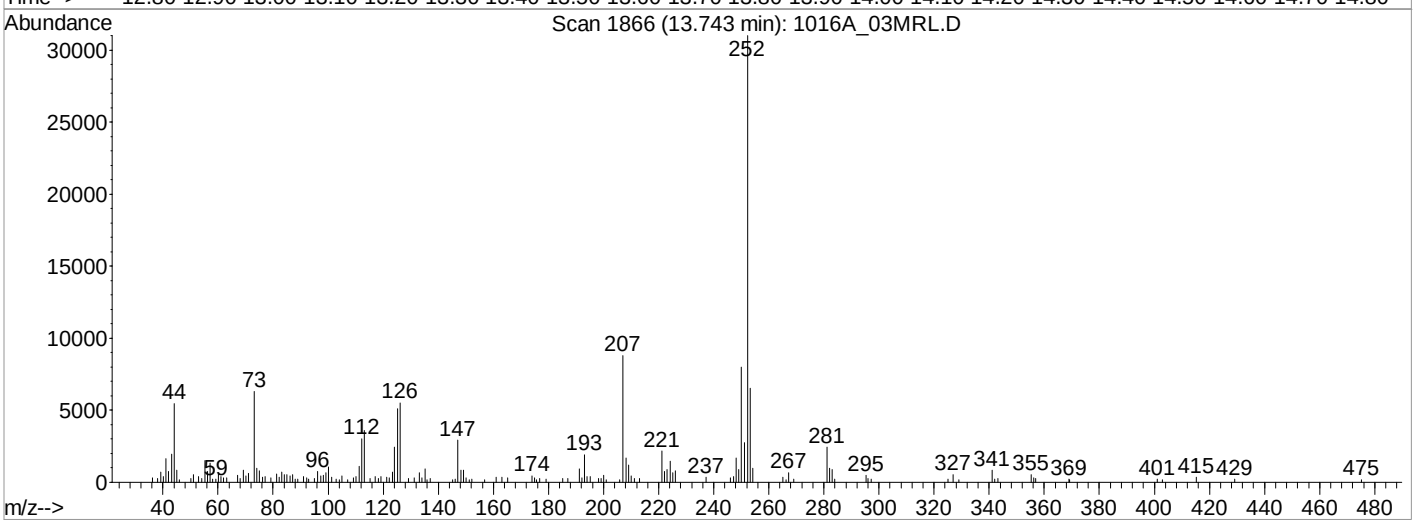
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(90) Benzo(k)fluoranthene (MT)

13.74min (-0.035) 381.7487955 ppb

Qvalue = 95

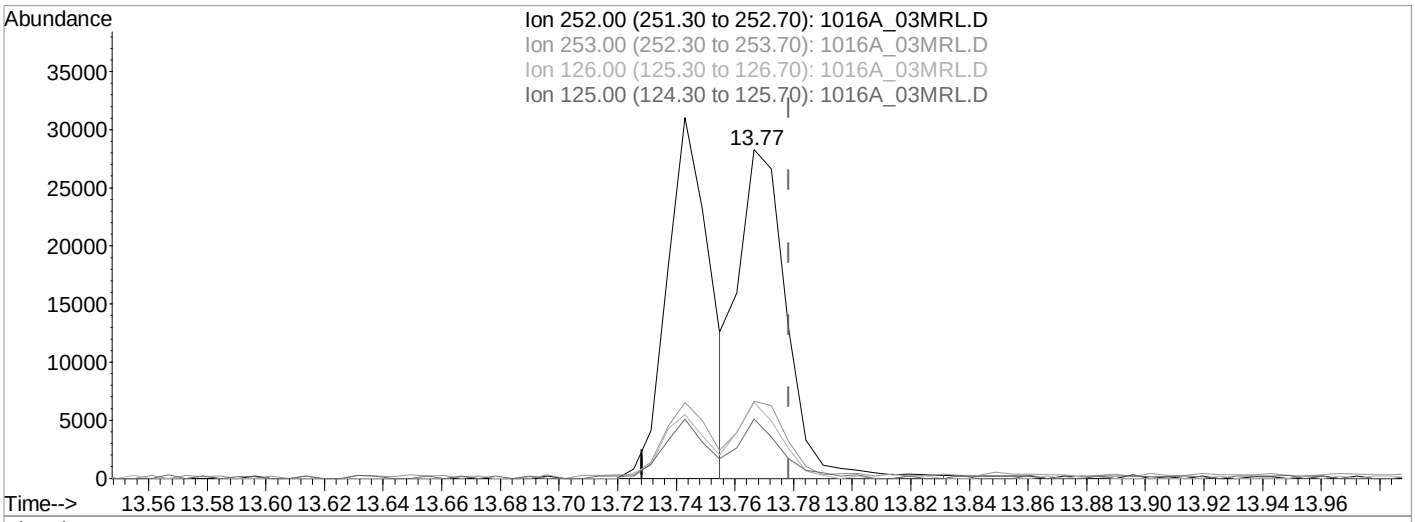
response 56137

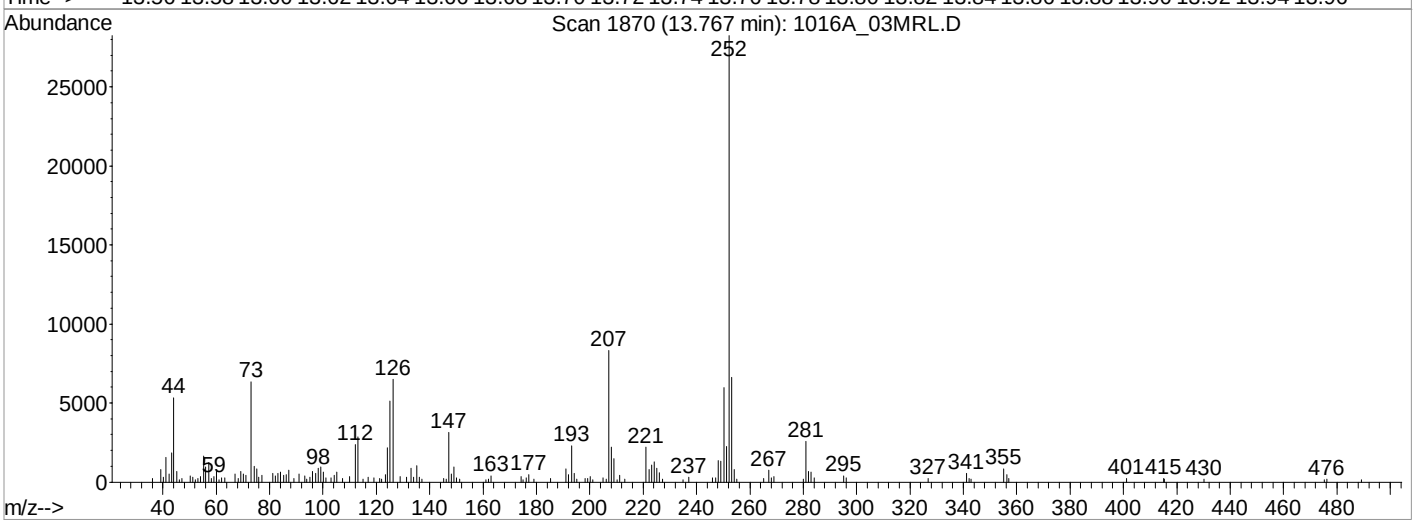
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03MRL.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : MRL SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:15 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_03MRL.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 219.2078740 ppb m

response 32235

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.45
126.00	19.90	23.04
125.00	13.60	18.13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177960	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	756641	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	483307	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	834848	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	930735	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1073123	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	3.99	112	61442	1958.6700381 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 9793.35%#		
7) Phenol-d5	4.71	99	75362	1970.5695761 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9852.85%#		
23) Nitrobenzene-d5	5.59	82	72533	1980.8752063 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19808.75%#		
44) 2-Fluorobiphenyl	7.46	172	165084	2021.0097091 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 20210.10%#		
67) 2,4,6-Tribromophenol	9.04	330	16903	1784.7116604 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 8923.56%#		
81) p-Terphenyl-d14	11.51	244	231035	2045.7008172 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 20457.01%#		

Target Compounds

						Qvalue
2) Pyridine	2.97	79	98488	1969.4277773 ppb		98
3) N-Nitrosodimethylamine	2.95	42	52807	2079.0569432 ppb		93
5) Aniline	4.78	66	37784	1994.0664546 ppb		94
6) bis(2-Chloroethyl)ether	4.82	63	51781	1970.2429160 ppb		95
8) Phenol	4.72	94	77848	1974.0288929 ppb		95
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	67967	1979.3915841 ppb		98
11) n-Decane	4.91	41	40495	1983.6802929 ppb	#	97
12) 1,3-Dichlorobenzene	5.02	146	75400	1985.1987074 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	77582	2000.2012957 ppb		97
14) Benzyl Alcohol	5.19	79	55469	1925.9550310 ppb		98
15) 1,2-Dichlorobenzene	5.24	146	75377	2030.4294000 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	22785	2049.1995220 ppb		97
17) 2-Methylphenol	5.28	108	61820	1991.2627830 ppb		99
18) Hexachloroethane	5.56	117	33181	1990.8169551 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	50145	1921.9714160 ppb		99
20) 3&4-Methyl phenol	5.43	107	70618	1981.5968856 ppb		99
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	73296	2029.1849197 ppb		95
25) Isophorone	5.85	82	128693	2032.8683969 ppb		100
26) 2-Nitrophenol	5.93	139	34107	1901.6532918 ppb		92
27) 2,4-Dimethylphenol	5.96	107	69805	2060.2426323 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	83930	2019.4606441 ppb		97
29) 2,4-Dichlorophenol	6.17	162	56329	1980.6182310 ppb		92
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	64638	2035.8422156 ppb		98
32) Naphthalene	6.35	128	223205	2014.1340397 ppb		100
33) 4-Chloroaniline	6.39	65	27150	1965.1957472 ppb		100
34) Hexachloro-1,3-butadiene	6.47	225	36239	2044.9103074 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	65183	2013.6251500 ppb		97
37) 2-Methylnaphthalene	7.07	142	157887	2056.8558010 ppb		98
38) 1-Methylnaphthalene	7.18	142	143643	2013.6113120 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

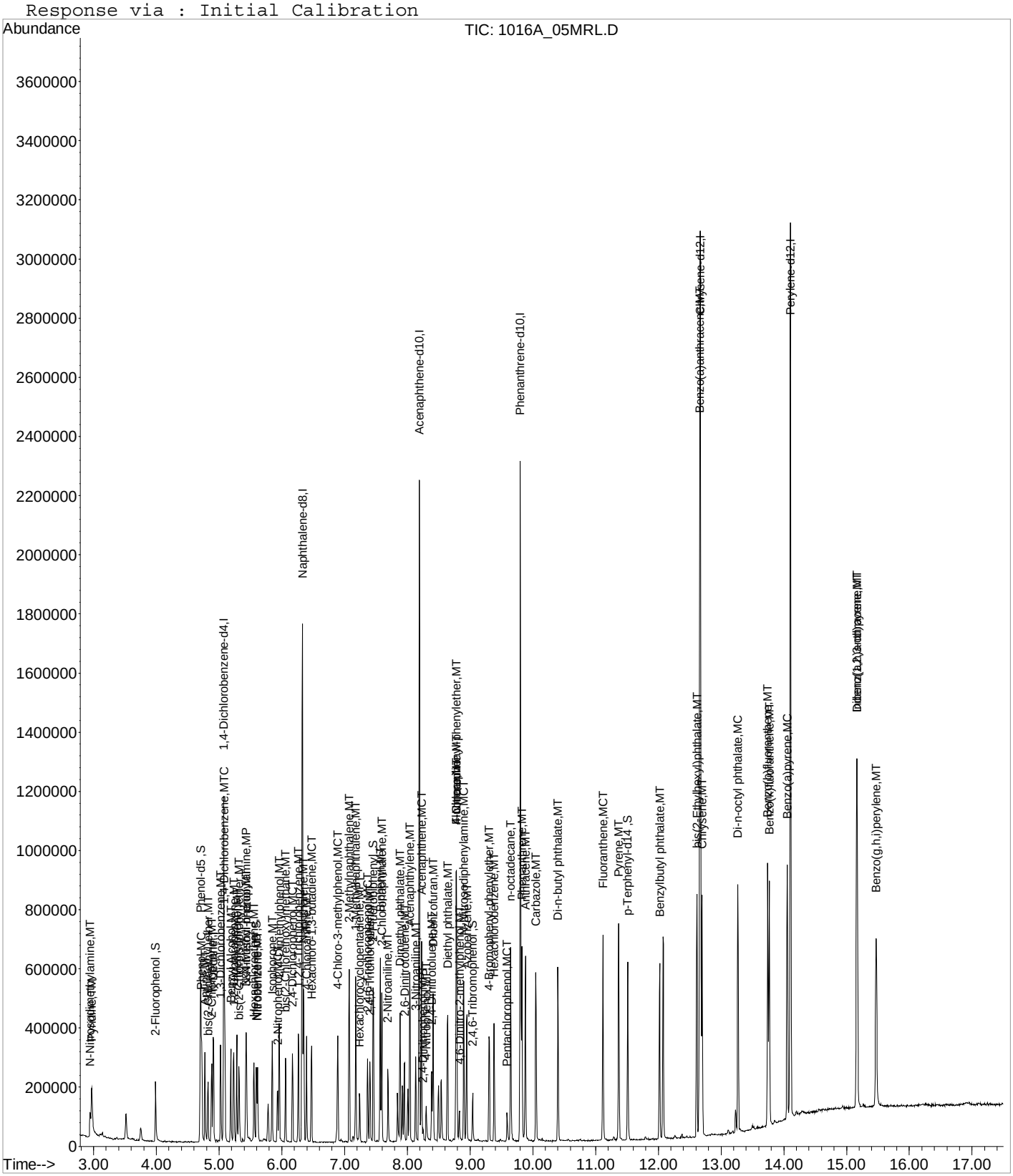
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	7.24	237	25022	1471.6611169 ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1752.8539742 ppb	93
43)	2,4,5-Trichlorophenol	7.40	196	41893	1917.7836805 ppb	95
45)	Biphenyl	7.57	154	182568	2027.8468209 ppb	100
46)	2-Chloronaphthalene	7.59	162	147224	2046.8611286 ppb	99
47)	2-Nitroaniline	7.69	138	44773	1876.4862577 ppb	96
48)	Acenaphthylene	8.04	152	241984	2042.7626802 ppb	99
49)	Dimethyl phthalate	7.88	163	163424	2011.2749964 ppb	99
50)	2,6-Dinitrotoluene	7.96	165	36064	1973.9475451 ppb	99
51)	3-Nitroaniline	8.13	138	39953	1874.5693583 ppb	98
52)	Acenaphthene	8.23	153	151405	2015.8231907 ppb	98
53)	2,4-Dinitrophenol	8.25	184	4076m	2799.0199131 ppb	
54)	Dibenzofuran	8.41	168	214018	2049.5651526 ppb	99
55)	2,4-Dinitrotoluene	8.39	165	43296	1770.5101092 ppb	96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
57)	4-Nitrophenol	8.30	139	22202	2055.7874578 ppb	95
58)	Fluorene	8.78	166	176566	2046.6230942 ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	77335	2058.1452397 ppb	93
60)	Diethyl phthalate	8.64	149	170473	1932.9750415 ppb	99
61)	4-Nitroaniline	8.79	138	41302	1894.4879372 ppb	96
62)	Azobenzene	8.95	77	178867	1982.4012550 ppb	98
63)	Atrazine	0.00	200	0	N.D. d	
65)	4,6-Dinitro-2-methylphenol	8.83	198	13679	2399.8468908 ppb	90
66)	N-Nitrosodiphenylamine	8.90	169	142243	2011.5024996 ppb	96
68)	4-Bromophenyl-phenylether	9.31	248	43126	1991.5132044 ppb	91
69)	Hexachlorobenzene	9.38	284	49727	2036.3008554 ppb	99
70)	n-octadecane	9.65	55	30769	2073.1295163 ppb	99
71)	Pentachlorophenol	9.59	266	12075	2319.2872371 ppb	86
72)	Phenanthrene	9.82	178	245280	1984.8237421 ppb	99
73)	Anthracene	9.88	178	251017	1984.2590331 ppb	99
74)	Carbazole	10.05	167	244893	1989.3992540 ppb	100
75)	Di-n-butyl phthalate	10.40	149	325038	1940.4140194 ppb	98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	11.12	202	284144	1949.8330253 ppb	99
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.37	202	298945	2034.8566658 ppb	98
82)	Benzylbutyl phthalate	12.02	149	152955	1929.7713838 ppb	98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d	
84)	Benzo(a)anthracene	12.66	228	303960	1994.1985577 ppb	99
85)	Chrysene	12.70	228	282965	2047.0259125 ppb	98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	238728	1943.3486547 ppb	98
87)	Di-n-octyl phthalate	13.27	149	426651	2001.3733152 ppb	99
89)	Benzo(b)fluoranthene	13.74	252	330835	1934.9863305 ppb	98
90)	Benzo(k)fluoranthene	13.77	252	323808	2086.2718748 ppb	98
91)	Benzo(a)pyrene	14.05	252	316798	1979.2596953 ppb	97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	353985	2008.3916965 ppb	95
93)	Dibenz(a,h)anthracene	15.16	278	297039	2018.8597594 ppb	95
94)	Benzo(g,h,i)perylene	15.47	276	295631	2021.2284626 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: S804J16N.RES

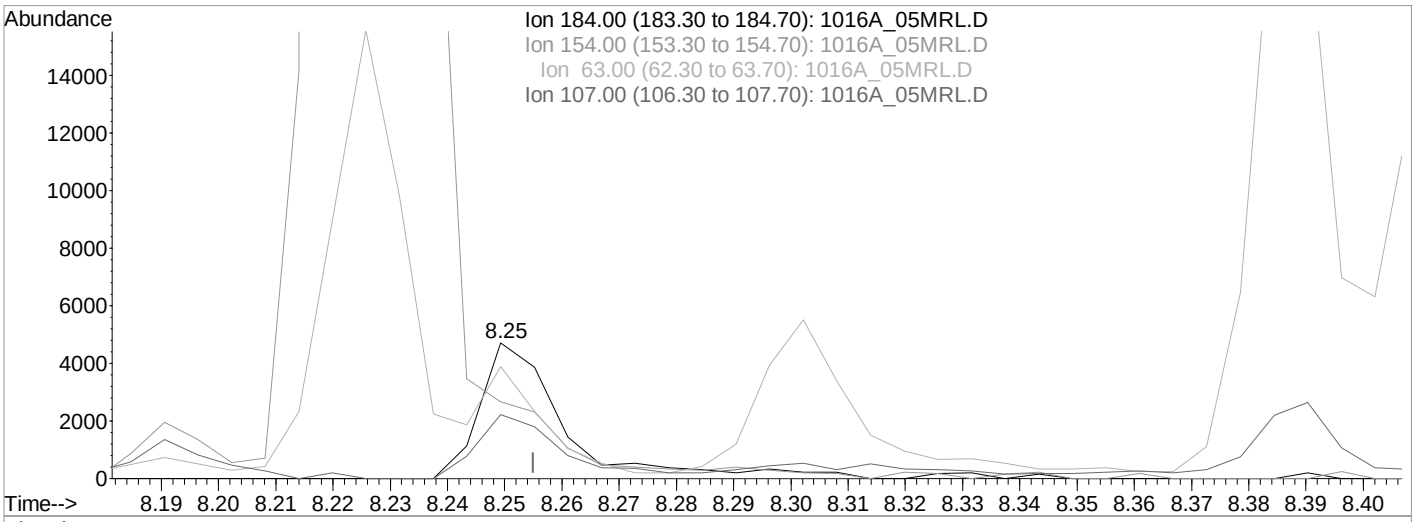
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

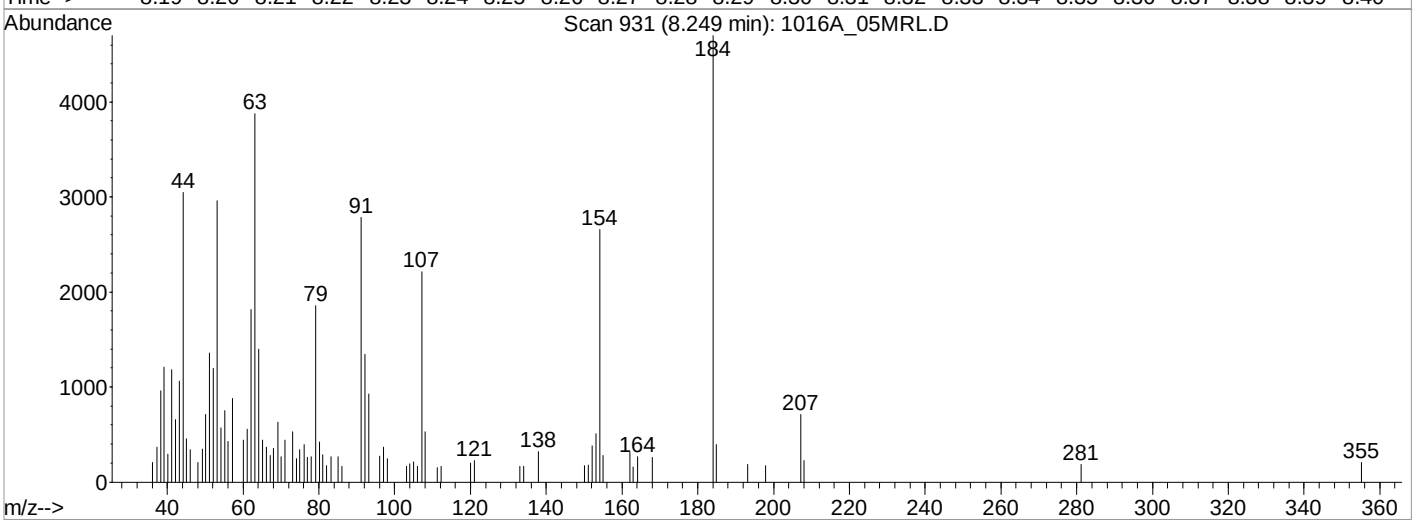


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:16 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_05MRL.D

(53) 2,4-Dinitrophenol (MPT)

8.25min (-0.006) 2877.3617944 ppb

Qvalue = 92

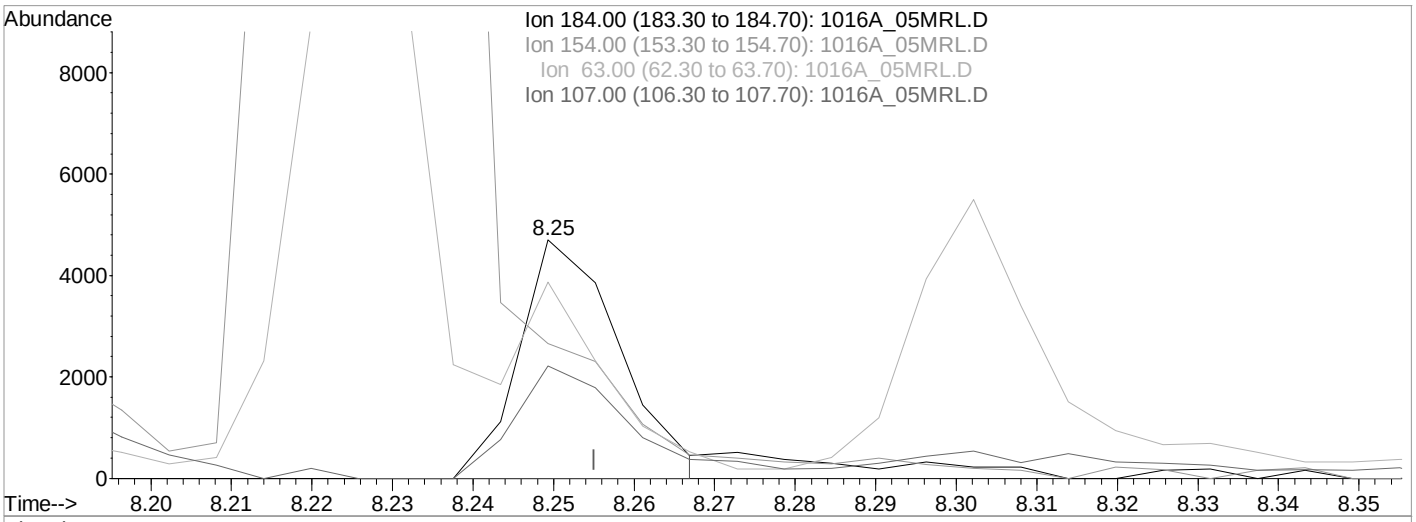
response 4823

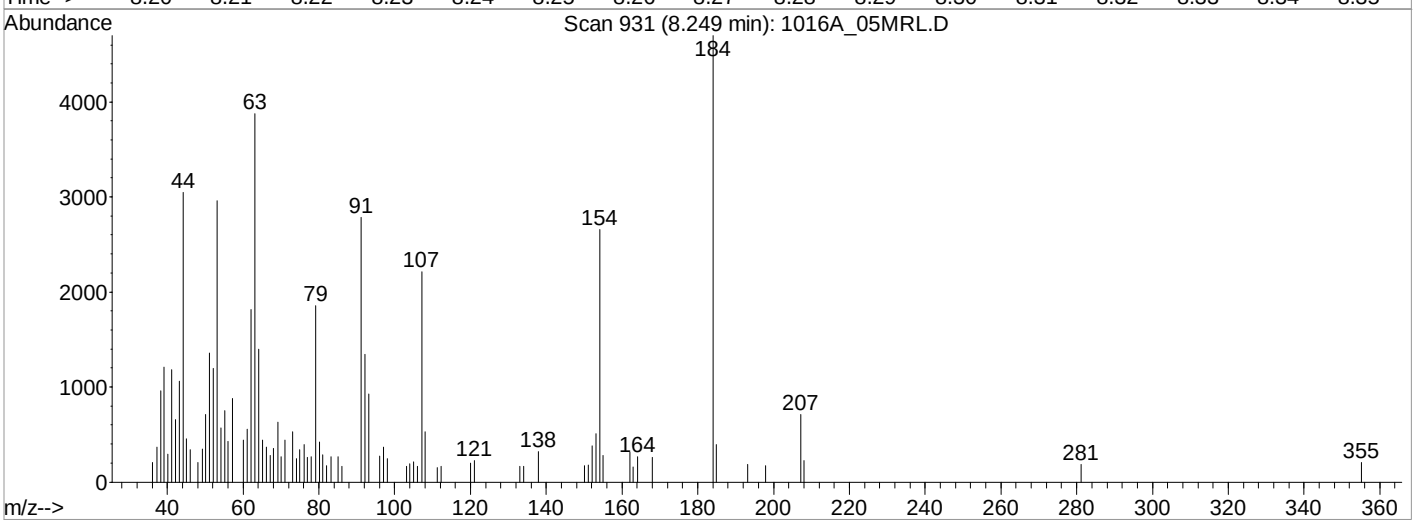
Ion	Exp%	Act%
184.00	100	100
154.00	50.60	56.52
63.00	0.00	50.22#
107.00	42.70	47.10

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05MRL.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : MRL SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_05MRL.D

(53) 2,4-Dinitrophenol (MPT)

8.25min (-0.006) 2799.0199131 ppb m

response 4076

Ion	Exp%	Act%
184.00	100	100
154.00	50.60	56.52
63.00	0.00	82.39#
107.00	42.70	47.10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208854	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	920461	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	592768	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1017835	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1166590	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1308304	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery	= 0.00%#	

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	37704	1815.0533426 ppb	94
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	102996	1986.2415986 ppb #	94
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.04	105	12105	2714.7151250 ppb	86
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	22685	1895.5343235 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

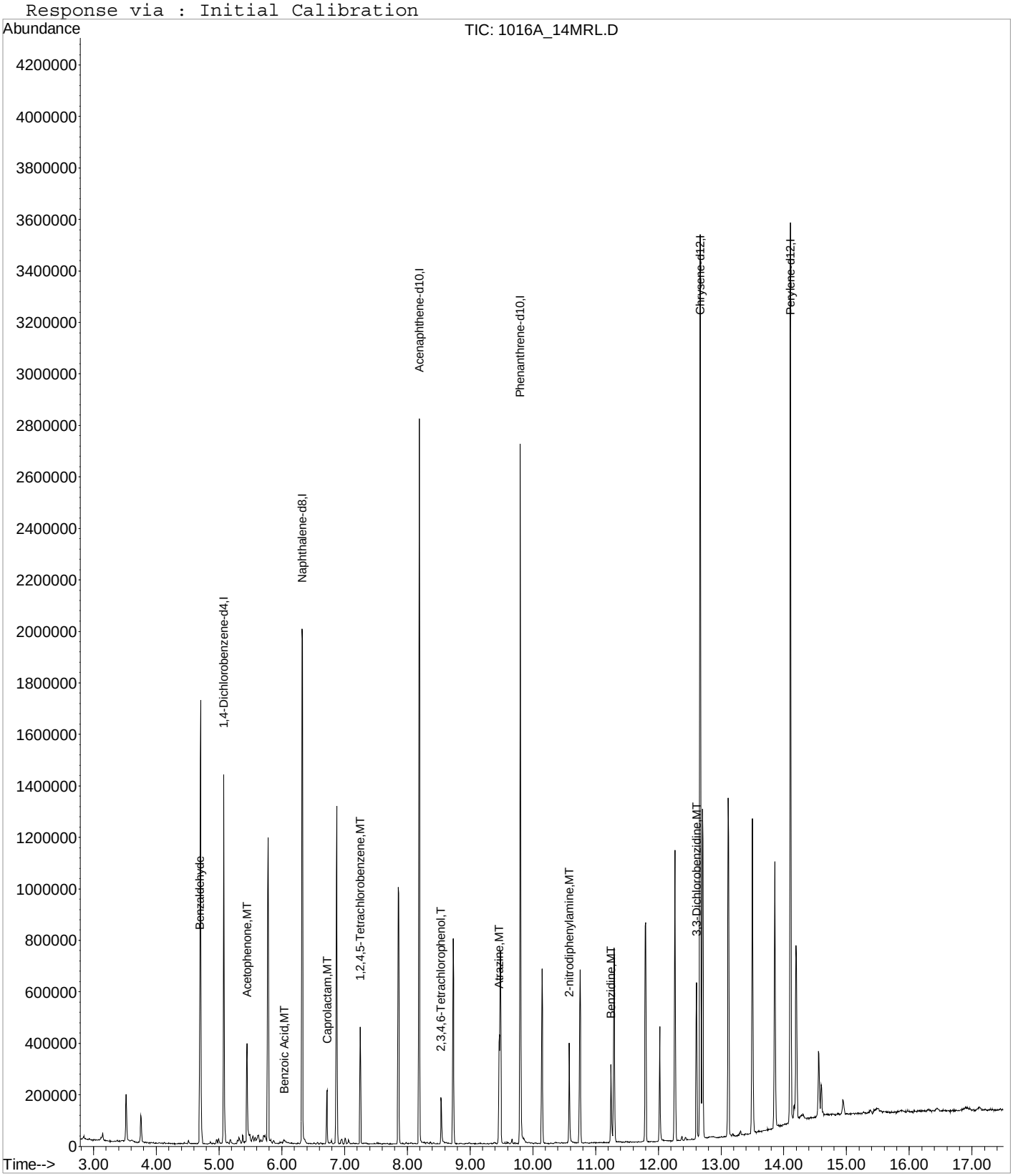
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	2049.4761699 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	25470	1572.8464652 ppb		97
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	43828	1902.2436691 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	53788	1547.1745978 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	135495	1942.7028658 ppb		99
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	129299	1962.9697235 ppb		98
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: S804J16N.RES

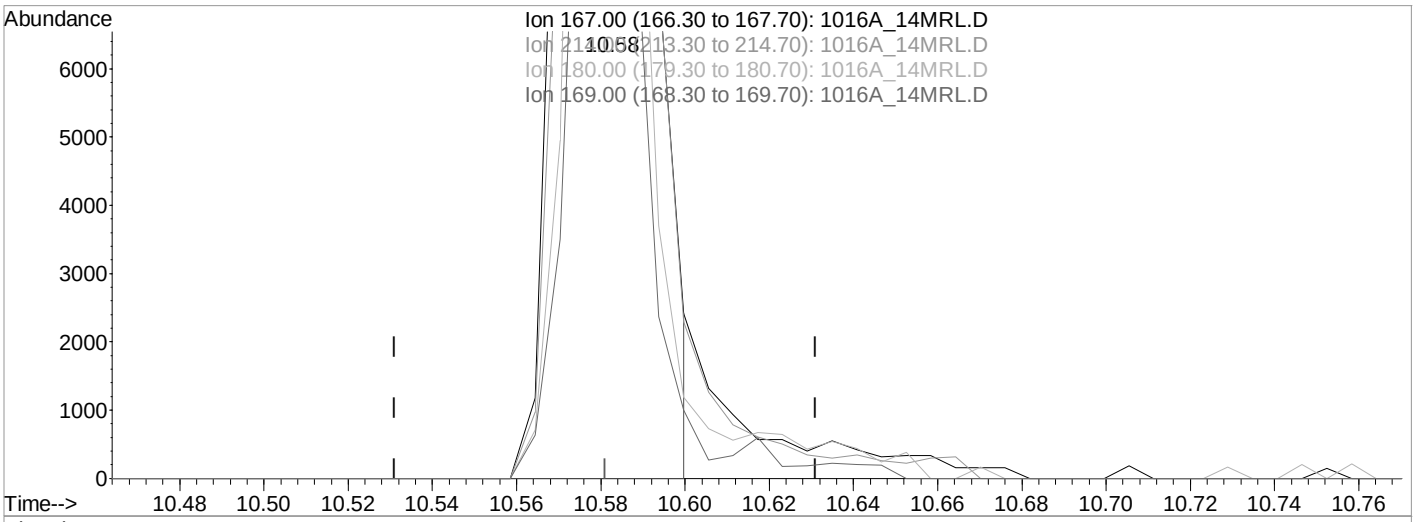
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

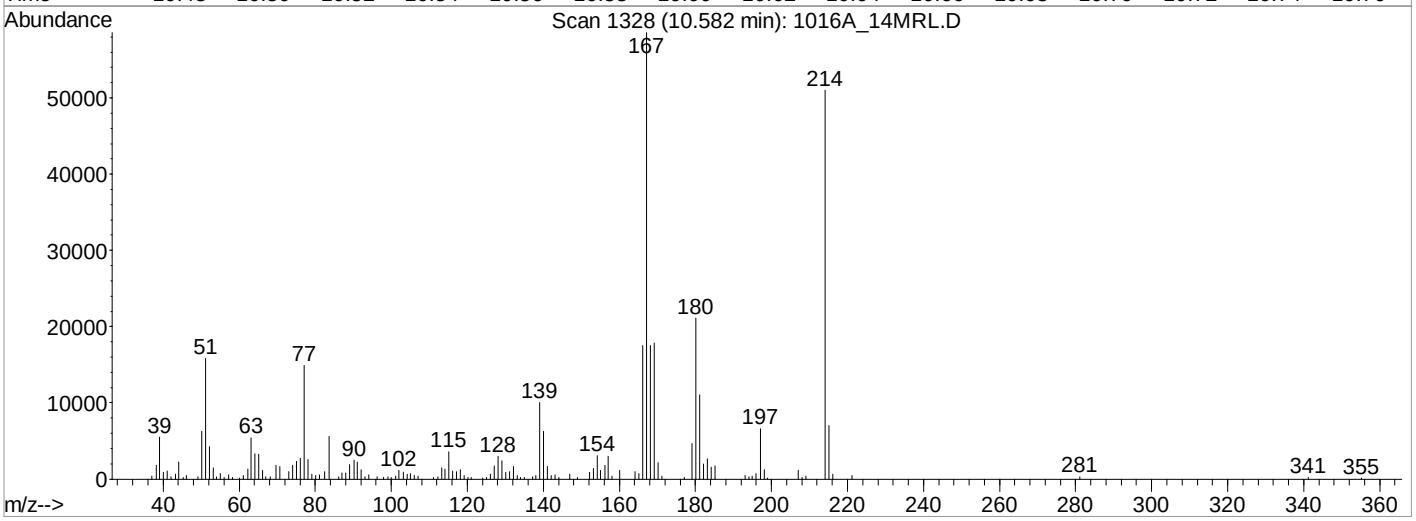


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Single Level Calibration





TIC: 1016A_14MRL.D

(76) 2-nitrodiphenylamine (MT)

10.58min (+0.001) 1547.1745978 ppb

Qvalue = 100

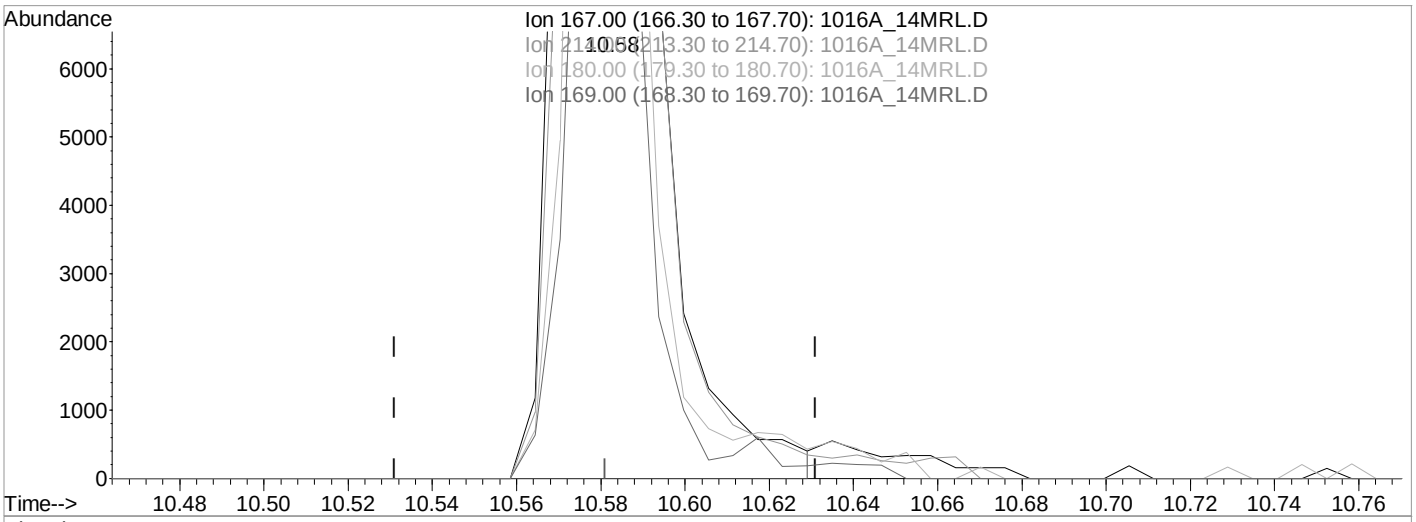
response 53788

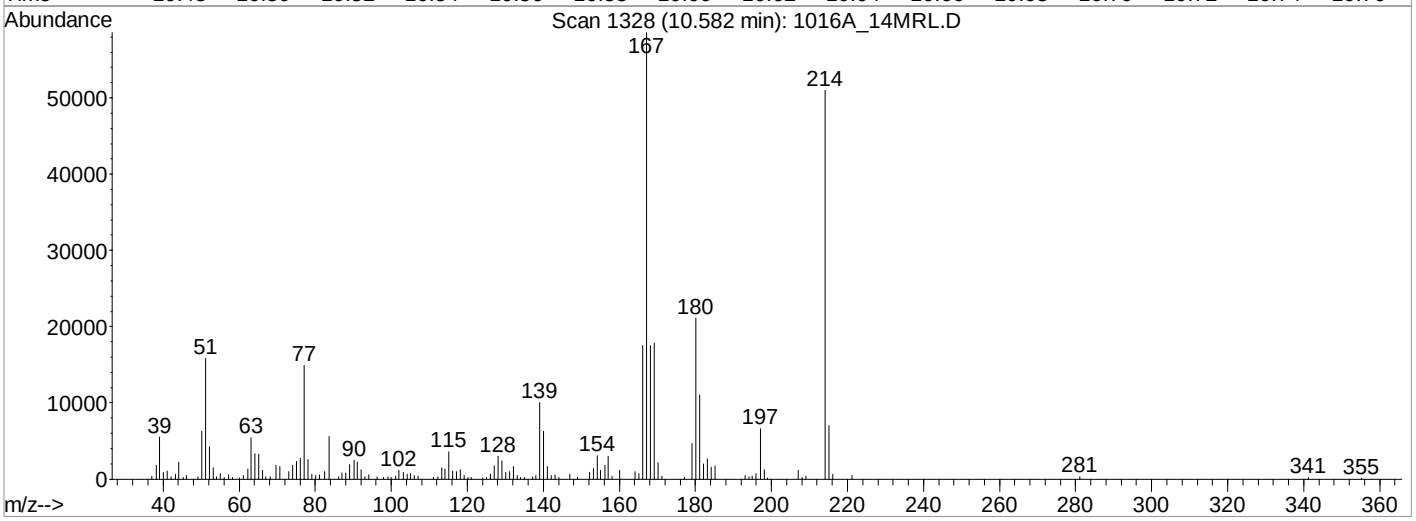
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.08#
180.00	0.00	39.61#
169.00	0.00	30.25#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14MRL.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Single Level Calibration





TIC: 1016A_14MRL.D

(76) 2-nitrodiphenylamine (MT)

10.58min (+0.001) 1547.1745978 ppb

Qvalue = 100

response 53788

Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.08#
180.00	0.00	39.61#
169.00	0.00	30.25#

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	218112	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	951545	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	611723	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1051173	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1304935	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1376185	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.91	112	67	1.7426637 ppb	-0.08
Spiked Amount 20.000	Range 10 - 74		Recovery = 8.71%#		
7) Phenol-d5	4.88	99	21344	455.3632805 ppb	0.16
Spiked Amount 20.000	Range 10 - 63		Recovery = 2276.82%#		
23) Nitrobenzene-d5	5.56	82	43296	940.2206595 ppb	-0.04
Spiked Amount 10.000	Range 28 - 123		Recovery = 9402.21%#		
44) 2-Fluorobiphenyl	7.40	172	529	5.1166695 ppb	-0.06
Spiked Amount 10.000	Range 35 - 133		Recovery = 51.17%		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	11.52	244	56	0.3536629 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 3.54%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	586595	9570.5728752 ppb		99
3) N-Nitrosodimethylamine	2.94	42	287341	9230.2895438 ppb		98
5) Aniline	4.78	66	217545	9367.4986257 ppb		98
6) bis(2-Chloroethyl)ether	4.82	63	307540	9547.5906035 ppb		99
8) Phenol	4.73	94	461899	9556.4348722 ppb		98
9) Benzaldehyde	4.71	105	3814	175.8109385 ppb	#	1
10) 2-Chlorophenol	4.88	128	403958	9598.7055347 ppb		98
11) n-Decane	4.78	41	28237	1128.5782241 ppb	#	36
12) 1,3-Dichlorobenzene	5.02	146	442353	9502.6438330 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	453590	9541.5524397 ppb		97
14) Benzyl Alcohol	5.19	79	322536	9137.2780074 ppb		99
15) 1,2-Dichlorobenzene	5.24	146	431233	9477.7198955 ppb		99
16) bis(2-Chloroisopropyl)ethe	5.32	121	150324	11030.7838207 ppb		99
17) 2-Methylphenol	5.28	108	360838	9483.1949818 ppb		98
18) Hexachloroethane	5.56	117	191686	9383.7211174 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	294580	9212.2429661 ppb		98
20) 3&4-Methyl phenol	5.43	107	416761	9541.7889384 ppb		98
21) Acetophenone	5.43	105	4557	84.1499729 ppb	#	1
24) Nitrobenzene	5.62	77	428983	9443.6954446 ppb		98
25) Isophorone	5.85	82	775048	9735.1686240 ppb		97
26) 2-Nitrophenol	5.93	139	222794	9877.6093953 ppb		93
27) 2,4-Dimethylphenol	5.96	107	392282	9206.4194603 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	510878	9774.5306083 ppb		96
29) 2,4-Dichlorophenol	6.17	162	341746	9555.0444136 ppb		95
30) Benzoic Acid	5.96	105	13531	2767.0743577 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.26	180	378626	9482.5944685 ppb		97
32) Naphthalene	6.35	128	1303943	9356.2883255 ppb		99
33) 4-Chloroaniline	6.39	65	157670	9074.9781579 ppb		98
34) Hexachloro-1,3-butadiene	6.47	225	233635	10483.2634859 ppb		98
35) Caprolactam	6.89	113	11288	912.4013739 ppb	#	21
36) 4-Chloro-3-methylphenol	6.89	107	380395	9344.1461196 ppb		97
37) 2-Methylnaphthalene	7.07	142	882067	9137.3358213 ppb		99
38) 1-Methylnaphthalene	7.18	142	853052	9508.8329996 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

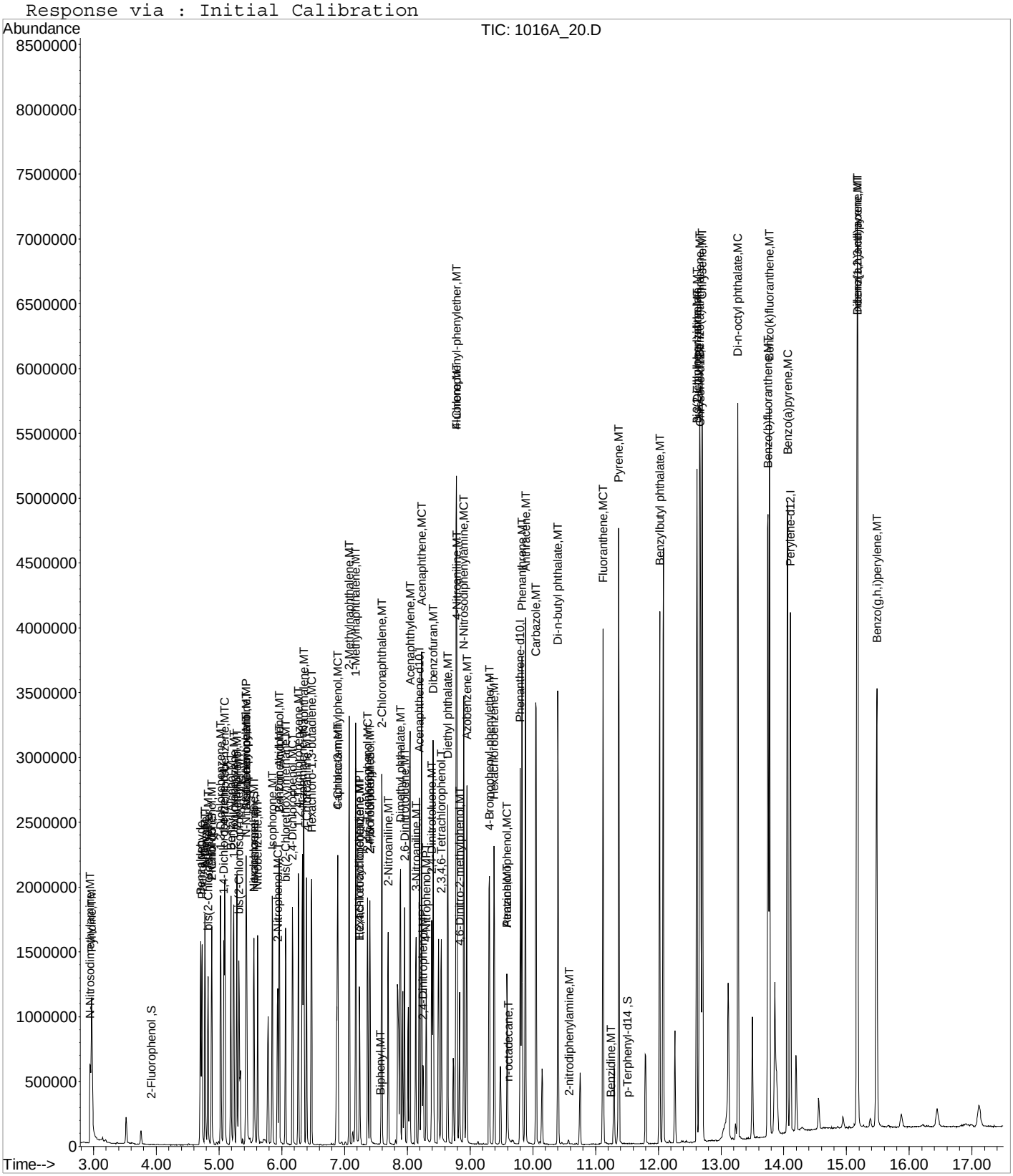
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.24	216	67	1.7892354 ppb	#	1
41)	Hexachlorocyclopentadiene	7.24	237	177766	8260.4322107 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	241784	9771.5956341 ppb		95
43)	2,4,5-Trichlorophenol	7.40	196	264138	9553.3858255 ppb		96
45)	Biphenyl	7.57	154	546	4.7914991 ppb	#	75
46)	2-Chloronaphthalene	7.59	162	865052	9502.1144168 ppb		99
47)	2-Nitroaniline	7.70	138	297341	9845.8284926 ppb		99
48)	Acenaphthylene	8.04	152	1448432	9660.4565234 ppb		99
49)	Dimethyl phthalate	7.89	163	936834	9109.3321523 ppb		97
50)	2,6-Dinitrotoluene	7.96	165	226308	9786.5562246 ppb		90
51)	3-Nitroaniline	8.14	138	249612	9253.0701383 ppb		93
52)	Acenaphthene	8.23	153	921959	9698.2216014 ppb		99
53)	2,4-Dinitrophenol	8.26	184	85681	9471.0224010 ppb	#	91
54)	Dibenzofuran	8.41	168	1256087	9503.8467271 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	294776	9523.8168024 ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.54	232	191345	11449.9725328 ppb		98
57)	4-Nitrophenol	8.30	139	183172	9193.0773877 ppb		94
58)	Fluorene	8.78	166	1049218	9608.7036721 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	450743	9477.5742505 ppb		93
60)	Diethyl phthalate	8.64	149	983363	8809.5308669 ppb		100
61)	4-Nitroaniline	8.80	138	267829	9706.1419246 ppb		100
62)	Azobenzene	8.95	77	1040861	9114.2797154 ppb		99
63)	Atrazine	9.59	200	27814	1169.7899493 ppb	#	21
65)	4,6-Dinitro-2-methylphenol	8.83	198	147326	10029.4285837 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	842863	9466.2915644 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	260546	9555.6808354 ppb		92
69)	Hexachlorobenzene	9.38	284	289674	9420.9004491 ppb		98
70)	n-octadecane	9.61	55	2064	110.4475178 ppb	#	1
71)	Pentachlorophenol	9.59	266	158124	10785.5600878 ppb		95
72)	Phenanthrene	9.83	178	1490681	9580.2697724 ppb		99
73)	Anthracene	9.88	178	1541731	9679.1462053 ppb		100
74)	Carbazole	10.05	167	1499086	9671.7562194 ppb		99
75)	Di-n-butyl phthalate	10.40	149	1940024	9198.1520228 ppb		100
76)	2-nitrodiphenylamine	10.58	167	431	12.0042321 ppb	#	100
77)	Fluoranthene	11.12	202	1754987	9564.5832083 ppb		100
79)	Benzidine	11.25	184	2535	756.4716190 ppb		83
80)	Pyrene	11.37	202	1856030	9010.8277312 ppb		99
82)	Benzylbutyl phthalate	12.02	149	995432	8957.5852000 ppb		98
83)	3,3-Dichlorobenzidine	12.61	252	608	8.2518511 ppb	#	45
84)	Benzo(a)anthracene	12.66	228	1958773	9165.8603714 ppb		98
85)	Chrysene	12.70	228	1884397	9722.9978488 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	1513847	8789.5474505 ppb		99
87)	Di-n-octyl phthalate	13.27	149	2806317	9389.2138408 ppb		100
89)	Benzo(b)fluoranthene	13.75	252	2233601	10186.9630614 ppb		97
90)	Benzo(k)fluoranthene	13.77	252	1915976	9626.0048696 ppb		97
91)	Benzo(a)pyrene	14.06	252	1974522	9619.5556199 ppb		96
92)	Indeno(1,2,3-cd)pyrene	15.18	276	2137011	9454.5964958 ppb		93
93)	Dibenz(a,h)anthracene	15.17	278	1866939	9894.5372732 ppb		99
94)	Benzo(g,h,i)perylene	15.48	276	1770688	9440.1774984 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: S804J16N.RES

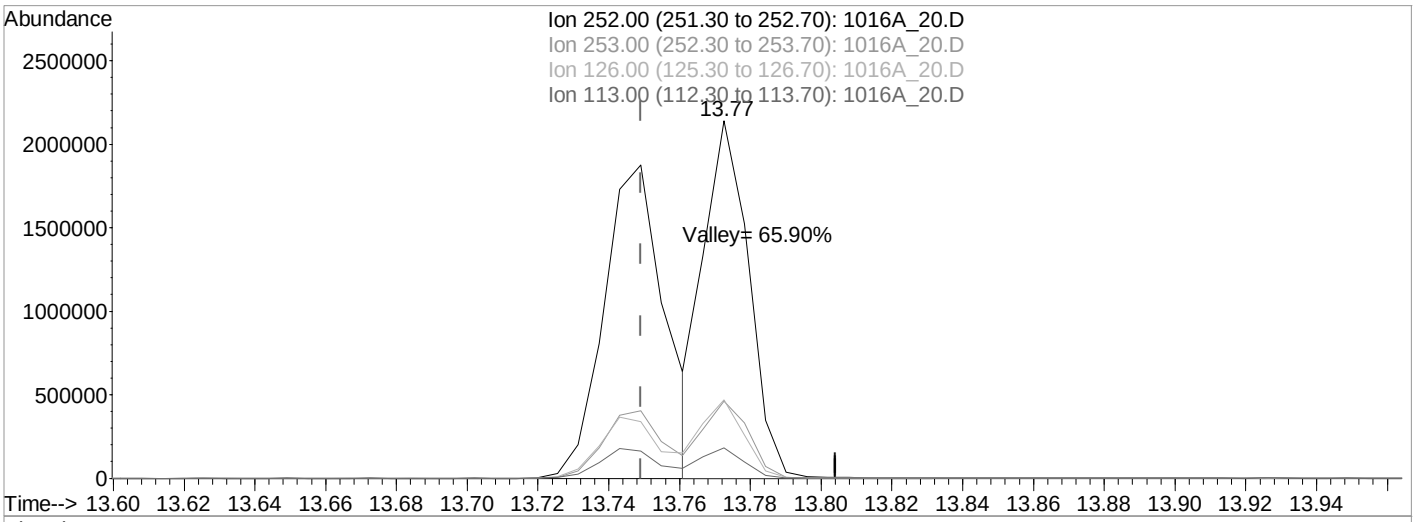
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Initial Calibration

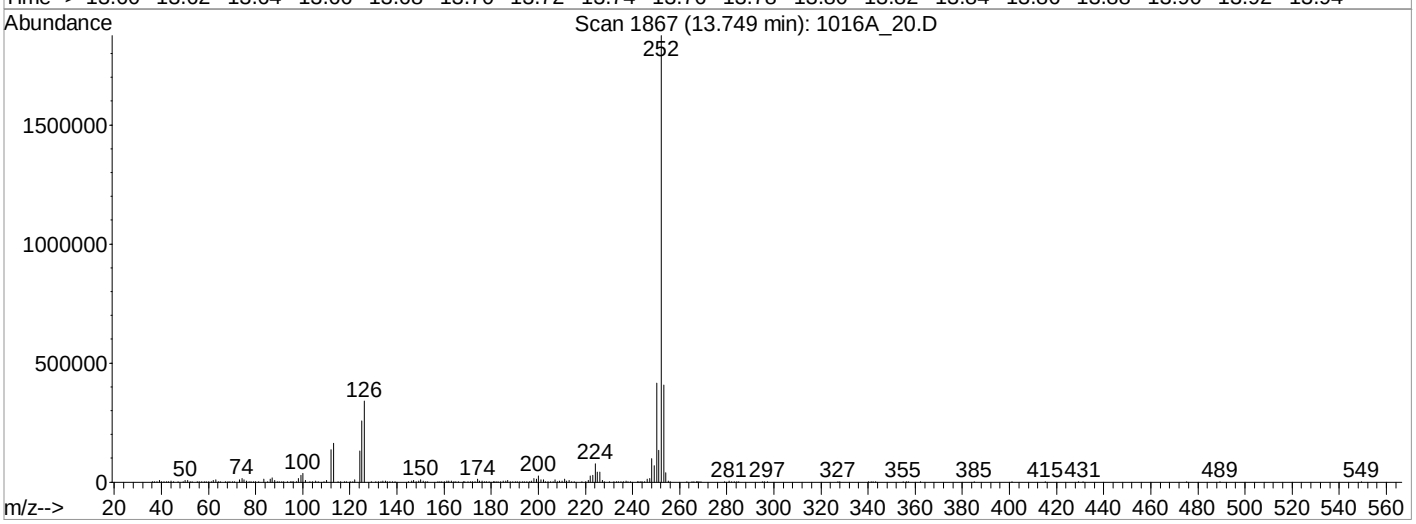


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 20.D Vial: 24
Acq On : 16 Oct 2014 11:11 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14C29003 Inst : BNAMS4
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 10:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 10:07:59 2014
Response via : Multiple Level Calibration





TIC: 1016A_20.D

(89) Benzo(b)fluoranthene (MT)

13.75min (-0.000) 10186.9630614 ppb

Qvalue = 97

response 2233601

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.67
126.00	19.90	17.04
113.00	9.50	8.56

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177575	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	768068	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	483289	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	806487	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	901878	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1065546	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	3.99	112	313244	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 50000.00%#		
7) Phenol-d5	4.72	99	380388	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 50000.00%#		
23) Nitrobenzene-d5	5.60	82	368429	10027.8165631 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 100278.17%#		
44) 2-Fluorobiphenyl	7.46	172	824367	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.05	330	95626	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.52	244	1158536	10000.4315978 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 100004.32%#		

Target Compounds

					Qvalue
2) Pyridine	2.96	79	496261	9996.3741915 ppb	100
3) N-Nitrosodimethylamine	2.94	42	251722	10000.0000000 ppb	100
5) Aniline	4.78	66	183990	9970.2501910 ppb	100
6) bis(2-Chloroethyl)ether	4.82	63	261127	10000.0000000 ppb	100
8) Phenol	4.73	94	394706	10000.0000000 ppb	100
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	345051	10000.0000000 ppb	100
11) n-Decane	4.91	41	196077	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.02	146	380097	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.09	146	387474	10000.0000000 ppb	100
14) Benzyl Alcohol	5.19	79	281230	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.24	146	373994	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)ethe	5.32	121	109455	10000.0000000 ppb	100
17) 2-Methylphenol	5.28	108	309589	10000.0000000 ppb	100
18) Hexachloroethane	5.56	117	166511	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.44	70	249632	9997.2366951 ppb	100
20) 3&4-Methyl phenol	5.43	107	354976	10000.0000000 ppb	100
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	371136	10000.0000000 ppb	100
25) Isophorone	5.85	82	645354	10000.0000000 ppb	100
26) 2-Nitrophenol	5.93	139	184296	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	5.96	107	317469	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.06	93	420413	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.18	162	297023	10000.0000000 ppb	100
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	325377	10000.0000000 ppb	100
32) Naphthalene	6.35	128	1094464	10000.0000000 ppb	100
33) 4-Chloroaniline	6.40	65	139018	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.48	225	182024	10000.0000000 ppb	100
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	328619	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.07	142	766405	10000.0000000 ppb	100
38) 1-Methylnaphthalene	7.18	142	718874	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

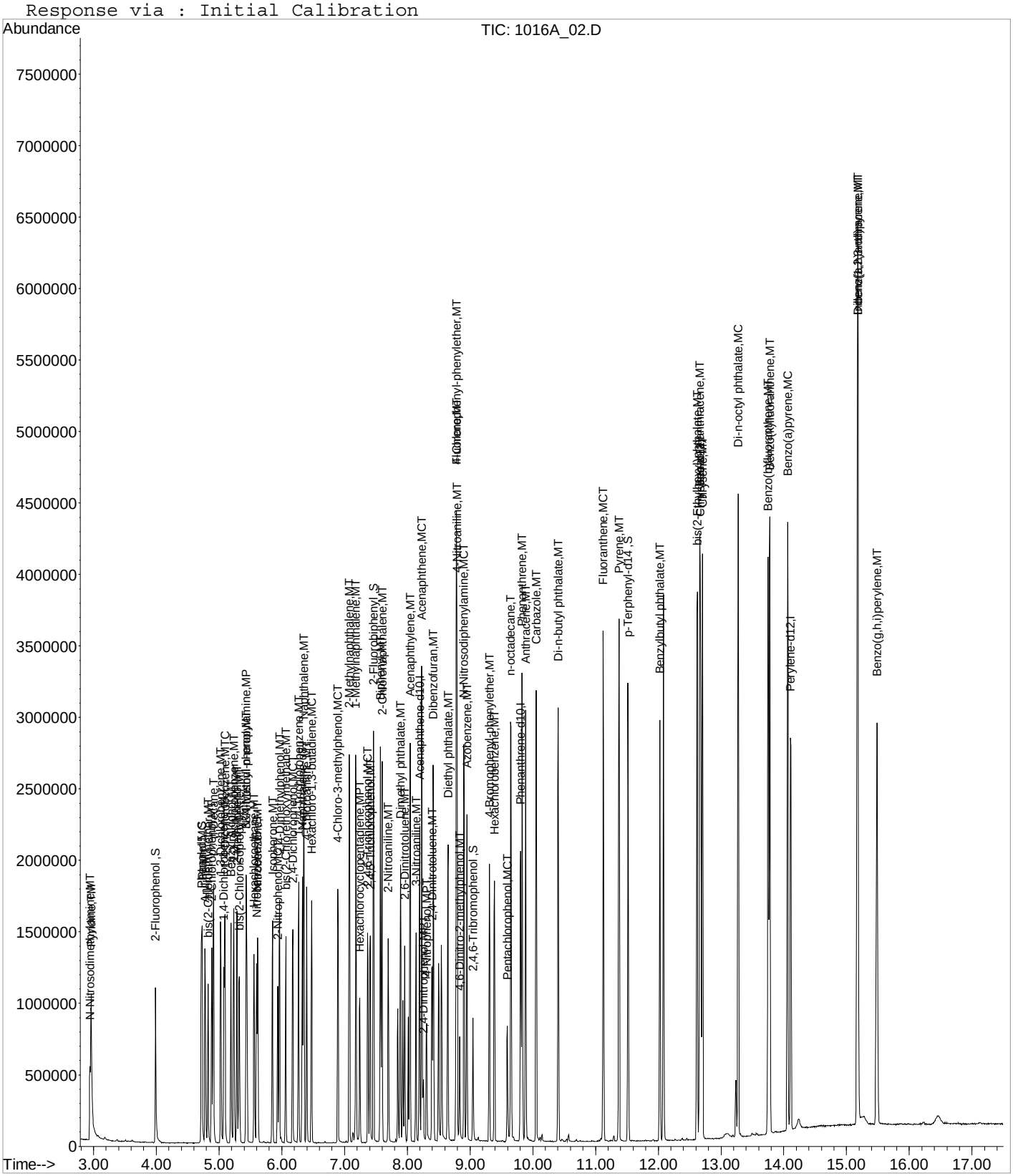
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d	
41)	Hexachlorocyclopentadiene	7.24	237	160562	10000.0000000 ppb	100
42)	2,4,6-Trichlorophenol	7.37	196	198040	10000.0000000 ppb	100
43)	2,4,5-Trichlorophenol	7.41	196	222005	10000.0000000 ppb	100
45)	Biphenyl	7.57	154	902780	10000.0000000 ppb	100
46)	2-Chloronaphthalene	7.60	162	725057	10000.0000000 ppb	100
47)	2-Nitroaniline	7.70	138	246299	10000.0000000 ppb	100
48)	Acenaphthylene	8.04	152	1201335	10000.0000000 ppb	100
49)	Dimethyl phthalate	7.89	163	793368	10000.0000000 ppb	100
50)	2,6-Dinitrotoluene	7.96	165	188316	10000.0000000 ppb	100
51)	3-Nitroaniline	8.14	138	213753	10000.0000000 ppb	100
52)	Acenaphthene	8.23	153	758167	10000.0000000 ppb	100
53)	2,4-Dinitrophenol	8.26	184	54076	9942.6344046 ppb	97
54)	Dibenzofuran	8.41	168	1057368	10000.0000000 ppb	100
55)	2,4-Dinitrotoluene	8.40	165	241039	10000.0000000 ppb	100
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d	
57)	4-Nitrophenol	8.31	139	146387	10000.0000000 ppb	100
58)	Fluorene	8.78	166	863838	10000.0000000 ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	379214	10000.0000000 ppb	100
60)	Diethyl phthalate	8.65	149	850634	10000.0000000 ppb	100
61)	4-Nitroaniline	8.80	138	218652	10000.0000000 ppb	100
62)	Azobenzene	8.95	77	874549	10000.0000000 ppb	100
63)	Atrazine	0.00	200	0	N.D. d	
65)	4,6-Dinitro-2-methylphenol	8.84	198	95566	10000.0000000 ppb	100
66)	N-Nitrosodiphenylamine	8.90	169	702598	10000.0000000 ppb	100
68)	4-Bromophenyl-phenylether	9.31	248	215811	10000.0000000 ppb	100
69)	Hexachlorobenzene	9.39	284	239221	10000.0000000 ppb	100
70)	n-octadecane	9.65	55	149780	10000.0000000 ppb	100
71)	Pentachlorophenol	9.59	266	101919	10000.0000000 ppb	100
72)	Phenanthrene	9.83	178	1190564	10000.0000000 ppb	100
73)	Anthracene	9.89	178	1244887	10000.0000000 ppb	100
74)	Carbazole	10.05	167	1223662	9998.0635657 ppb	100
75)	Di-n-butyl phthalate	10.41	149	1686202	10000.0000000 ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d	
77)	Fluoranthene	11.12	202	1433747	10000.0000000 ppb	100
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.38	202	1509126	10000.0000000 ppb	100
82)	Benzylbutyl phthalate	12.03	149	807450	10000.0000000 ppb	100
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d	
84)	Benzo(a)anthracene	12.66	228	1485931	10000.0000000 ppb	100
85)	Chrysene	12.70	228	1380392	10000.0000000 ppb	100
86)	bis(2-Ethylhexyl)phthalate	12.62	149	1223652	10000.0000000 ppb	100
87)	Di-n-octyl phthalate	13.27	149	2244030	10000.0000000 ppb	100
89)	Benzo(b)fluoranthene	13.75	252	1641995m	9997.8202007 ppb	
90)	Benzo(k)fluoranthene	13.78	252	1617615m	9992.4884068 ppb	
91)	Benzo(a)pyrene	14.06	252	1607953	10000.0000000 ppb	100
92)	Indeno(1,2,3-cd)pyrene	15.18	276	1903809	10000.0000000 ppb	100
93)	Dibenz(a,h)anthracene	15.18	278	1619121	10000.0000000 ppb	100
94)	Benzo(g,h,i)perylene	15.49	276	1580035	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: S804J16N.RES

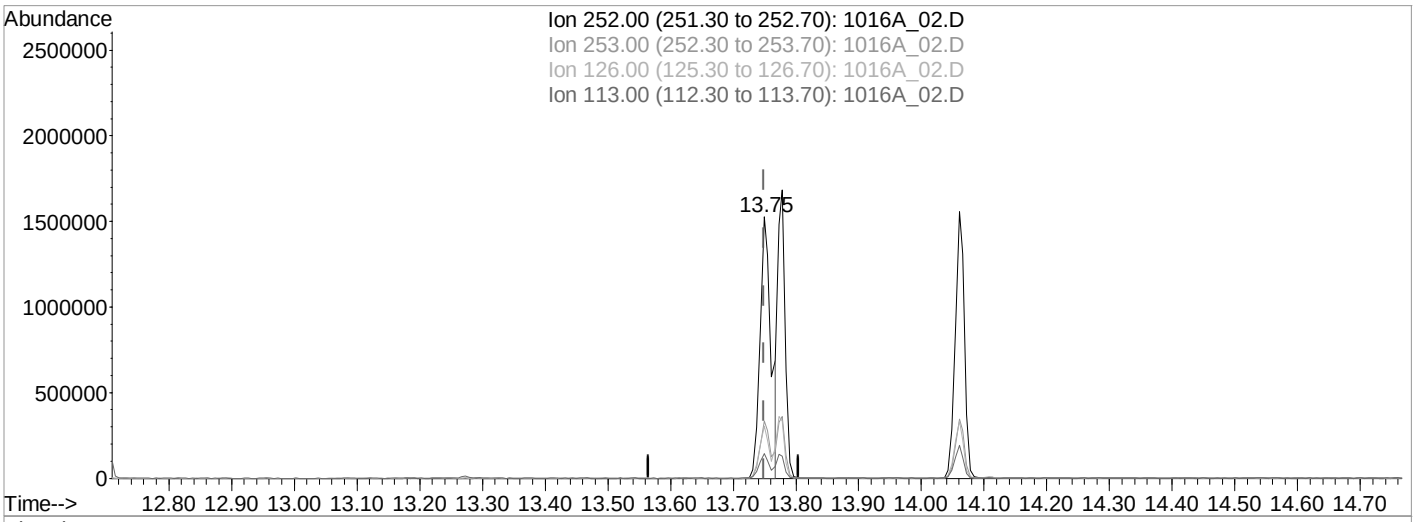
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Initial Calibration

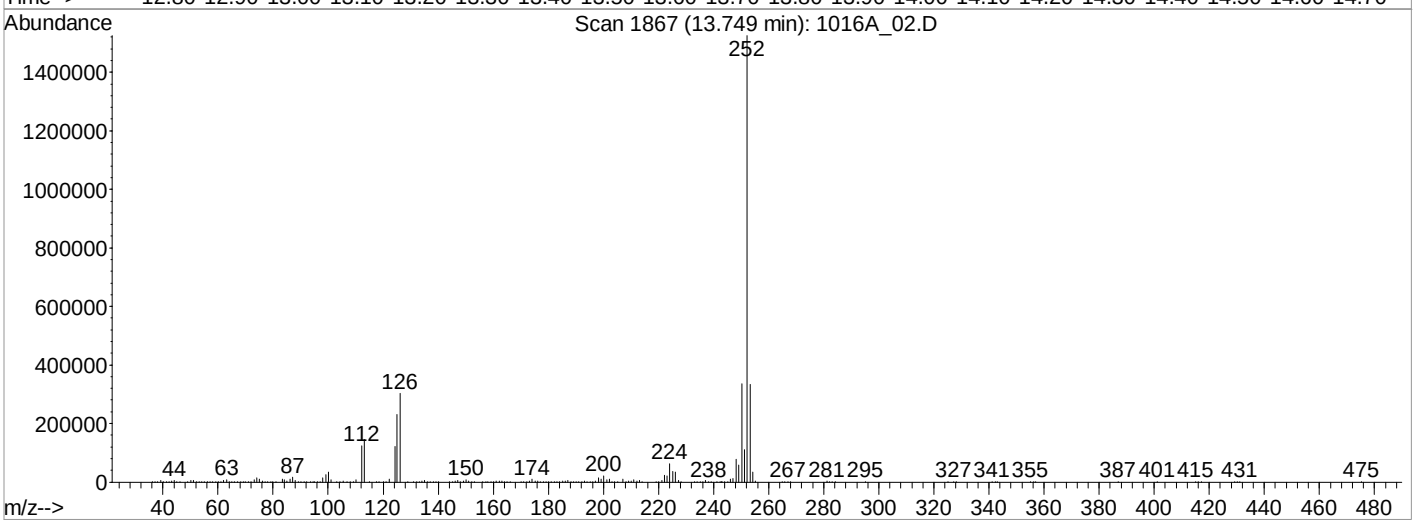


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:03 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 11466.9379847 ppb

Qvalue = 98

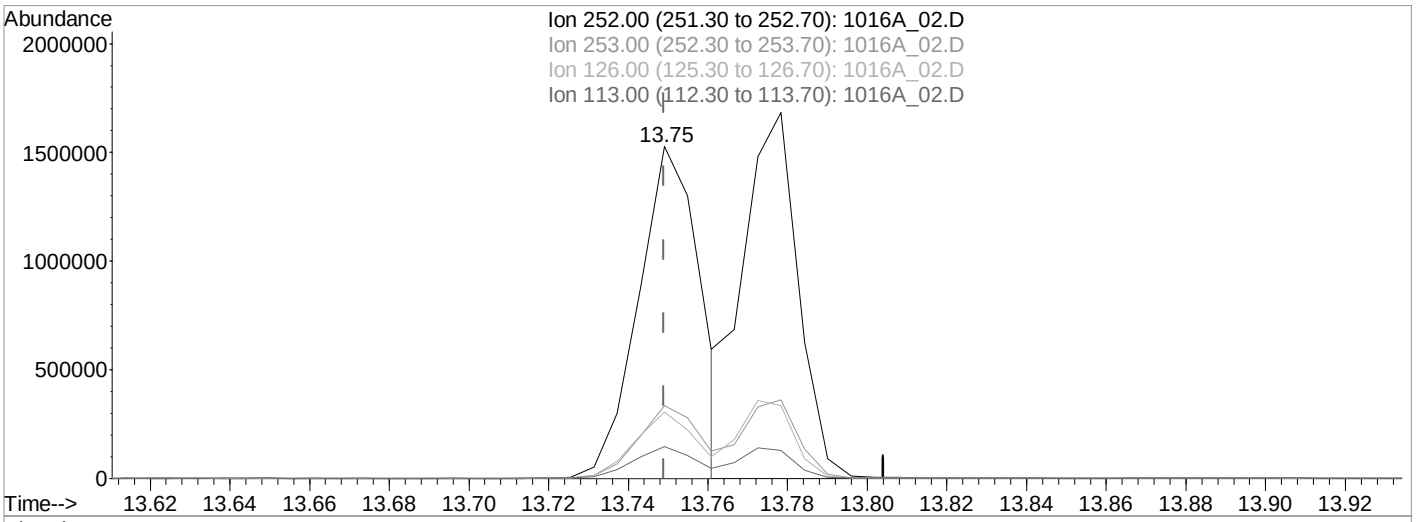
response 1883276

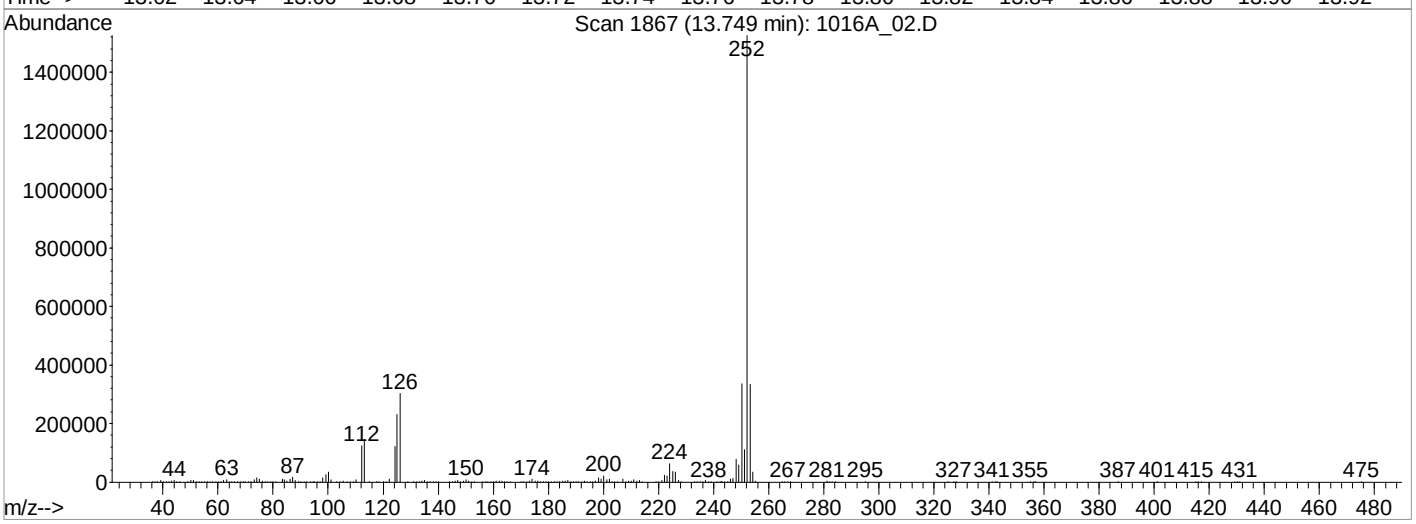
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.61
126.00	19.90	18.14
113.00	9.50	9.27

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 9997.8202007 ppb m

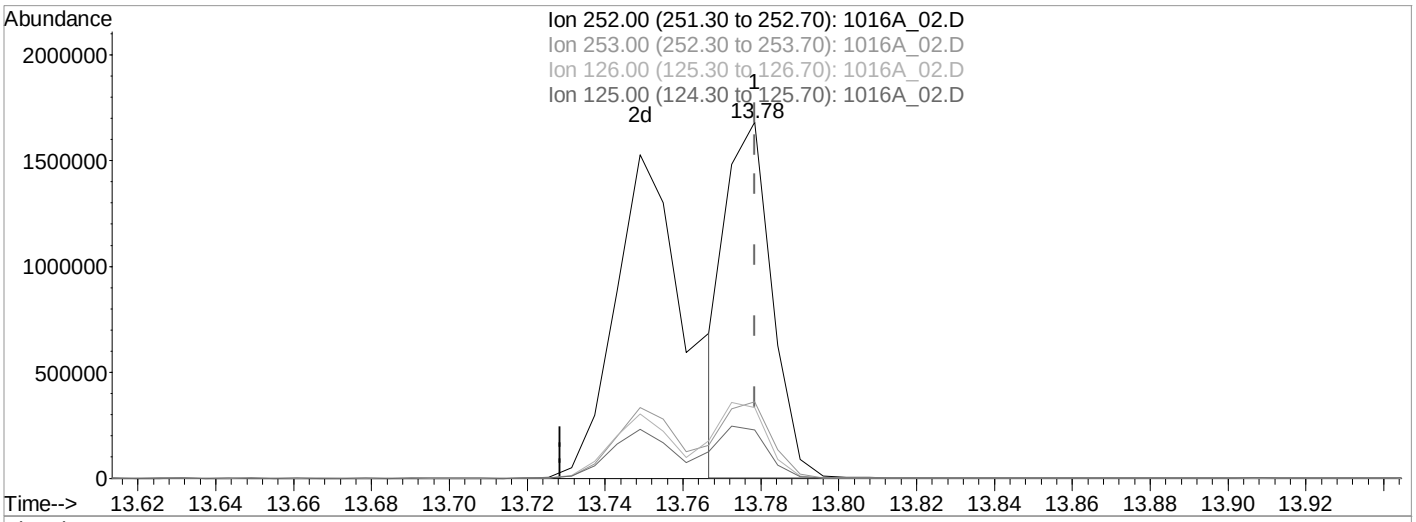
response 1641995

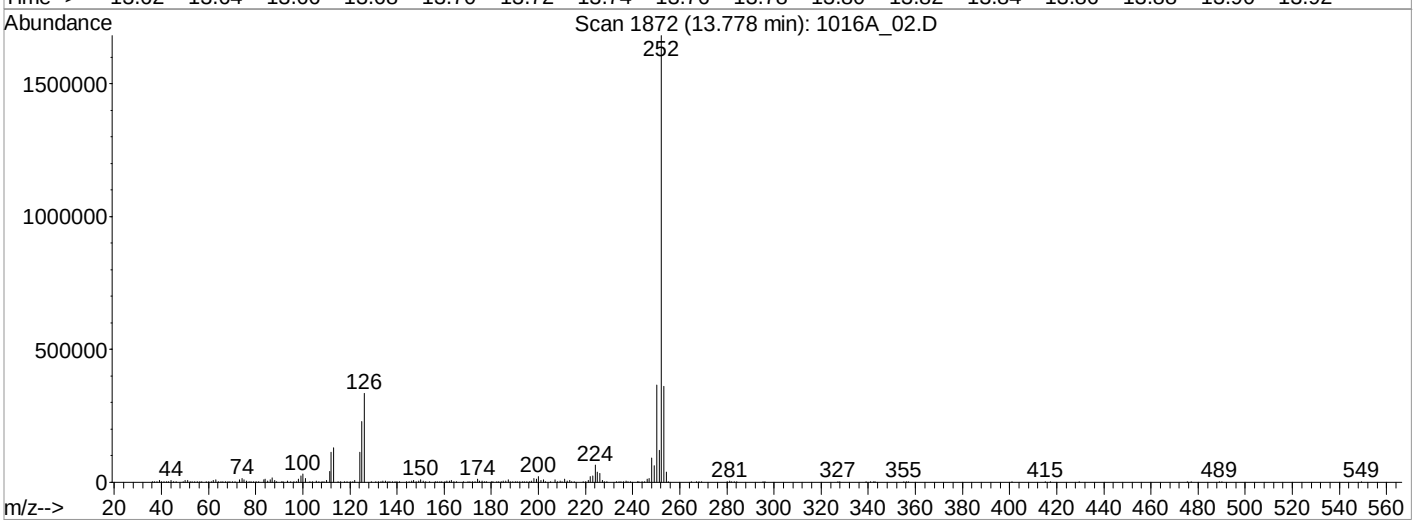
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	19.91
113.00	9.50	9.52

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(90) Benzo(k)fluoranthene (MT)

13.78min (0.000) 8518.1467368 ppb

Qvalue = 100

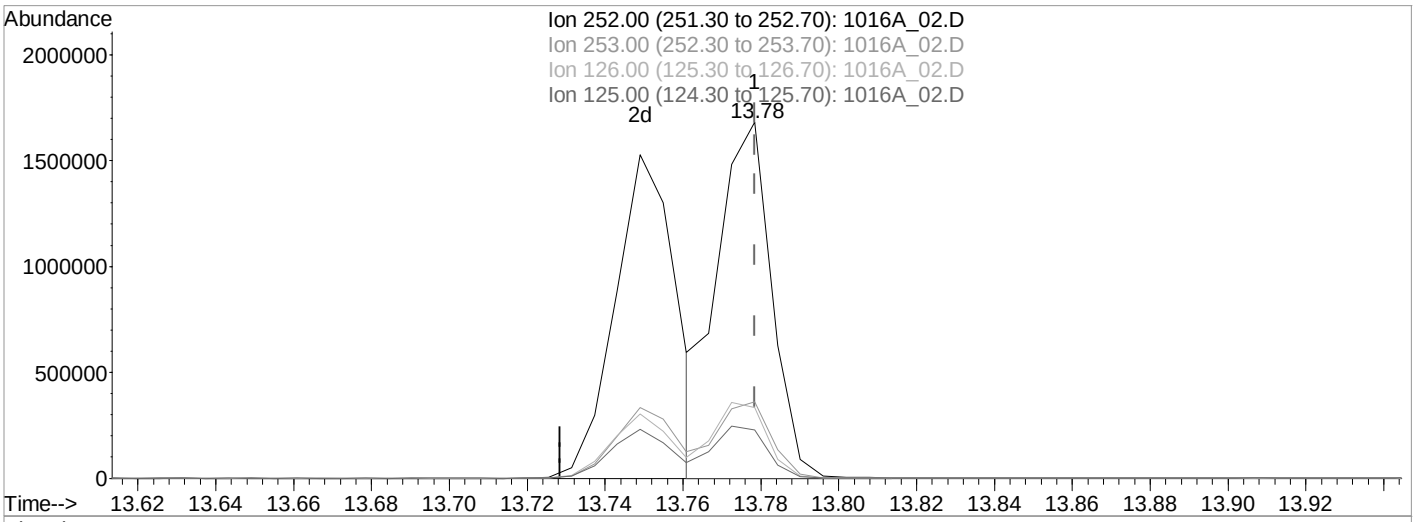
response 1378944

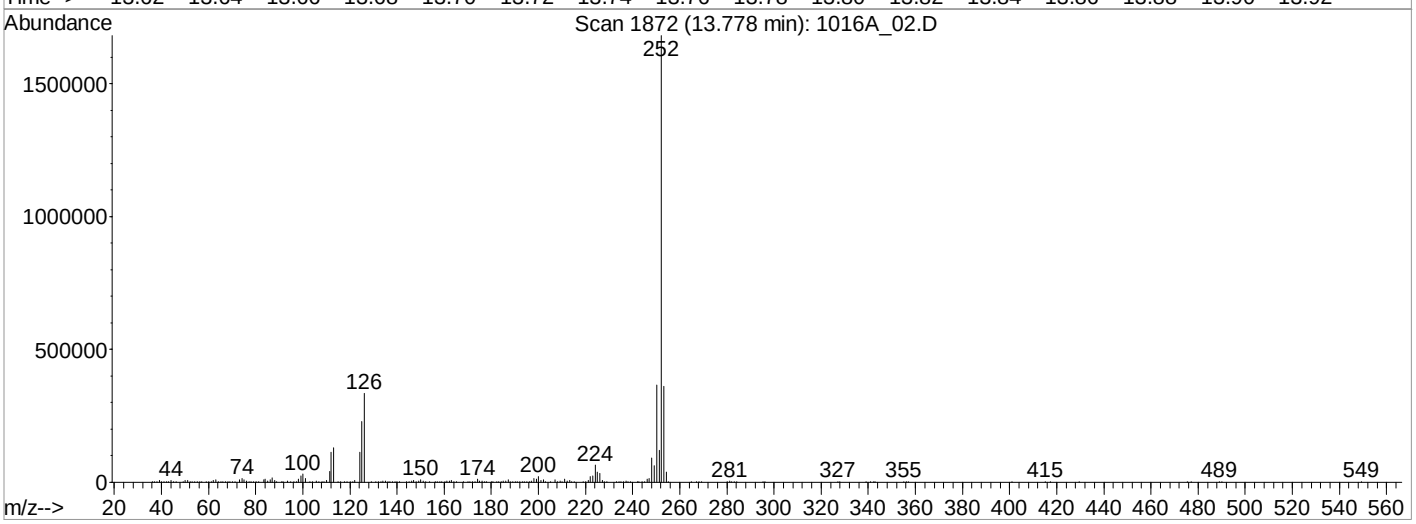
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.44
126.00	19.90	19.84
125.00	13.60	13.54

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(90) Benzo(k)fluoranthene (MT)

13.78min (0.000) 9992.4884068 ppb m

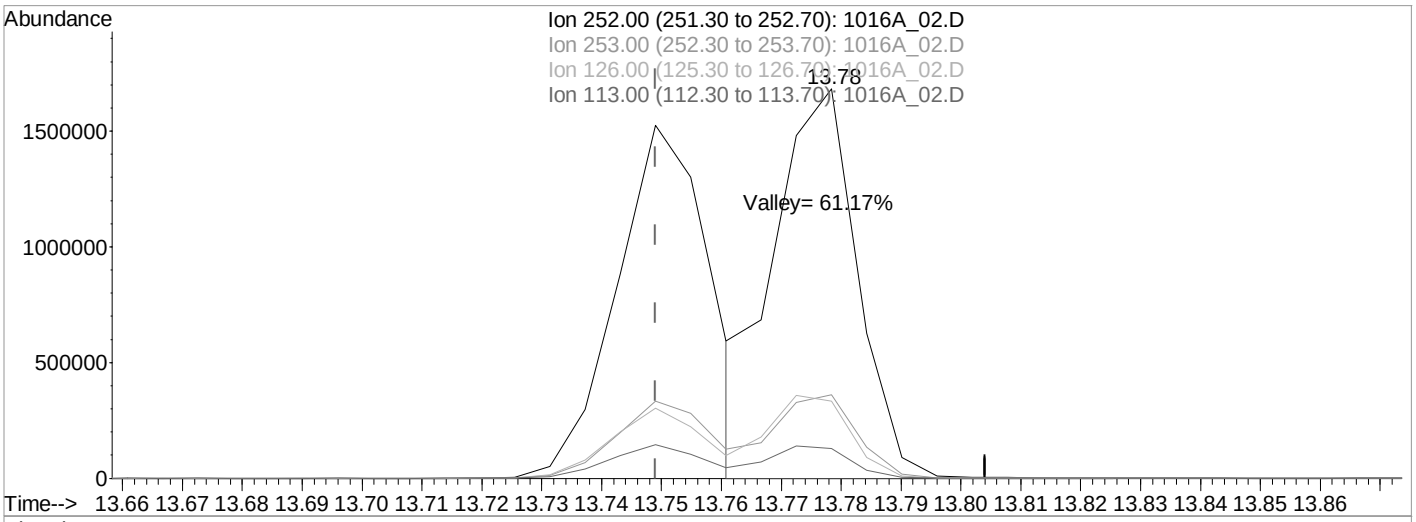
response 1617615

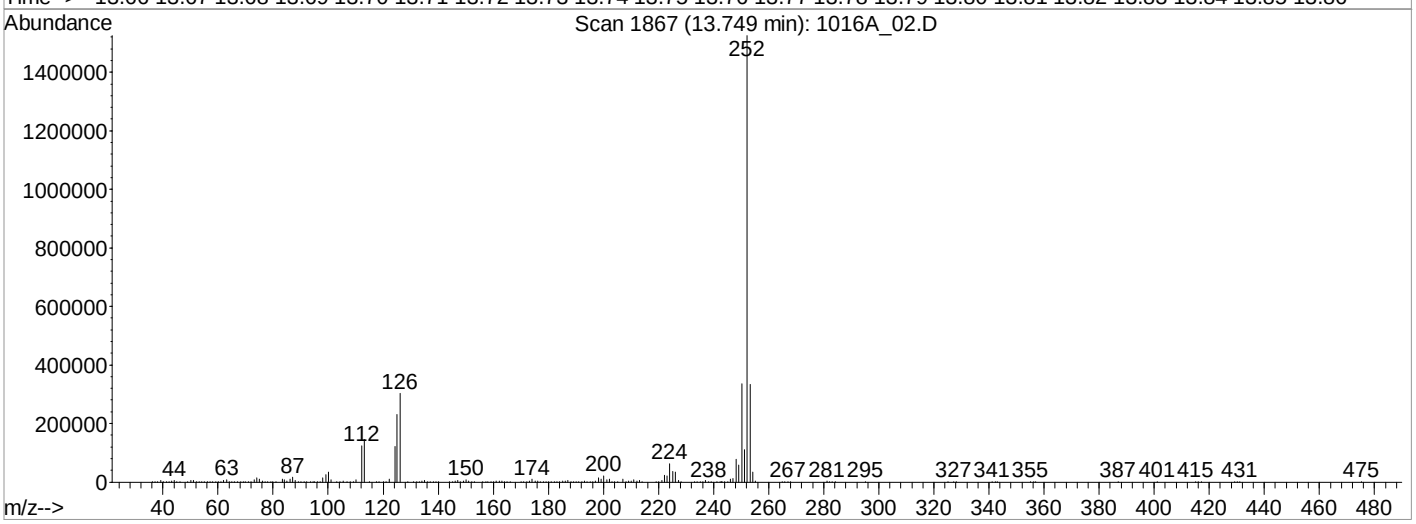
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.46
126.00	19.90	19.85
125.00	13.60	13.58

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 02.D Vial: 6
Acq On : 16 Oct 2014 4:39 pm Operator: 280
Sample : MSTD SVMS 10K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:01:37 2014
Response via : Multiple Level Calibration





TIC: 1016A_02.D

(89) Benzo(b)fluoranthene (MT)

13.75min (0.000) 9997.8202007 ppb m

response 1641995

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.82
126.00	19.90	19.91
113.00	9.50	9.52

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171571	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	739988	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	475667	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	807948	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	894719	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1016727	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	5998	198.1808292 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 990.90%#		
7) Phenol-d5	4.71	99	7399	201.3187199 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1006.59%#		
23) Nitrobenzene-d5	5.59	82	7624	214.7850626 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2147.85%#		
44) 2-Fluorobiphenyl	7.46	172	16734	206.2448220 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2062.45%#		
67) 2,4,6-Tribromophenol	9.04	330	1043	108.8735238 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 544.37%#		
81) p-Terphenyl-d14	11.52	244	22690	197.4177035 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 1974.18%#		

Target Compounds					Qvalue
2) Pyridine	2.99	79	14182	295.7775965 ppb #	85
3) N-Nitrosodimethylamine	2.97	42	8283	340.5684623 ppb #	52
5) Aniline	4.78	66	3806	214.0979482 ppb	94
6) bis(2-Chloroethyl)ether	4.82	63	5107	202.4193469 ppb	93
8) Phenol	4.73	94	7768	203.6917453 ppb	95
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	6487	194.5801565 ppb	97
11) n-Decane	4.91	41	4209	222.1724545 ppb #	76
12) 1,3-Dichlorobenzene	5.02	146	7470	203.4061599 ppb	98
13) 1,4-Dichlorobenzene	5.09	146	7771	207.5736794 ppb #	76
14) Benzyl Alcohol	5.19	79	6273	230.8615363 ppb	87
15) 1,2-Dichlorobenzene	5.24	146	6846	189.4568014 ppb	94
16) bis(2-Chloroisopropyl)ethe	5.32	121	2464	232.9930889 ppb	87
17) 2-Methylphenol	5.28	108	5970	199.5844725 ppb	96
18) Hexachloroethane	5.56	117	3084	191.6943802 ppb	93
19) N-Nitrosodi-n-propylamine	5.43	70	5994	248.5160391 ppb	97
20) 3&4-Methyl phenol	5.43	107	6770	197.3911231 ppb	93
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	6708	187.6009208 ppb	98
25) Isophorone	5.85	82	12980	208.7621114 ppb	100
26) 2-Nitrophenol	5.93	139	3122	175.8295983 ppb	90
27) 2,4-Dimethylphenol	5.96	107	7312	239.0616172 ppb	94
28) bis(2-Chlorethoxy)methane	6.06	93	8545	210.9652500 ppb	95
29) 2,4-Dichlorophenol	6.17	162	5283	184.6143795 ppb	93
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	6409	204.4459046 ppb	95
32) Naphthalene	6.35	128	26411	250.4715242 ppb	98
33) 4-Chloroaniline	6.39	65	3143	234.6650104 ppb	77
34) Hexachloro-1,3-butadiene	6.47	225	3691	210.4700895 ppb	92
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	6880	217.3055223 ppb	98
37) 2-Methylnaphthalene	7.07	142	15790	213.8448497 ppb	99
38) 1-Methylnaphthalene	7.18	142	14507	209.4593874 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

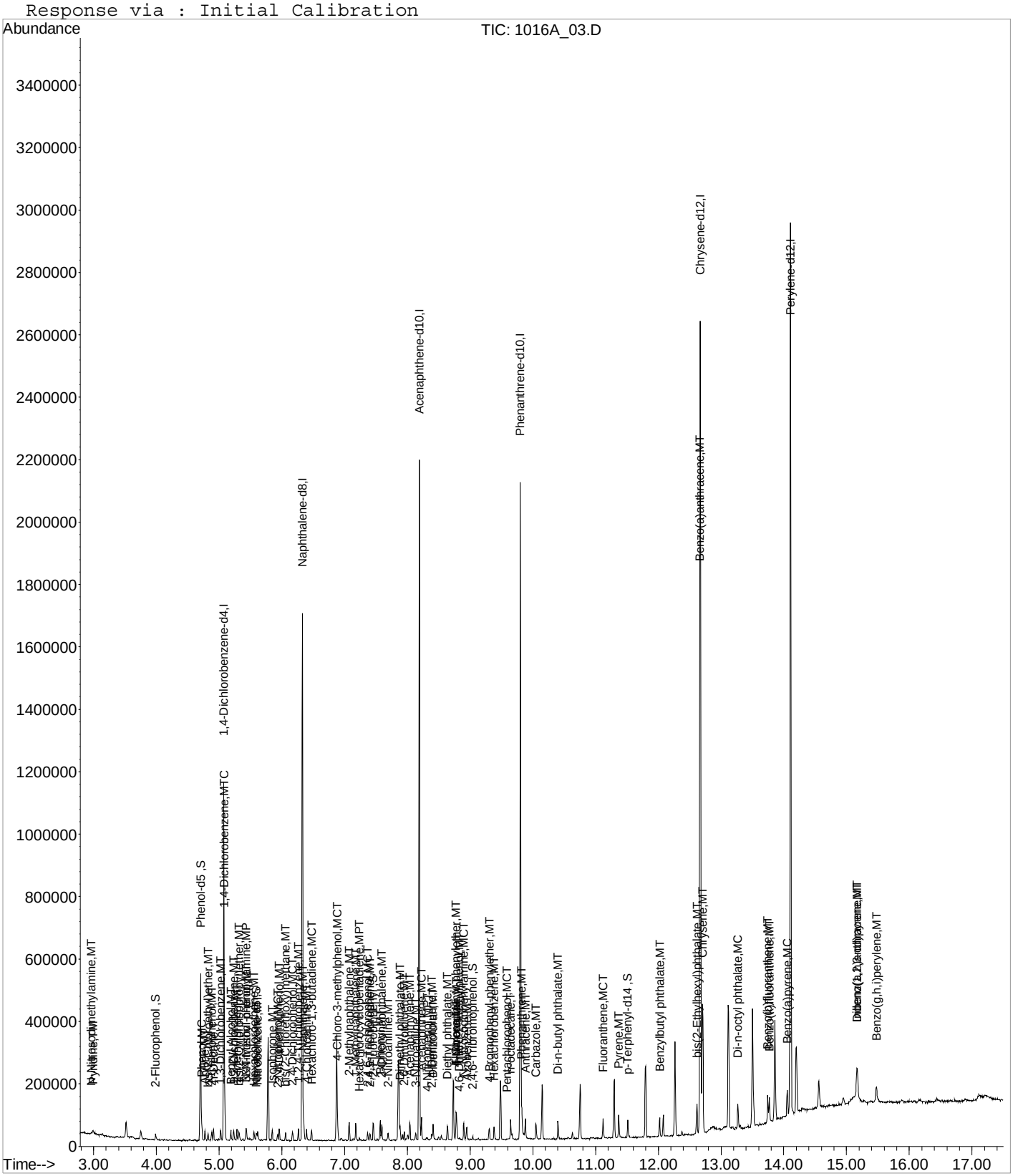
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	1005	63.5956163 ppb	#	87
42)	2,4,6-Trichlorophenol	7.37	196	3042	156.0666757 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	3433	157.1140180 ppb		91
45)	Biphenyl	7.57	154	18328	206.2704588 ppb		95
46)	2-Chloronaphthalene	7.59	162	14371	201.3811086 ppb		96
47)	2-Nitroaniline	7.70	138	4501	185.6736402 ppb	#	94
48)	Acenaphthylene	8.04	152	23673	200.2133607 ppb		99
49)	Dimethyl phthalate	7.89	163	16898	216.4036163 ppb		95
50)	2,6-Dinitrotoluene	7.96	165	2941	158.6761635 ppb		91
51)	3-Nitroaniline	8.13	138	3100	147.3510934 ppb	#	85
52)	Acenaphthene	8.23	153	15022	201.3106578 ppb		96
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.41	168	21276	204.4408634 ppb		98
55)	2,4-Dinitrotoluene	8.39	165	3804	160.3456118 ppb		95
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	1715	119.0324853 ppb	#	81
58)	Fluorene	8.78	166	17644	207.5241445 ppb		94
59)	4-Chlorophenyl-phenylether	8.78	204	7516	201.3753446 ppb		96
60)	Diethyl phthalate	8.64	149	18634	222.5703154 ppb		98
61)	4-Nitroaniline	8.79	138	3542	164.5883117 ppb	#	93
62)	Azobenzene	8.95	77	20432	237.3726182 ppb		88
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	8.83	198	645	67.3705770 ppb		86
66)	N-Nitrosodiphenylamine	8.90	169	13498	191.7681487 ppb		95
68)	4-Bromophenyl-phenylether	9.31	248	4293	198.5643472 ppb	#	82
69)	Hexachlorobenzene	9.38	284	5029	209.8438739 ppb		97
70)	n-octadecane	9.65	55	3850	256.5788559 ppb	#	50
71)	Pentachlorophenol	9.59	266	501	49.0677940 ppb		90
72)	Phenanthrene	9.82	178	24721	207.2656102 ppb		98
73)	Anthracene	9.88	178	24271	194.6129337 ppb		96
74)	Carbazole	10.05	167	23777	193.9588254 ppb		99
75)	Di-n-butyl phthalate	10.40	149	32450	192.0963275 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	28558	198.8241929 ppb		98
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	29162	194.7838463 ppb		99
82)	Benzylbutyl phthalate	12.02	149	16043	200.2770002 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	32693	221.7773881 ppb		95
85)	Chrysene	12.70	228	28029	204.6757088 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	28628	235.8273752 ppb		99
87)	Di-n-octyl phthalate	13.27	149	42752	192.0387679 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	31715m	202.4234077 ppb		
90)	Benzo(k)fluoranthene	13.77	252	31912m	206.7505646 ppb		
91)	Benzo(a)pyrene	14.05	252	30574	199.2722192 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.17	276	32247	177.5144816 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	25204	163.1390811 ppb		96
94)	Benzo(g,h,i)perylene	15.48	276	27011	179.1603087 ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: S804J16N.RES

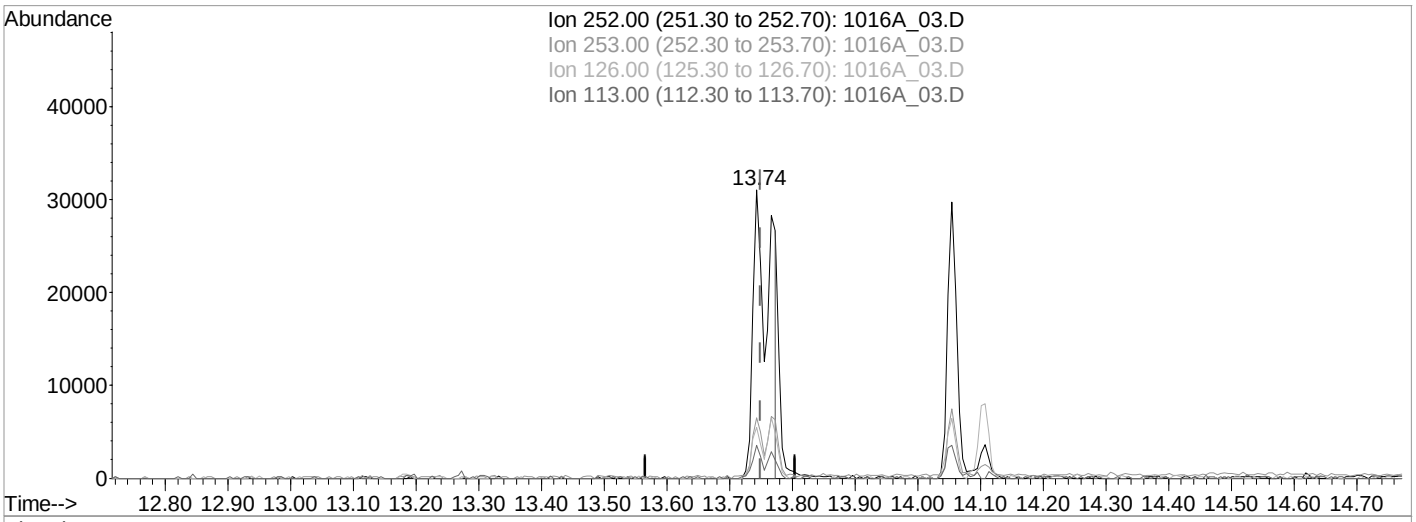
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Initial Calibration

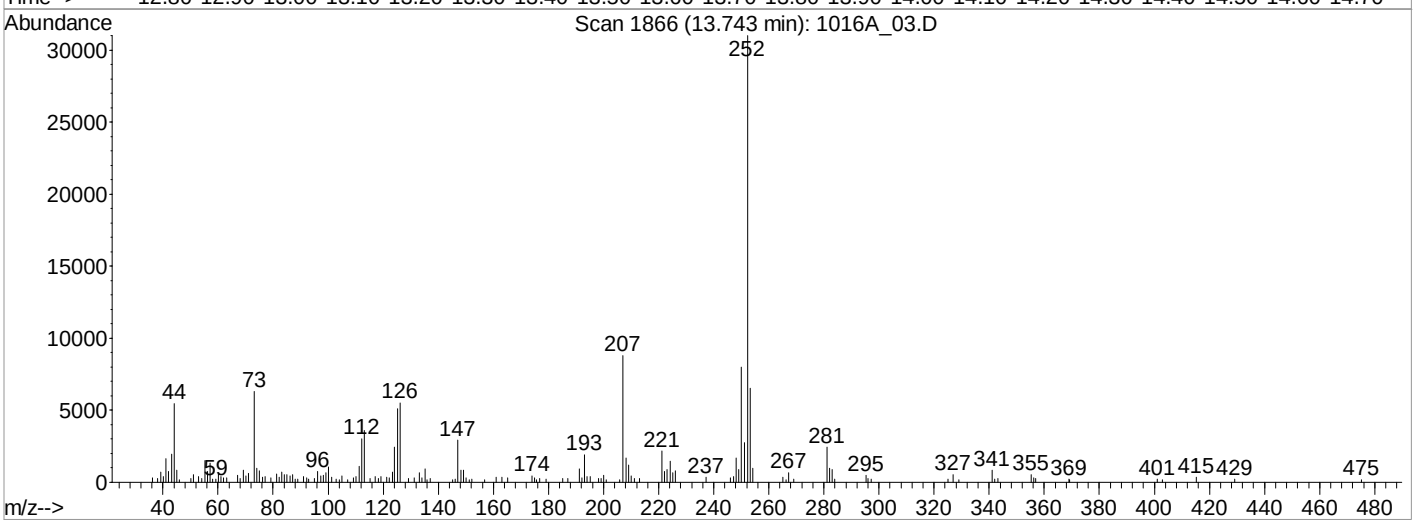


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 361.8601640 ppb

Qvalue = 92

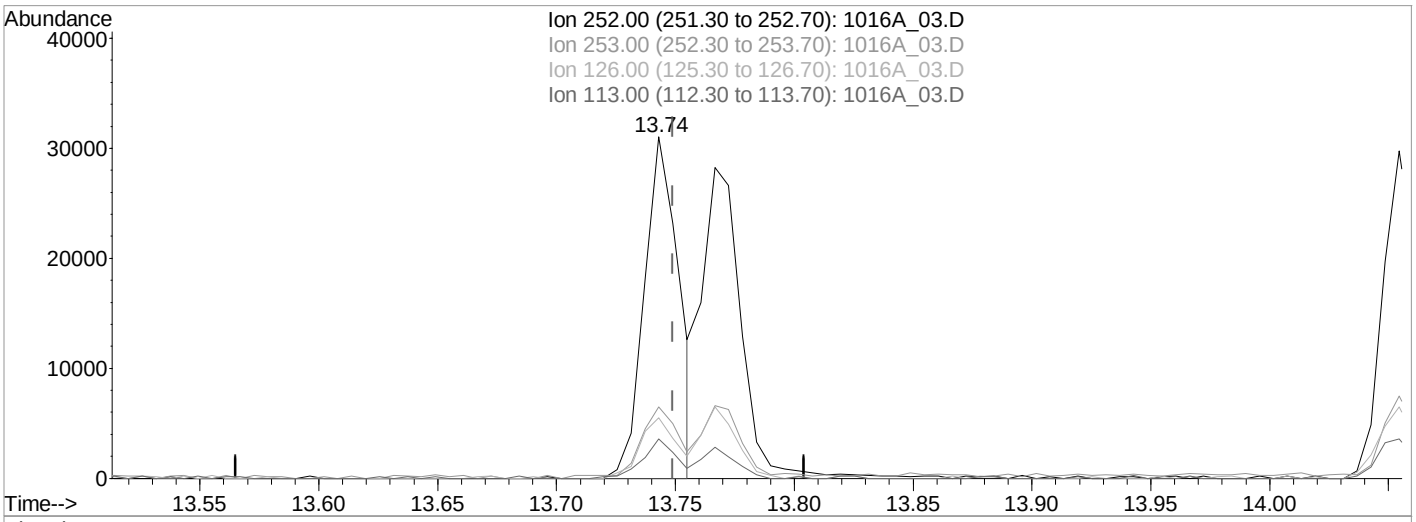
response 56695

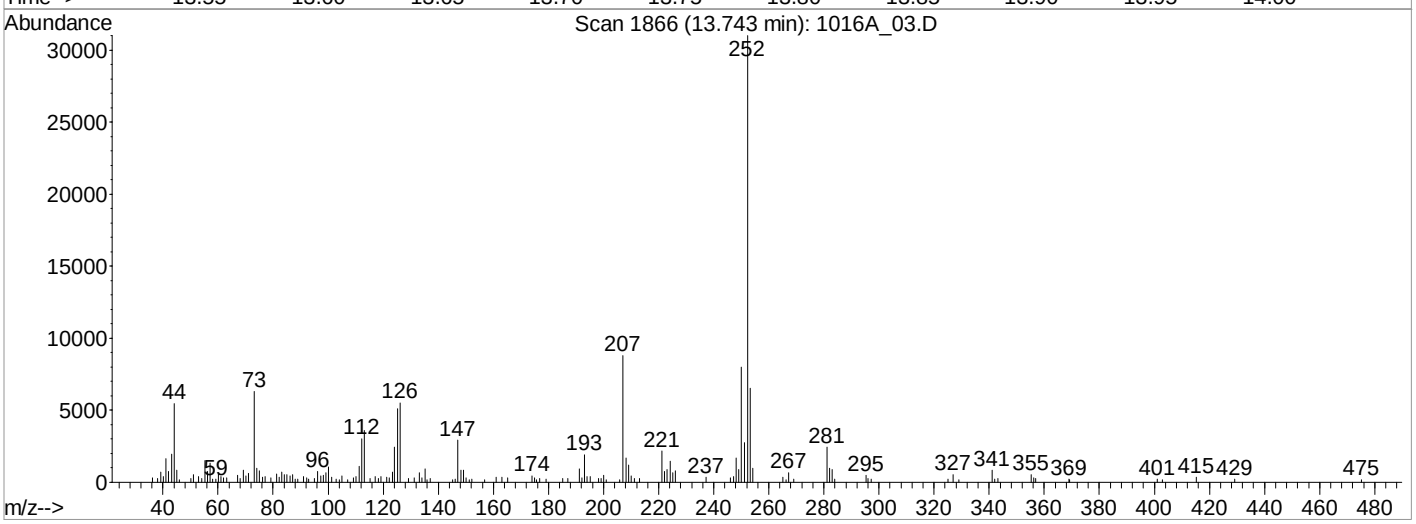
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	18.22
126.00	19.90	17.22
113.00	9.50	14.73

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 202.4234077 ppb m

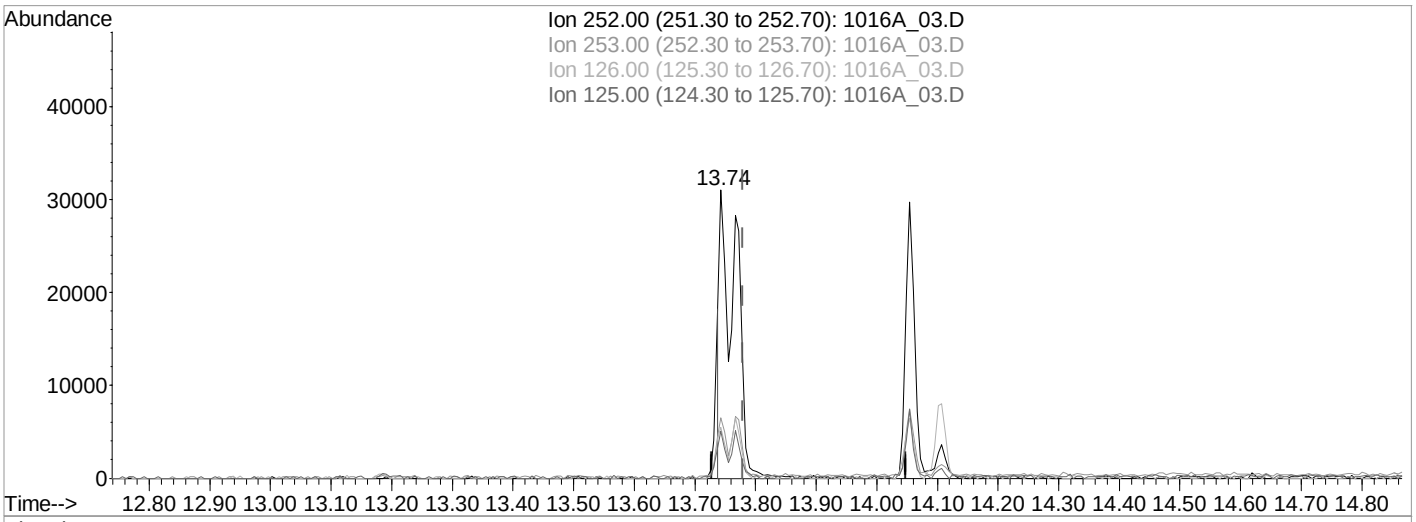
response 31715

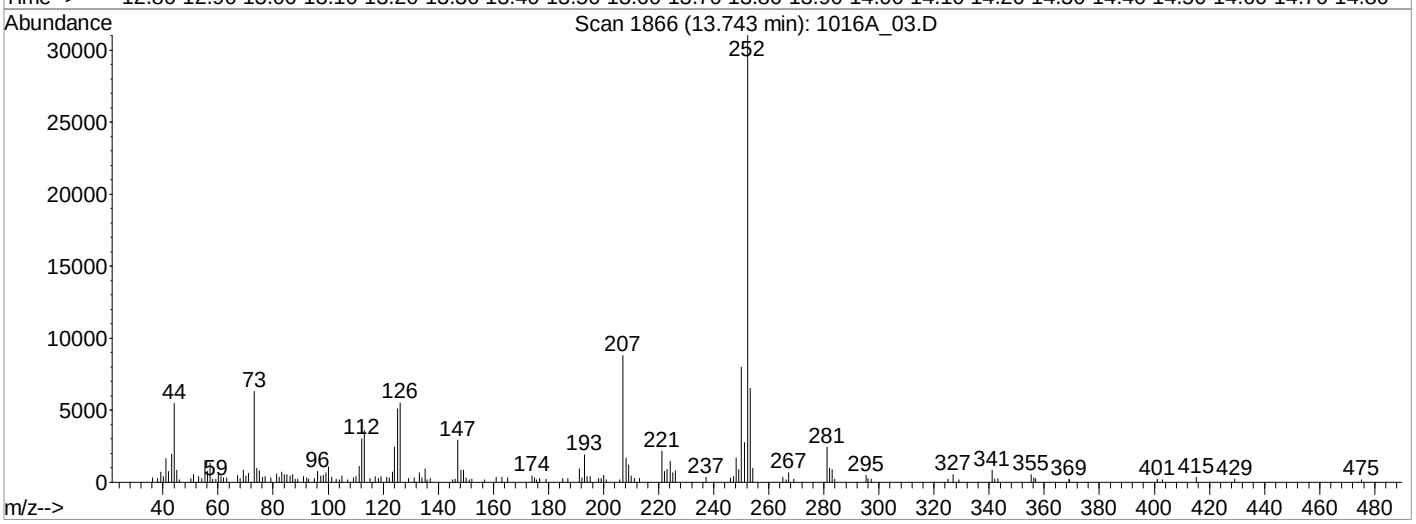
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	20.96
126.00	19.90	17.75
113.00	9.50	11.55

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(90) Benzo(k)fluoranthene (MT)

13.74min (-0.035) 363.6988106 ppb

Qvalue = 95

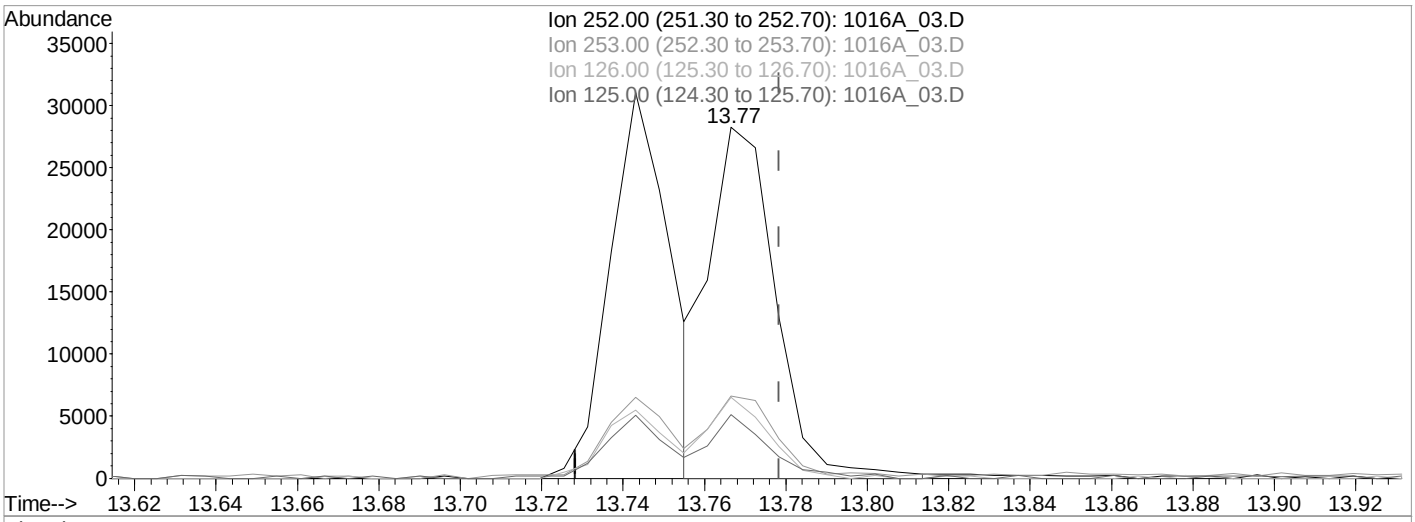
response 56137

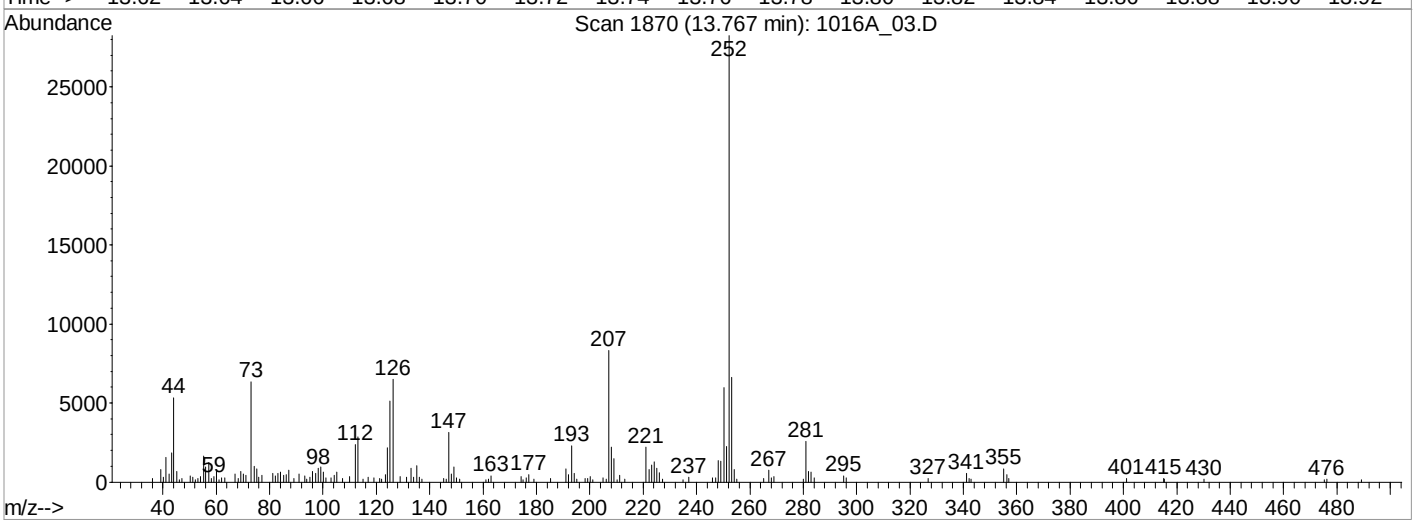
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	19.97
126.00	19.90	17.08
125.00	13.60	16.42

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 03.D Vial: 7
Acq On : 16 Oct 2014 5:01 pm Operator: 280
Sample : STD SVMS 200 PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 16 17:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:05:39 2014
Response via : Multiple Level Calibration





TIC: 1016A_03.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.012) 206.7505646 ppb m

response 31912

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.45
126.00	19.90	23.04
125.00	13.60	18.13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	191597	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	843166	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	535605	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	916520	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1038507	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1158078	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	33925	1008.3466473 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 5041.73%#		
7) Phenol-d5	4.71	99	41218	1000.9763089 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 5004.88%#		
23) Nitrobenzene-d5	5.59	82	41284	984.3542738 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 9843.54%#		
44) 2-Fluorobiphenyl	7.46	172	95133	1025.2860174 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 10252.86%#		
67) 2,4,6-Tribromophenol	9.04	330	9416	1122.0835443 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 5610.42%#		
81) p-Terphenyl-d14	11.52	244	129974	980.6140198 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 9806.14%#		

Target Compounds						Qvalue
2) Pyridine	2.98	79	53353	803.9238452 ppb		98
3) N-Nitrosodimethylamine	2.95	42	27121	738.9021503 ppb	#	89
5) Aniline	4.78	66	21352	1038.9493428 ppb		96
6) bis(2-Chloroethyl)ether	4.82	63	29832	1052.4581829 ppb		97
8) Phenol	4.72	94	43267	1006.6680761 ppb		97
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	37020	1008.0242808 ppb		98
11) n-Decane	4.91	41	26088	1168.3617991 ppb	#	95
12) 1,3-Dichlorobenzene	5.02	146	43757	1057.9464403 ppb		98
13) 1,4-Dichlorobenzene	5.09	146	44542	1045.6205919 ppb		92
14) Benzyl Alcohol	5.19	79	31759	971.6739433 ppb		97
15) 1,2-Dichlorobenzene	5.24	146	43233	1100.3847309 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	12130	948.8495175 ppb		95
17) 2-Methylphenol	5.28	108	35134	1052.8986819 ppb		98
18) Hexachloroethane	5.56	117	18826	1070.0914516 ppb		97
19) N-Nitrosodi-n-propylamine	5.44	70	29872	989.0976640 ppb		96
20) 3&4-Methyl phenol	5.43	107	40564	1066.0479296 ppb		97
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	41194	1043.4284141 ppb		96
25) Isophorone	5.85	82	72938	1007.4692227 ppb		99
26) 2-Nitrophenol	5.93	139	18093	951.8100175 ppb		94
27) 2,4-Dimethylphenol	5.96	107	38792	1014.0560292 ppb		97
28) bis(2-Chlorethoxy)methane	6.06	93	47810	1008.2868037 ppb		96
29) 2,4-Dichlorophenol	6.17	162	31616	1008.4117624 ppb		96
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	36014	997.1733073 ppb		97
32) Naphthalene	6.35	128	130368	963.4934269 ppb		98
33) 4-Chloroaniline	6.39	65	15347	925.4316582 ppb		97
34) Hexachloro-1,3-butadiene	6.47	225	20197	984.9706117 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	34728	922.7404273 ppb		94
37) 2-Methylnaphthalene	7.07	142	88656	1018.4948230 ppb		99
38) 1-Methylnaphthalene	7.18	142	82384	1019.8254433 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

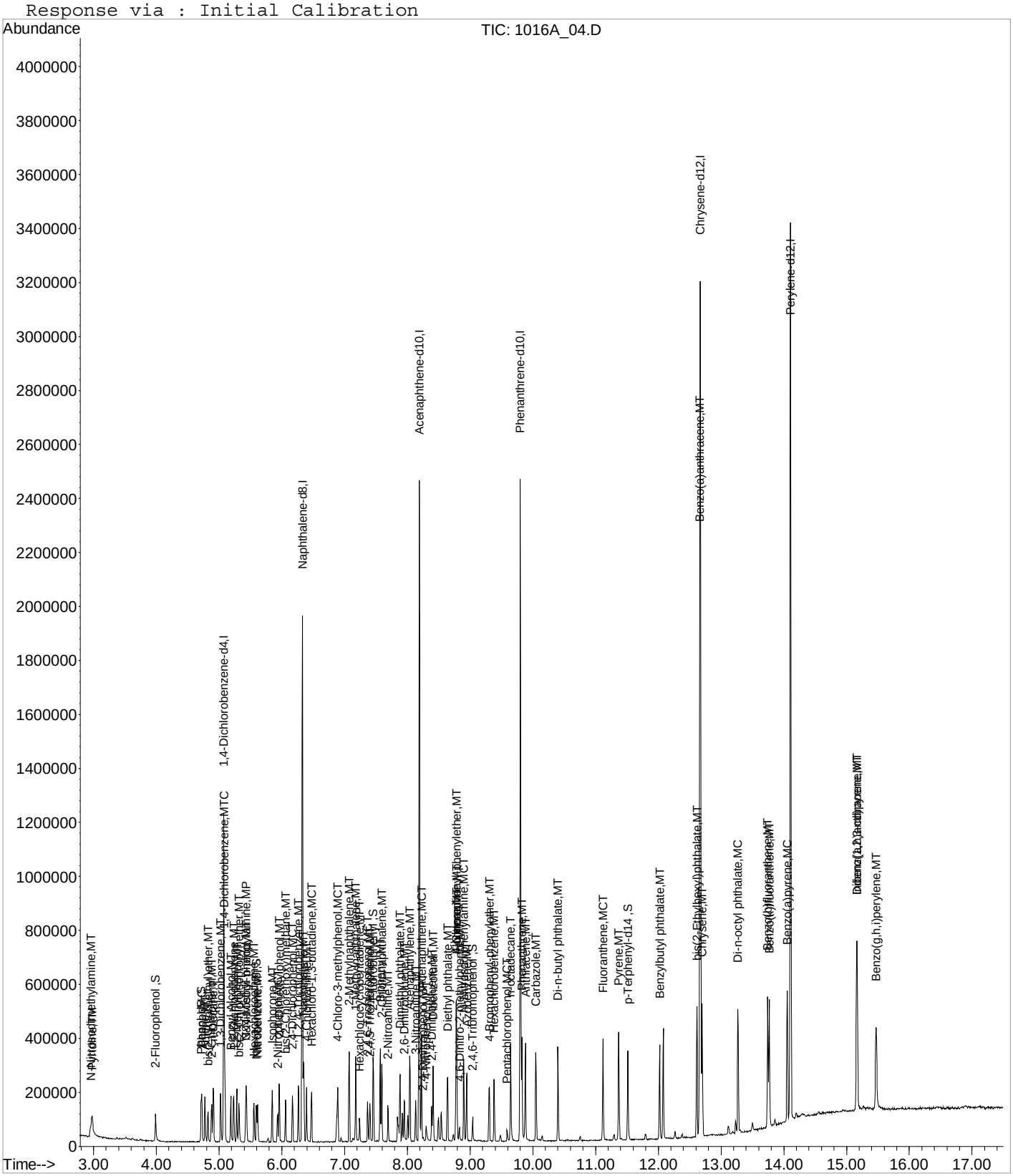
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	11678	995.8863903 ppb		92
42)	2,4,6-Trichlorophenol	7.37	196	19059	975.5244114 ppb		92
43)	2,4,5-Trichlorophenol	7.40	196	22374	1018.5826139 ppb		93
45)	Biphenyl	7.57	154	103683	1020.3112143 ppb		100
46)	2-Chloronaphthalene	7.59	162	82192	1019.3486442 ppb		98
47)	2-Nitroaniline	7.69	138	24472	929.8419542 ppb		91
48)	Acenaphthylene	8.04	152	137265	1030.4487112 ppb		99
49)	Dimethyl phthalate	7.89	163	94166	1028.7911742 ppb		99
50)	2,6-Dinitrotoluene	7.96	165	19596	1047.1284839 ppb		97
51)	3-Nitroaniline	8.13	138	21974	1068.1949250 ppb		98
52)	Acenaphthene	8.23	153	87387	1036.6294396 ppb		99
53)	2,4-Dinitrophenol	8.25	184	1628	271.6515135 ppb	#	77
54)	Dibenzofuran	8.41	168	121763	1027.6765036 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	23556	978.8525357 ppb		97
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	11514	889.8382836 ppb		91
58)	Fluorene	8.78	166	100229	1027.6140358 ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	44705	1060.0914321 ppb		94
60)	Diethyl phthalate	8.64	149	97694	980.9535603 ppb		99
61)	4-Nitroaniline	8.79	138	21792	986.6501214 ppb		96
62)	Azobenzene	8.95	77	103708	978.5855535 ppb		97
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	6516	897.5930265 ppb		94
66)	N-Nitrosodiphenylamine	8.90	169	81994	1048.4831520 ppb		97
68)	4-Bromophenyl-phenylether	9.31	248	24994	1022.7727709 ppb		86
69)	Hexachlorobenzene	9.38	284	28558	1025.2397971 ppb		99
70)	n-octadecane	9.65	55	17658	908.8397360 ppb	#	89
71)	Pentachlorophenol	9.59	266	5172	717.1354714 ppb		94
72)	Phenanthrene	9.82	178	139540	1012.9398313 ppb		99
73)	Anthracene	9.88	178	145054	1039.3070621 ppb		99
74)	Carbazole	10.05	167	138037	1007.8563138 ppb		99
75)	Di-n-butyl phthalate	10.40	149	183947	979.2774427 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	158973	978.5539379 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	167387	975.9671648 ppb		99
82)	Benzylbutyl phthalate	12.02	149	90701	974.8418299 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	12.66	228	176818	980.0379515 ppb		97
85)	Chrysene	12.70	228	161453	1004.0027576 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	139341	907.6216548 ppb		99
87)	Di-n-octyl phthalate	13.27	149	237415	937.4515606 ppb		100
89)	Benzo(b)fluoranthene	13.74	252	183627	1022.7649994 ppb		99
90)	Benzo(k)fluoranthene	13.77	252	178614	999.0944572 ppb		98
91)	Benzo(a)pyrene	14.05	252	177409	1017.0155354 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.16	276	192387	985.1743908 ppb		94
93)	Dibenz(a,h)anthracene	15.16	278	158605	992.7935831 ppb		95
94)	Benzo(g,h,i)perylene	15.47	276	161856	994.3370247 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 04.D Vial: 8
Acq On : 16 Oct 2014 5:23 pm Operator: 280
Sample : STD SVMS 1K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:42 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	177960	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	756641	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	483307	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	834848	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	930735	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1073123	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	61442	1966.1726645 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 9830.86%#		
7) Phenol-d5	4.71	99	75362	1970.4054811 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 9852.03%#		
23) Nitrobenzene-d5	5.59	82	72533	1927.2076783 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19272.08%#		
44) 2-Fluorobiphenyl	7.46	172	165084	1971.6978500 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 19716.98%#		
67) 2,4,6-Tribromophenol	9.04	330	16903	2211.3478851 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 11056.74%#		
81) p-Terphenyl-d14	11.51	244	231035	1944.9246156 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 19449.25%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	98488	1597.7384689 ppb		98
3) N-Nitrosodimethylamine	2.95	42	52807	1548.9558348 ppb		93
5) Aniline	4.78	66	37784	1979.3839849 ppb		94
6) bis(2-Chloroethyl)ether	4.82	63	51781	1966.7955622 ppb		95
8) Phenol	4.72	94	77848	1950.0389222 ppb		95
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.88	128	67967	1992.5030162 ppb		98
11) n-Decane	4.91	41	40495	1952.5594864 ppb	#	97
12) 1,3-Dichlorobenzene	5.02	146	75400	1962.6994292 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	77582	1960.7927506 ppb		97
14) Benzyl Alcohol	5.19	79	55469	1827.1339255 ppb		97
15) 1,2-Dichlorobenzene	5.24	146	75377	2065.5434672 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	22785	1918.8979581 ppb		97
17) 2-Methylphenol	5.28	108	61820	1994.5930129 ppb		99
18) Hexachloroethane	5.56	117	33181	2030.5730529 ppb		98
19) N-Nitrosodi-n-propylamine	5.44	70	50145	1787.5937140 ppb		99
20) 3&4-Methyl phenol	5.43	107	70618	1998.1021089 ppb		99
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	73296	2068.8651491 ppb		95
25) Isophorone	5.85	82	128693	1980.8704670 ppb		100
26) 2-Nitrophenol	5.93	139	34107	1999.4310138 ppb		92
27) 2,4-Dimethylphenol	5.96	107	69805	2033.4314059 ppb		99
28) bis(2-Chlorethoxy)methane	6.06	93	83930	1972.4489765 ppb		97
29) 2,4-Dichlorophenol	6.17	162	56329	2002.1021694 ppb		92
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.26	180	64638	1994.3914773 ppb		98
32) Naphthalene	6.35	128	223205	1838.2513227 ppb		100
33) 4-Chloroaniline	6.39	65	27150	1824.3741418 ppb		100
34) Hexachloro-1,3-butadiene	6.47	225	36239	1969.4085873 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.89	107	65183	1930.0001168 ppb		97
37) 2-Methylnaphthalene	7.07	142	157887	2021.2511538 ppb		98
38) 1-Methylnaphthalene	7.18	142	143643	1981.4843666 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

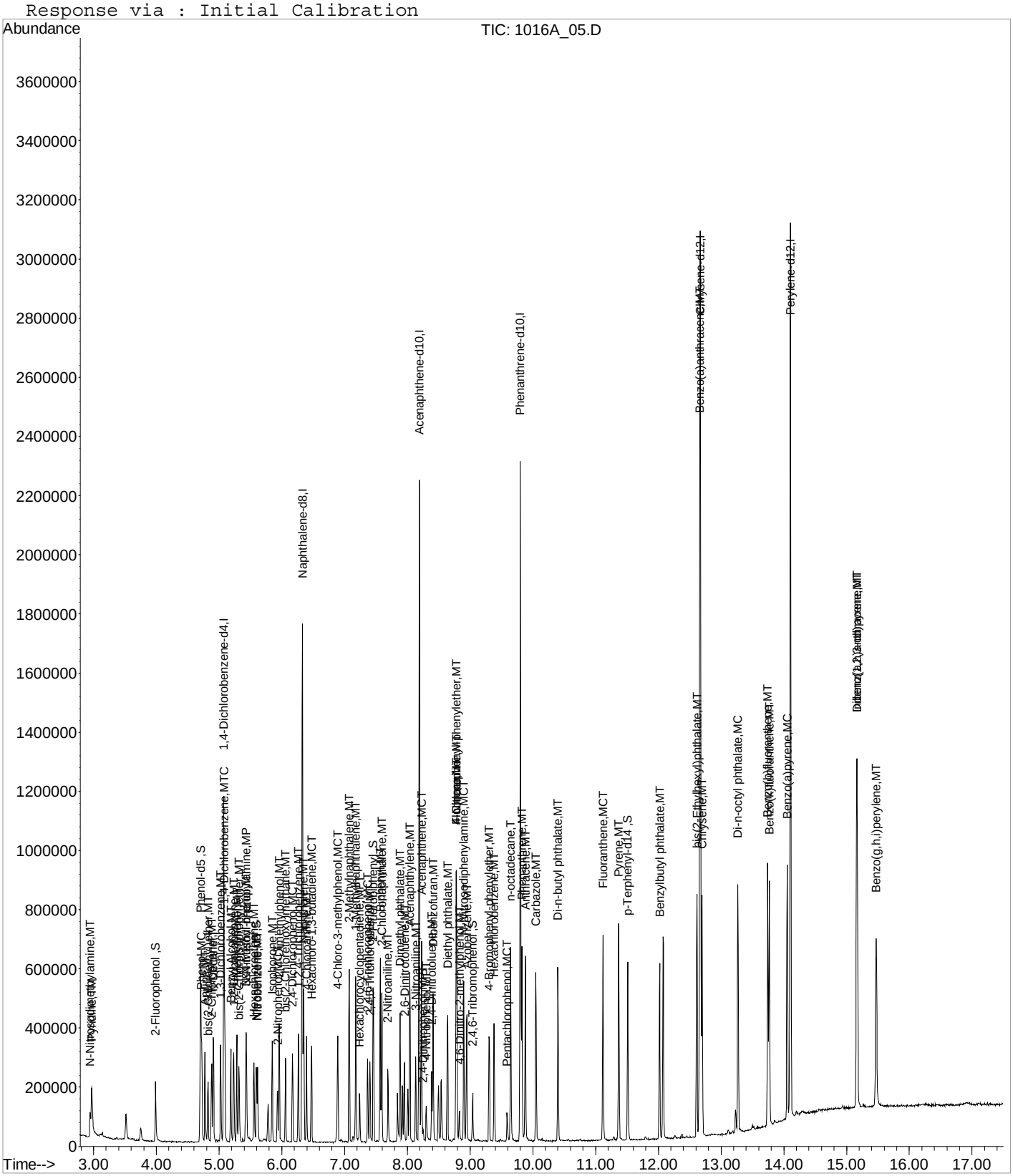
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.24	237	25022	2364.7480909 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	34267	1943.7287276 ppb		93
43)	2,4,5-Trichlorophenol	7.40	196	41893	2113.5650765 ppb		95
45)	Biphenyl	7.57	154	182568	1991.0001859 ppb		100
46)	2-Chloronaphthalene	7.59	162	147224	2023.4540736 ppb		99
47)	2-Nitroaniline	7.69	138	44773	1885.2867097 ppb		96
48)	Acenaphthylene	8.04	152	241984	2013.1435994 ppb		99
49)	Dimethyl phthalate	7.88	163	163424	1978.6568394 ppb		99
50)	2,6-Dinitrotoluene	7.96	165	36064	2135.6396448 ppb		99
51)	3-Nitroaniline	8.13	138	39953	2152.3471655 ppb		98
52)	Acenaphthene	8.23	153	151405	1990.3912918 ppb		98
53)	2,4-Dinitrophenol	8.25	184	4823	891.8596744 ppb	#	82
54)	Dibenzofuran	8.41	168	214018	2001.7642368 ppb		99
55)	2,4-Dinitrotoluene	8.39	165	43296	1993.8158160 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	22202	1901.5094891 ppb		95
58)	Fluorene	8.78	166	176566	2006.1585168 ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	77335	2032.2861262 ppb		93
60)	Diethyl phthalate	8.64	149	170473	1896.9579206 ppb		99
61)	4-Nitroaniline	8.79	138	41302	2072.3289931 ppb		96
62)	Azobenzene	8.95	77	178867	1870.4163983 ppb		98
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	13679	2068.6512460 ppb		90
66)	N-Nitrosodiphenylamine	8.90	169	142243	1996.8471430 ppb		96
68)	4-Bromophenyl-phenylether	9.31	248	43126	1937.3902321 ppb		91
69)	Hexachlorobenzene	9.38	284	49727	1959.8573472 ppb		99
70)	n-octadecane	9.65	55	30769	1738.5761256 ppb		99
71)	Pentachlorophenol	9.59	266	12075	1838.0798026 ppb		86
72)	Phenanthrene	9.82	178	245280	1954.7067074 ppb		99
73)	Anthracene	9.88	178	251017	1974.4759088 ppb		99
74)	Carbazole	10.05	167	244893	1962.9715966 ppb		100
75)	Di-n-butyl phthalate	10.40	149	325038	1899.6855265 ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.12	202	284144	1920.1467619 ppb		99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	298945	1944.8591630 ppb		98
82)	Benzylbutyl phthalate	12.02	149	152955	1834.2948293 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	303960	1879.8198805 ppb		99
85)	Chrysene	12.70	228	282965	1963.3823829 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	238728	1735.0526912 ppb		98
87)	Di-n-octyl phthalate	13.27	149	426651	1879.7358847 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	330835	1988.5617214 ppb		98
90)	Benzo(k)fluoranthene	13.77	252	323808	1954.6406917 ppb		98
91)	Benzo(a)pyrene	14.05	252	316798	1959.8493019 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.16	276	353985	1956.1878590 ppb		95
93)	Dibenz(a,h)anthracene	15.16	278	297039	2006.5217403 ppb		95
94)	Benzo(g,h,i)perylene	15.47	276	295631	1959.9414076 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 05.D Vial: 9
Acq On : 16 Oct 2014 5:44 pm Operator: 280
Sample : STD SVMS 2K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:43 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:43:31 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	184034	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	791422	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	505220	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	860580	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1037232	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1200333	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	160866	4977.8855167 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 24889.43%#		
7) Phenol-d5	4.72	99	196693	4972.9767312 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 24864.88%#		
23) Nitrobenzene-d5	5.59	82	189377	4810.6289584 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 48106.29%#		
44) 2-Fluorobiphenyl	7.46	172	432228	4938.4518947 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 49384.52%#		
67) 2,4,6-Tribromophenol	9.04	330	48209	6118.3957440 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 30591.98%#		
81) p-Terphenyl-d14	11.52	244	615409	4648.7798280 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 46487.80%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	256157	4018.3978549 ppb	99
3) N-Nitrosodimethylamine	2.94	42	126910	3599.7116603 ppb	95
5) Aniline	4.78	66	98072	4968.1132017 ppb	96
6) bis(2-Chloroethyl)ether	4.82	63	136796	5024.4267174 ppb	99
8) Phenol	4.73	94	204758	4959.7642122 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	179656	5092.9210507 ppb	98
11) n-Decane	4.91	41	107036	4990.6495349 ppb #	99
12) 1,3-Dichlorobenzene	5.02	146	193803	4878.2862139 ppb	97
13) 1,4-Dichlorobenzene	5.09	146	199983	4887.5153221 ppb	97
14) Benzyl Alcohol	5.19	79	146107	4653.8823483 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	193782	5134.9149580 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.32	121	57555	4687.1649506 ppb	98
17) 2-Methylphenol	5.28	108	160483	5007.0123005 ppb	99
18) Hexachloroethane	5.56	117	86565	5122.6633120 ppb	98
19) N-Nitrosodi-n-propylamine	5.44	70	133401	4598.5890379 ppb	97
20) 3&4-Methyl phenol	5.43	107	186081	5091.2992863 ppb	97
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	194194	5240.4607044 ppb	99
25) Isophorone	5.85	82	329256	4845.2545936 ppb	98
26) 2-Nitrophenol	5.93	139	93349	5231.8384473 ppb	94
27) 2,4-Dimethylphenol	5.96	107	174050	4847.2874542 ppb	98
28) bis(2-Chlorethoxy)methane	6.06	93	218907	4918.4691962 ppb	96
29) 2,4-Dichlorophenol	6.17	162	150124	5101.3611965 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.26	180	170165	5019.6621692 ppb	99
32) Naphthalene	6.35	128	573726	4517.3865220 ppb	99
33) 4-Chloroaniline	6.39	65	71368	4584.8945594 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	93119	4838.1538859 ppb	97
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	165927	4697.0134492 ppb	98
37) 2-Methylnaphthalene	7.07	142	403905	4943.5039944 ppb	99
38) 1-Methylnaphthalene	7.18	142	377709	4981.3294848 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

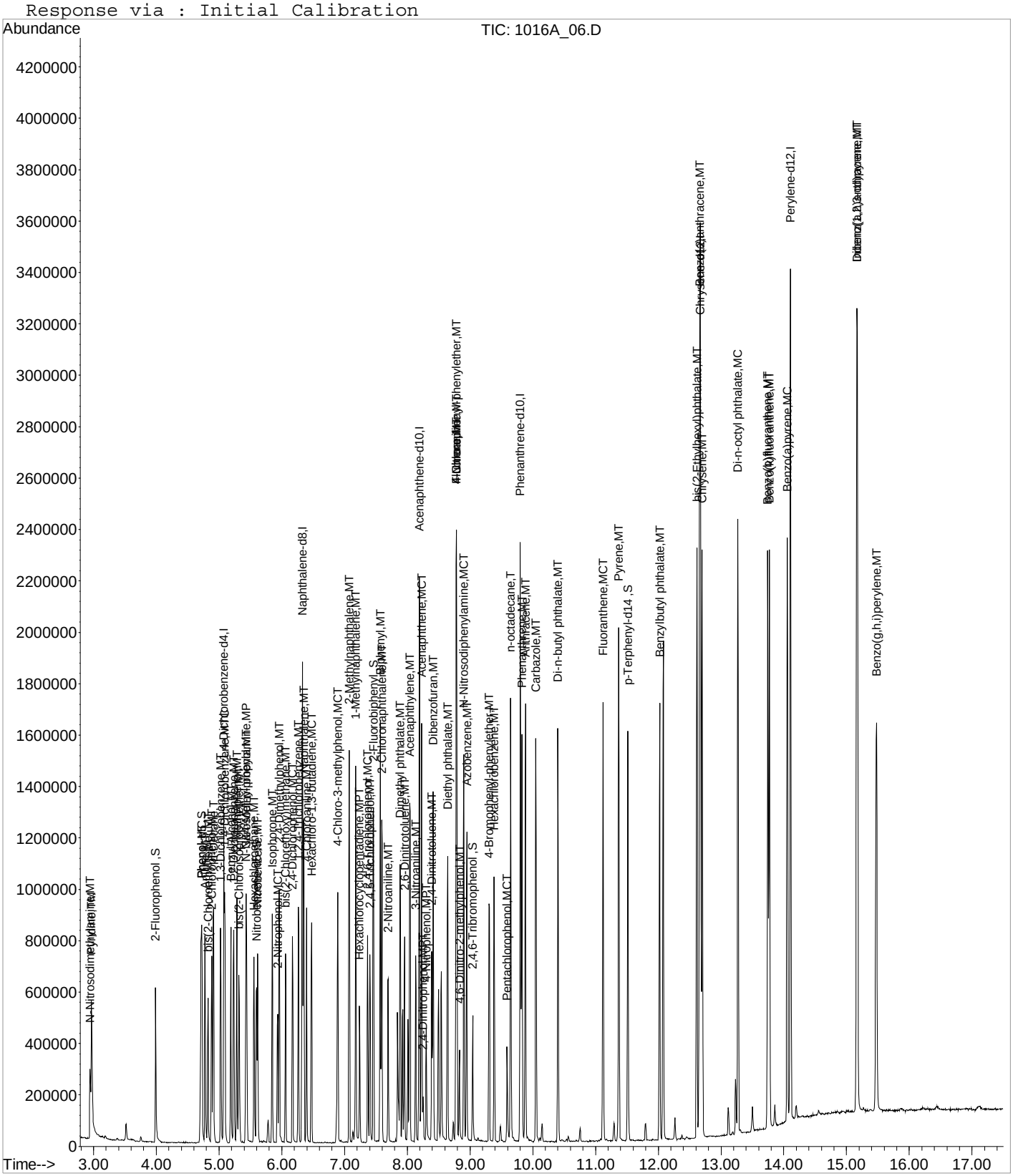
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	78774	7121.7760577 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	97155	5271.9013596 ppb		97
43)	2,4,5-Trichlorophenol	7.40	196	110897	5352.2514813 ppb		96
45)	Biphenyl	7.57	154	476779	4974.0060801 ppb		100
46)	2-Chloronaphthalene	7.59	162	381008	5009.4654305 ppb		99
47)	2-Nitroaniline	7.70	138	121353	4888.2597904 ppb		99
48)	Acenaphthylene	8.04	152	627612	4994.8435861 ppb		99
49)	Dimethyl phthalate	7.89	163	422250	4890.6530387 ppb		98
50)	2,6-Dinitrotoluene	7.96	165	99088	5613.2927602 ppb		94
51)	3-Nitroaniline	8.13	138	109704	5653.6372692 ppb		94
52)	Acenaphthene	8.23	153	396282	4983.6225510 ppb		99
53)	2,4-Dinitrophenol	8.25	184	23355	4131.4422656 ppb	#	75
54)	Dibenzofuran	8.41	168	553258	4950.3154897 ppb		100
55)	2,4-Dinitrotoluene	8.39	165	122406	5392.4052003 ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.30	139	71939	5894.0436259 ppb		95
58)	Fluorene	8.78	166	456382	4960.5430779 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	200180	5032.3634362 ppb		94
60)	Diethyl phthalate	8.64	149	441736	4702.2686574 ppb		100
61)	4-Nitroaniline	8.79	138	112807	5414.5980339 ppb		99
62)	Azobenzene	8.95	77	457010	4571.6853529 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.83	198	45499	6674.9949809 ppb		93
66)	N-Nitrosodiphenylamine	8.90	169	371521	5059.5681180 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	114881	5006.5931036 ppb		91
69)	Hexachlorobenzene	9.38	284	126247	4826.9125552 ppb		99
70)	n-octadecane	9.65	55	79903	4379.8534319 ppb		98
71)	Pentachlorophenol	9.59	266	44893	6629.3662676 ppb		96
72)	Phenanthrene	9.83	178	638021	4932.5398366 ppb		99
73)	Anthracene	9.88	178	653756	4988.6215023 ppb		99
74)	Carbazole	10.05	167	632769	4920.3840372 ppb		100
75)	Di-n-butyl phthalate	10.40	149	871047	4938.6167888 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.12	202	757444	4965.4958857 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.37	202	797111	4653.3509160 ppb		99
82)	Benzylbutyl phthalate	12.02	149	425638	4580.3218510 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	817161	4534.7940958 ppb		100
85)	Chrysene	12.70	228	749972	4669.4675025 ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.61	149	643221	4194.8811648 ppb		100
87)	Di-n-octyl phthalate	13.27	149	1176768	4652.2715186 ppb		99
89)	Benzo(b)fluoranthene	13.74	252	878404m	4720.3009484 ppb		
90)	Benzo(k)fluoranthene	13.77	252	888331m	4794.0431247 ppb		
91)	Benzo(a)pyrene	14.05	252	869383	4808.3840533 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.17	276	991370	4897.8922800 ppb		93
93)	Dibenz(a,h)anthracene	15.16	278	835496	5045.7128060 ppb		98
94)	Benzo(g,h,i)perylene	15.48	276	821236	4867.5324106 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Initial Calibration

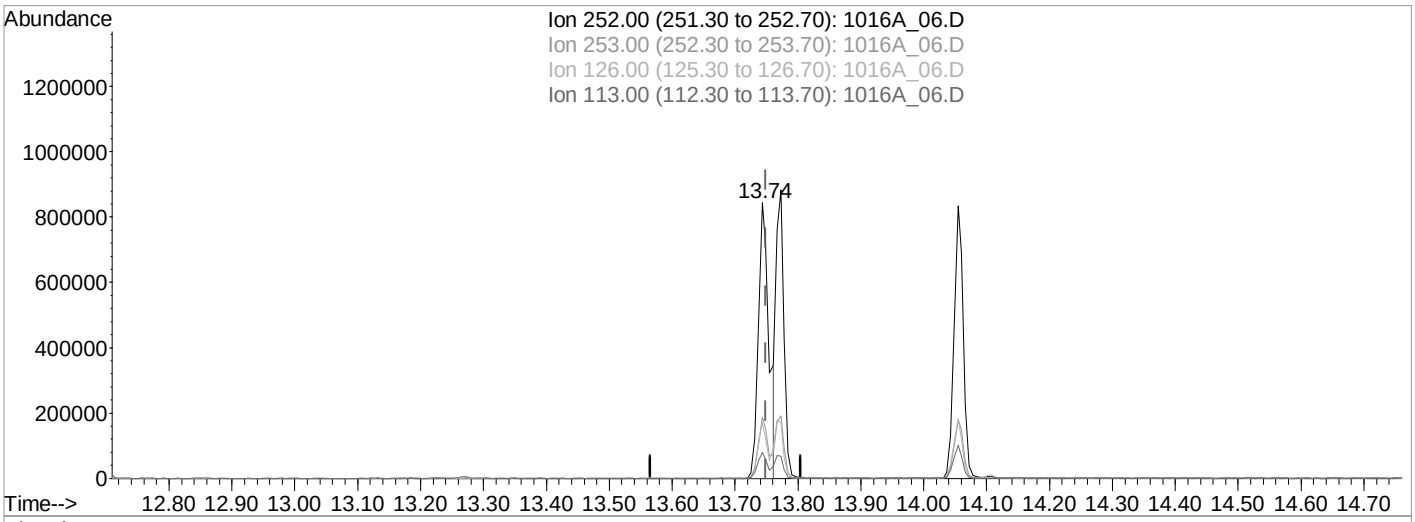


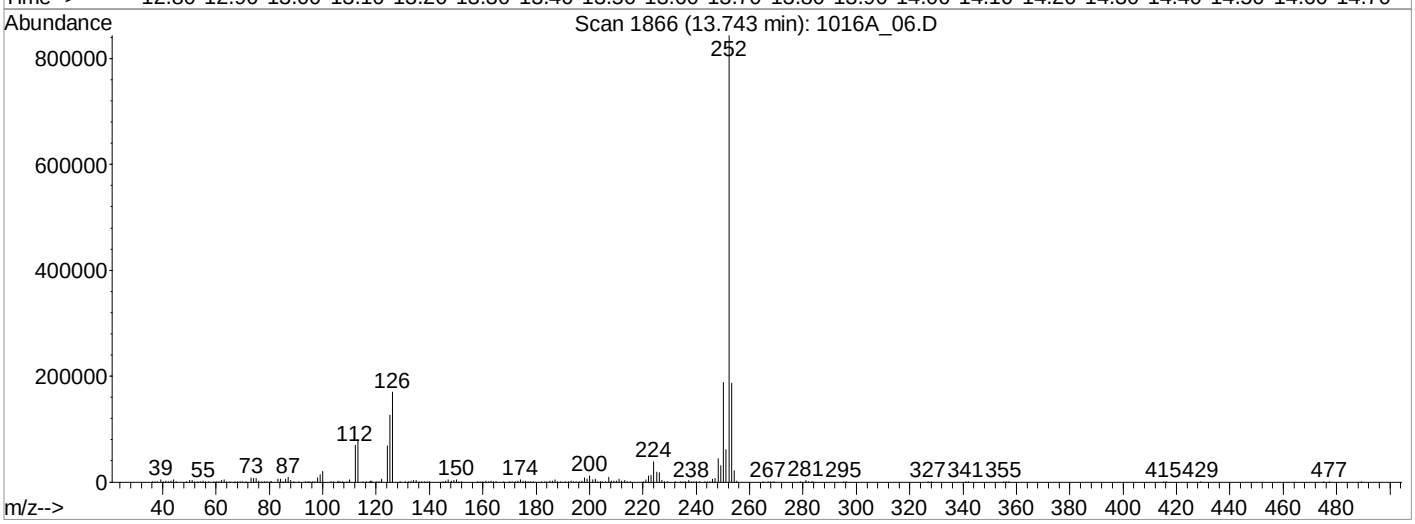
1016A_06.D S804J16N.M Fri Oct 17 08:46:39 2014 1169 of 1345 Page 3

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 5378.5714316 ppb

Qvalue = 98

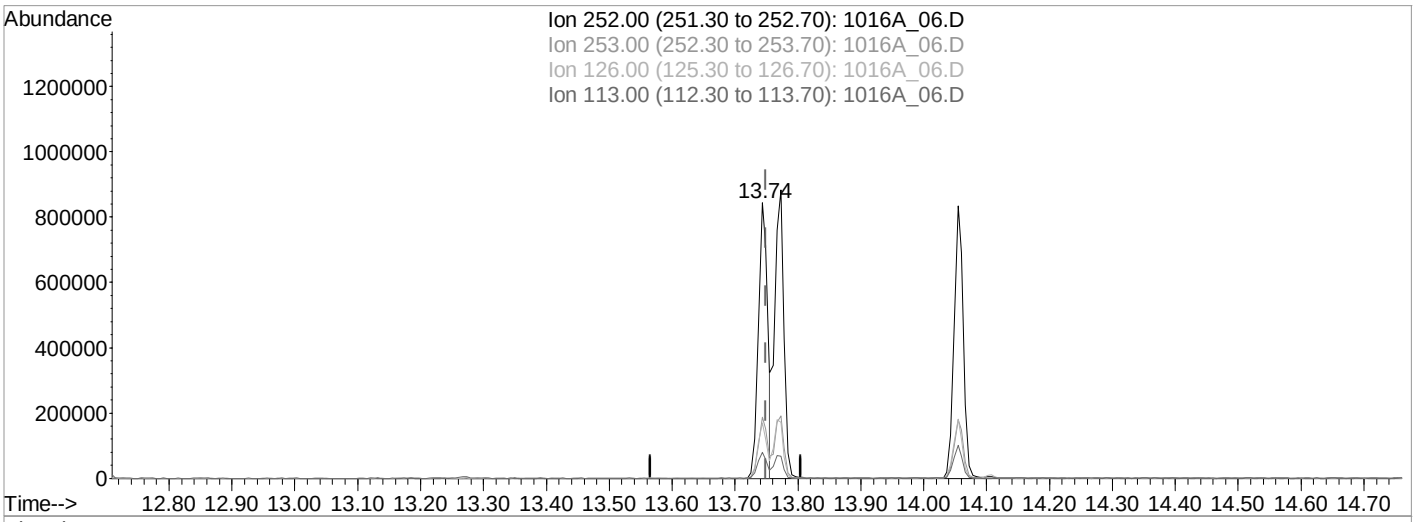
response 1000902

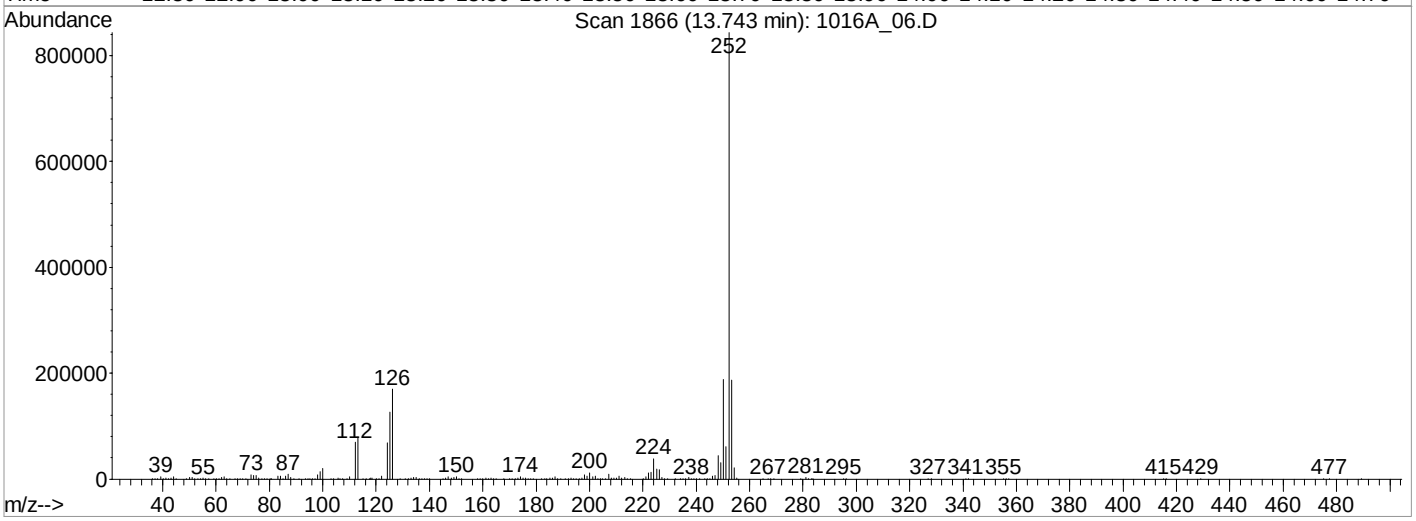
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.39
126.00	19.90	18.65
113.00	9.50	9.09

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(89) Benzo(b)fluoranthene (MT)

13.74min (-0.006) 4720.3009484 ppb m

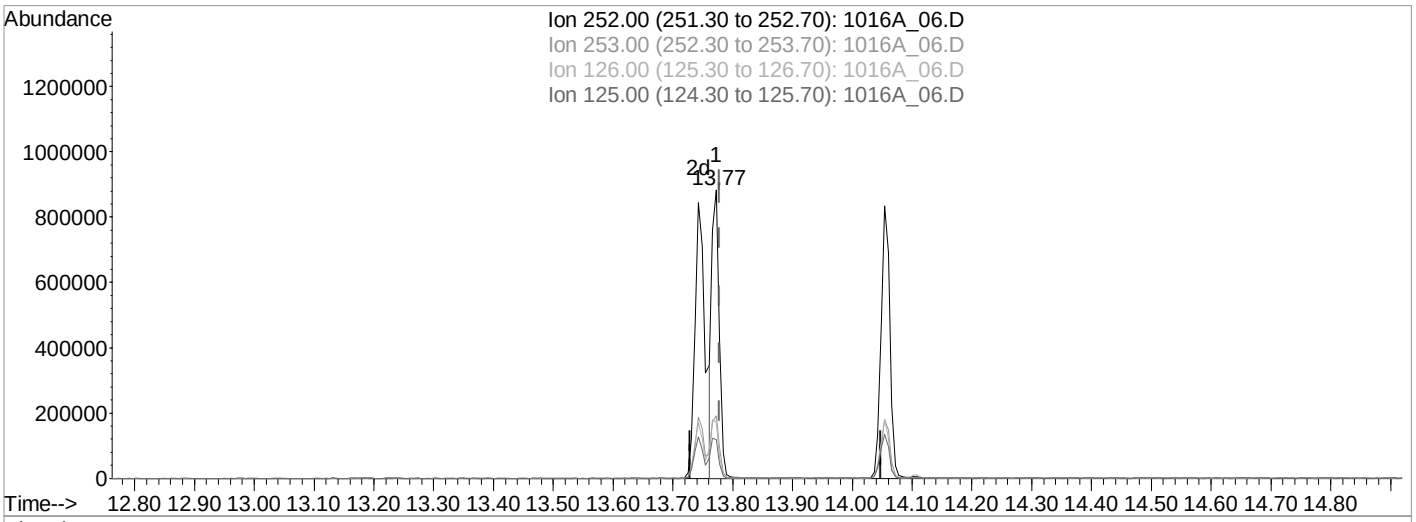
response 878404

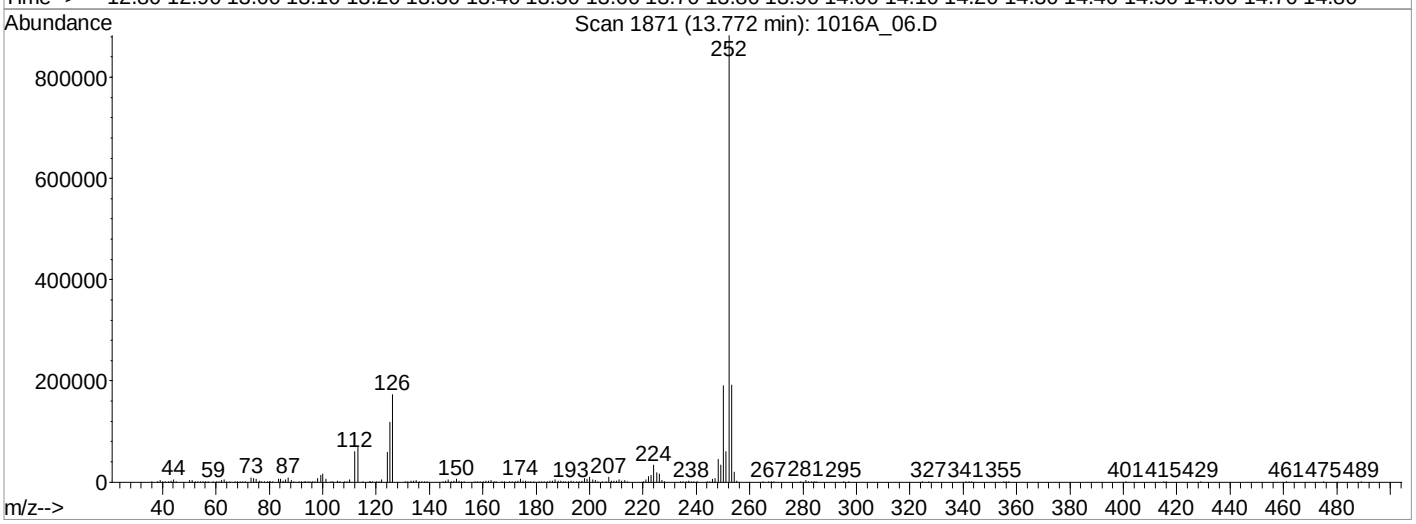
Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.21
126.00	19.90	20.19
113.00	9.50	9.36

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.006) 4146.8078261 ppb

Qvalue = 99

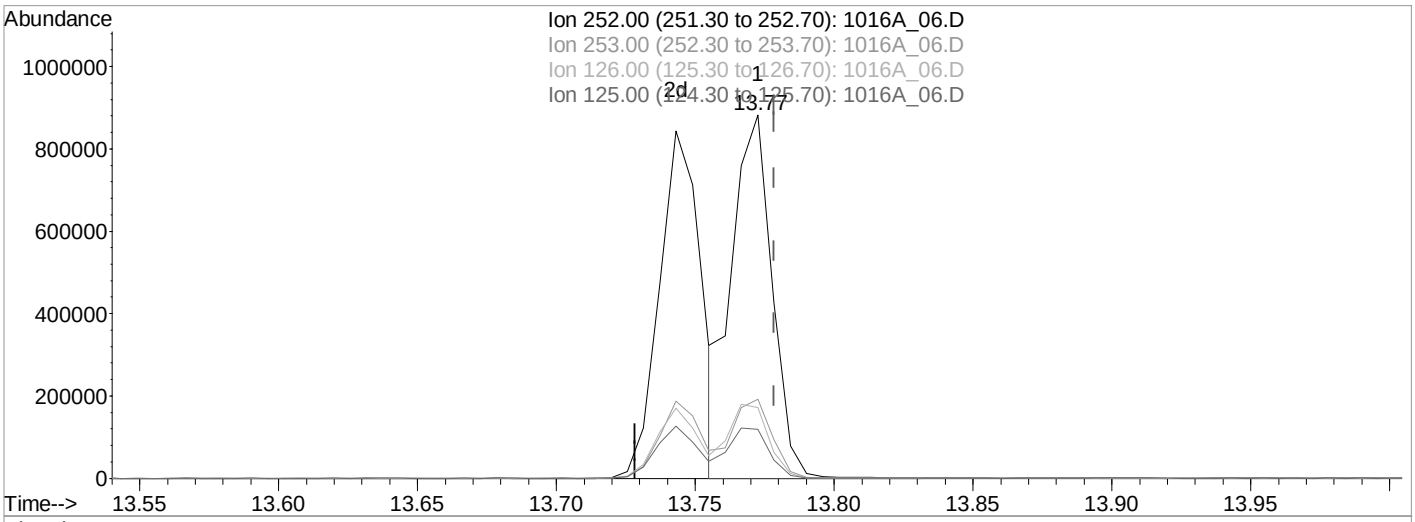
response 768399

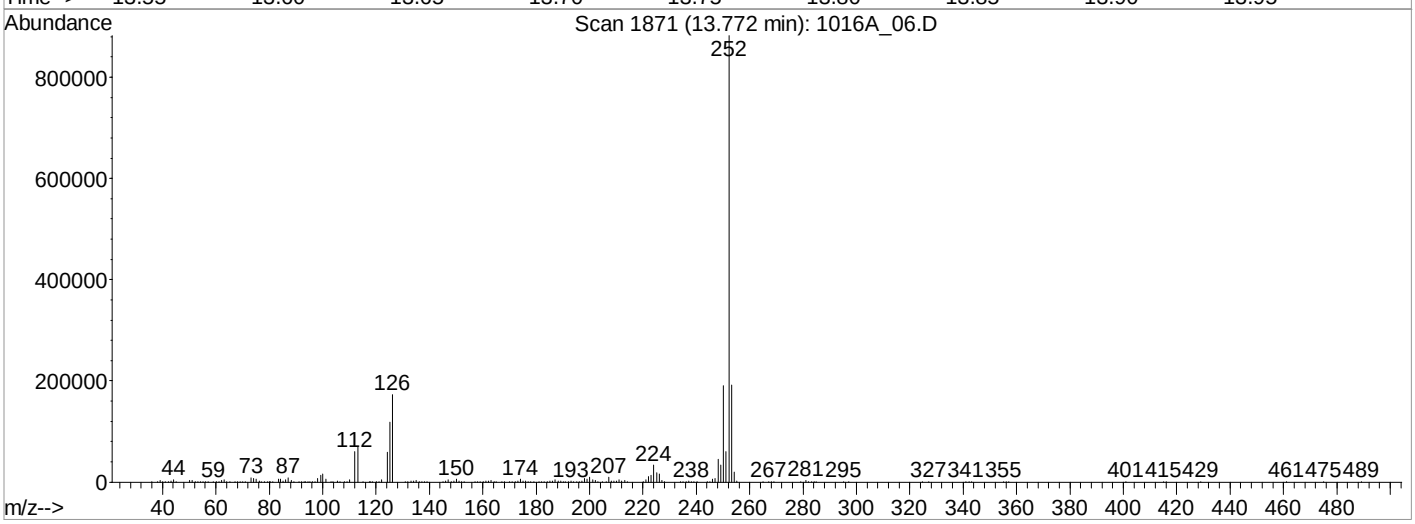
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.64
126.00	19.90	19.53
125.00	13.60	13.38

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 06.D Vial: 10
Acq On : 16 Oct 2014 6:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:46 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:45:01 2014
Response via : Multiple Level Calibration





TIC: 1016A_06.D

(90) Benzo(k)fluoranthene (MT)

13.77min (-0.006) 4794.0431247 ppb m

response 888331

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.67
126.00	19.90	19.53
125.00	13.60	13.40

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	199327	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	898349	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	600503	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	1095924	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1318244	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1457565	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	703242	20091.7320176 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 100458.66%#		
7) Phenol-d5	4.72	99	862228	20127.1174145 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 100635.59%#		
23) Nitrobenzene-d5	5.60	82	841640	18834.9306927 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 188349.31%#		
44) 2-Fluorobiphenyl	7.46	172	1908179	18342.6633552 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 183426.63%#		
67) 2,4,6-Tribromophenol	9.05	330	245295	24446.0642004 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 122230.32%#		
81) p-Terphenyl-d14	11.52	244	3054174	18153.0253423 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 181530.25%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	1124833	16291.7106927 ppb	98
3) N-Nitrosodimethylamine	2.95	42	561474	14703.9310083 ppb	99
5) Aniline	4.78	66	420603	19672.1013052 ppb	98
6) bis(2-Chloroethyl)ether	4.82	63	594050	20145.0362523 ppb	96
8) Phenol	4.74	94	883928	19768.2842927 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.88	128	772922	20229.8574332 ppb	98
11) n-Decane	4.91	41	440655	18969.5854244 ppb	99
12) 1,3-Dichlorobenzene	5.03	146	845735	19654.9987642 ppb	98
13) 1,4-Dichlorobenzene	5.09	146	858880	19380.2545911 ppb	99
14) Benzyl Alcohol	5.19	79	639888	18818.2952243 ppb	100
15) 1,2-Dichlorobenzene	5.24	146	825780	20203.0117793 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.32	121	241852	18184.8112496 ppb	100
17) 2-Methylphenol	5.29	108	698964	20134.2922158 ppb	98
18) Hexachloroethane	5.56	117	374963	20486.7859497 ppb	96
19) N-Nitrosodi-n-propylamine	5.45	70	568094	18080.8004160 ppb	96
20) 3&4-Methyl phenol	5.43	107	804554	20324.2126221 ppb	99
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	837322	19906.2380553 ppb	96
25) Isophorone	5.85	82	1450292	18801.8847149 ppb	98
26) 2-Nitrophenol	5.93	139	438683	21660.0018732 ppb	99
27) 2,4-Dimethylphenol	5.96	107	807084	19801.8841384 ppb	99
28) bis(2-Chlorethoxy)methane	6.06	93	963253	19066.6198090 ppb	99
29) 2,4-Dichlorophenol	6.18	162	670037	20058.4681069 ppb	96
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	730637	18987.5505358 ppb	99
32) Naphthalene	6.35	128	2480720	17207.7266343 ppb	100
33) 4-Chloroaniline	6.40	65	318625	18033.0299730 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	405837	18576.1642816 ppb	99
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.89	107	761476	18989.9574862 ppb	100
37) 2-Methylnaphthalene	7.07	142	1777619	19167.1425809 ppb	99
38) 1-Methylnaphthalene	7.18	142	1656766	19249.1757939 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

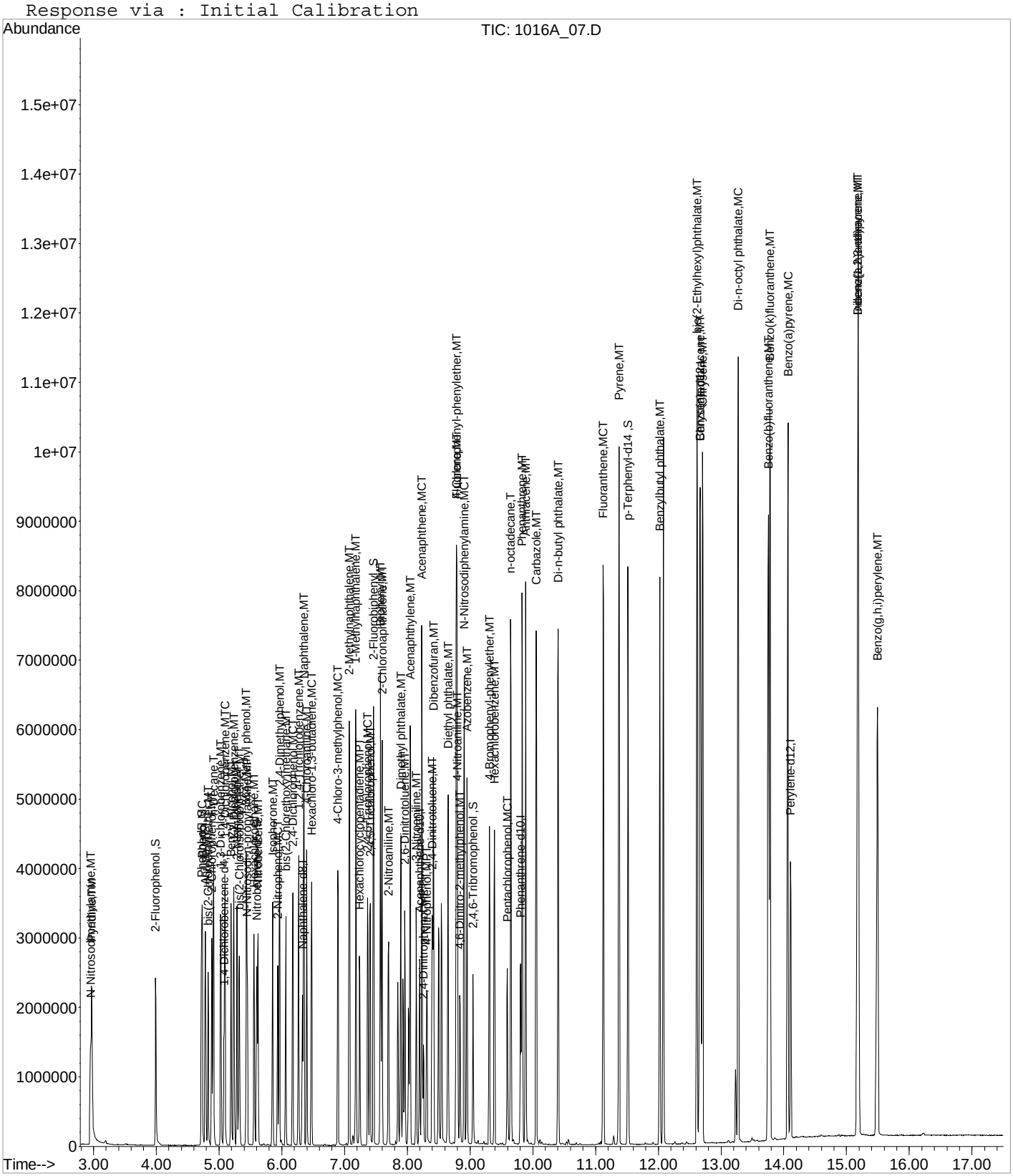
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	438673	33366.5782857	ppb	98
42)	2,4,6-Trichlorophenol	7.37	196	485795	22177.9047190	ppb	98
43)	2,4,5-Trichlorophenol	7.41	196	538964	21884.7617991	ppb	99
45)	Biphenyl	7.57	154	2107175	18495.0347480	ppb	100
46)	2-Chloronaphthalene	7.60	162	1686250	18652.8245453	ppb	99
47)	2-Nitroaniline	7.70	138	589776	19987.3956973	ppb	99
48)	Acenaphthylene	8.04	152	2802125	18762.1892383	ppb	100
49)	Dimethyl phthalate	7.90	163	1885494	18373.3227087	ppb	99
50)	2,6-Dinitrotoluene	7.96	165	455962	21731.5465139	ppb	90
51)	3-Nitroaniline	8.14	138	527863	22887.1677622	ppb	100
52)	Acenaphthene	8.23	153	1780650	18840.1654930	ppb	99
53)	2,4-Dinitrophenol	8.26	184	191014	28428.3968114	ppb	91
54)	Dibenzofuran	8.42	168	2461047	18526.3743948	ppb	100
55)	2,4-Dinitrotoluene	8.40	165	625764	23192.9365802	ppb	90
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.31	139	409747	28244.2524847	ppb	96
58)	Fluorene	8.79	166	2014545	18422.2658061	ppb	100
59)	4-Chlorophenyl-phenylether	8.78	204	881648	18647.1254716	ppb	99
60)	Diethyl phthalate	8.65	149	2135073	19121.5338082	ppb	99
61)	4-Nitroaniline	8.80	138	577550	23323.0376217	ppb	98
62)	Azobenzene	8.95	77	2086121	17557.2089311	ppb	100
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.84	198	311932	35935.1806665	ppb	96
66)	N-Nitrosodiphenylamine	8.91	169	1721214	18406.6926713	ppb	100
68)	4-Bromophenyl-phenylether	9.31	248	522036	17865.0959816	ppb	97
69)	Hexachlorobenzene	9.39	284	593847	17829.2774057	ppb	99
70)	n-octadecane	9.65	55	356718	15354.3815140	ppb	99
71)	Pentachlorophenol	9.59	266	301889	35006.7252175	ppb	98
72)	Phenanthrene	9.83	178	3043668	18477.5215429	ppb	99
73)	Anthracene	9.89	178	3183529	19075.8758795	ppb	100
74)	Carbazole	10.05	167	3118735	19043.3386934	ppb	100
75)	Di-n-butyl phthalate	10.41	149	4309907	19188.5628569	ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.12	202	3726227	19181.9262120	ppb	99
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	3951256	18149.4000744	ppb	99
82)	Benzylbutyl phthalate	12.02	149	2141260	18130.3049970	ppb	95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.66	228	4057224	17715.7291018	ppb	99
85)	Chrysene	12.70	228	3684007	18047.7413425	ppb	98
86)	bis(2-Ethylhexyl)phthalate	12.61	149	3242403	16638.2077829	ppb	99
87)	Di-n-octyl phthalate	13.27	149	5867304	18251.2619175	ppb	100
89)	Benzo(b)fluoranthene	13.75	252	4537474	20079.9833372	ppb	99
90)	Benzo(k)fluoranthene	13.78	252	3935888	17492.1690140	ppb	95
91)	Benzo(a)pyrene	14.07	252	4184141	19057.5966334	ppb	98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	4512677	18360.3739043	ppb	97
93)	Dibenz(a,h)anthracene	15.18	278	3795621	18877.0796443	ppb	97
94)	Benzo(g,h,i)perylene	15.49	276	3715622	18136.1965363	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 07.D Vial: 11
Acq On : 16 Oct 2014 6:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:47 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:46:43 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	184629	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	804221	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	525227	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	947045	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	1210275	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1314415	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.00	112	981174	30263.8949559 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 151319.47%#		
7) Phenol-d5	4.72	99	1196732	30159.3915100 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 150796.96%#		
23) Nitrobenzene-d5	5.61	82	1162876	29069.7131011 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 290697.13%#		
44) 2-Fluorobiphenyl	7.46	172	2585030	28410.3777973 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 284103.78%#		
67) 2,4,6-Tribromophenol	9.05	330	341730	39410.6121834 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 197053.06%#		
81) p-Terphenyl-d14	11.52	244	4153866	26891.7745489 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 268917.75%#		

Target Compounds

					Qvalue
2) Pyridine	2.97	79	1571798	24577.7195916 ppb	98
3) N-Nitrosodimethylamine	2.95	42	794886	22473.7148901 ppb	99
5) Aniline	4.78	66	582948	29435.7032346 ppb	99
6) bis(2-Chloroethyl)ether	4.83	63	808228	29590.0131343 ppb	98
8) Phenol	4.74	94	1218070	29409.6967859 ppb	97
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.89	128	1076054	30405.8698610 ppb	96
11) n-Decane	4.91	41	604959	28115.8548361 ppb	99
12) 1,3-Dichlorobenzene	5.03	146	1167588	29295.0708564 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	1175686	28640.7606378 ppb	98
14) Benzyl Alcohol	5.19	79	885853	28125.7547154 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	1135988	30004.8675135 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	333140	27042.8281811 ppb	98
17) 2-Methylphenol	5.29	108	960698	29876.8398303 ppb	99
18) Hexachloroethane	5.56	117	517643	30533.8784973 ppb	97
19) N-Nitrosodi-n-propylamine	5.45	70	788858	27105.8166894 ppb	98
20) 3&4-Methyl phenol	5.44	107	1092984	29808.3919877 ppb	96
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.62	77	1153216	30625.0657631 ppb	99
25) Isophorone	5.86	82	1982293	28706.7125675 ppb	99
26) 2-Nitrophenol	5.93	139	612100	33759.7905810 ppb	98
27) 2,4-Dimethylphenol	5.96	107	1061599	29094.9729341 ppb	99
28) bis(2-Chlorethoxy)methane	6.06	93	1302609	28801.6315544 ppb	97
29) 2,4-Dichlorophenol	6.18	162	921880	30827.8366687 ppb	95
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	992992	28825.8890264 ppb	98
32) Naphthalene	6.35	128	3358893	26026.2500979 ppb	100
33) 4-Chloroaniline	6.40	65	428575	27094.7637927 ppb	98
34) Hexachloro-1,3-butadiene	6.47	225	553090	28279.3804092 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.90	107	1035834	28855.4342229 ppb	97
37) 2-Methylnaphthalene	7.08	142	2413215	29065.9408534 ppb	99
38) 1-Methylnaphthalene	7.19	142	2255854	29277.3411408 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

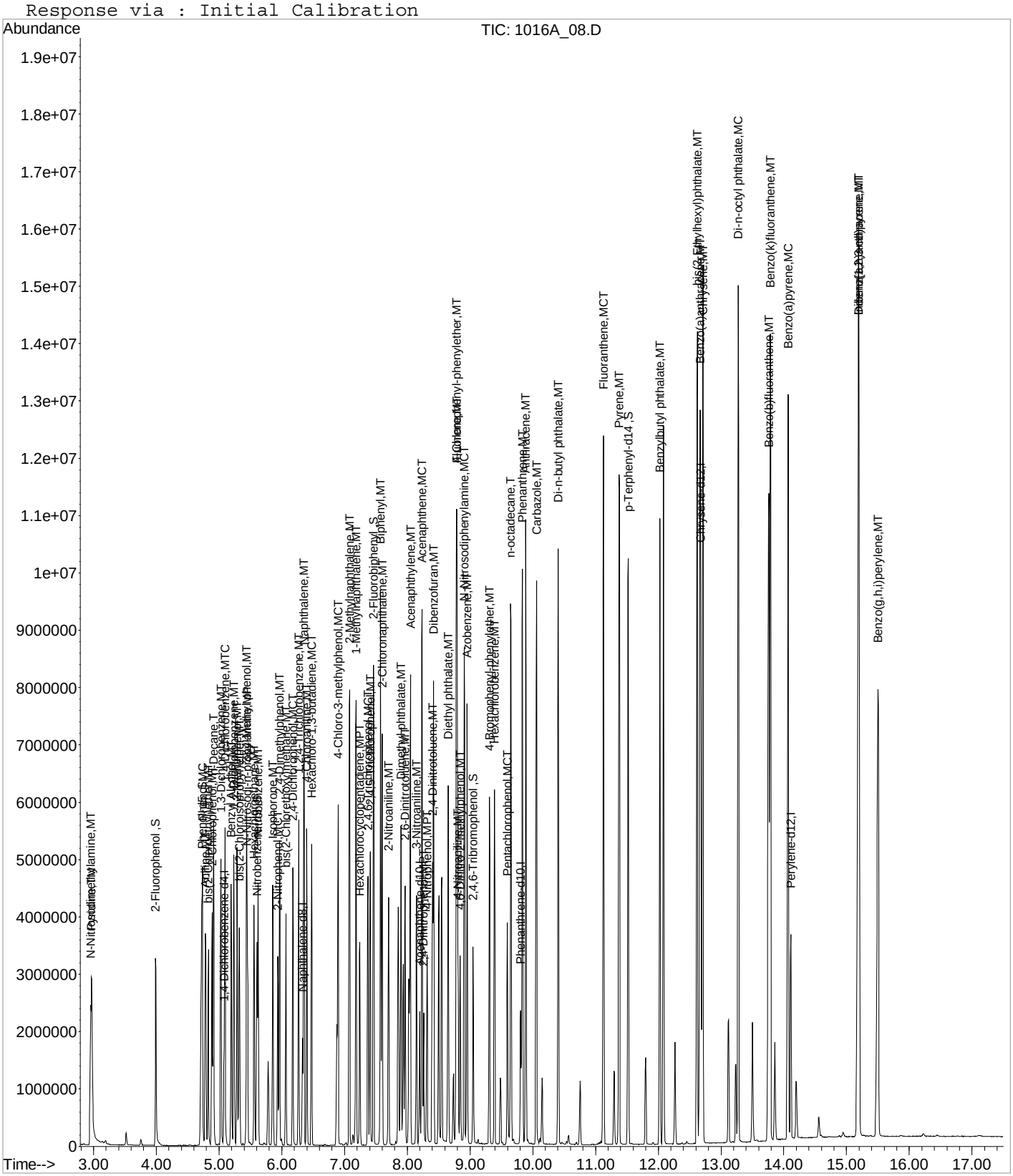
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.24	237	603591	52490.6149922	ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	673457	35151.6311152	ppb		95
43)	2,4,5-Trichlorophenol	7.41	196	735864	34162.3518407	ppb		98
45)	Biphenyl	7.57	154	2846010	28560.0593863	ppb		100
46)	2-Chloronaphthalene	7.60	162	2287926	28935.6174447	ppb		98
47)	2-Nitroaniline	7.70	138	805647	31216.3446464	ppb		100
48)	Acenaphthylene	8.05	152	3737494	28611.7649924	ppb		100
49)	Dimethyl phthalate	7.90	163	2589116	28845.7738783	ppb		98
50)	2,6-Dinitrotoluene	7.97	165	616288	33582.5626178	ppb		92
51)	3-Nitroaniline	8.15	138	723964	35888.5523311	ppb		96
52)	Acenaphthene	8.24	153	2383698	28835.3693950	ppb		99
53)	2,4-Dinitrophenol	8.26	184	292473	49766.9570879	ppb	#	85
54)	Dibenzofuran	8.42	168	3283405	28259.4120373	ppb		100
55)	2,4-Dinitrotoluene	8.40	165	861280	36497.0418981	ppb		94
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	d		
57)	4-Nitrophenol	8.31	139	567236	44703.9837286	ppb		93
58)	Fluorene	8.79	166	2721754	28456.6045761	ppb		100
59)	4-Chlorophenyl-phenylether	8.78	204	1176508	28449.8308732	ppb		97
60)	Diethyl phthalate	8.65	149	2868689	29373.8994021	ppb		100
61)	4-Nitroaniline	8.81	138	779640	35996.2927654	ppb		99
62)	Azobenzene	8.95	77	2892277	27830.6919490	ppb		99
63)	Atrazine	0.00	200	0	N.D.	d		
65)	4,6-Dinitro-2-methylphenol	8.84	198	446786	59562.0012271	ppb		93
66)	N-Nitrosodiphenylamine	8.91	169	2357871	29179.0235501	ppb		100
68)	4-Bromophenyl-phenylether	9.31	248	719419	28490.2740138	ppb		89
69)	Hexachlorobenzene	9.39	284	809682	28130.8906305	ppb		98
70)	n-octadecane	9.65	55	471040	23462.5339264	ppb		98
71)	Pentachlorophenol	9.59	266	440114	59058.0635374	ppb		96
72)	Phenanthrene	9.84	178	4198681	29496.4086244	ppb		100
73)	Anthracene	9.89	178	4362380	30248.8587159	ppb		100
74)	Carbazole	10.06	167	4290846	30319.1741450	ppb		99
75)	Di-n-butyl phthalate	10.41	149	5846621	30122.3821930	ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	d		
77)	Fluoranthene	11.13	202	5155285	30710.3954897	ppb		99
79)	Benzidine	0.00	184	0	N.D.	d		
80)	Pyrene	11.38	202	5463160	27332.7145984	ppb		100
82)	Benzylbutyl phthalate	12.03	149	2978517	27469.2960503	ppb		99
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.	d		
84)	Benzo(a)anthracene	12.67	228	5597341	26620.9501079	ppb		99
85)	Chrysene	12.71	228	5090734	27164.0522561	ppb		99
86)	bis(2-Ethylhexyl)phthalate	12.62	149	4474270	25007.6844094	ppb		99
87)	Di-n-octyl phthalate	13.27	149	8007620	27131.2312700	ppb		99
89)	Benzo(b)fluoranthene	13.76	252	6552503	32155.2471237	ppb		97
90)	Benzo(k)fluoranthene	13.78	252	5267487	25959.7096310	ppb		95
91)	Benzo(a)pyrene	14.07	252	5760288	29093.8664887	ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.19	276	6139797	27701.0804551	ppb		97
93)	Dibenz(a,h)anthracene	15.19	278	5198833	28671.6877933	ppb		95
94)	Benzo(g,h,i)perylene	15.50	276	5067524	27428.7443474	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 08.D Vial: 12
Acq On : 16 Oct 2014 6:50 pm Operator: 280
Sample : STD SVMS 30K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:48 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:48:04 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	179551	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	790294	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	494617	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	883591	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	1008412	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1213859	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	3.99	112	1290200	40921.1581164 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 204605.79%#		
7) Phenol-d5	4.72	99	1560116	40429.1537658 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 202145.77%#		
23) Nitrobenzene-d5	5.61	82	1518329	38624.2402519 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 386242.40%#		
44) 2-Fluorobiphenyl	7.46	172	3277179	38246.3142539 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 382463.14%#		
67) 2,4,6-Tribromophenol	9.05	330	428515	52968.2268888 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 264841.13%#		
81) p-Terphenyl-d14	11.52	244	4912833	38172.0108006 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 381720.11%#		

Target Compounds						Qvalue
2) Pyridine	2.97	79	2060534	33131.1665303 ppb		99
3) N-Nitrosodimethylamine	2.95	42	1045810	30404.2922487 ppb		99
5) Aniline	4.79	66	755930	39249.8742370 ppb		98
6) bis(2-Chloroethyl)ether	4.83	63	1049192	39498.2928695 ppb		99
8) Phenol	4.74	94	1585332	39359.5944629 ppb		96
9) Benzaldehyde	0.00	105	0	N.D. d		
10) 2-Chlorophenol	4.89	128	1397929	40618.1902773 ppb		98
11) n-Decane	4.91	41	778852	37221.3721252 ppb	#	99
12) 1,3-Dichlorobenzene	5.03	146	1509288	38939.3894950 ppb		99
13) 1,4-Dichlorobenzene	5.09	146	1531618	38366.8153465 ppb		98
14) Benzyl Alcohol	5.19	79	1144511	37365.8258144 ppb		99
15) 1,2-Dichlorobenzene	5.24	146	1476925	40113.3100932 ppb		98
16) bis(2-Chloroisopropyl)ethe	5.32	121	429765	35873.0630089 ppb		98
17) 2-Methylphenol	5.29	108	1241112	39689.0621043 ppb		100
18) Hexachloroethane	5.56	117	675954	40999.7170110 ppb		97
19) N-Nitrosodi-n-propylamine	5.46	70	1007383	35593.4733045 ppb		97
20) 3&4-Methyl phenol	5.44	107	1431216	40136.7326947 ppb		98
21) Acetophenone	0.00	105	0	N.D. d		
24) Nitrobenzene	5.62	77	1501271	40570.6710110 ppb		99
25) Isophorone	5.86	82	2566677	37824.5314539 ppb		99
26) 2-Nitrophenol	5.94	139	798510	44817.1719593 ppb		93
27) 2,4-Dimethylphenol	5.97	107	1369895	38205.9903688 ppb		99
28) bis(2-Chlorethoxy)methane	6.07	93	1680086	37802.5636536 ppb		99
29) 2,4-Dichlorophenol	6.18	162	1193650	40619.2951644 ppb		93
30) Benzoic Acid	0.00	105	0	N.D. d		
31) 1,2,4-Trichlorobenzene	6.27	180	1291302	38146.2199843 ppb		99
32) Naphthalene	6.35	128	4315795	34030.0793383 ppb		100
33) 4-Chloroaniline	6.40	65	559202	35976.0912433 ppb		100
34) Hexachloro-1,3-butadiene	6.48	225	710228	36953.7569516 ppb		98
35) Caprolactam	0.00	113	0	N.D. d		
36) 4-Chloro-3-methylphenol	6.90	107	1312957	37219.8552219 ppb		97
37) 2-Methylnaphthalene	7.08	142	3082597	37782.6004215 ppb		100
38) 1-Methylnaphthalene	7.19	142	2876641	37992.0768726 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

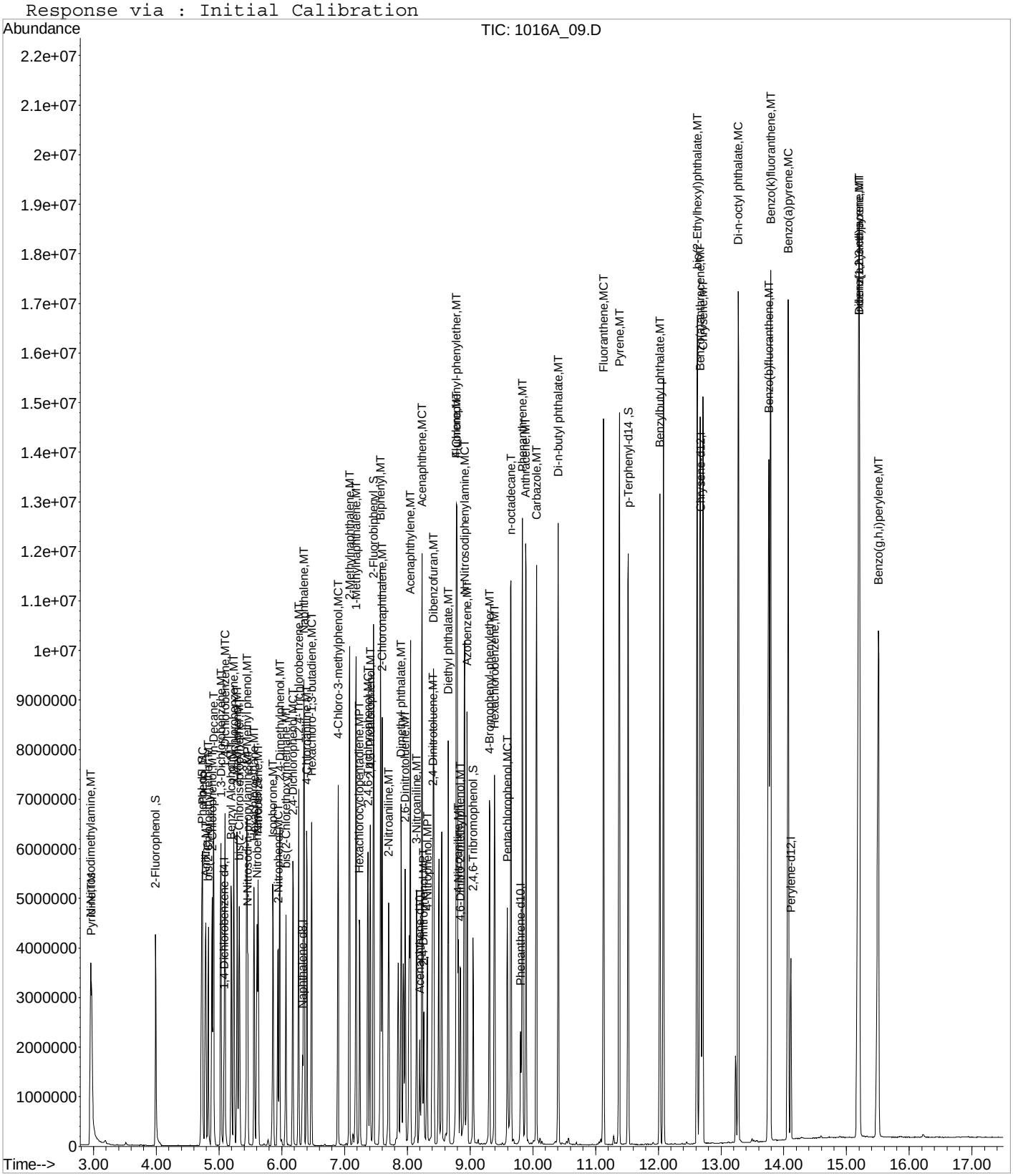
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	790437	72993.4971311 ppb		98
42)	2,4,6-Trichlorophenol	7.37	196	879988	48774.2236184 ppb		96
43)	2,4,5-Trichlorophenol	7.41	196	932096	45950.3531069 ppb		96
45)	Biphenyl	7.57	154	3619316	38568.0064968 ppb		100
46)	2-Chloronaphthalene	7.60	162	2917534	39181.8295247 ppb		99
47)	2-Nitroaniline	7.70	138	1037335	42680.9707452 ppb		100
48)	Acenaphthylene	8.05	152	4755737	38659.8334756 ppb		100
49)	Dimethyl phthalate	7.90	163	3313005	39195.0102206 ppb		98
50)	2,6-Dinitrotoluene	7.97	165	784909	45417.9402958 ppb		89
51)	3-Nitroaniline	8.15	138	911517	47982.3756530 ppb		99
52)	Acenaphthene	8.24	153	3028777	38906.2694638 ppb		99
53)	2,4-Dinitrophenol	8.26	184	374489	67666.2918514 ppb	#	81
54)	Dibenzofuran	8.42	168	4131280	37757.3322485 ppb		99
55)	2,4-Dinitrotoluene	8.40	165	1087188	48921.0712336 ppb		91
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.32	139	694064	58084.4610268 ppb		97
58)	Fluorene	8.79	166	3442990	38225.0423334 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	1479703	37995.9548677 ppb		97
60)	Diethyl phthalate	8.65	149	3688981	40110.9139720 ppb		99
61)	4-Nitroaniline	8.81	138	957916	46964.4341753 ppb		99
62)	Azobenzene	8.95	77	3597995	36763.9934646 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.85	198	557349	79637.2552343 ppb		99
66)	N-Nitrosodiphenylamine	8.91	169	2980806	39537.0040475 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	901175	38251.0349176 ppb		90
69)	Hexachlorobenzene	9.39	284	996438	37105.5275784 ppb		97
70)	n-octadecane	9.65	55	615697	32870.2868961 ppb		99
71)	Pentachlorophenol	9.60	266	552445	79455.2133661 ppb		96
72)	Phenanthrene	9.84	178	5257544	39587.5394442 ppb		100
73)	Anthracene	9.89	178	5292917	39336.8804117 ppb		100
74)	Carbazole	10.06	167	5019064	38011.6310414 ppb		99
75)	Di-n-butyl phthalate	10.41	149	6999481	38651.7839479 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.13	202	6047599	38613.1336624 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	6467958	38837.5741197 ppb		99
82)	Benzylbutyl phthalate	12.03	149	3519064	38951.1845290 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.67	228	6588841	37609.4403121 ppb		99
85)	Chrysene	12.71	228	6066317	38849.4889812 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	5320382	35689.4754352 ppb		99
87)	Di-n-octyl phthalate	13.27	149	9438736	38381.8535646 ppb		97
89)	Benzo(b)fluoranthene	13.76	252	7901187	41985.6834968 ppb		100
90)	Benzo(k)fluoranthene	13.79	252	6702294m	35767.1302592 ppb		
91)	Benzo(a)pyrene	14.07	252	7343270	40161.5998398 ppb		100
92)	Indeno(1,2,3-cd)pyrene	15.21	276	8102983	39586.9359116 ppb		94
93)	Dibenz(a,h)anthracene	15.20	278	6812126	40681.2536766 ppb		95
94)	Benzo(g,h,i)perylene	15.51	276	6721361	39394.1376447 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: S804J16N.RES

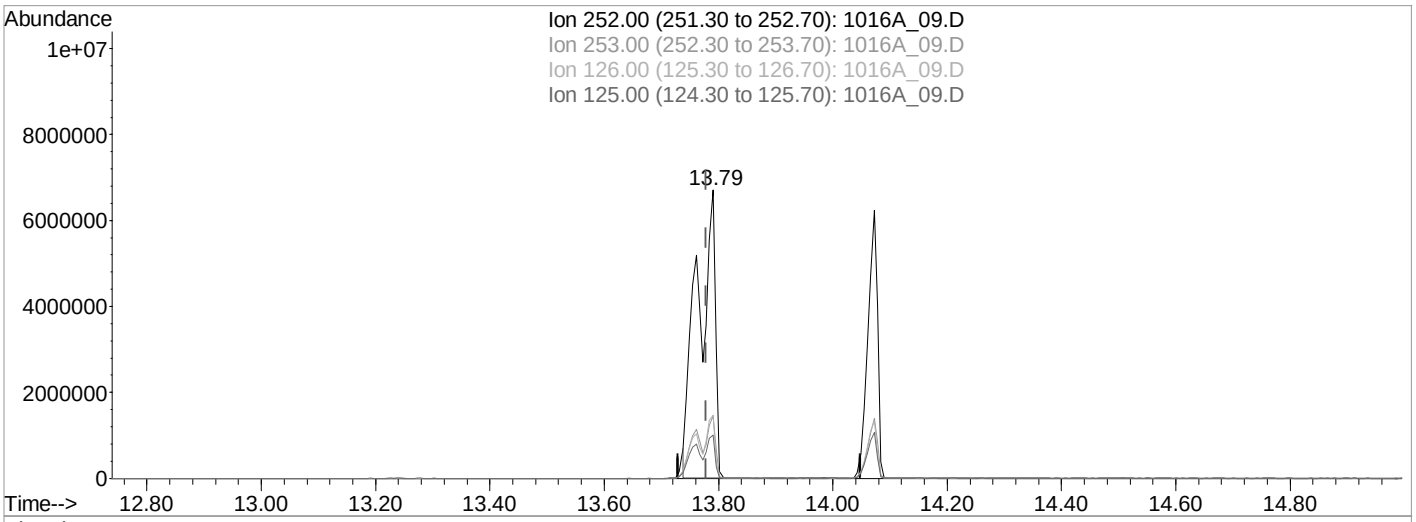
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Initial Calibration

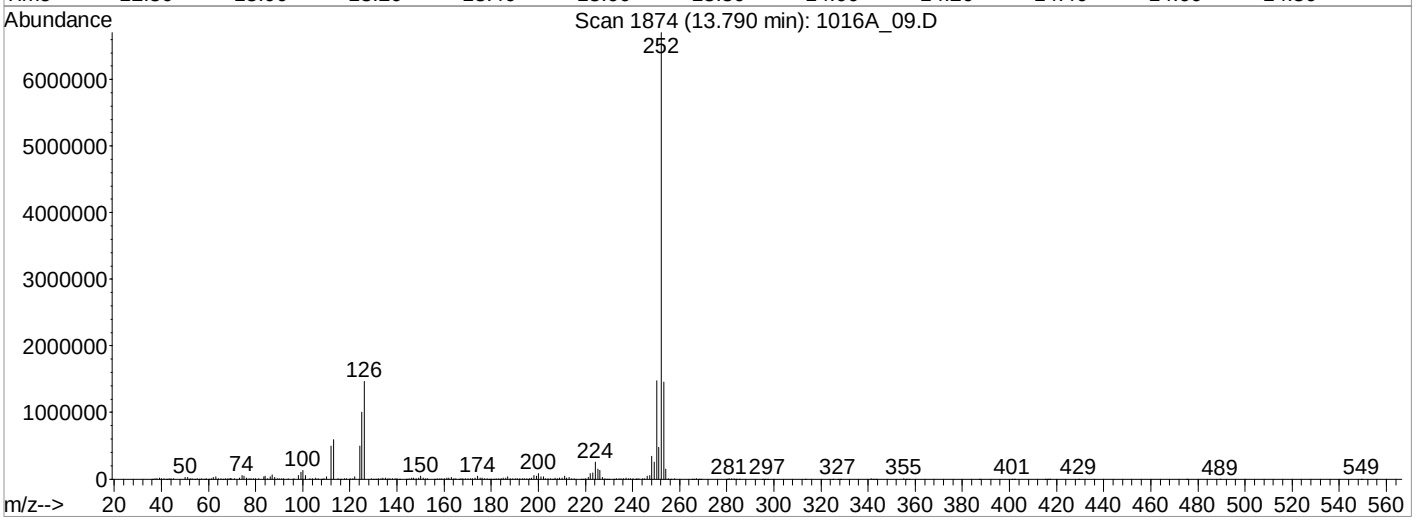


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Multiple Level Calibration





TIC: 1016A_09.D

(90) Benzo(k)fluoranthene (MT)

13.79min (+0.012) 76338.5754723 ppb

Qvalue = 97

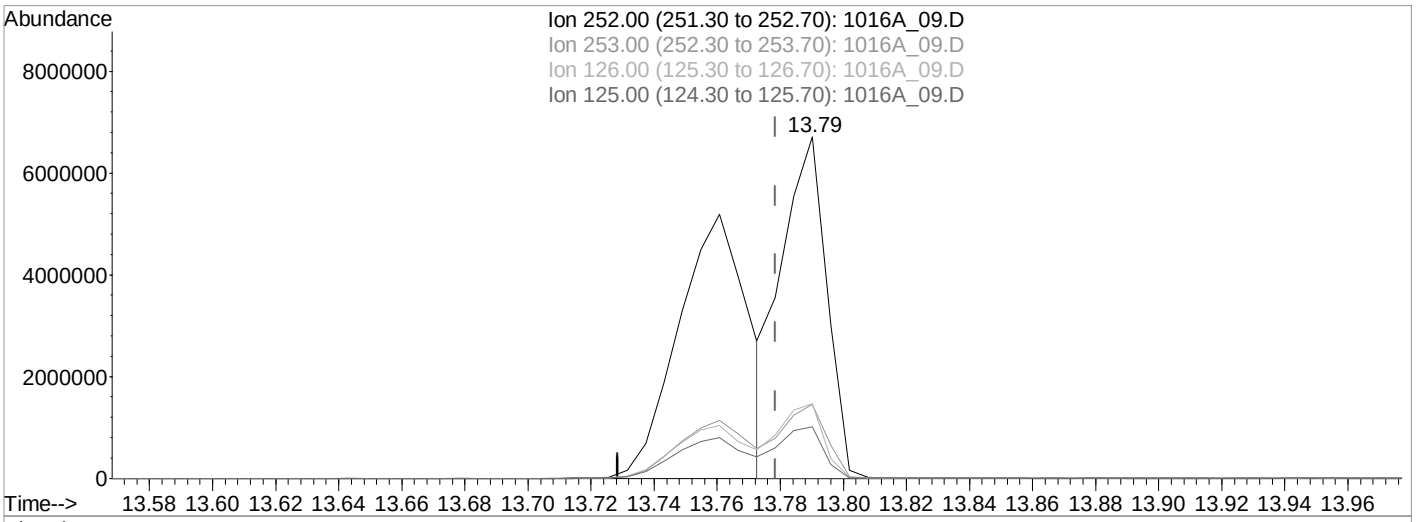
response 14304854

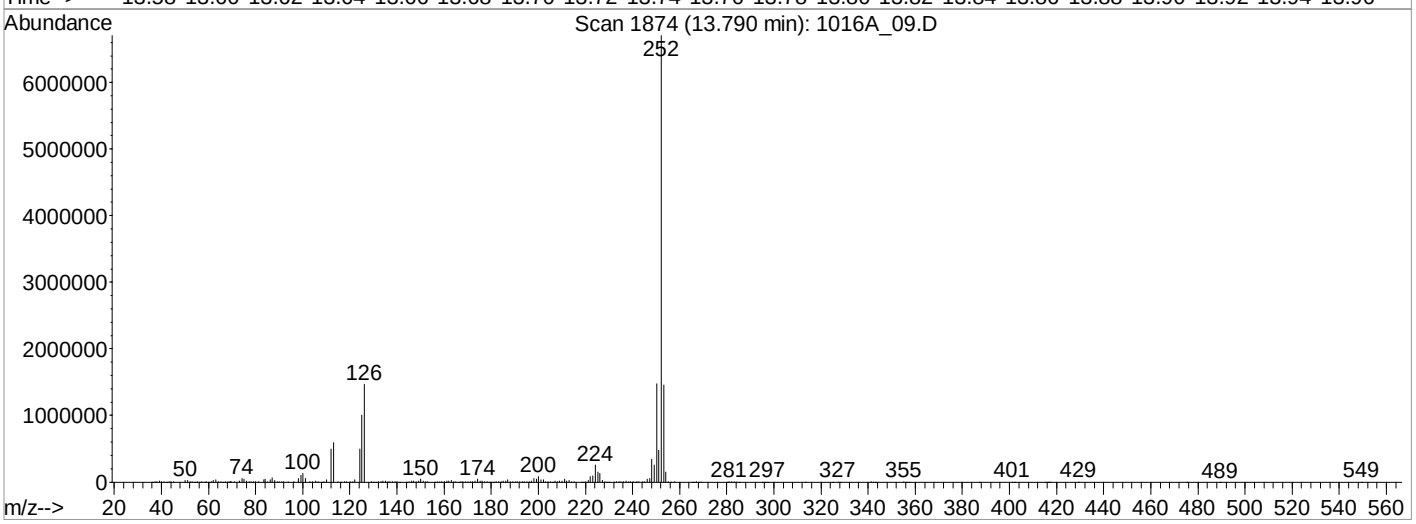
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.69
126.00	19.90	21.85
125.00	13.60	15.04

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 09.D Vial: 13
Acq On : 16 Oct 2014 7:12 pm Operator: 280
Sample : STD SVMS 40K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:49:46 2014
Response via : Multiple Level Calibration





TIC: 1016A_09.D

(90) Benzo(k)fluoranthene (MT)

13.79min (+0.012) 35767.1302592 ppb m

response 6702294

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	21.70
126.00	19.90	21.85
125.00	13.60	15.04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	171245	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	730746	8000.00 ppb	0.00
40) Acenaphthene-d10	8.20	164	454495	8000.00 ppb	0.00
64) Phenanthrene-d10	9.81	188	826159	8000.00 ppb	0.00
78) Chrysene-d12	12.68	240	983276	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1119981	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.00	112	1520137	50552.6046529 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 252763.02%#		
7) Phenol-d5	4.73	99	1832972	49803.9191563 ppb	0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 249019.60%#		
23) Nitrobenzene-d5	5.61	82	1762414	48486.8794871 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 484868.79%#		
44) 2-Fluorobiphenyl	7.47	172	3784322	48063.7262624 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 480637.26%#		
67) 2,4,6-Tribromophenol	9.05	330	493845	65287.1503091 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 326435.75%#		
81) p-Terphenyl-d14	11.52	244	5744267	45773.0888941 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 457730.89%#		

Target Compounds					Qvalue
2) Pyridine	2.97	79	2416408	40737.7590994 ppb	100
3) N-Nitrosodimethylamine	2.96	42	1217929	37125.6450426 ppb	98
5) Aniline	4.79	66	886671	48271.3140196 ppb	99
6) bis(2-Chloroethyl)ether	4.83	63	1219167	48123.4198368 ppb	98
8) Phenol	4.74	94	1852092	48212.8576279 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	4.89	128	1635105	49813.9557115 ppb	99
11) n-Decane	4.91	41	897884	44991.2024549 ppb #	99
12) 1,3-Dichlorobenzene	5.03	146	1756497	47515.3967470 ppb	99
13) 1,4-Dichlorobenzene	5.09	146	1782389	46814.2113942 ppb	97
14) Benzyl Alcohol	5.20	79	1328613	45480.2705807 ppb	99
15) 1,2-Dichlorobenzene	5.24	146	1724808	49118.0079645 ppb	98
16) bis(2-Chloroisopropyl)ethe	5.32	121	499597	43724.7330683 ppb	98
17) 2-Methylphenol	5.29	108	1444418	48430.9158388 ppb	99
18) Hexachloroethane	5.56	117	788320	50134.4425239 ppb	96
19) N-Nitrosodi-n-propylamine	5.46	70	1175195	43536.7108432 ppb	96
20) 3&4-Methyl phenol	5.45	107	1663654	48918.1213858 ppb	95
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	5.63	77	1744357	50981.2765254 ppb	96
25) Isophorone	5.86	82	3012485	48011.9637078 ppb	100
26) 2-Nitrophenol	5.94	139	935842	56805.3001784 ppb	97
27) 2,4-Dimethylphenol	5.97	107	1603935	48378.5874416 ppb	100
28) bis(2-Chlorethoxy)methane	6.07	93	1959881	47691.5767553 ppb	99
29) 2,4-Dichlorophenol	6.18	162	1388340	51094.4178357 ppb	98
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.27	180	1493917	47727.9073106 ppb	98
32) Naphthalene	6.36	128	4979773	42465.2747394 ppb	100
33) 4-Chloroaniline	6.40	65	644082	44813.4789422 ppb	99
34) Hexachloro-1,3-butadiene	6.47	225	830893	46755.0091519 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	6.90	107	1561163	47862.4211974 ppb	99
37) 2-Methylnaphthalene	7.08	142	3600759	47729.9947666 ppb	99
38) 1-Methylnaphthalene	7.19	142	3365462	48070.0195187 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Oct 16 17:22:22 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

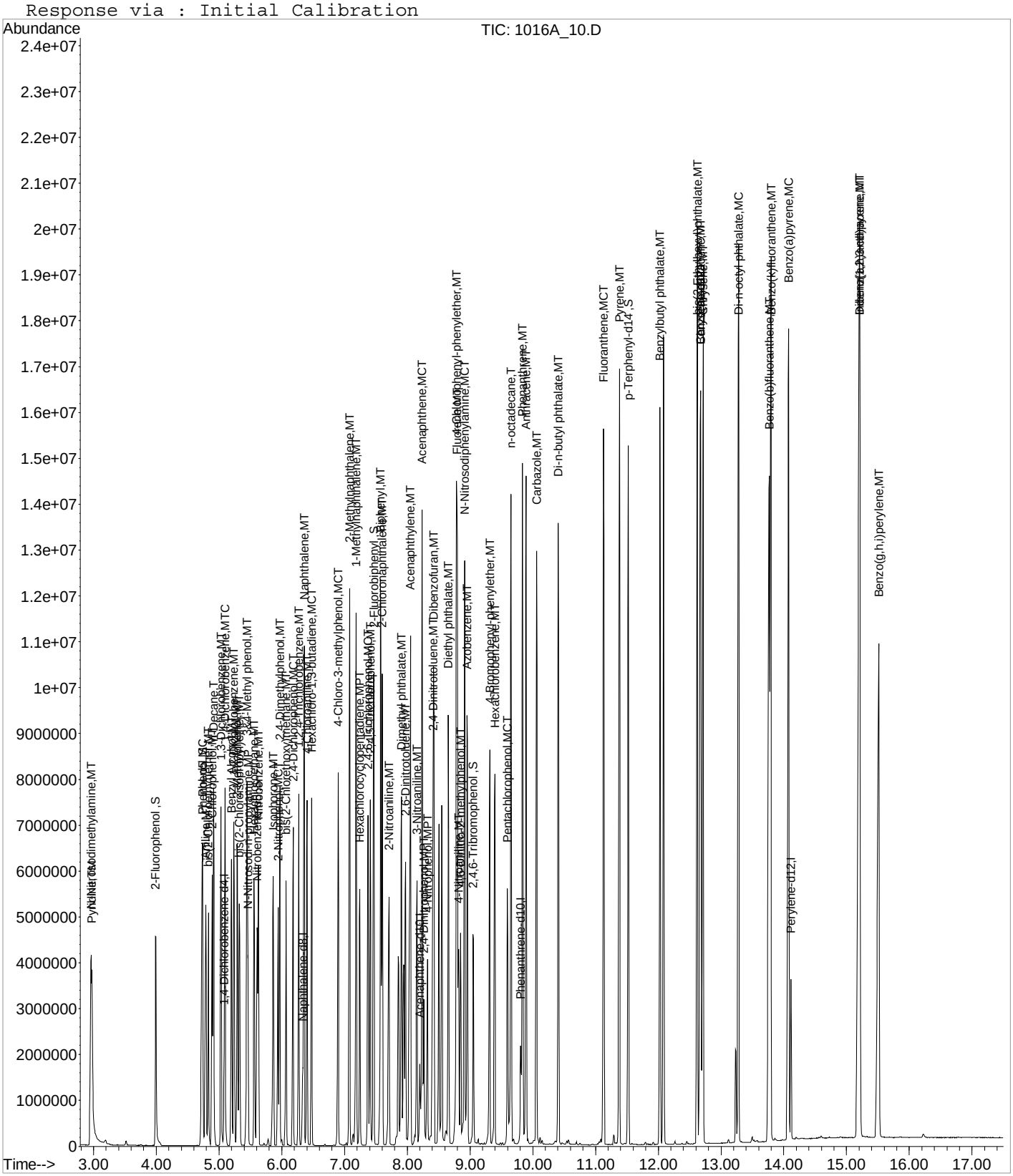
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.24	237	935809	94046.8073420 ppb		99
42)	2,4,6-Trichlorophenol	7.37	196	1032863	62301.1788584 ppb		97
43)	2,4,5-Trichlorophenol	7.41	196	1089520	58452.5342295 ppb		95
45)	Biphenyl	7.57	154	4246409	49245.0337855 ppb		99
46)	2-Chloronaphthalene	7.60	162	3377971	49370.1709310 ppb		99
47)	2-Nitroaniline	7.71	138	1211707	54256.6284883 ppb		99
48)	Acenaphthylene	8.05	152	5511561	48759.2141120 ppb		99
49)	Dimethyl phthalate	7.91	163	3874643	49886.1873915 ppb		99
50)	2,6-Dinitrotoluene	7.97	165	919587	57908.3083818 ppb		93
51)	3-Nitroaniline	8.16	138	1063578	60929.3083718 ppb		96
52)	Acenaphthene	8.24	153	3512500	49103.0596048 ppb		99
53)	2,4-Dinitrophenol	8.27	184	464406	91321.0851083 ppb	#	82
54)	Dibenzofuran	8.42	168	4822168	47962.1824610 ppb		99
55)	2,4-Dinitrotoluene	8.41	165	1271665	62273.5975533 ppb		92
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.33	139	830592	75646.3744227 ppb		95
58)	Fluorene	8.80	166	4030512	48698.1386037 ppb		99
59)	4-Chlorophenyl-phenylether	8.78	204	1742055	48681.5727405 ppb		95
60)	Diethyl phthalate	8.65	149	4328718	51221.8621244 ppb		99
61)	4-Nitroaniline	8.82	138	1123573	59949.1307875 ppb		97
62)	Azobenzene	8.95	77	4221311	46940.6828880 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	8.85	198	672612	102787.7391169 ppb		91
66)	N-Nitrosodiphenylamine	8.91	169	3504226	49710.6908002 ppb		99
68)	4-Bromophenyl-phenylether	9.31	248	1061114	48170.7873039 ppb		95
69)	Hexachlorobenzene	9.40	284	1173564	46739.3591634 ppb		98
70)	n-octadecane	9.65	55	706895	40362.5886893 ppb		99
71)	Pentachlorophenol	9.59	266	663749	102099.7963971 ppb		94
72)	Phenanthrene	9.84	178	6145816	49492.8875170 ppb		99
73)	Anthracene	9.89	178	6201357	49292.3144823 ppb		100
74)	Carbazole	10.06	167	6135397	49696.3035202 ppb		99
75)	Di-n-butyl phthalate	10.41	149	8165024	48222.3993415 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.13	202	7198588	49157.1872966 ppb		100
79)	Benzidine	0.00	184	0	N.D. d		
80)	Pyrene	11.38	202	7578476	46669.0918320 ppb		99
82)	Benzylbutyl phthalate	12.03	149	4187649	47536.4059359 ppb		95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D. d		
84)	Benzo(a)anthracene	12.67	228	8058673	47175.2209404 ppb		99
85)	Chrysene	12.71	228	7107134	46678.5416929 ppb		98
86)	bis(2-Ethylhexyl)phthalate	12.62	149	6275722	43174.1317520 ppb		99
87)	Di-n-octyl phthalate	13.27	149	10415735	43437.4771163 ppb		97
89)	Benzo(b)fluoranthene	13.77	252	10093322	58130.0374982 ppb		99
90)	Benzo(k)fluoranthene	13.80	252	7458856m	43141.0222980 ppb		
91)	Benzo(a)pyrene	14.08	252	8657847	51320.2782254 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.21	276	9368832	49607.8036244 ppb		94
93)	Dibenz(a,h)anthracene	15.21	278	7904202	51159.6157613 ppb		94
94)	Benzo(g,h,i)perylene	15.52	276	7661270	48666.7933974 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: S804J16N.RES

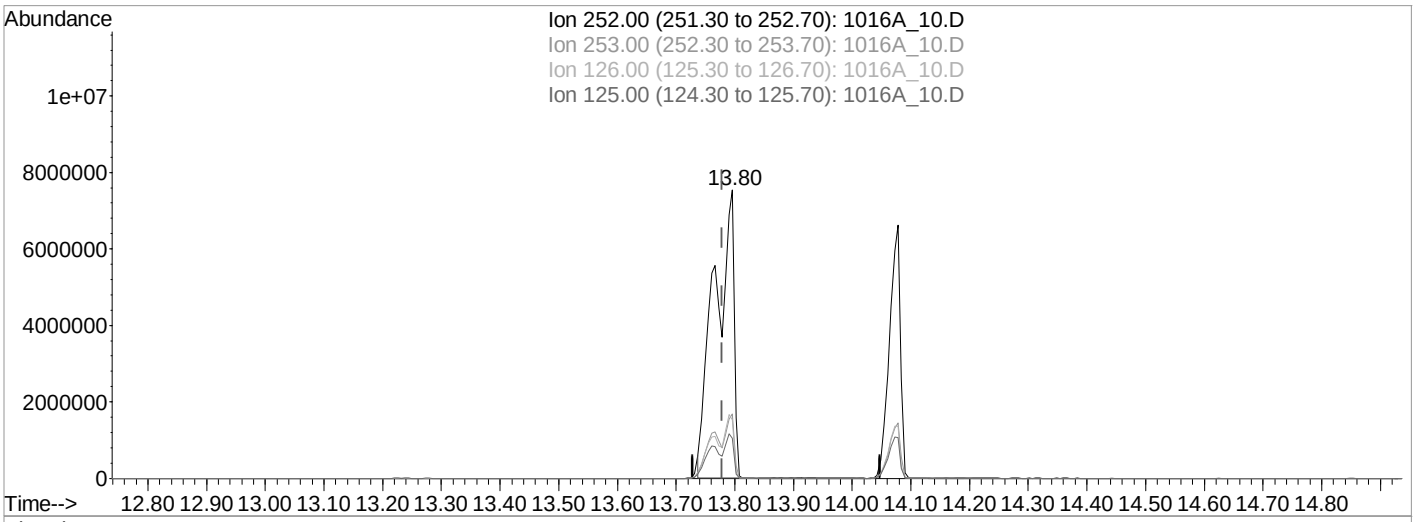
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Initial Calibration

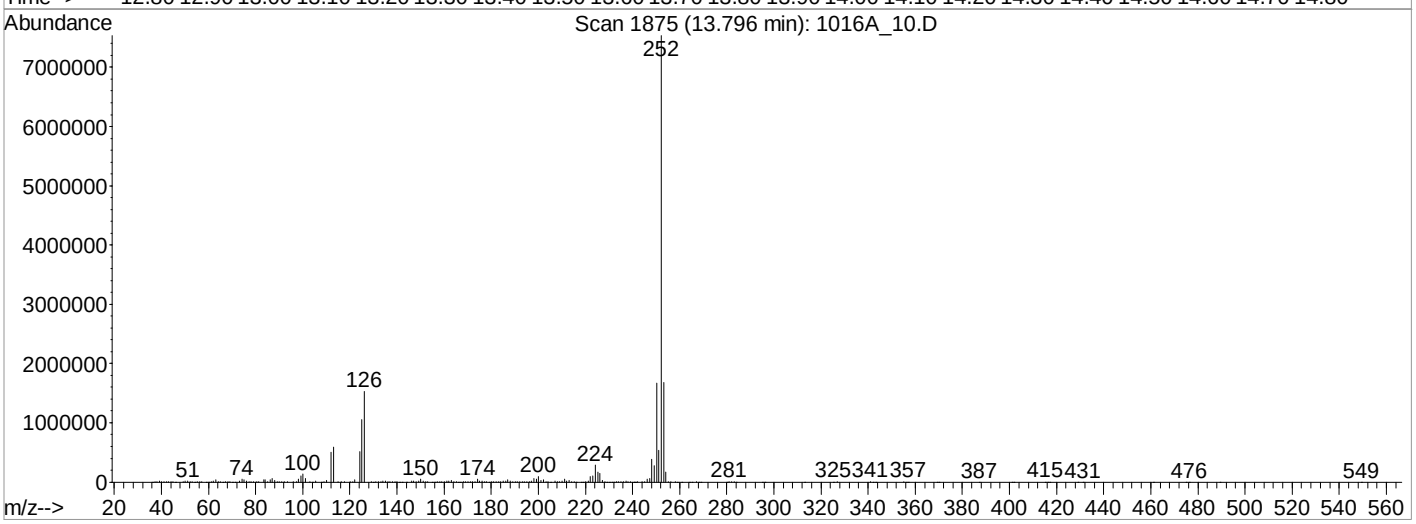


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:51 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Multiple Level Calibration





TIC: 1016A_10.D

(90) Benzo(k)fluoranthene (MT)

13.80min (+0.018) 100005.9262308 ppb

Qvalue = 99

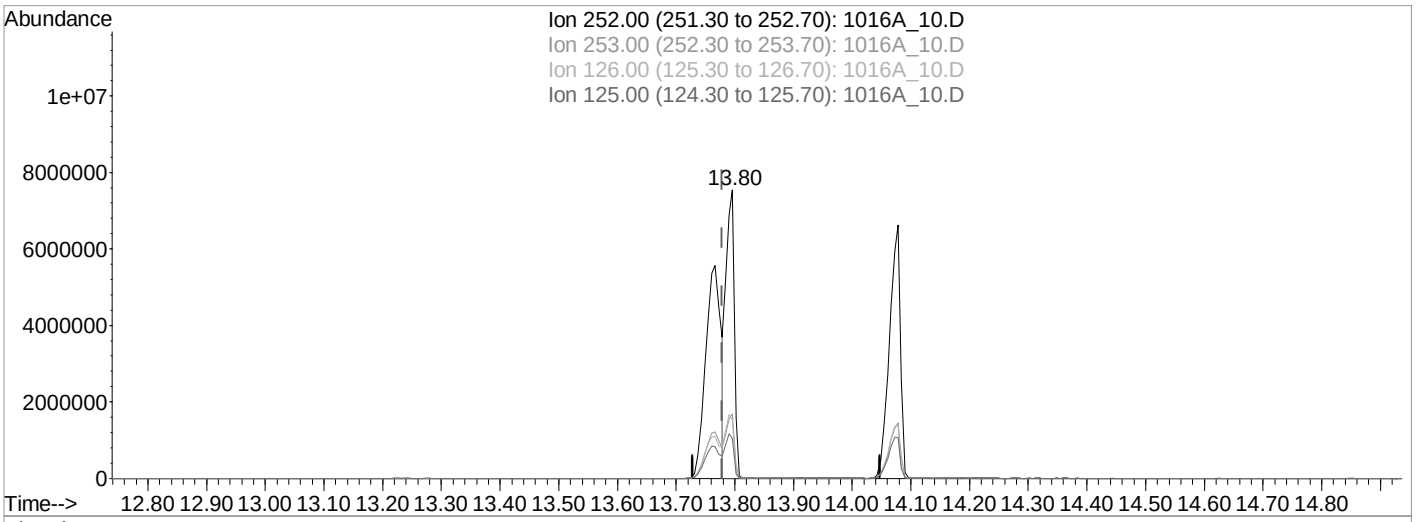
response 17290499

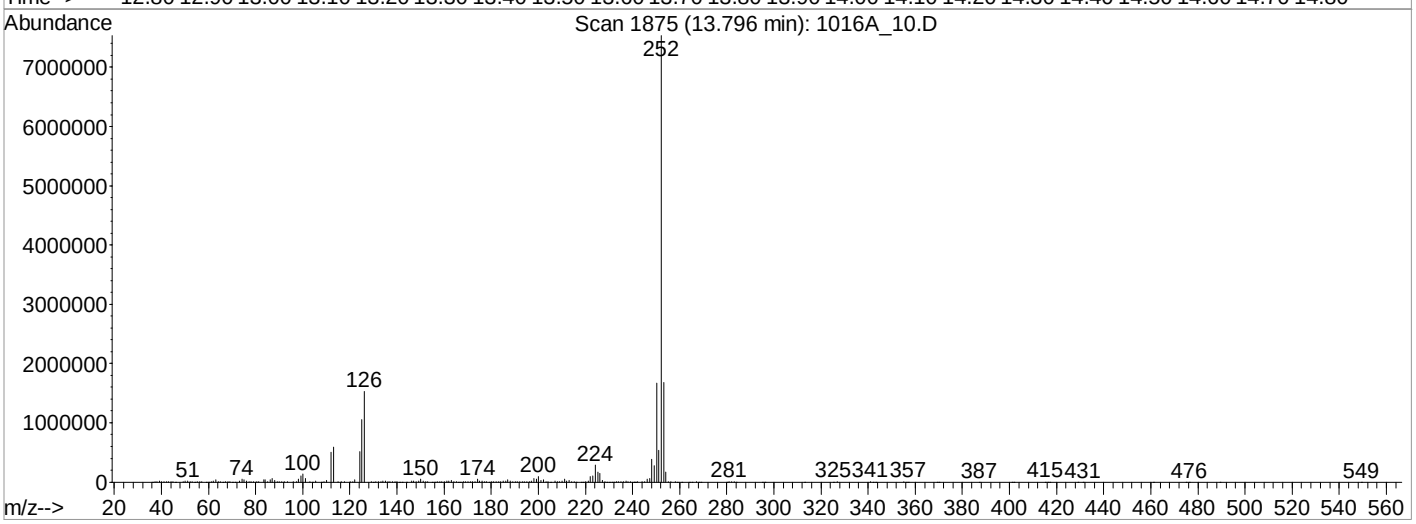
Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.30
126.00	19.90	20.33
125.00	13.60	13.91

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 10.D Vial: 14
Acq On : 16 Oct 2014 7:33 pm Operator: 280
Sample : STD SVMS 50K PPB 14G09881 Inst : BNAMS4
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:52 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:51:24 2014
Response via : Multiple Level Calibration





TIC: 1016A_10.D

(90) Benzo(k)fluoranthene (MT)

13.80min (+0.018) 43141.0222980 ppb m

response 7458856

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	22.31
126.00	19.90	20.33
125.00	13.60	13.92

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	196616	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	859481	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	544735	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	942650	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1045398	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1222649	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	208724	10000.0000000 ppb	100
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	521014	10000.0000000 ppb	100
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.05	105	157857m	9893.7030328 ppb	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.74	113	118725	10000.0000000 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

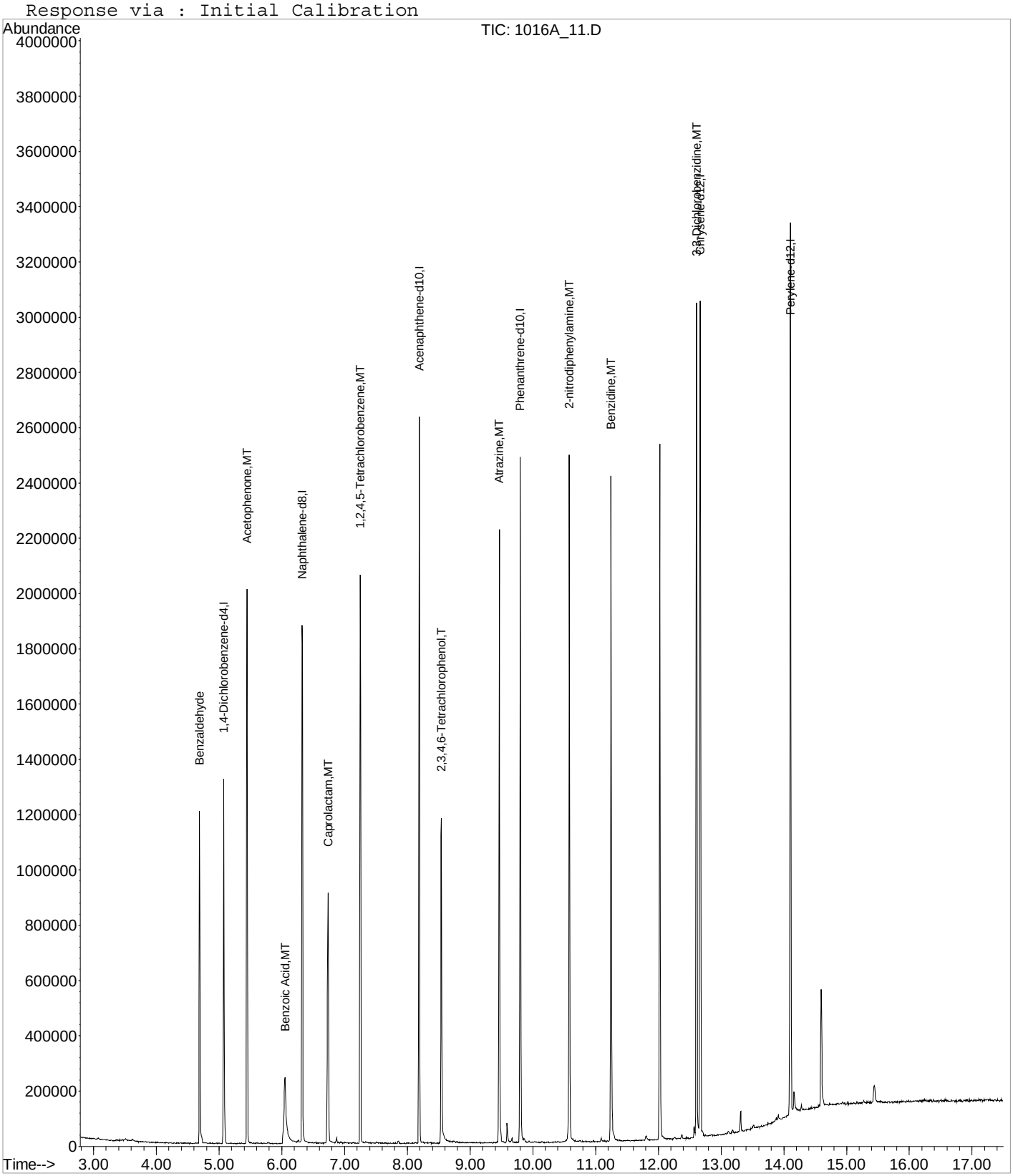
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	355440	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D. d	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d	
45)	Biphenyl	0.00	154	0	N.D. d	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D. d	
52)	Acenaphthene	0.00	153	0	N.D. d	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d	
56)	2,3,4,6-Tetrachlorophenol	8.54	232	157363	10032.0028560 ppb	100
57)	4-Nitrophenol	0.00	139	0	N.D. d	
58)	Fluorene	0.00	166	0	N.D. d	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D. d	
61)	4-Nitroaniline	0.00	138	0	N.D. d	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.47	200	225829	10000.0000000 ppb	100
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D. d	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D. d	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	10.58	167	339901m	10000.0000000 ppb	
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.25	184	909817	10000.0000000 ppb	100
80)	Pyrene	0.00	202	0	N.D. d	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	12.61	252	630835	10000.0000000 ppb	100
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: S804J16N.RES

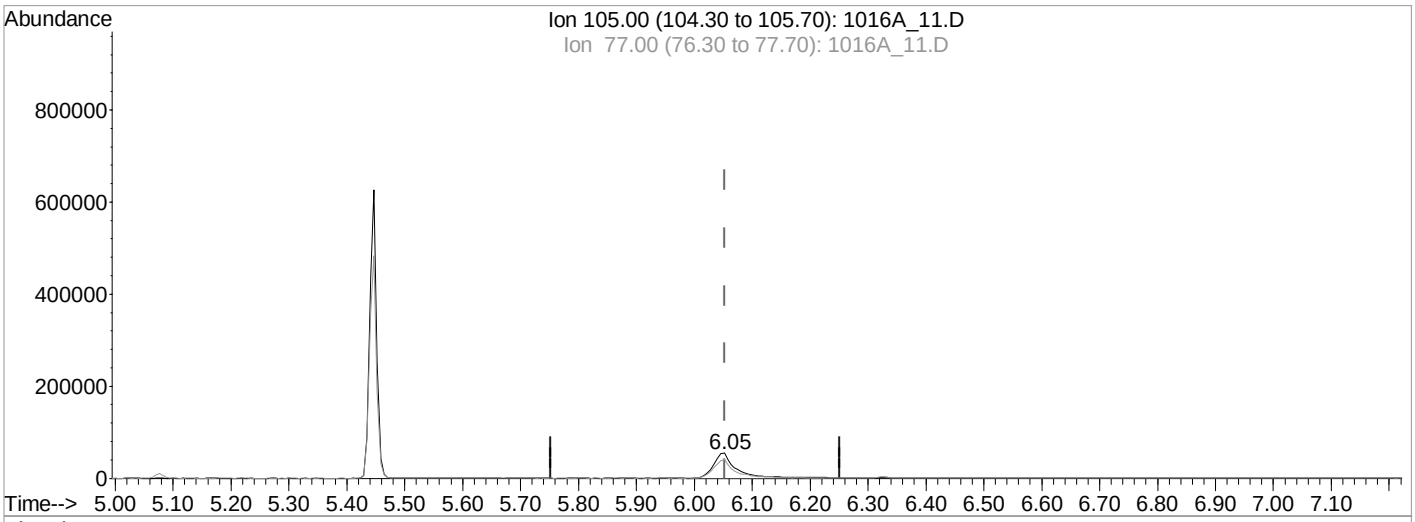
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Initial Calibration

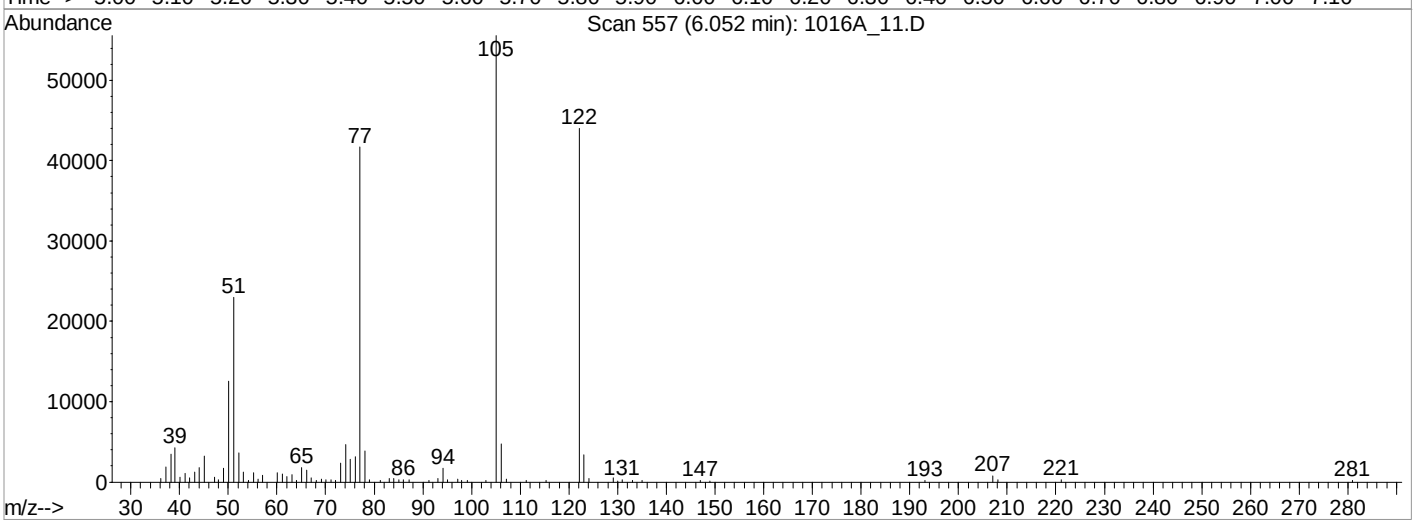


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:54 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(30) Benzoic Acid (MT)

6.05min (0.000) 9677.2232424 ppb

Qvalue = 90

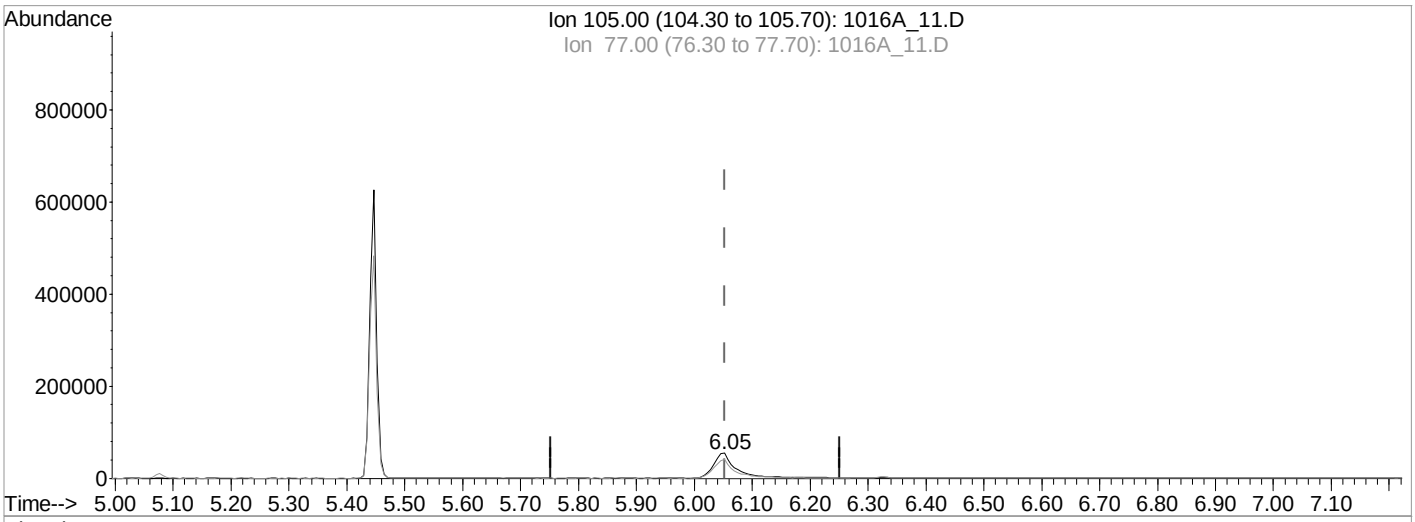
response 154403

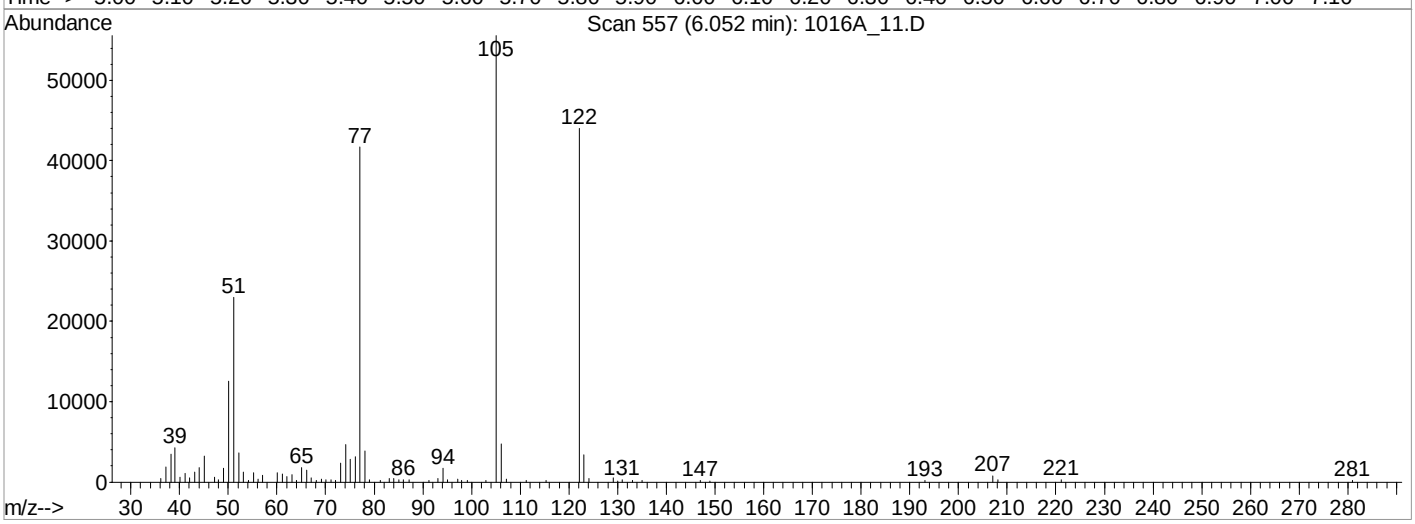
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	73.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(30) Benzoic Acid (MT)

6.05min (0.000) 9893.7030328 ppb m

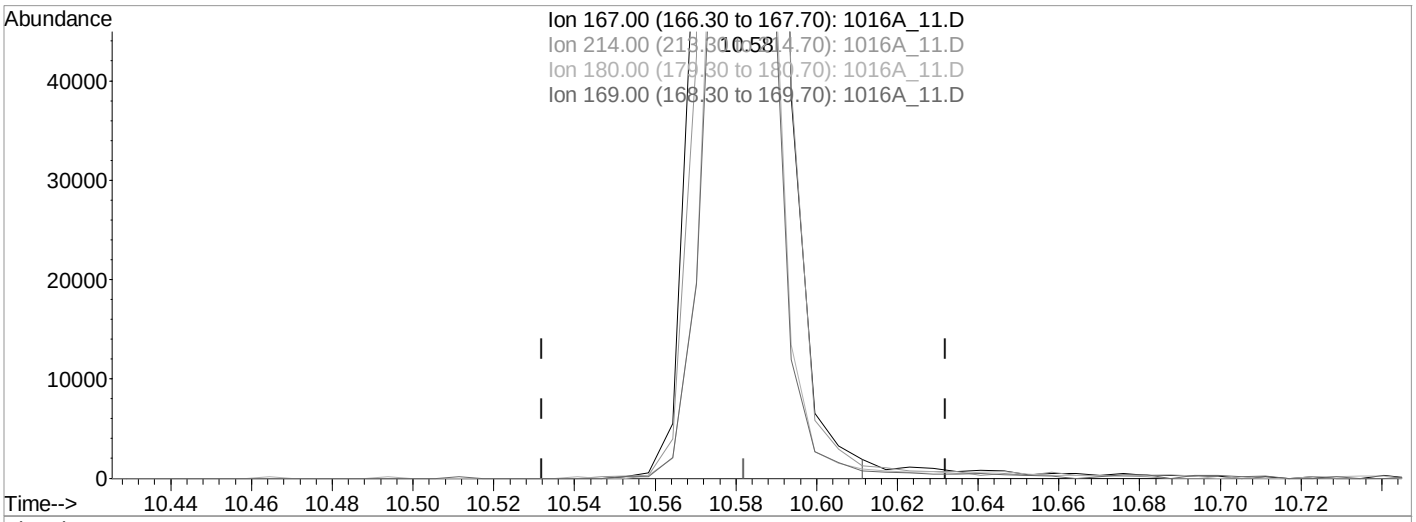
response 157857

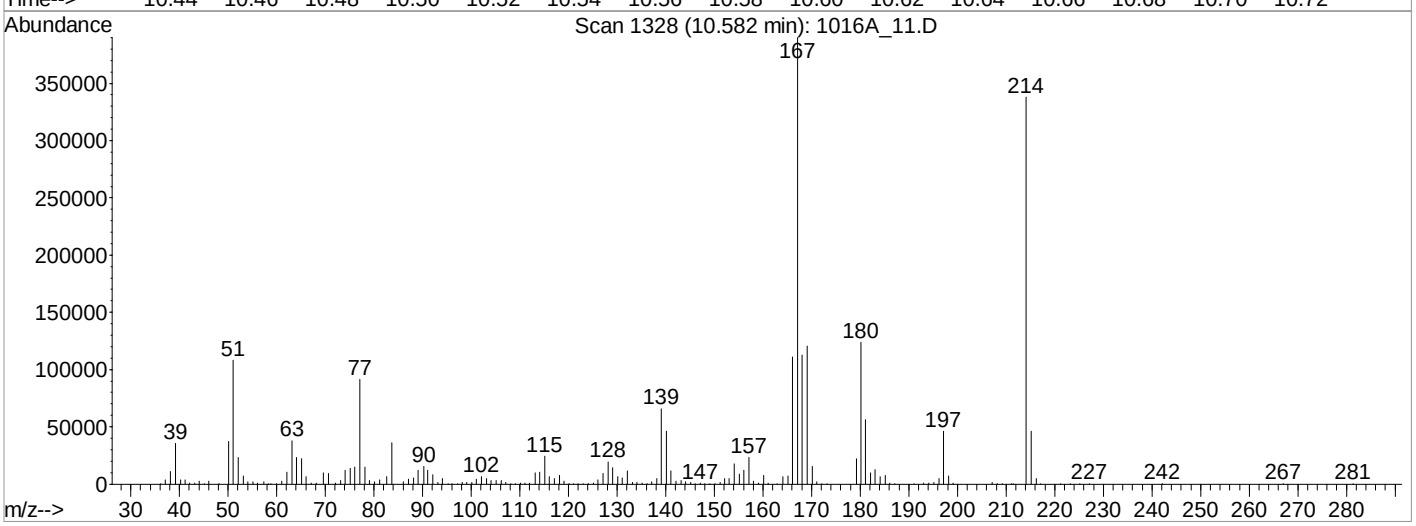
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(76) 2-nitrodiphenylamine (MT)

10.58min (0.000) 9992.4095545 ppb

Qvalue = 100

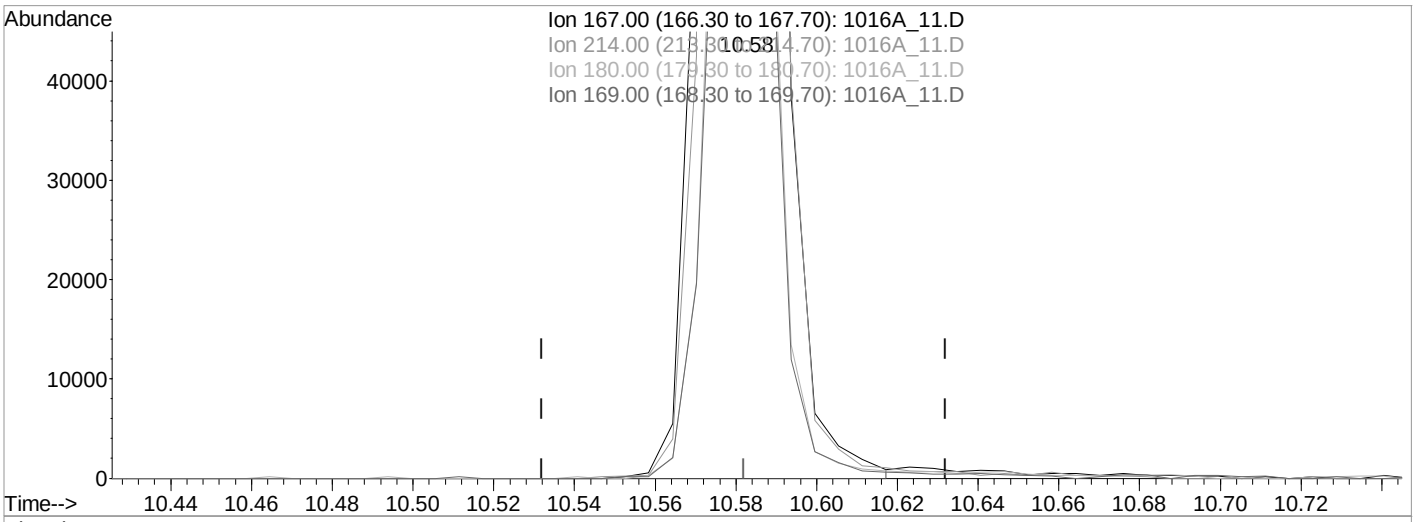
response 339643

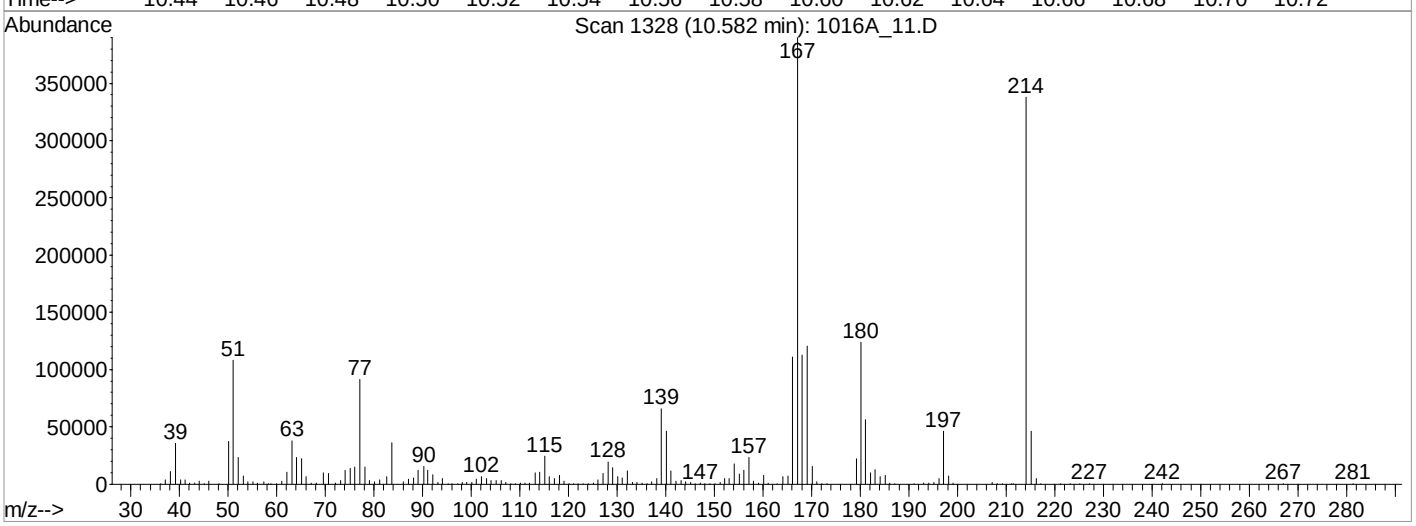
Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.89#
180.00	0.00	32.43#
169.00	0.00	31.14#

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 11.D Vial: 15
Acq On : 16 Oct 2014 7:55 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:55 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:53:44 2014
Response via : Single Level Calibration





TIC: 1016A_11.D

(76) 2-nitrodiphenylamine (MT)

10.58min (0.000) 10000.0000000 ppb m

response 339901

Ion	Exp%	Act%
167.00	100	100
214.00	0.00	86.83#
180.00	0.00	32.41#
169.00	0.00	31.11#

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	209637	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	917583	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	589947	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1019817	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1143511	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1257652	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 63		Recovery =	0.00%#
23) Nitrobenzene-d5		0.00	82	0d	0.0000000 ppb
Spiked Amount	10.000	Range 28 - 123		Recovery =	0.00%#
44) 2-Fluorobiphenyl		0.00	172	0d	0.0000000 ppb
Spiked Amount	10.000	Range 35 - 133		Recovery =	0.00%#
67) 2,4,6-Tribromophenol		0.00	330	0	0.0000000 ppb
Spiked Amount	20.000	Range 22 - 154		Recovery =	0.00%#
81) p-Terphenyl-d14		0.00	244	0	0.0000000 ppb
Spiked Amount	10.000	Range 30 - 148		Recovery =	0.00%#

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	4529	203.5077028 ppb #	82
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	10713	192.8468867 ppb #	81
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
30) Benzoic Acid	6.05	105	158	9.2756218 ppb	75
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	2098	165.5214291 ppb #	65
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

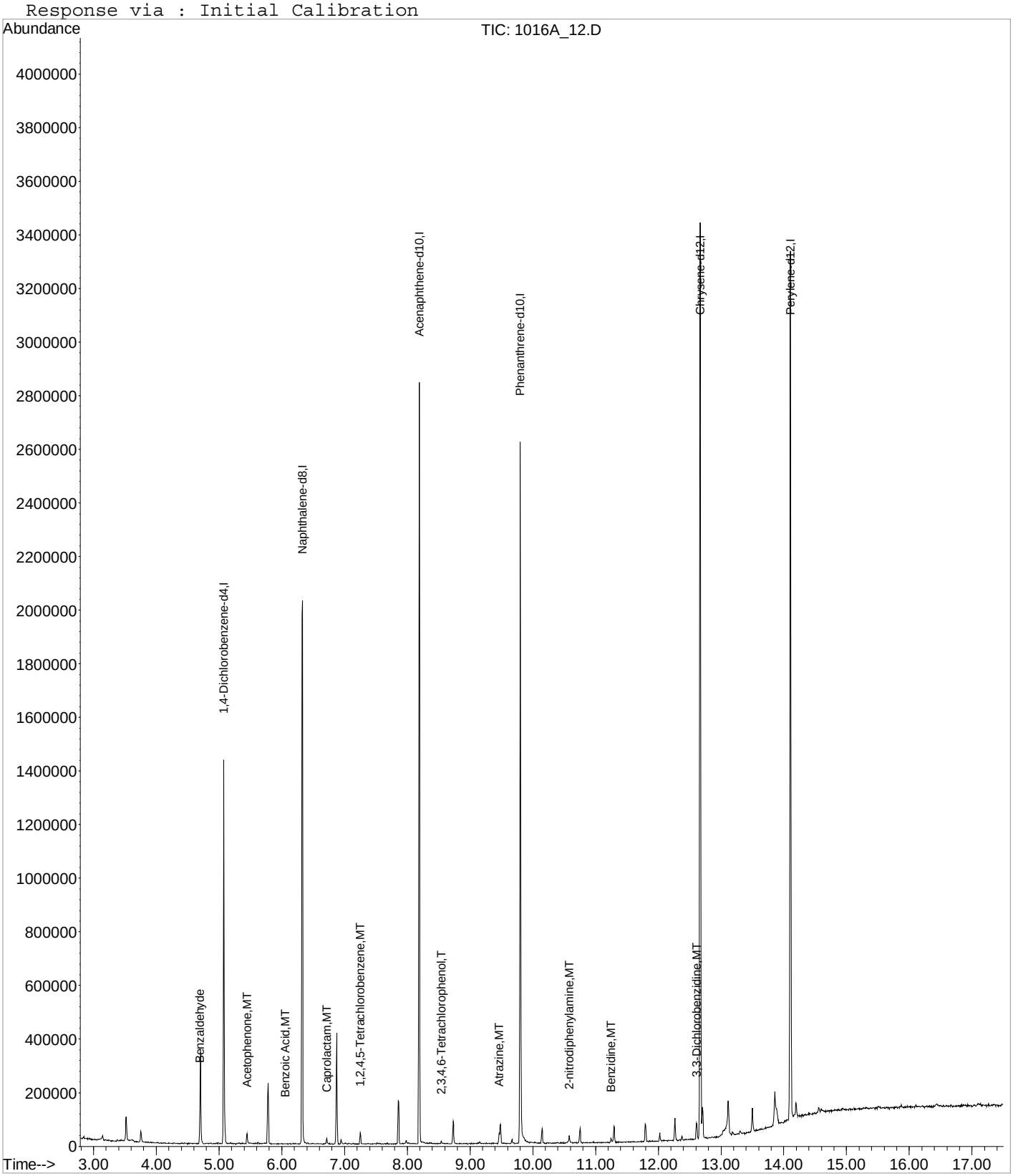
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	6983	184.0206937 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D. d		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	1587	93.4187885 ppb		96
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D. d		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	4146	169.5203614 ppb		99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D.		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	4565	124.1413787 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	7829	78.6671767 ppb		98
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	11148	161.5557789 ppb		92
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 12.D Vial: 16
Acq On : 16 Oct 2014 8:17 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:57 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:56:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	199877	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	873307	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	554359	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	919426	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1003977	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1134339	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery	= 0.00%#	

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	18776	884.8847725 ppb	94
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	50160	947.0309417 ppb #	92
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.03	105	3382	208.6113665 ppb	86
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	10821	897.0043682 ppb #	81
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

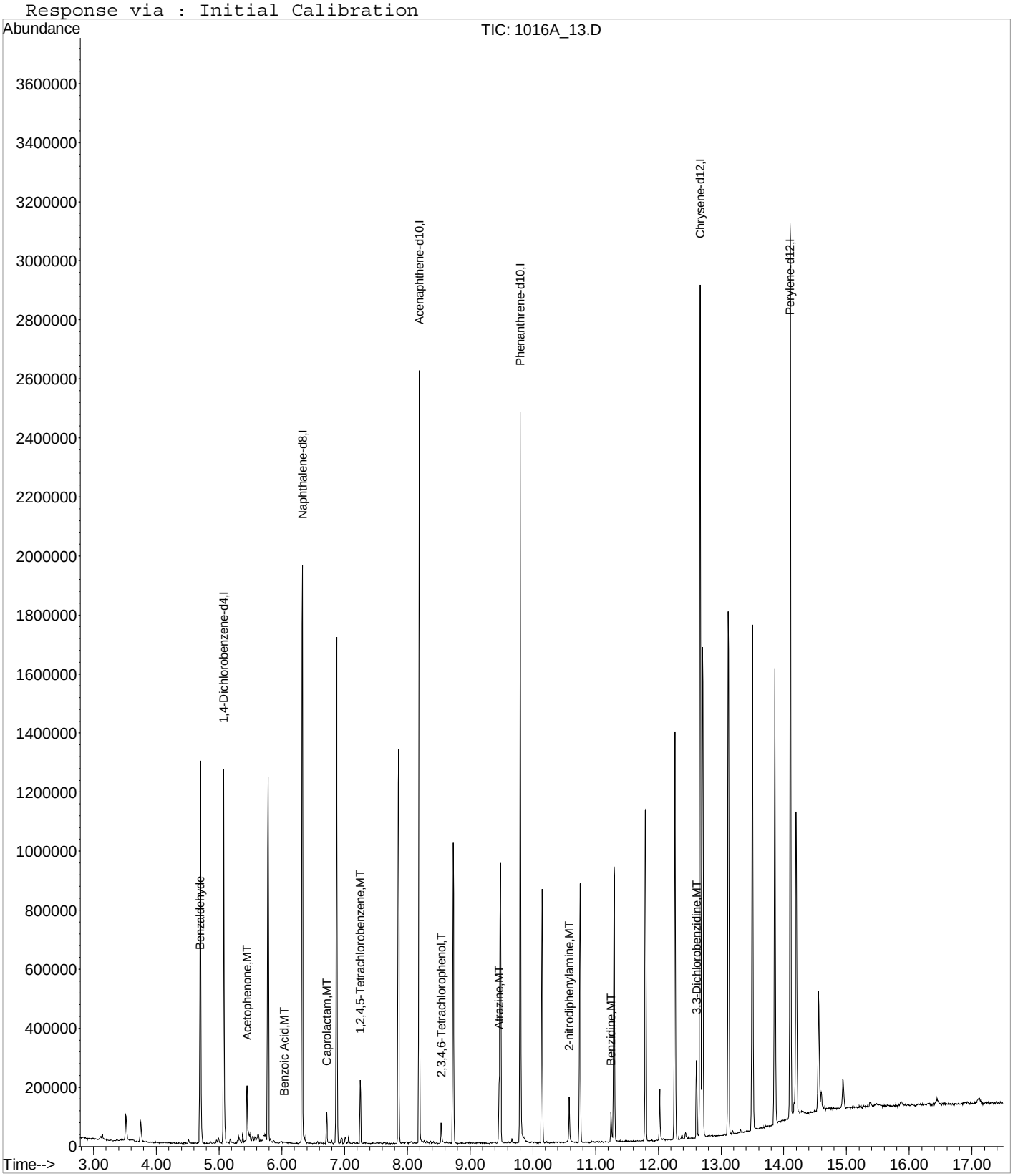
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	36175	1001.6398137 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. d		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	10158m	636.3373378 ppb		
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D.		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.46	200	20385	887.0031904 ppb		95
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	23214	700.2147080 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	49741	569.2700897 ppb		98
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	56823	937.9210417 ppb		97
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: S804J16N.RES

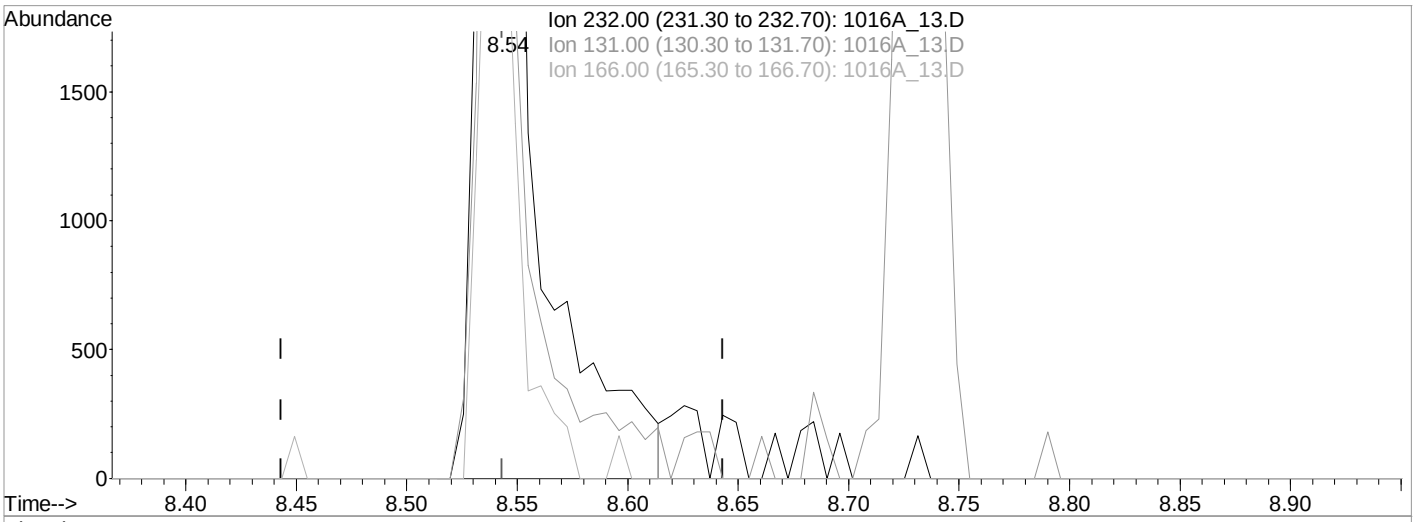
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Initial Calibration

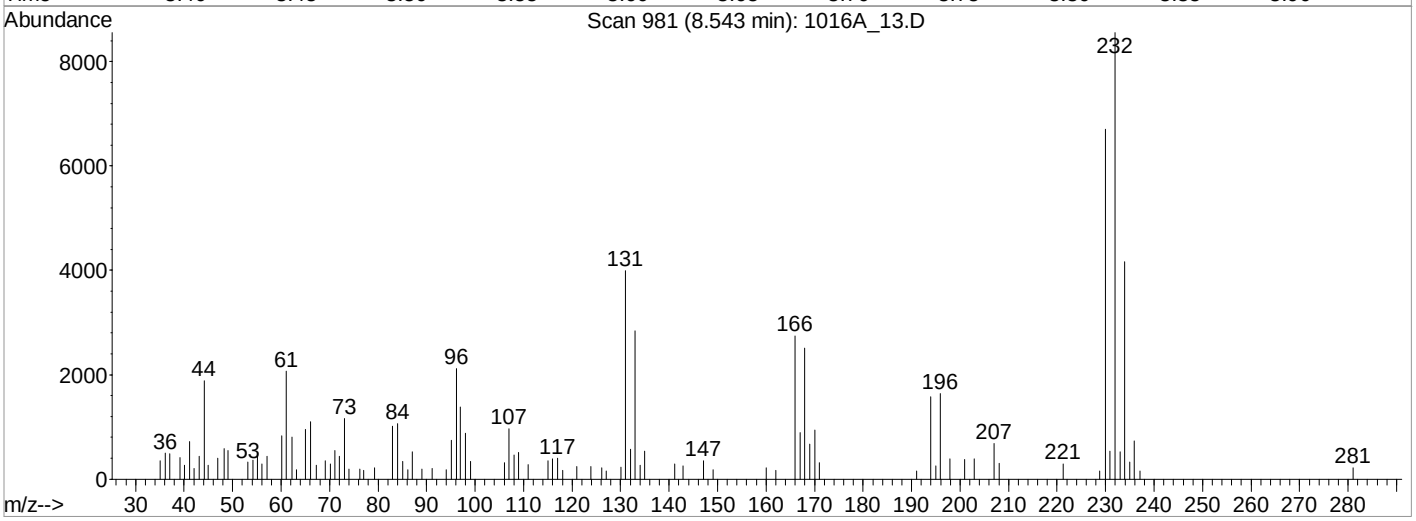


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:58 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Single Level Calibration





TIC: 1016A_13.D

(56) 2,3,4,6-Tetrachlorophenol (T)

8.54min (+0.000) 619.0476050 ppb

Qvalue = 98

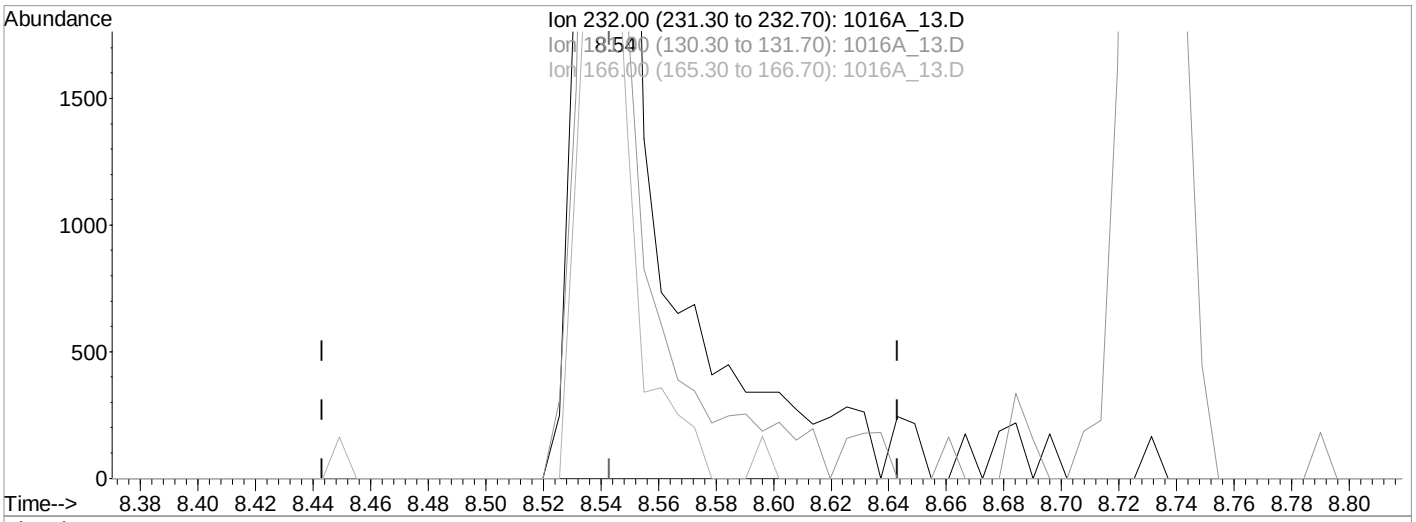
response 9882

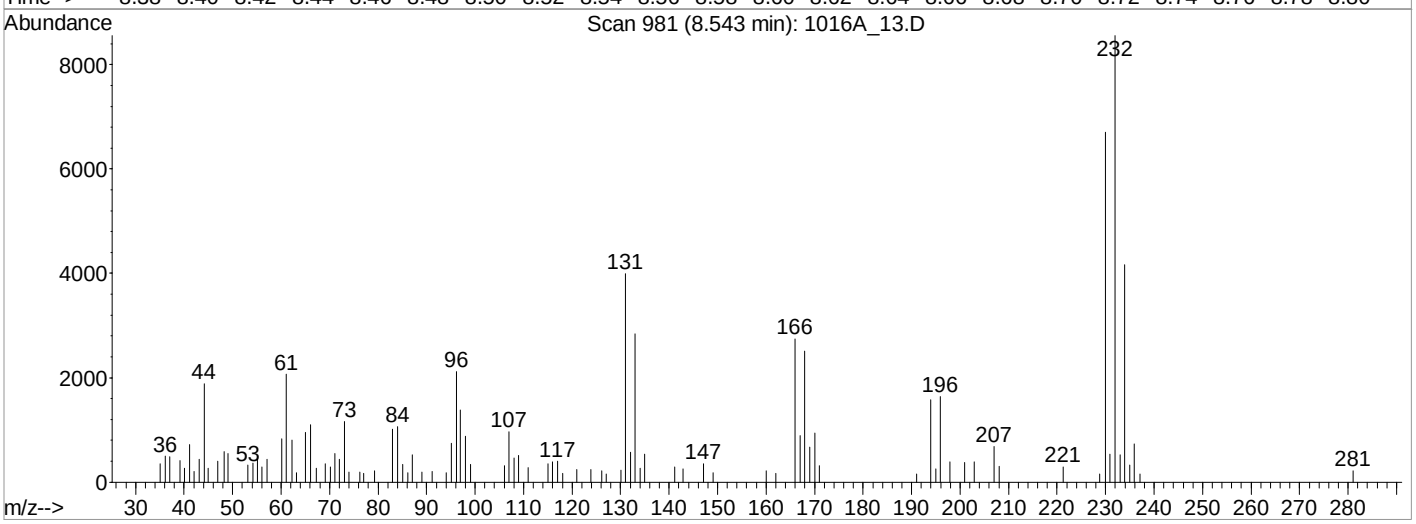
Ion	Exp%	Act%
232.00	100	100
131.00	46.90	46.65
166.00	29.20	32.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 13.D Vial: 17
Acq On : 16 Oct 2014 8:39 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 8:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:58:02 2014
Response via : Single Level Calibration





TIC: 1016A_13.D

(56) 2,3,4,6-Tetrachlorophenol (T)

8.54min (+0.000) 636.3373378 ppb m

response 10158

Ion	Exp%	Act%
232.00	100	100
131.00	46.90	46.65
166.00	29.20	32.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208854	8000.00 ppb	0.00
22) Naphthalene-d8	6.32	136	920461	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	592768	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1017835	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1166590	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1308304	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery	= 0.00%#	

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	37704	1700.5566220 ppb	94
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	102996	1861.0027910 ppb #	94
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.04	105	12176	712.5749538 ppb	87
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.72	113	22685	1784.1340989 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

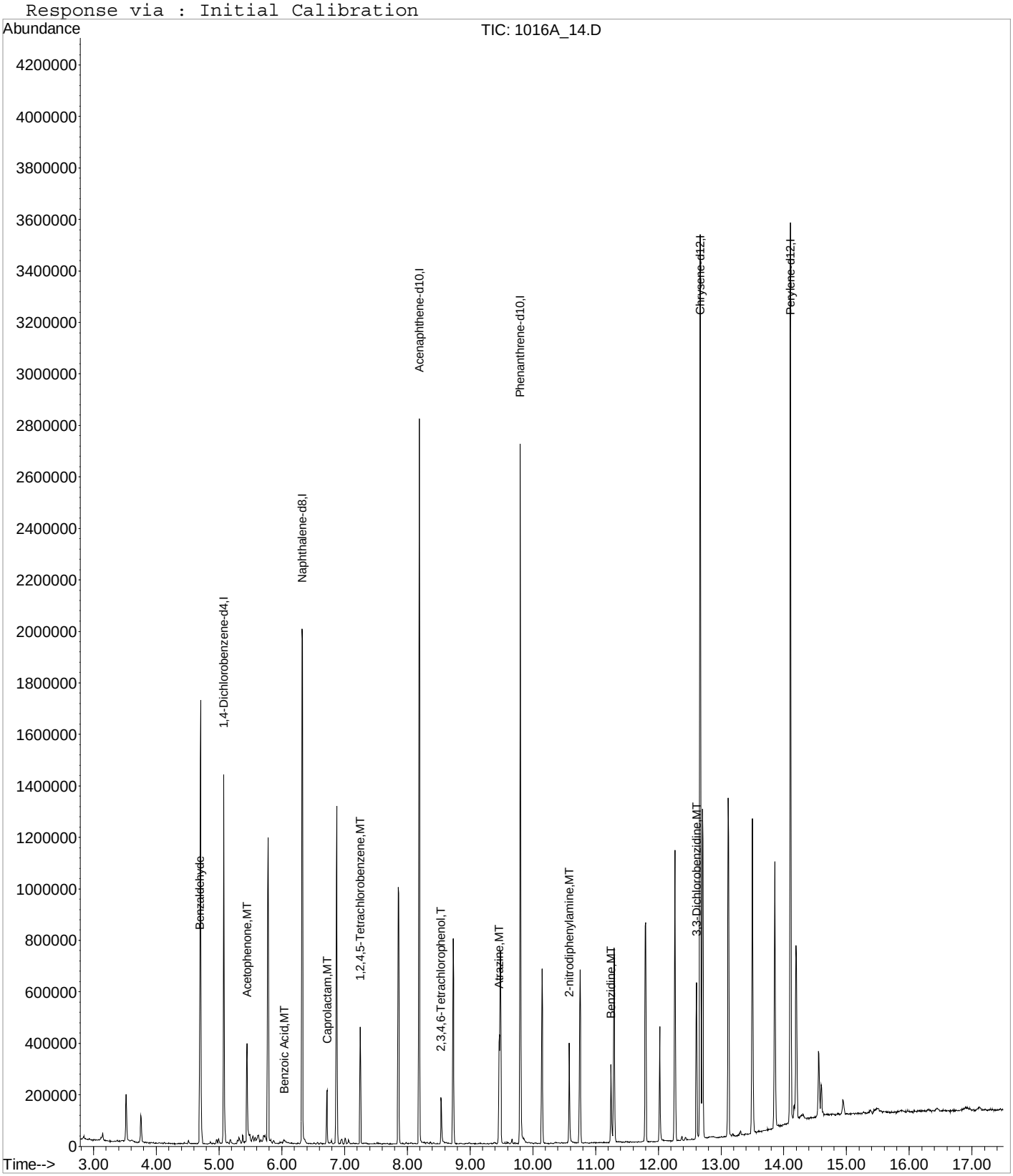
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	74238	1950.2525364 ppb		98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	25470	1492.1569126 ppb		97
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	43828	1783.4973613 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	54582	1487.2024558 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	135881	1338.3450670 ppb		99
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	129299	1836.7193475 ppb		98
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 14.D Vial: 18
Acq On : 16 Oct 2014 9:00 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:00 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:59:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	194934	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	843615	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	527943	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	900226	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	999440	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1146673	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 63		Recovery =	0.00%#
23) Nitrobenzene-d5		0.00	82	0d	0.0000000 ppb
Spiked Amount	10.000	Range 28 - 123		Recovery =	0.00%#
44) 2-Fluorobiphenyl		0.00	172	0d	0.0000000 ppb
Spiked Amount	10.000	Range 35 - 133		Recovery =	0.00%#
67) 2,4,6-Tribromophenol		0.00	330	0	0.0000000 ppb
Spiked Amount	20.000	Range 22 - 154		Recovery =	0.00%#
81) p-Terphenyl-d14		0.00	244	0	0.0000000 ppb
Spiked Amount	10.000	Range 30 - 148		Recovery =	0.00%#

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	81444	3935.6635825 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D. d	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	239908	4644.3677314 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.03	105	42816	2733.9659703 ppb	86
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.73	113	52354	4492.6199126 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

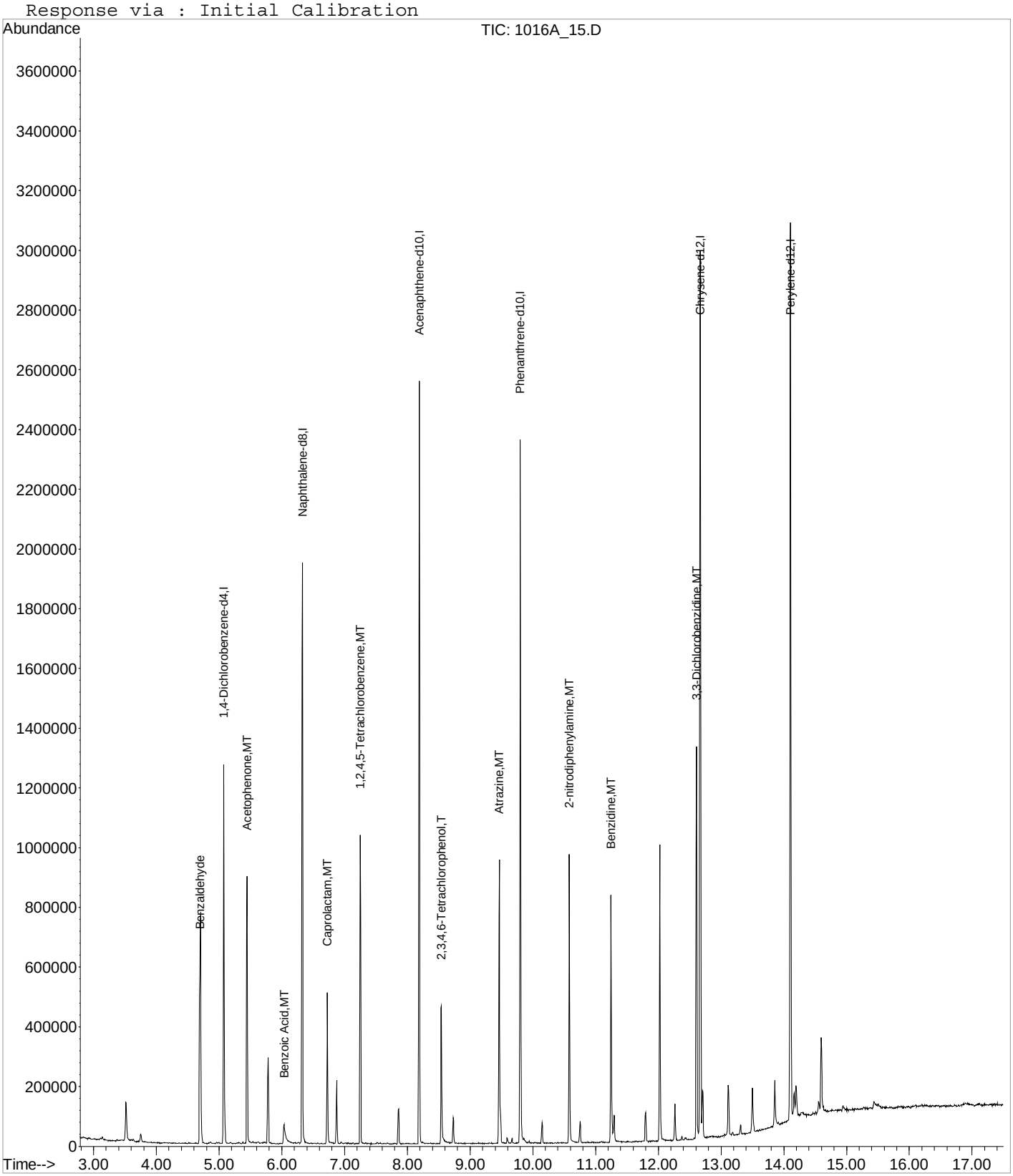
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.25	216	169116	4847.4170384 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	62547	4114.2412009 ppb		97
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	101334	4629.9224731 ppb		98
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	131591	4053.8965783 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	337340	3878.2761646 ppb		100
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	275380	4566.0593550 ppb		99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 15.D Vial: 19
Acq On : 16 Oct 2014 9:22 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:02 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:01:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	217520	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	950535	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	618603	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1064878	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1181708	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1364891	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery =	0.00%#	
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery =	0.00%#	
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery =	0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery =	0.00%#	
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery =	0.00%#	
81) p-Terphenyl-d14	0.00	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery =	0.00%#	

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	351604	15226.5348218 ppb	99
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D. d	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	1028718	17847.0568735 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.08	105	357307	20249.0530300 ppb	88
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.76	113	240734	18334.2615040 ppb	96
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

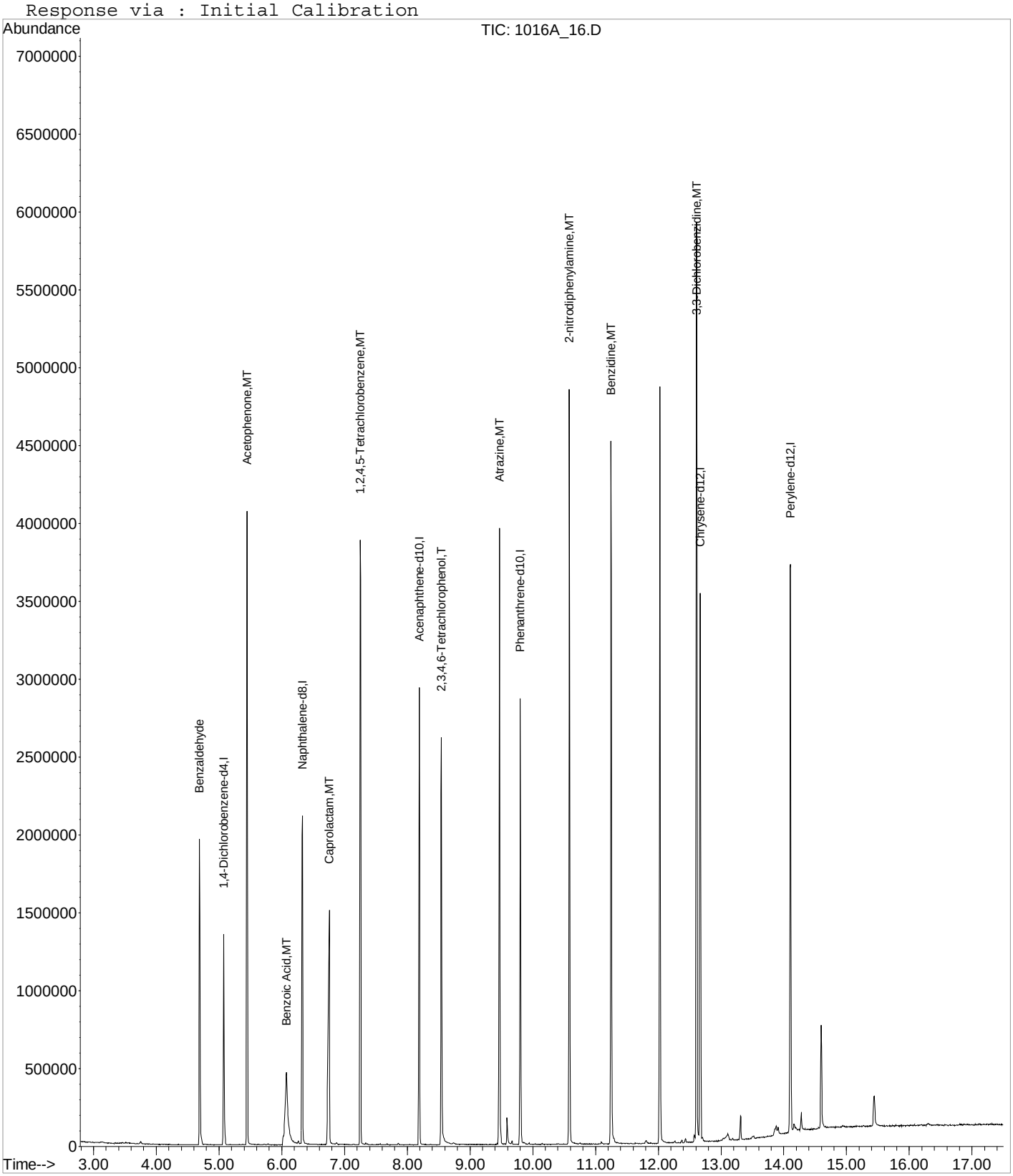
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	700944	17831.3896385 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D. d		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. d		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	324597	18222.2827293 ppb		95
57)	4-Nitrophenol	0.00	139	0	N.D. d		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	460670	17963.1905884 ppb		99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.58	167	680022	17710.1050792 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	1810784	17606.9483520 ppb		100
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	1246291	17477.3332476 ppb		98
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 16.D Vial: 20
Acq On : 16 Oct 2014 9:44 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:03 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:03:01 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	217403	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	946382	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	601490	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1042538	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1202165	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1320139	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0d	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	751919	32580.0685487 ppb	99
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	1606600	27887.6354796 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D. d	
30) Benzoic Acid	6.09	105	689494	39245.9933382 ppb	90
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.77	113	402022	30752.2892215 ppb	95
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

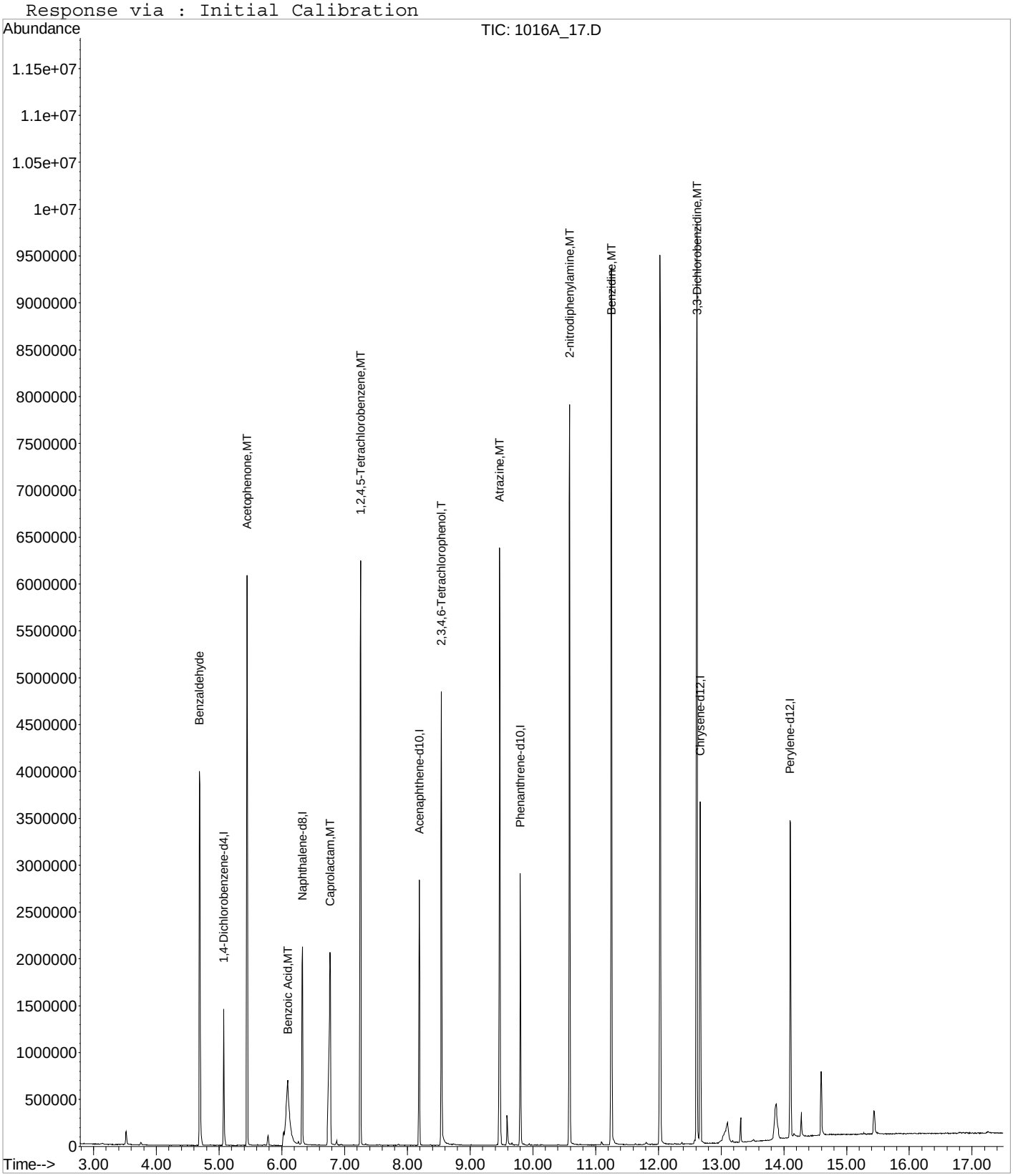
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1108222	28315.8938822 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D. d		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	548255	31653.7006209 ppb		94
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.47	200	754239	30247.2671697 ppb		99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.59	167	1202822	31996.8701390 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	3618198	34582.4587054 ppb		99
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	2184838	30117.6474357 ppb		99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 17.D Vial: 21
Acq On : 16 Oct 2014 10:06 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:05 2014 Quant Results File: S804J16N.RES

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:04:24 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	216234	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	930031	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	593235	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	1014978	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1141682	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1340588	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 63		Recovery =	0.00%#
23) Nitrobenzene-d5		0.00	82	0d	0.0000000 ppb
Spiked Amount	10.000	Range 28 - 123		Recovery =	0.00%#
44) 2-Fluorobiphenyl		0.00	172	0d	0.0000000 ppb
Spiked Amount	10.000	Range 35 - 133		Recovery =	0.00%#
67) 2,4,6-Tribromophenol		0.00	330	0	0.0000000 ppb
Spiked Amount	20.000	Range 22 - 154		Recovery =	0.00%#
81) p-Terphenyl-d14		0.00	244	0d	0.0000000 ppb
Spiked Amount	10.000	Range 30 - 148		Recovery =	0.00%#

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	999721	43551.3177541 ppb	99
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	2116013	36928.6824072 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.11	105	999727m	57904.8982272 ppb	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.78	113	525479	40902.7061507 ppb	93
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

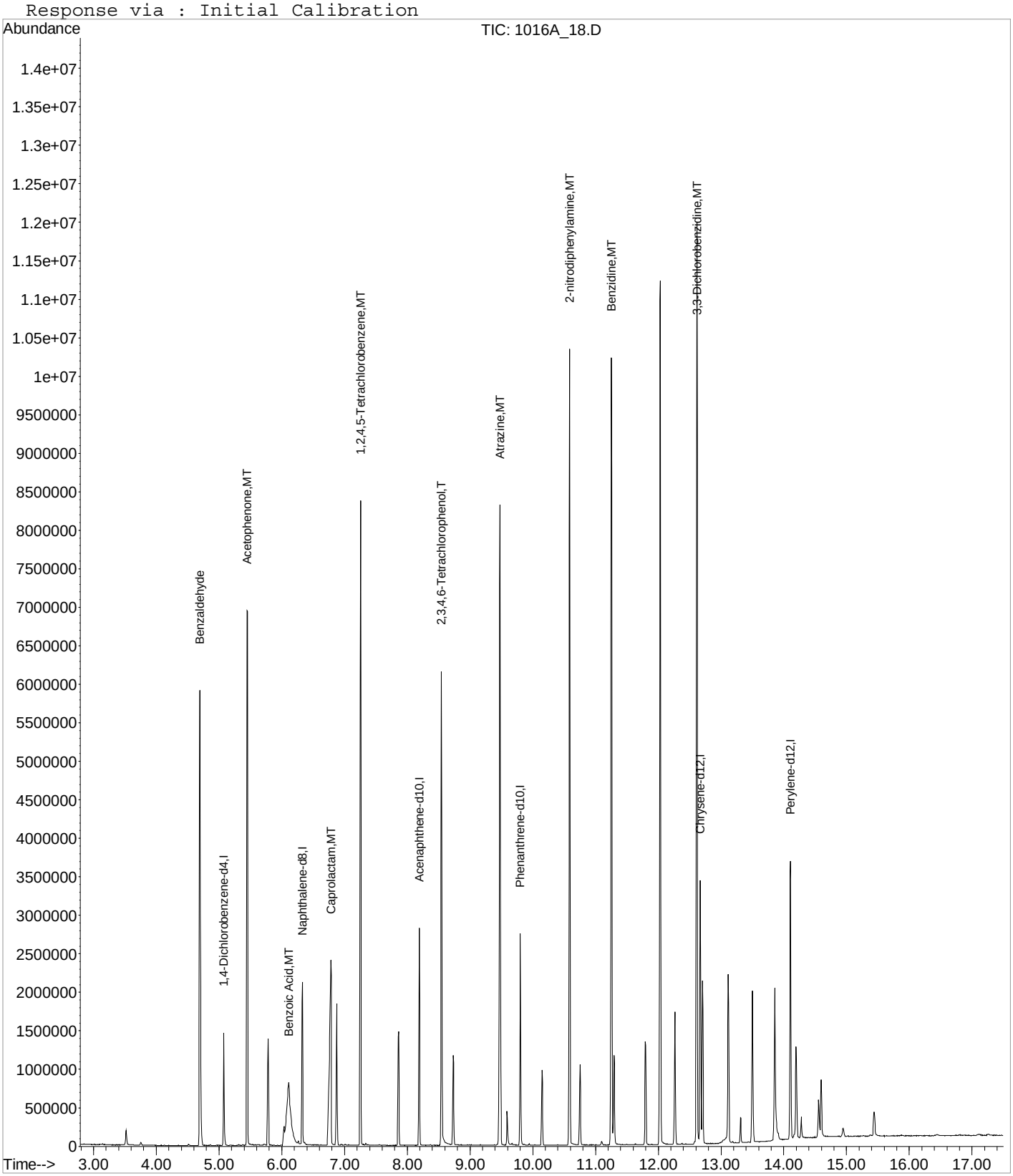
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1445591	37585.2974107 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D. d		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D. d		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. d		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	714523	41827.2919796 ppb		89
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.48	200	961260	39085.8601465 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.59	167	1549514	42338.6401625 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.25	184	4492579	45214.5472337 ppb		100
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.61	252	2745993	39858.4270463 ppb		99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: S804J16N.RES

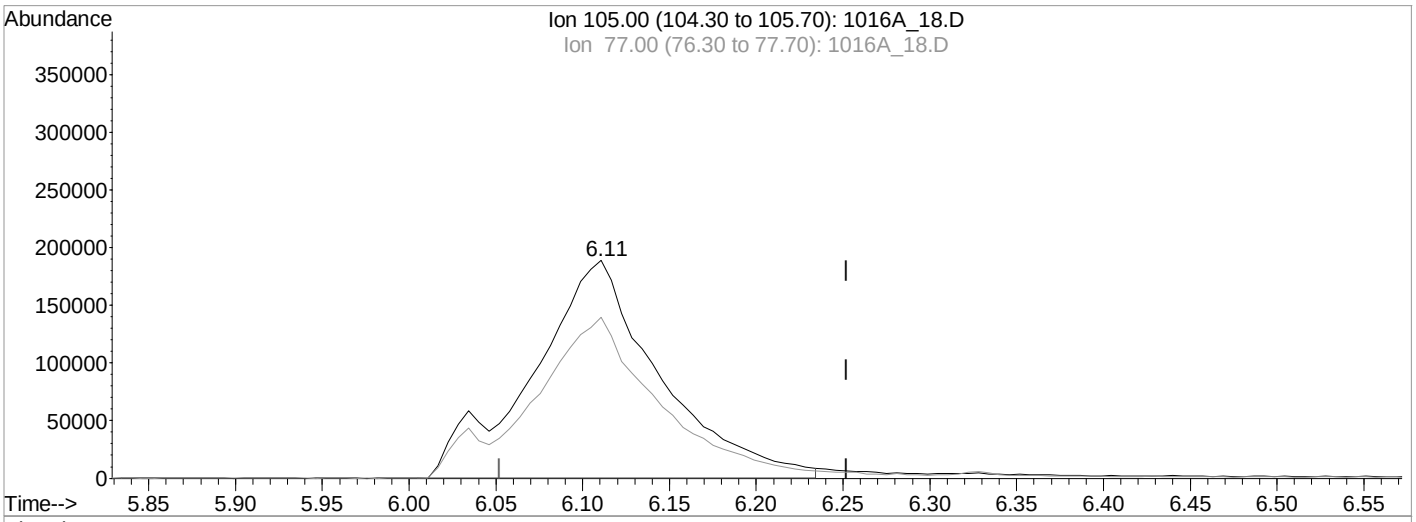
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Initial Calibration

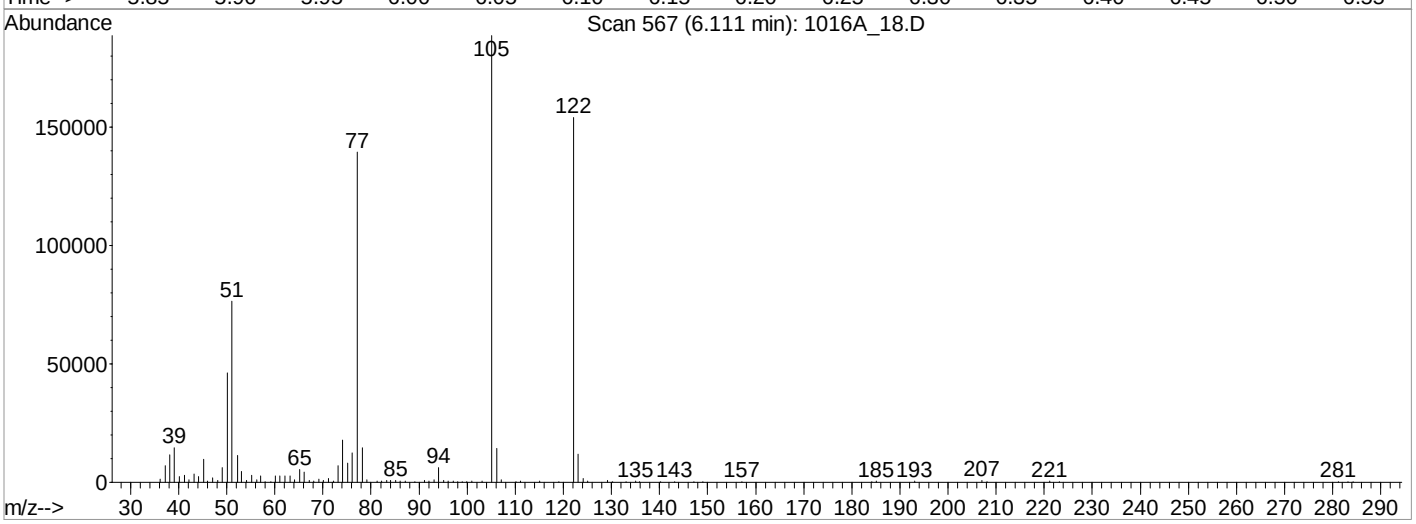


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Single Level Calibration





TIC: 1016A_18.D

(30) Benzoic Acid (MT)

6.11min (+0.059) 55606.0831449 ppb

Qvalue = 90

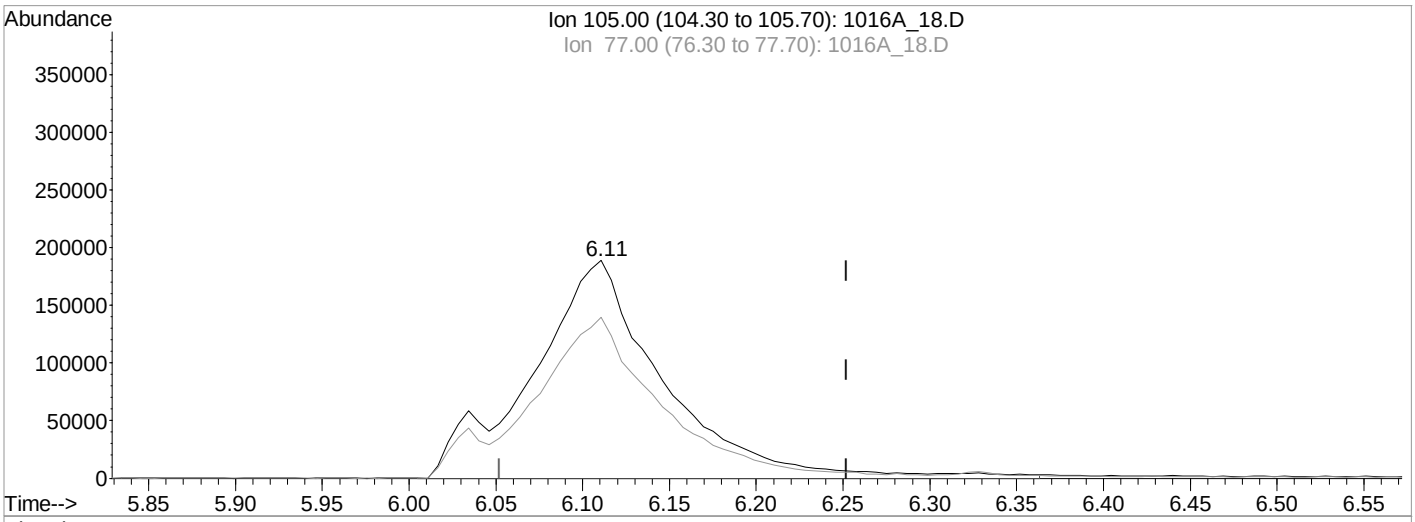
response 960038

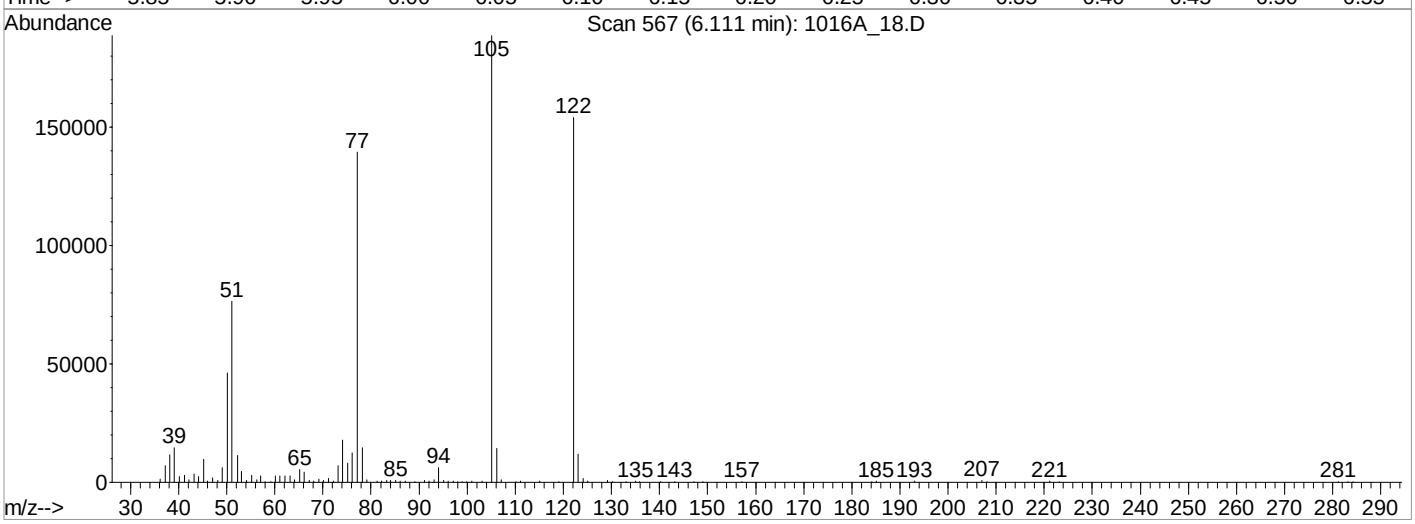
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	74.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 18.D Vial: 22
Acq On : 16 Oct 2014 10:27 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:05:52 2014
Response via : Single Level Calibration





TIC: 1016A_18.D

(30) Benzoic Acid (MT)

6.11min (+0.059) 57904.8982272 ppb m

response 999727

Ion	Exp%	Act%
105.00	100	100
77.00	65.90	71.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.08	152	208296	8000.00 ppb	0.00
22) Naphthalene-d8	6.33	136	899852	8000.00 ppb	0.00
40) Acenaphthene-d10	8.19	164	568452	8000.00 ppb	0.00
64) Phenanthrene-d10	9.80	188	990081	8000.00 ppb	0.00
78) Chrysene-d12	12.67	240	1092030	8000.00 ppb	0.00
88) Perylene-d12	14.11	264	1243772	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0d	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 63		Recovery =	0.00%#
23) Nitrobenzene-d5		0.00	82	0d	0.0000000 ppb
Spiked Amount	10.000	Range 28 - 123		Recovery =	0.00%#
44) 2-Fluorobiphenyl		0.00	172	0d	0.0000000 ppb
Spiked Amount	10.000	Range 35 - 133		Recovery =	0.00%#
67) 2,4,6-Tribromophenol		0.00	330	0	0.0000000 ppb
Spiked Amount	20.000	Range 22 - 154		Recovery =	0.00%#
81) p-Terphenyl-d14		0.00	244	0d	0.0000000 ppb
Spiked Amount	10.000	Range 30 - 148		Recovery =	0.00%#

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	4.69	105	1146456	51846.9160560 ppb	99
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.45	105	2529996	45836.1748757 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.12	105	1244094m	74475.4979009 ppb	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	6.79	113	616233	49575.5986846 ppb	93
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	0.00	142	0	N.D. d	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 08:40:46 2014
Response via : Initial Calibration
DataAcq Meth : BNA4

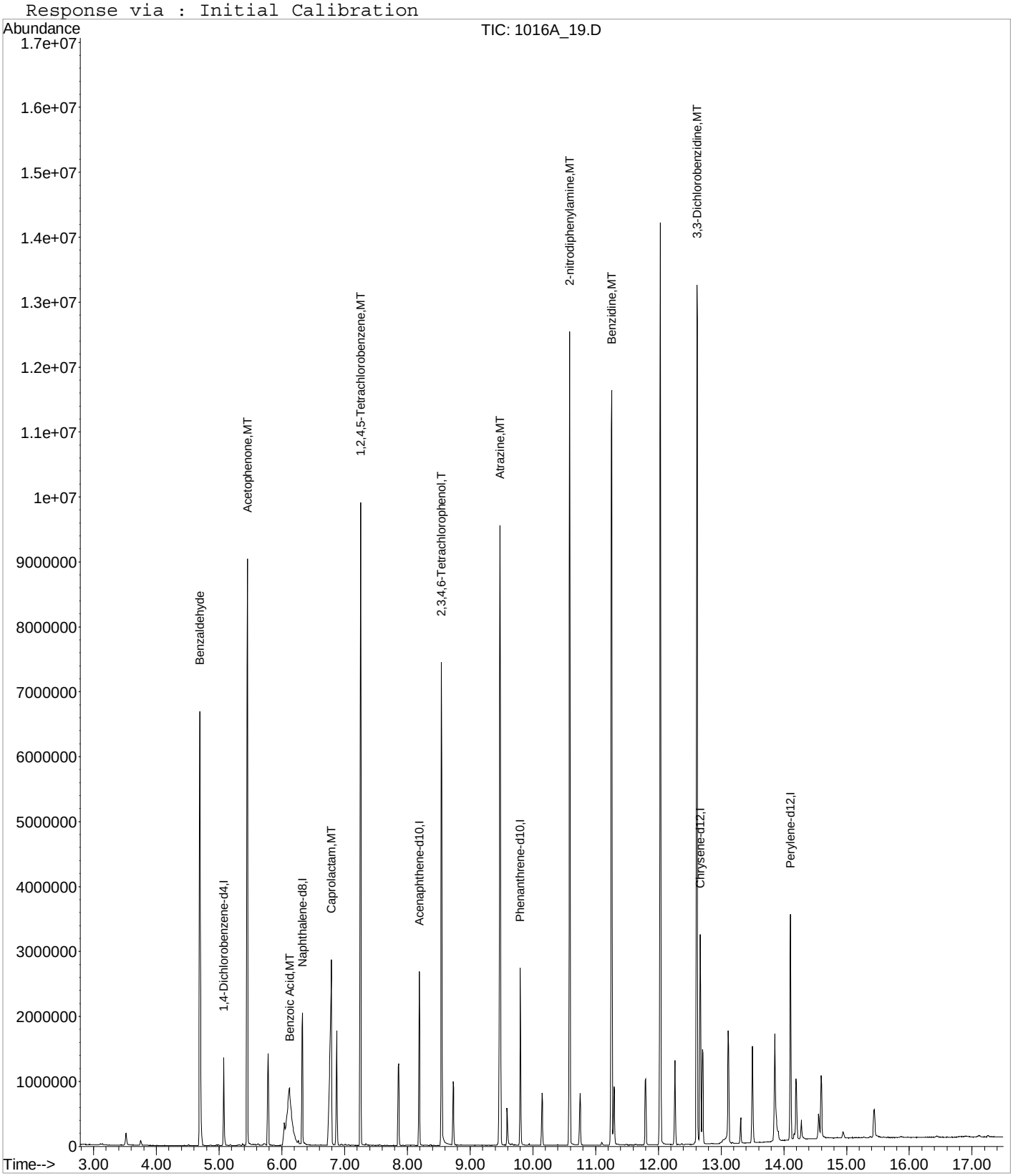
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.26	216	1717135	46142.7351810 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D. d		
45)	Biphenyl	0.00	154	0	N.D. d		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D. d		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D. d		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. d		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D. d		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D. d		
56)	2,3,4,6-Tetrachlorophenol	8.54	232	864975	52842.0986465 ppb		87
57)	4-Nitrophenol	0.00	139	0	N.D. d		
58)	Fluorene	0.00	166	0	N.D. d		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.48	200	1181010	50114.7242350 ppb		97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D. d		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D. d		
69)	Hexachlorobenzene	0.00	284	0	N.D. d		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	10.59	167	1902594	53293.3997452 ppb	#	100
77)	Fluoranthene	0.00	202	0	N.D. d		
79)	Benzidine	11.26	184	5234384	55075.5227439 ppb		100
80)	Pyrene	0.00	202	0	N.D. d		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	12.62	252	3194826	48481.7764609 ppb		99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: S804J16N.RES

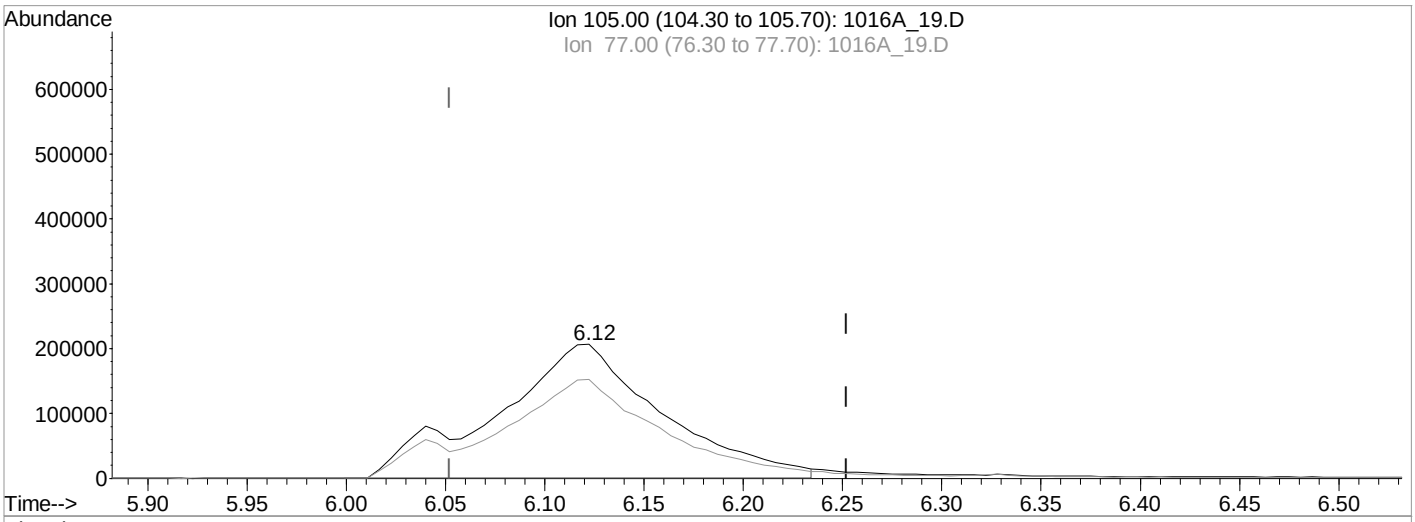
Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Initial Calibration

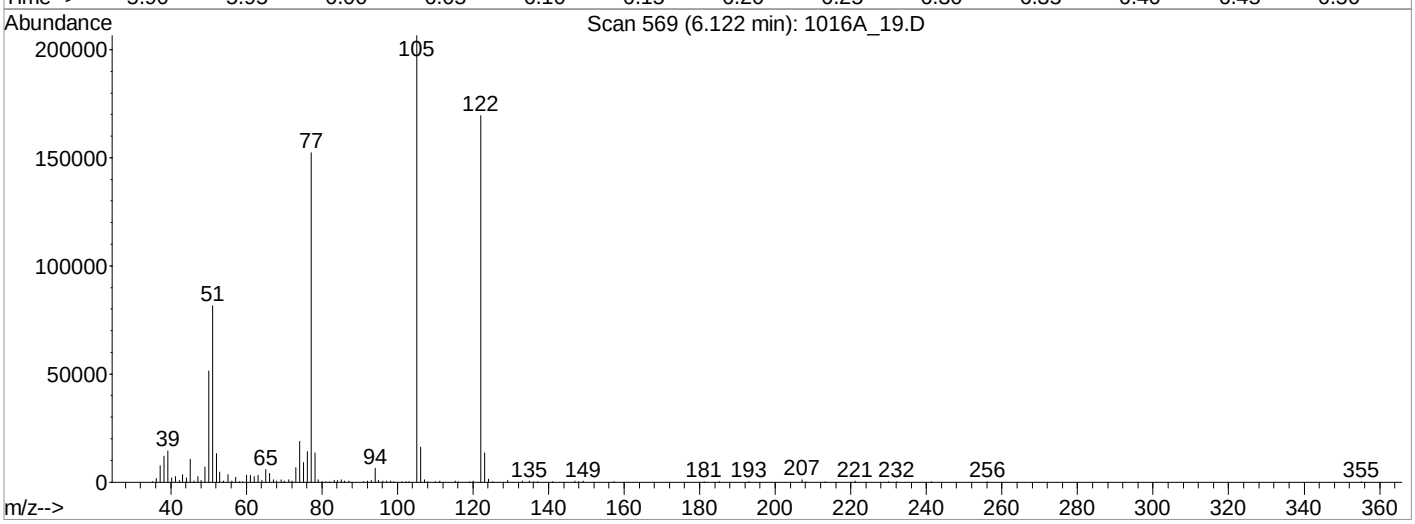


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Single Level Calibration





TIC: 1016A_19.D

(30) Benzoic Acid (MT)

6.12min (+0.071) 71974.8906331 ppb

Qvalue = 91

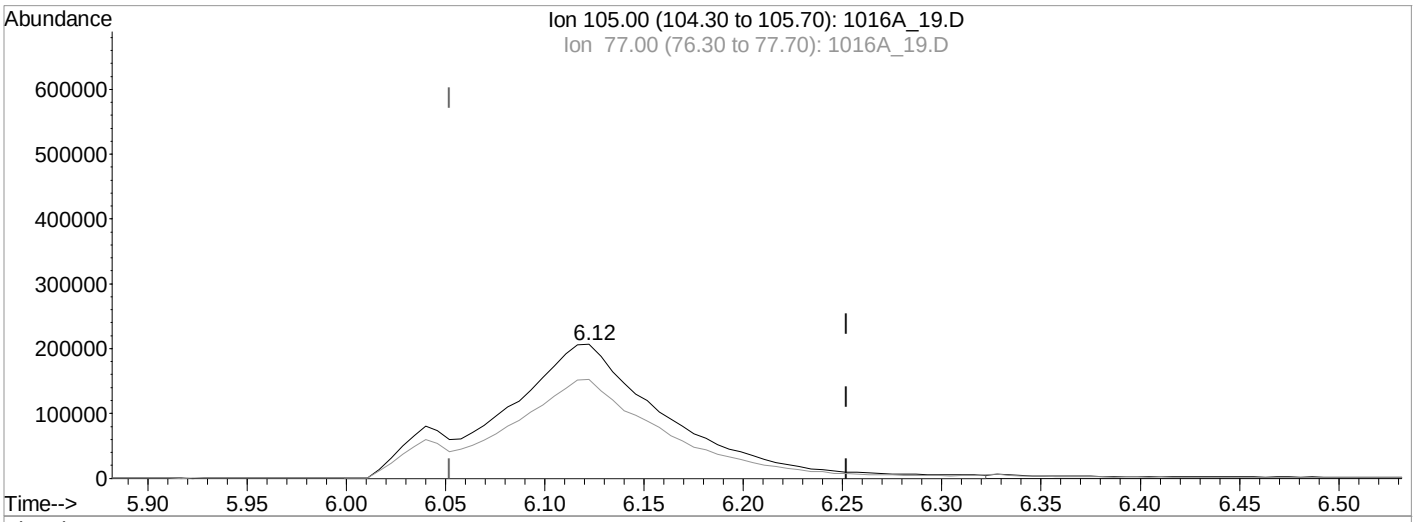
response 1202322

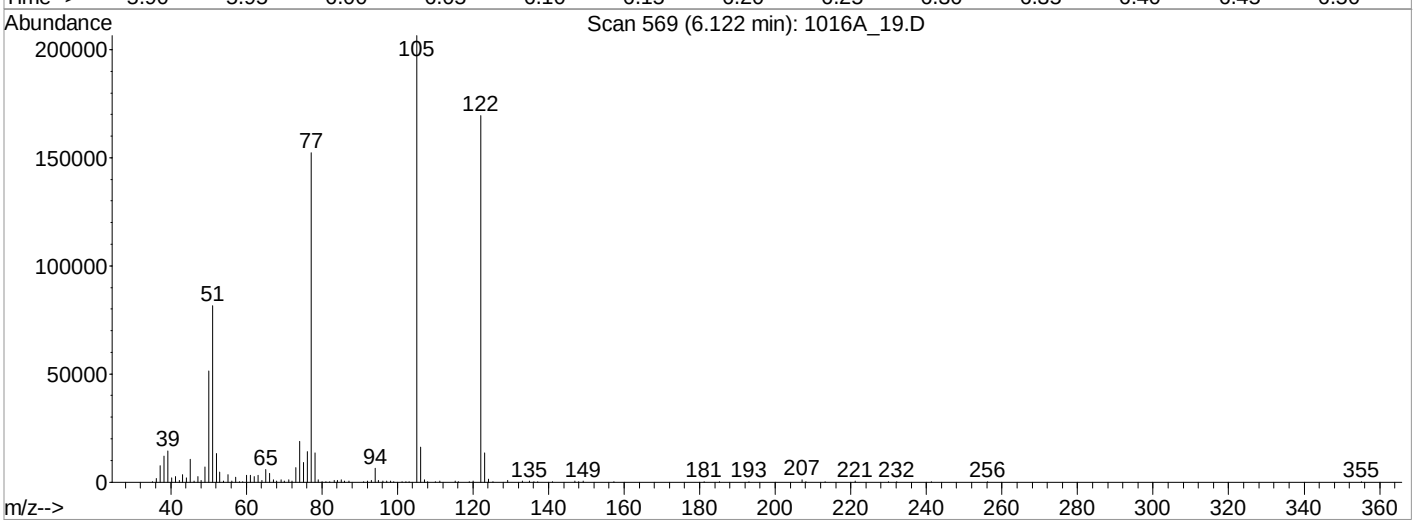
Ion	Exp%	Act%
105.00	100	100
77.00	65.90	72.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\101614A\1016A 19.D Vial: 23
Acq On : 16 Oct 2014 10:49 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G09882 Inst : BNAMS4
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 9:08 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S804J16N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Fri Oct 17 09:07:21 2014
Response via : Single Level Calibration





TIC: 1016A_19.D

(30) Benzoic Acid (MT)

6.12min (+0.071) 74475.4979009 ppb m

response 1244094

Ion	Exp%	Act%
105.00	100	100
77.00	65.90	70.50
0.00	0.00	0.00
0.00	0.00	0.00

Semi-Volatiles by Method 8270C-SIM

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802

Semi-Volatiles by Method 8270C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0053AA

Login No: L729802

Lab SampleID.	Client ID
L729802-01	TU515-SB02-NS01
L729802-02	TU515-TRIPBLANK01-NT01
L729802-03	TU515-SB08-NS01
L729802-04	TU515-SB10-NS01
L729802-05	TU515-SB10-NS02
L729802-06	H-TU904-GW01-DT01
L729802-07	H-TU904-GW01-NT01
L729802-08	H-TU904-GW07-NT01
L729802-09	H-TU904-GW03-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Workgroup: **WG751305**
Description: **PAHs by SIM by Method 8270C-SIM (SS)**

Sample Name	Collect Date	Prep Date	Analysis Date
L729802-01 1x	10/23/2014	10/29/2014	10/30/2014
L729802-03 1x	10/23/2014	10/29/2014	10/30/2014
L729802-04 1x	10/23/2014	10/29/2014	10/30/2014
L729802-05 1x	10/23/2014	10/29/2014	10/30/2014

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGCMS7	LCS WG751305	LCS WG751305	1029B_06.D	10/30/2014	1:53 AM
SVGCMS7	LCSD WG751305	LCSD WG751305	1029B_07.D	10/30/2014	2:16 AM
SVGCMS7	Blank WG751305	Blank WG751305	1029B_08.D	10/30/2014	2:39 AM
SVGCMS7	MS WG751305	MS WG751305	1029B_13.D	10/30/2014	4:33 AM
SVGCMS7	MSD WG751305	MSD WG751305	1029B_14.D	10/30/2014	4:56 AM
SVGCMS7	TU515-SB02-NS01	L729802-01	1029B_15.D	10/30/2014	5:19 AM
SVGCMS7	TU515-SB08-NS01	L729802-03	1029B_16.D	10/30/2014	5:42 AM
SVGCMS7	TU515-SB10-NS01	L729802-04	1029B_17.D	10/30/2014	6:05 AM
SVGCMS7	TU515-SB10-NS02	L729802-05	1029B_18.D	10/30/2014	6:28 AM

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
2-Methylnaphthalene	91-57-6	< 20.0	< 0.641	
Acenaphthene	83-32-9	< 6.00	< 0.600	
Acenaphthylene	208-96-8	< 6.00	< 0.600	
Anthracene	120-12-7	< 6.00	< 0.600	
Benzo(a)anthracene	56-55-3	< 6.00	< 0.600	
Benzo(a)pyrene	50-32-8	< 6.00	< 0.600	
Benzo(b)fluoranthene	205-99-2	< 6.00	< 0.600	
Benzo(g,h,i)perylene	191-24-2	< 6.00	< 0.600	
Benzo(k)fluoranthene	207-08-9	< 6.00	< 0.600	
Chrysene	218-01-9	< 6.00	< 0.600	
Dibenz(a,h)anthracene	53-70-3	< 6.00	< 0.600	
Fluoranthene	206-44-0	< 6.00	< 0.600	
Fluorene	86-73-7	< 6.00	< 0.600	
Indeno(1,2,3-cd)pyrene	193-39-5	< 6.00	< 0.600	
Naphthalene	91-20-3	< 20.0	< 0.600	
Phenanthrene	85-01-8	< 6.00	< 0.600	
Pyrene	129-00-0	< 6.00	< 0.600	

Parameters in bold text are reported in this SDG

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	58.302	72.9	45.7 - 131	
Acenaphthene	1	80	62.404	78	48.7 - 127	
Acenaphthylene	1	80	62.899	78.6	47.9 - 128	
Anthracene	1	80	61.435	76.8	51.3 - 136	
Benzo(a)anthracene	1	80	62.704	78.4	55 - 126	
Benzo(a)pyrene	1	80	44.209	55.3	51.9 - 127	
Benzo(b)fluoranthene	1	80	51.255	64.1	54 - 125	
Benzo(g,h,i)perylene	1	80	61.233	76.5	53.8 - 136	
Benzo(k)fluoranthene	1	80	54.466	68.1	53.9 - 132	
Chrysene	1	80	62.004	77.5	55.7 - 133	
Dibenz(a,h)anthracene	1	80	65.560	81.9	52.6 - 137	
Fluoranthene	1	80	57.509	71.9	54 - 132	
Fluorene	1	80	63.116	78.9	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	66.248	82.8	53.8 - 138	
Naphthalene	1	80	52.118	65.1	42 - 127	
Phenanthrene	1	80	59.028	73.8	49.6 - 126	
Pyrene	1	80	61.784	77.2	54 - 129	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	80	60.952	76.2	45.7 - 131	
Acenaphthene	1	80	64.486	80.6	48.7 - 127	
Acenaphthylene	1	80	65.317	81.6	47.9 - 128	
Anthracene	1	80	62.842	78.6	51.3 - 136	
Benzo(a)anthracene	1	80	66.540	83.2	55 - 126	
Benzo(a)pyrene	1	80	51.165	64	51.9 - 127	
Benzo(b)fluoranthene	1	80	55.226	69	54 - 125	
Benzo(g,h,i)perylene	1	80	68.850	86.1	53.8 - 136	
Benzo(k)fluoranthene	1	80	60.253	75.3	53.9 - 132	
Chrysene	1	80	65.383	81.7	55.7 - 133	
Dibenz(a,h)anthracene	1	80	72.303	90.4	52.6 - 137	
Fluoranthene	1	80	58.470	73.1	54 - 132	
Fluorene	1	80	64.956	81.2	48.7 - 127	
Indeno(1,2,3-cd)pyrene	1	80	73.188	91.5	53.8 - 138	
Naphthalene	1	80	54.426	68	42 - 127	
Phenanthrene	1	80	61.064	76.3	49.6 - 126	
Pyrene	1	80	65.911	82.4	54 - 129	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
2-Methylnaphthalene	1	80	58.302	72.9	60.952	76.2	45.7 - 131		4.44	20	
Acenaphthene	1	80	62.404	78	64.486	80.6	48.7 - 127		3.28	20	
Acenaphthylene	1	80	62.899	78.6	65.317	81.6	47.9 - 128		3.77	20	
Anthracene	1	80	61.435	76.8	62.842	78.6	51.3 - 136		2.26	20	
Benzo(a)anthracene	1	80	62.704	78.4	66.540	83.2	55 - 126		5.94	20	
Benzo(a)pyrene	1	80	44.209	55.3	51.165	64	51.9 - 127		14.6	20	
Benzo(b)fluoranthene	1	80	51.255	64.1	55.226	69	54 - 125		7.46	20	
Benzo(g,h,i)perylene	1	80	61.233	76.5	68.850	86.1	53.8 - 136		11.7	20	
Benzo(k)fluoranthene	1	80	54.466	68.1	60.253	75.3	53.9 - 132		10.1	20	
Chrysene	1	80	62.004	77.5	65.383	81.7	55.7 - 133		5.31	20	
Dibenz(a,h)anthracene	1	80	65.560	81.9	72.303	90.4	52.6 - 137		9.78	20	
Fluoranthene	1	80	57.509	71.9	58.470	73.1	54 - 132		1.66	20	
Fluorene	1	80	63.116	78.9	64.956	81.2	48.7 - 127		2.87	20	
Indeno(1,2,3-cd)pyrene	1	80	66.248	82.8	73.188	91.5	53.8 - 138		9.95	20	
Naphthalene	1	80	52.118	65.1	54.426	68	42 - 127		4.33	20	
Phenanthrene	1	80	59.028	73.8	61.064	76.3	49.6 - 126		3.39	20	
Pyrene	1	80	61.784	77.2	65.911	82.4	54 - 129		6.46	20	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Matrix Spike / Matrix Spike Duplicate

L729746-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
2-Methylnaphthalene	1	80	<0.641	59.085	73.9	56.792	71	37.5 - 137		3.96	20.4	
Acenaphthene	1	80	<0.6	59.550	74.4	58.921	73.7	39.4 - 132		1.06	20	
Acenaphthylene	1	80	<0.6	61.348	76.7	60.472	75.6	41.3 - 132		1.44	20	
Anthracene	1	80	<0.6	54.810	68.5	55.306	69.1	36.7 - 144		0.9	20.7	
Benzo(a)anthracene	1	80	<0.6	51.605	64.5	53.598	67	28 - 144		3.79	24.7	
Benzo(a)pyrene	1	80	<0.6	46.290	57.9	49.184	61.5	23.8 - 147		6.06	25.3	
Benzo(b)fluoranthene	1	80	<0.6	38.736	48.4	43.171	54	18.2 - 147		10.8	29.5	
Benzo(g,h,i)perylene	1	80	<0.6	54.593	68.2	56.218	70.3	9.2 - 155		2.93	29.2	
Benzo(k)fluoranthene	1	80	<0.6	48.259	60.3	49.418	61.8	26.5 - 143		2.37	26.1	
Chrysene	1	80	<0.6	53.262	66.6	55.746	69.7	27.4 - 150		4.56	25.7	
Dibenz(a,h)anthracene	1	80	<0.6	58.240	72.8	59.879	74.8	13.8 - 150		2.78	25.8	
Fluoranthene	1	80	<0.6	43.307	54.1	45.405	56.8	23.2 - 158		4.73	26	
Fluorene	1	80	<0.6	56.774	71	56.417	70.5	30.8 - 139		0.63	20	
Indeno(1,2,3-cd)pyrene	1	80	<0.6	54.518	68.1	57.806	72.3	10.7 - 155		5.85	26.9	
Naphthalene	1	80	<0.6	54.568	68.2	52.494	65.6	34.9 - 133		3.88	20.4	
Phenanthrene	1	80	<0.6	50.024	62.5	50.155	62.7	20.2 - 150		0.26	24.6	
Pyrene	1	80	<0.6	46.324	57.9	49.278	61.6	22.6 - 151		6.18	25.1	

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1029B_05
Analyzed: 10/30/14 012900

	ACE		CHR		NAP		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	25976	7.44	39123	11.68	48817	5.50	47182	13.30
Upper Limit	52000	7.94	78200	12.18	97600	6.00	94400	13.80
Lower Limit	13000	6.94	19600	11.18	24400	5.00	23600	12.80
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L729802-01	27565	7.44	37381	11.66	51899	5.51	44668	13.28
L729802-03	28450	7.44	39422	11.66	53145	5.51	46260	13.28
L729802-04	28280	7.44	38700	11.66	52946	5.51	45963	13.28
L729802-05	27227	7.44	37548	11.67	51050	5.51	44622	13.29
MSD WG751305	28275	7.44	39391	11.66	53148	5.51	46472	13.28
MS WG751305	28255	7.44	39045	11.66	52231	5.51	46450	13.28
LCSD WG751305	30462	7.44	41384	11.66	56986	5.51	49529	13.28
LCS WG751305	31177	7.44	44165	11.66	58237	5.51	54571	13.28
BLANK WG751305	29987	7.45	41144	11.67	56388	5.51	48913	13.29

Legend:

ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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YOUR LAB OF CHOICE

Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Internal Standard Response and Retention Time Summary

File ID: 1029B_05
Analyzed: 10/30/14 012900

	ACE		PHEN	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	25976	7.44	43195	8.99
Upper Limit	52000	7.94	86400	9.49
Lower Limit	13000	6.94	21600	8.49
Sample ID	**Response**	**RT**	**Response**	**RT**
L729802-01	27565	7.44	42596	8.99
L729802-03	28450	7.44	43886	8.99
L729802-04	28280	7.44	43262	8.99
L729802-05	27227	7.44	42786	8.99
MSD WG751305	28275	7.44	45256	8.98
MS WG751305	28255	7.44	44584	8.99
LCSD WG751305	30462	7.44	49794	8.99
LCS WG751305	31177	7.44	51495	8.99
BLANK WG751305	29987	7.45	47132	8.99

Legend:
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - ug/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Surrogate Summary

			FBP		NBZ		TPH	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec
L729802-01	SVGCMS7	1029B_15	0.0610	73.2	0.0708	84.9	0.0435	52.3
L729802-03	SVGCMS7	1029B_16	0.0570	68.4	0.0597	71.7	0.0408	49.0
L729802-04	SVGCMS7	1029B_17	0.0600	72.1	0.0627	75.3	0.0395	47.5
L729802-05	SVGCMS7	1029B_18	0.0696	83.5	0.0747	89.6	0.0514	61.7
LCS WG751305	SVGCMS7	1029B_06	0.0651	78.2	0.0694	83.3	0.0588	70.6
LCSD WG751305	SVGCMS7	1029B_07	0.0678	81.4	0.0717	86.1	0.0633	76.0
BLANK WG751305	SVGCMS7	1029B_08	0.0678	81.4	0.0693	83.2	0.0602	72.2
MS WG751305	SVGCMS7	1029B_13	0.0657	78.9	0.0738	88.6	0.0501	60.1
MSD WG751305	SVGCMS7	1029B_14	0.0666	80.0	0.0753	90.4	0.0490	58.9

FBP --2-FLUOROBIPHENYL	True Value: 0.0833 ppm	Limits: 38.2 - 135
NBZ --NITROBENZENE-D5	True Value: 0.0833 ppm	Limits: 28.4 - 151
TPH --P-TERPHENYL-D14	True Value: 0.0833 ppm	Limits: 34.20 - 141

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C-SIM		
Project No:	23446543.0053AA	Matrix:	Soil - mg/kg
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	10/23/2014	**Analytic Batch:**	**WG751305**
Analysis Date:	10/30/2014	Analyst:	280
Instrument ID:	SVGCMS7	Prep Date:	10/28/2014
Sample Numbers:	L729802-01, -03, -04, -05		

Instrument Performance Summary

FileID:1029B_02.D Date:10/29/2014 Time: 10:51 PM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	24.2
68	Less than 2% of mass 69	0.0
70	Less than 2% of mass 69	0.7
127	10 - 80% of mass 442	31.0
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 442	57.2
199	5 - 9% of mass 198	6.9
275	10 - 60% of mass 442	19.8
365	1 - 100% of mass 442	3.6
441	Present, but less than mass 443	84.4
442	50 - 100% of mass 442	100.0
443	15 - 24% of mass 442	19.1

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG751305	LCS WG751305	1029B_06.D	10/30/2014	1:53 AM
LCSD WG751305	LCSD WG751305	1029B_07.D	10/30/2014	2:16 AM
Blank WG751305	Blank WG751305	1029B_08.D	10/30/2014	2:39 AM
MS WG751305	MS WG751305	1029B_13.D	10/30/2014	4:33 AM
MSD WG751305	MSD WG751305	1029B_14.D	10/30/2014	4:56 AM
TU515-SB02-NS01	L729802-01	1029B_15.D	10/30/2014	5:19 AM
TU515-SB08-NS01	L729802-03	1029B_16.D	10/30/2014	5:42 AM
TU515-SB10-NS01	L729802-04	1029B_17.D	10/30/2014	6:05 AM
TU515-SB10-NS02	L729802-05	1029B_18.D	10/30/2014	6:28 AM

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C-SIM
Project: Holloman AFB
Instrument ID: SVGCMS7
Method Name : SS07J22N.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1K	Level 2K	Average RRF	%RSD
Nitrobenzene-d5	0.273	0.275	0.263	0.286	0.278	0.274	0.309	0.319	0.325	0.289275	7.75
Naphthalene		1.204	1.019	1.051	0.980	0.956	1.022	1.015	1.031	1.034608	7.19
2-Methylnaphthalene	0.638	0.659	0.610	0.671	0.633	0.629	0.687	0.685	0.693	0.655933	4.52
1-Methylnaphthalene	0.594	0.612	0.569	0.621	0.591	0.586	0.641	0.640	0.643	0.610849	4.46
2-Fluorobiphenyl	1.228	1.284	1.188	1.292	1.209	1.185	1.315	1.274	1.310	1.253898	4.13
2-Chloronaphthalene	1.019	1.066	0.985	1.089	1.016	1.003	1.094	1.072	1.078	1.046872	3.90
Acenaphthylene	1.528	1.607	1.487	1.664	1.618	1.579	1.801	1.830	1.870	1.664897	8.27
Acenaphthene	1.088	1.134	1.052	1.153	1.075	1.066	1.177	1.172	1.186	1.122553	4.68
Dibenzofuran	1.445	1.501	1.389	1.528	1.417	1.411	1.556	1.507	1.524	1.475284	4.10
Fluorene	1.200	1.269	1.169	1.287	1.229	1.210	1.345	1.333	1.372	1.268202	5.61
Phenanthrene	1.094	1.086	1.008	1.115	1.029	1.022	1.158	1.127	1.153	1.088021	5.20
Anthracene	0.941	0.980	0.915	1.030	1.000	0.997	1.168	1.172	1.202	1.044956	10.29
Fluoranthene	1.021	1.058	0.984	1.101	1.042	1.037	1.211	1.191	1.210	1.095090	7.98
Pyrene	1.219	1.232	1.141	1.247	1.171	1.146	1.240	1.260	1.313	1.218839	4.66
p-Terphenyl-d14	0.951	0.952	0.886	0.970	0.909	0.894	0.958	0.971	0.997	0.943217	4.04
Benzo(a)anthracene	1.122	1.057	0.962	1.062	1.021	1.013	1.089	1.143	1.208	1.075290	6.97
Chrysene	1.054	1.068	0.980	1.064	1.005	0.974	1.062	1.067	1.136	1.045544	4.88
Benzo(b)fluoranthene	1.134	1.089	0.987	1.106	1.041	1.020	1.149	1.210	1.175	1.101056	6.75
Benzo(k)fluoranthene	0.933	1.030	0.969	1.046	0.993	0.971	1.014	1.158	1.055	1.018749	6.43
Benzo(a)pyrene	0.849	0.874	0.807	0.898	0.856	0.840	0.939	0.977	0.994	0.892543	7.23
Indeno(1,2,3-cd)pyrene	1.075	1.067	0.987	1.097	1.039	1.015	1.075	1.321	1.279	1.106095	10.44
Dibenz(a,h)anthracene	0.876	0.896	0.834	0.933	0.878	0.856	0.924	1.133	1.121	0.938980	11.80
Benzo(g,h,i)perylene	0.947	0.937	0.859	0.961	0.892	0.867	0.915	1.103	1.019	0.944355	8.19

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Quality Control Summary
SDG: L729802
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C-SIM
Project No: 23446543.0053AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 10/23/2014
Instrument ID: SVGCMS7

Method Name : SS07J22N.M Date : 10/30/2014
FileName : 1029B_05.D Time : 1:29 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0346	0.9418	8.97
2-Methylnaphthalene	0.6559	0.6476	1.27
Acenaphthylene	1.6649	1.7781	6.8
Acenaphthene	1.1226	1.1921	6.19
Fluorene	1.2682	1.3496	6.41
Phenanthrene	1.0880	1.0590	2.67
Anthracene	1.0450	1.0876	4.09
Fluoranthene	1.0951	1.0465	4.44
Pyrene	1.2188	1.0364	15
Benzo(a)anthracene	1.0753	1.0653	0.93
Chrysene	1.0455	1.0049	3.89
Benzo(b)fluoranthene	1.1011	0.8837	19.7
Benzo(k)fluoranthene	1.0187	0.9251	9.19
Benzo(a)pyrene	0.8925	0.8126	8.96
Indeno(1,2,3-cd)pyrene	1.1061	1.1836	7.01
Dibenz(a,h)anthracene	0.9390	0.9922	5.67
Benzo(g,h,i)perylene	0.9444	0.9822	4.01

*** - calibrated by linear regression*

Raw Data

SIM SS Extractions Benchsheet

Batch #: WG751305

Analyst: TLB078 **Prep Start Date/Time:** 10/29/14 07:28:27 **Prep End Date/Time:** 10/30/14 07:30:54

Na2SO4: 14I15522 Amt. Used: 2 Exp. Date:03/15/15 **MeCl2:** 14J11832 Amt. Used: 20 Exp. Date:04/11/15 **Surrogate:** 14J05507 Amt. Used: 25 µL Exp. Date:04/05/15

LCS/MS Spike: 14J23454 Amt. Used: 50 µL Exp. Date:11/30/14

Sample Number	Qualifiers	Initial Sample Wt.(g)	Soil Description	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		15	Sand	20	30	Colorless	
LCS		15	Sand	20	30	Colorless	
LCSD		15	Sand	20	30	Colorless	
MS(L729746-09)		15	Dirt	20	30	Colorless	
MSD(L729746-09)		15	Dirt	20	30	Colorless	
1. L729746-05		15	Dirt	20	30	Colorless	
2. L729746-06		15	Sand	20	30	Colorless	
3. L729746-07		15	Dirt	20	30	Yellow	
4. L729746-08		15	Sand	20	30	Colorless	
5. L729746-09		15	Dirt	20	30	Colorless	
6. L729802-01		15	Dirt	20	30	Colorless	EDD/QC4
7. L729802-03		15	Dirt	20	30	Colorless	EDD/QC4
8. L729802-04		15	Dirt	20	30	Colorless	EDD/QC4
9. L729802-05		15	Dirt	20	30	Colorless	EDD/QC4
10. L729913-01		15	Mud	20	30	Colorless	Relogged from L728494-01. AV 10/27
11. L730023-01		15	Dirt	20	30	Colorless	
12. L730023-02		15	Dirt	20	30	Colorless	
13. L730023-03		15	Dirt	20	30	Colorless	

14. L730033-01		15	Dirt	20	30	Yellow	Changed due date per TJ. AV 10/28
15. L730033-02		15	Dirt	20	30	Colorless	
16. L730033-03		15	Dirt	20	30	Colorless	
17. L730033-04		15	Dirt	20	30	Colorless	
18. L730033-05		15	Dirt	20	30	Colorless	
19. L730033-06		15	Dirt	20	30	Colorless	
20. L730033-07		15	Dirt	20	30	Colorless	

Comments:

Reviewed By:KMF280 on 10/30/14 07:30:54

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : STACEYE7
Released By : Stacey Eakes
Date Released : 12/5/2014 8:37:47 AM
Run ID : 102914B
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1029B_01	INSTBLK	SS07J22N						1	1	10/29/14 2228	"instrument blank"
2	1029B_02	TUNE DFTPP 2 PPM 14J03433	TUNE525						1	1	10/29/14 2251	"SIM STD"
3	1029B_02 T	TUNE DFTPP 2 PPM 14J03433								1	10/29/14 2251	
4	1029B_03	DNR ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/29/14 2314	"SIM STD"
5	1029B_04	DNR ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/30/14 0024	"SIM STD"
6	1029B_05	ICV SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/30/14 0129	"SIM STD"
7	1029B_06	LCS	SS07J22N	WG751305	SV8270PAHSIM	SS			1	2	10/30/14 0153	"SOIL 14J05507/14J23454"
8	1029B_07	LCSD	SS07J22N	WG751305	SV8270PAHSIM	SS			1	2	10/30/14 0216	"SOIL 14J05507/14J23454"
9	1029B_08	BLANK	SS07J22N	WG751305	SV8270PAHSIM	SS			1	2	10/30/14 0239	"SOIL 14J05507/14J23454"
10	1029B_09	L729746-05	SS07J22N	WG751305	SV8270PAHSIM	SS	HMBFKY	KY	1	2	10/30/14 0302	"SOIL 14J05507/14J23454"
11	1029B_10	L729746-06	SS07J22N	WG751305	SV8270PAHSIM	SS	HMBFKY	KY	1	2	10/30/14 0325	"SOIL 14J05507/14J23454"
12	1029B_11	L729746-08	SS07J22N	WG751305	SV8270PAHSIM	SS	HMBFKY	KY	1	2	10/30/14 0348	"SOIL 14J05507/14J23454"
13	1029B_12	L729746-09	SS07J22N	WG751305	SV8270PAHSIM	SS	HMBFKY	KY	1	2	10/30/14 0411	"SOIL 14J05507/14J23454"
14	1029B_13	MS	SS07J22N	WG751305	SV8270PAHSIM	SS			1	2	10/30/14 0433	"SOIL 14J05507/14J23454"
15	1029B_14	MSD	SS07J22N	WG751305	SV8270PAHSIM	SS			1	2	10/30/14 0456	"SOIL 14J05507/14J23454"
16	1029B_15	L729802-01	SS07J22N	WG751305	SV8270PAHSIM	SS	URSTAZ	AZ	1	2	10/30/14 0519	"SOIL 14J05507/14J23454"
17	1029B_16	L729802-03	SS07J22N	WG751305	SV8270PAHSIM	SS	URSTAZ	AZ	1	2	10/30/14 0542	"SOIL 14J05507/14J23454"
18	1029B_17	L729802-04	SS07J22N	WG751305	SV8270PAHSIM	SS	URSTAZ	AZ	1	2	10/30/14 0605	"SOIL 14J05507/14J23454"

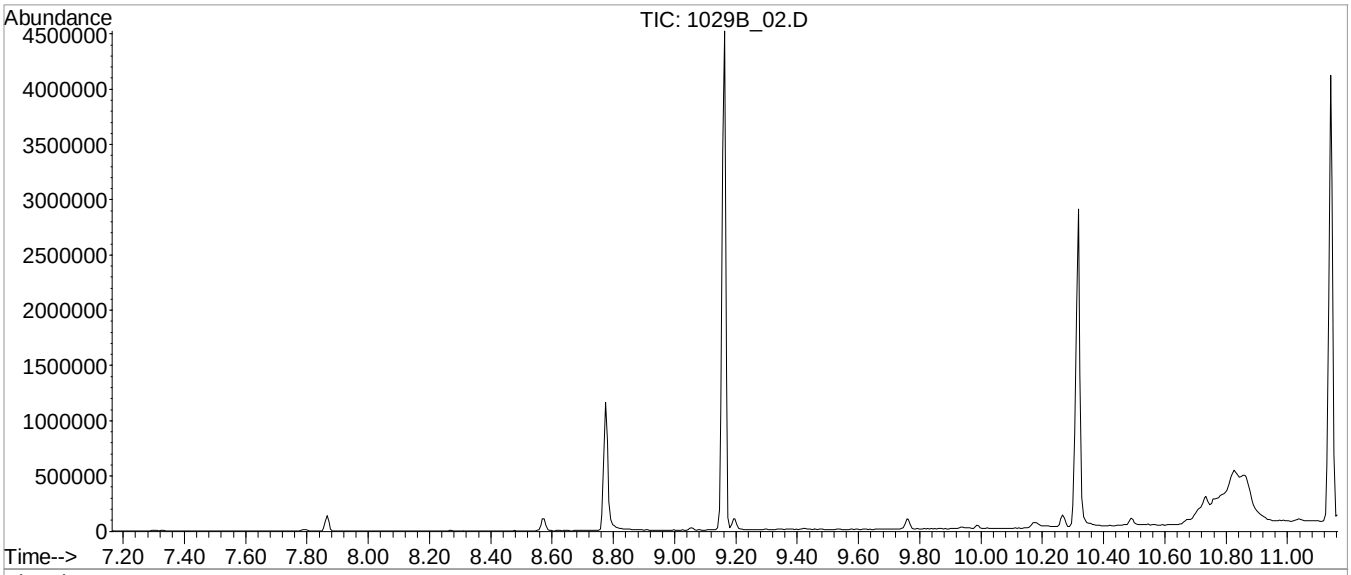
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

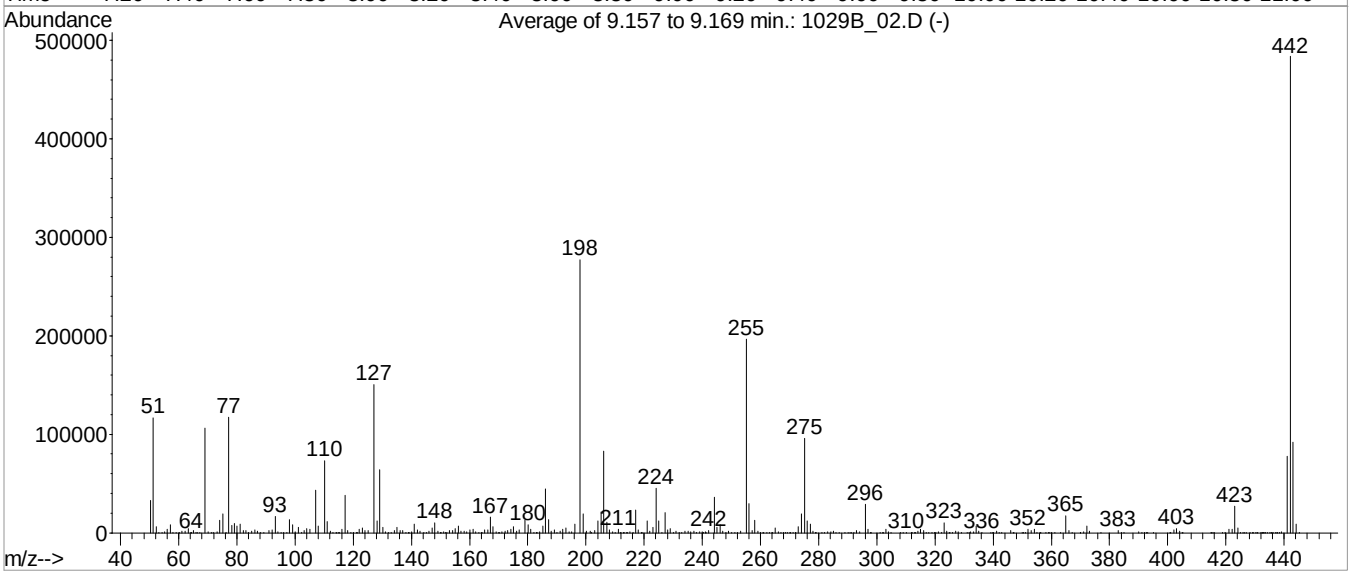
Injection Log

Instrument ID : SVGCMS7
Computer Name : STACEYE7
Released By : Stacey Eakes
Date Released : 12/5/2014 8:37:47 AM
Run ID : 102914B
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
19	1029B_18	L729802-05	SS07J22N	WG751305	SV8270PAHSIM	SS	URSTAZ	AZ	1	2	10/30/14 0628	"SOIL 14J05507/14J23454"
20	1029B_19	DNR L729913-01	SS07J22N	WG751305					1	2	10/30/14 0651	"SOIL 14J05507/14J23454"
21	1029B_20	L730023-01	SS07J22N	WG751305	SV8270PAHSIM	SS	URSCORPAZ	AZ	1	2	10/30/14 0714	"SOIL 14J05507/14J23454"
22	1029B_21	L730023-02	SS07J22N	WG751305	SV8270PAHSIM	SS	URSCORPAZ	AZ	1	2	10/30/14 0737	"SOIL 14J05507/14J23454"
23	1029B_22	L730023-03	SS07J22N	WG751305	SV8270PAHSIM	SS	URSCORPAZ	AZ	1	2	10/30/14 0759	"SOIL 14J05507/14J23454"
24	1029B_23	L730033-02	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 0822	"SOIL 14J05507/14J23454"
25	1029B_24	L730033-03	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 0845	"SOIL 14J05507/14J23454"
26	1029B_25	L730033-04	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 0908	"SOIL 14J05507/14J23454"
27	1029B_26	L730033-05	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 0931	"SOIL 14J05507/14J23454"
28	1029B_27	L730033-06	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 0954	"SOIL 14J05507/14J23454"
29	1029B_28	L730033-07	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 1017	"SOIL 14J05507/14J23454"
30	1029B_29	L730033-01	SS07J22N	WG751305	SV8270PAHSIM	SS	LINFUNLKY	KY	1	2	10/30/14 1040	"SOIL 14J05507/14J23454"
31	1029B_30	DNR L729746-07	SS07J22N	WG751305					5	10	10/30/14 1102	"SOIL 14J05507/14J23454"
32	1029B_31	DNR L729913-01	SS07J22N	WG751305					20	40	10/30/14 1125	"SOIL 14J05507/14J23454"

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 02.D Vial: 2
Acq On : 29 Oct 2014 10:51 pm Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA





AutoFind: Scans 976, 977, 978; Background Corrected with Scan 970

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	24.2	116901	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	700	PASS
127	442	10	80	31.0	150210	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	57.2	276906	PASS
199	198	5	9	6.9	19226	PASS
275	442	10	60	19.8	95858	PASS
365	442	1	100	3.6	17428	PASS
441	443	0.01	100	84.4	77829	PASS
442	442	50	100	100.0	483968	PASS
443	442	15	24	19.1	92250	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 05.D Vial: 95
Acq On : 30 Oct 2014 1:29 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 1:50 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.50	136	48817	40.00 ppb	-0.05
6) Acenaphthene-d10	7.44	164	25976	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	43195	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	39123	40.00 ppb	0.00
22) Perylene-d12	13.30	264	47182	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.58	82	15576	44.1197927 ppb	-0.08
Spiked Amount 2.000	Range 45 - 170		Recovery = 2205.99%#		
7) 2-Fluorobiphenyl	6.70	172	34343	42.1758439 ppb	-0.02
Spiked Amount 2.000	Range 58 - 153		Recovery = 2108.79%#		
19) p-Terphenyl-d14	10.56	244	30797	33.3829307 ppb	-0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 1669.15%#		

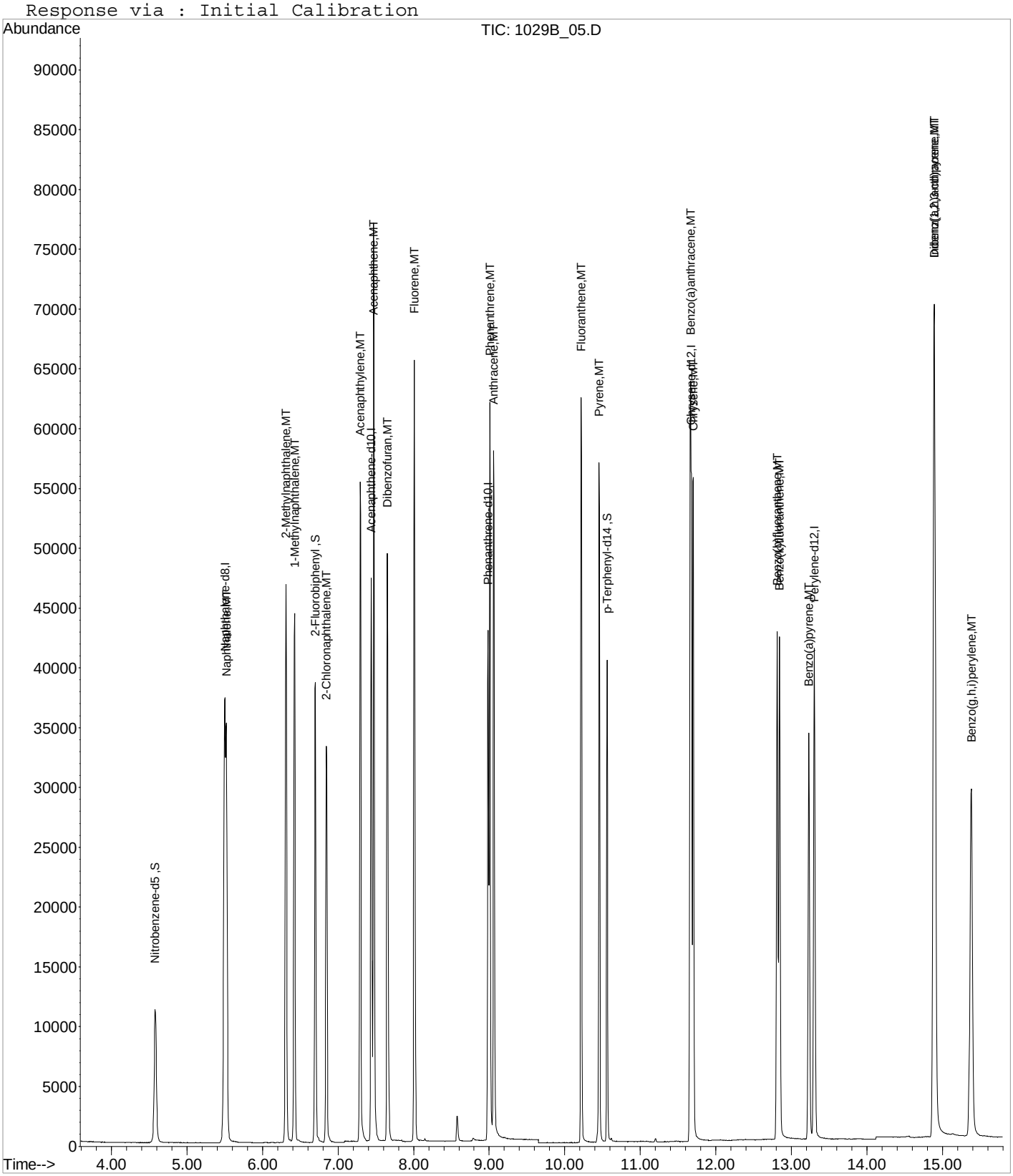
Target Compounds					Qvalue
3) Naphthalene	5.52	128	45978	36.4135701 ppb	99
4) 2-Methylnaphthalene	6.31	142	31613	39.4907414 ppb	98
5) 1-Methylnaphthalene	6.43	142	28823	38.6628636 ppb	96
8) 2-Chloronaphthalene	6.85	162	27782	40.8655700 ppb	96
9) Acenaphthylene	7.29	152	46189	42.7207485 ppb	99
10) Acenaphthene	7.47	153	30965	42.4768290 ppb	98
11) Dibenzofuran	7.65	168	39712	41.4508910 ppb	65
12) Fluorene	8.01	166	35056	42.5658909 ppb	98
14) Phenanthrene	9.01	178	45743	38.9326498 ppb	98
15) Anthracene	9.06	178	46981	41.6342522 ppb	99
16) Fluoranthene	10.22	202	45204	38.2255433 ppb	98
18) Pyrene	10.45	202	40546	34.0117930 ppb	97
20) Benzo(a)anthracene	11.66	228	41677	39.6276665 ppb	94
21) Chrysene	11.70	228	39315	38.4453315 ppb	97
23) Benzo(b)fluoranthene	12.81	252	41694	32.1031716 ppb	98
24) Benzo(k)fluoranthene	12.84	252	43649	36.3237729 ppb	96
25) Benzo(a)pyrene	13.23	252	38338	36.4153151 ppb	98
26) Indeno(1,2,3-cd)pyrene	14.89	276	55846	42.8038816 ppb	86
27) Dibenz(a,h)anthracene	14.89	278	46813	42.2662711 ppb	92
28) Benzo(g,h,i)perylene	15.38	276	46344	41.6046650 ppb	66

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 05.D Vial: 95
Acq On : 30 Oct 2014 1:29 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 1:50 2014 Quant Results File: SS07J22N.RES

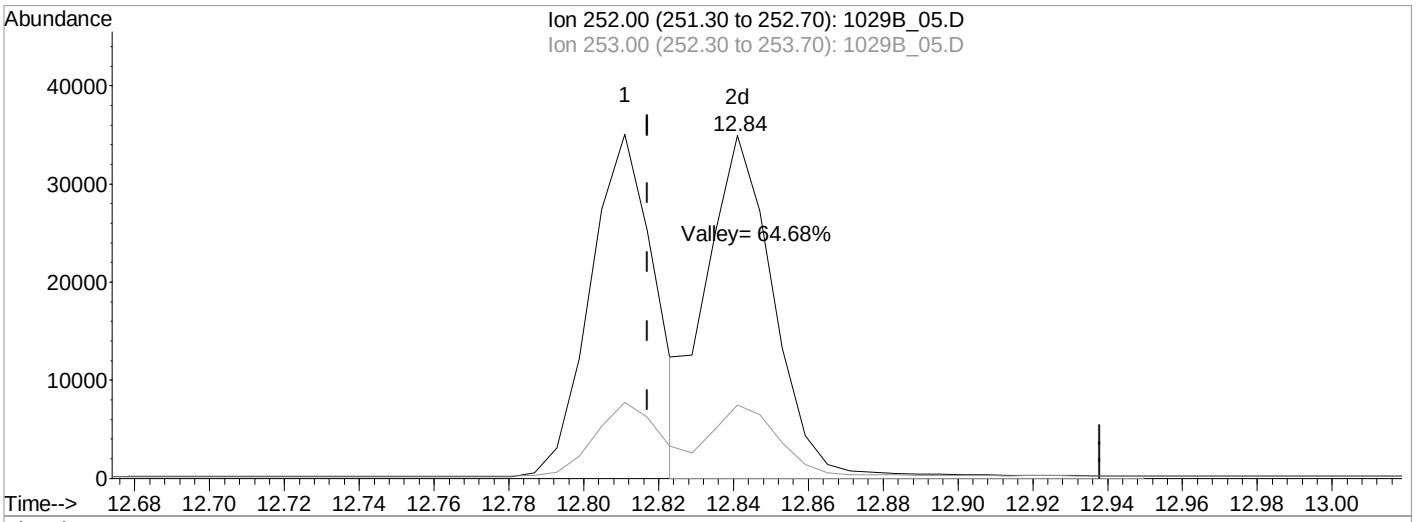
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

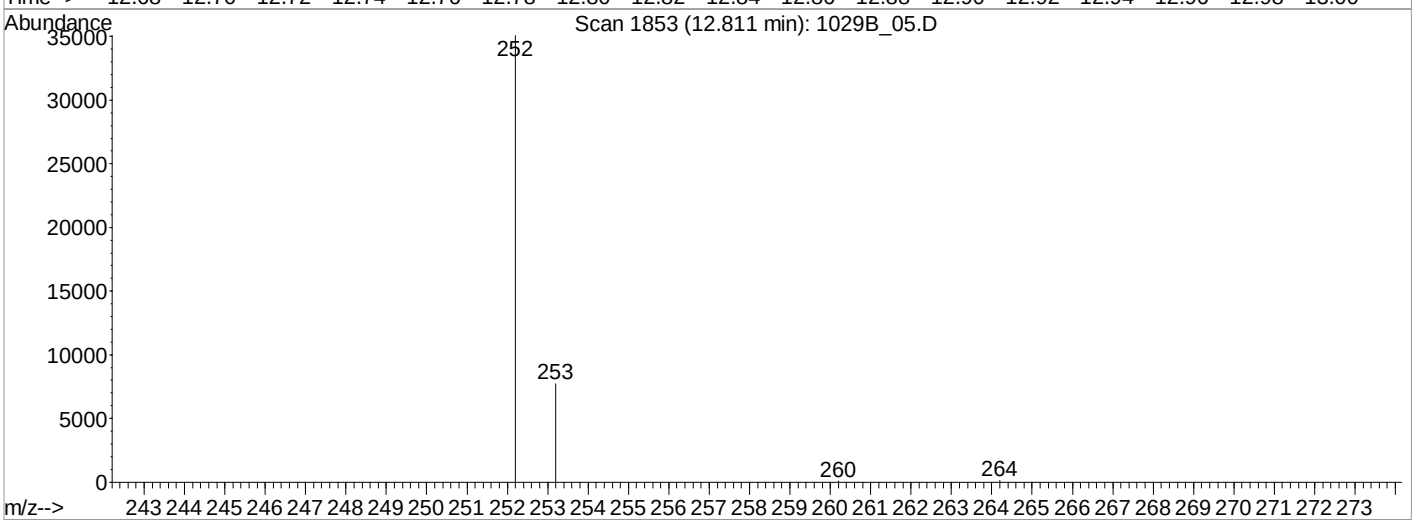


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 05.D Vial: 95
Acq On : 30 Oct 2014 1:29 am Operator: 280
Sample : ICV SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 1:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1029B_05.D

(23) Benzo(b)fluoranthene (MT)

12.81min (-0.006) 32.1031716 ppb

Qvalue = 98

response 41694

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	21.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 06.D Vial: 36
Acq On : 30 Oct 2014 1:53 am Operator: 280
Sample : LCS 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 2:44 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	58237	40.00 ppb	-0.04
6) Acenaphthene-d10	7.44	164	31177	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	51495	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	44165	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	54571	40.00 ppb	-0.04

System Monitoring Compounds					
2) Nitrobenzene-d5	4.60	82	14608	69.3697888 ppb	-0.06
Spiked Amount 83.300	Range 28 - 151		Recovery = 83.28%		
7) 2-Fluorobiphenyl	6.70	172	31814	65.1046152 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 78.16%		
19) p-Terphenyl-d14	10.56	244	30630	58.8229709 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 70.62%		

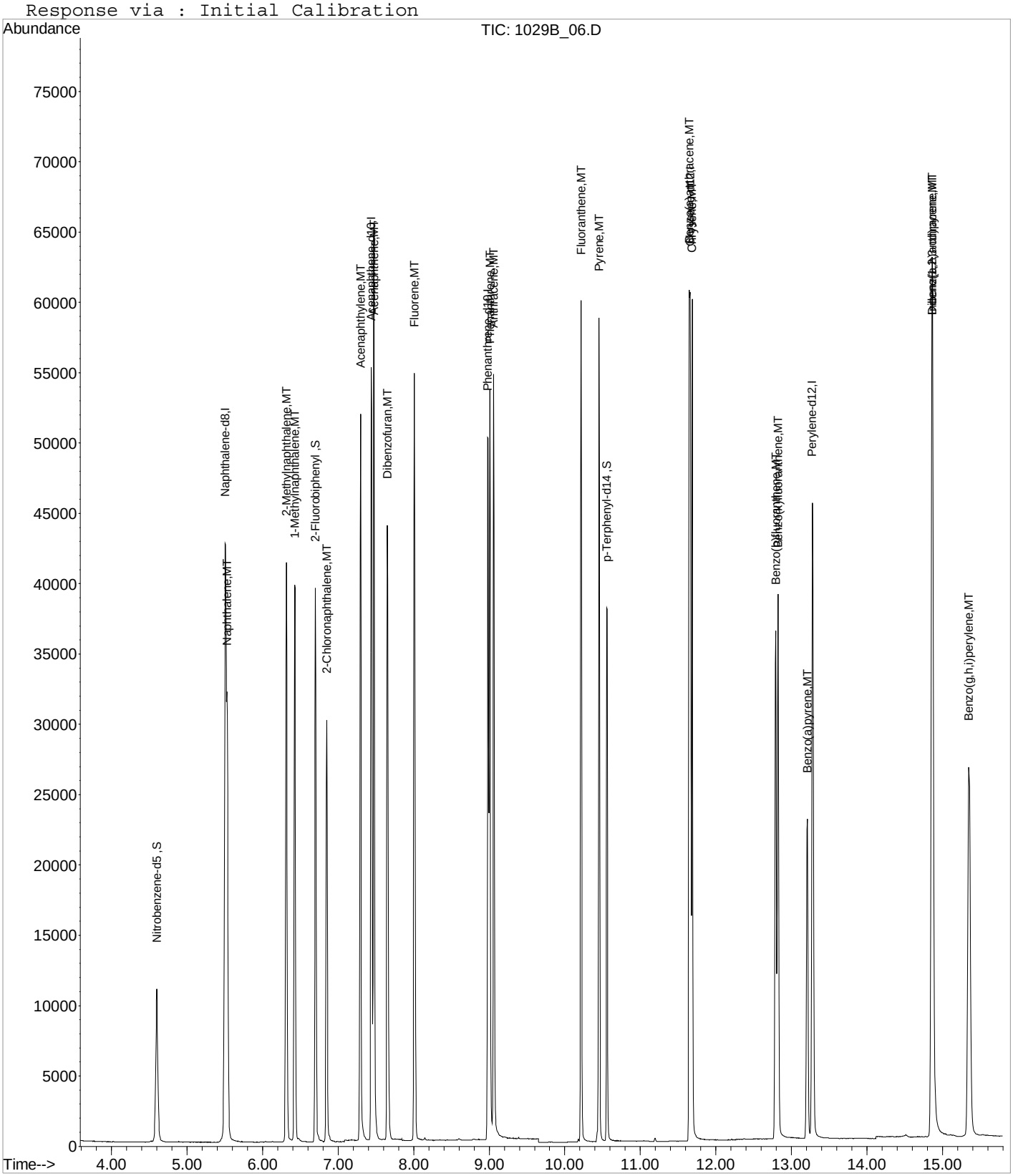
Target Compounds					Qvalue
3) Naphthalene	5.53	128	39253	52.1180463 ppb	99
4) 2-Methylnaphthalene	6.32	142	27839	58.3022472 ppb	98
5) 1-Methylnaphthalene	6.43	142	25953	58.3639249 ppb	95
8) 2-Chloronaphthalene	6.85	162	23737	58.1818909 ppb	97
9) Acenaphthylene	7.30	152	40811	62.8992516 ppb	99
10) Acenaphthene	7.48	153	27300	62.4038809 ppb	90
11) Dibenzofuran	7.66	168	36027	62.6625635 ppb	96
12) Fluorene	8.01	166	31194	63.1158424 ppb	99
14) Phenanthrene	9.01	178	41340	59.0280183 ppb	99
15) Anthracene	9.06	178	41323	61.4354108 ppb	99
16) Fluoranthene	10.22	202	40538	57.5092270 ppb	99
18) Pyrene	10.45	202	41573	61.7841088 ppb	99
20) Benzo(a)anthracene	11.65	228	37223	62.7043011 ppb	97
21) Chrysene	11.69	228	35789	62.0038711 ppb	99
23) Benzo(b)fluoranthene	12.79	252	38496	51.2547846 ppb	100
24) Benzo(k)fluoranthene	12.82	252	37850	54.4661862 ppb	98
25) Benzo(a)pyrene	13.21	252	26916	44.2088857 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.86	276	49985	66.2483717 ppb	85
27) Dibenz(a,h)anthracene	14.87	278	41992	65.5599253 ppb	92
28) Benzo(g,h,i)perylene	15.35	276	39445	61.2329106 ppb	62

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 06.D Vial: 36
Acq On : 30 Oct 2014 1:53 am Operator: 280
Sample : LCS 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 2:44 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 07.D Vial: 37
Acq On : 30 Oct 2014 2:16 am Operator: 280
Sample : LCSD 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 2:44 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	56986	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	30462	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	49794	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	41384	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	49529	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	14772	71.6885394 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 86.06%		
7) 2-Fluorobiphenyl	6.70	172	32390	67.8391436 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 81.44%		
19) p-Terphenyl-d14	10.56	244	30872	63.2718442 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 75.96%		

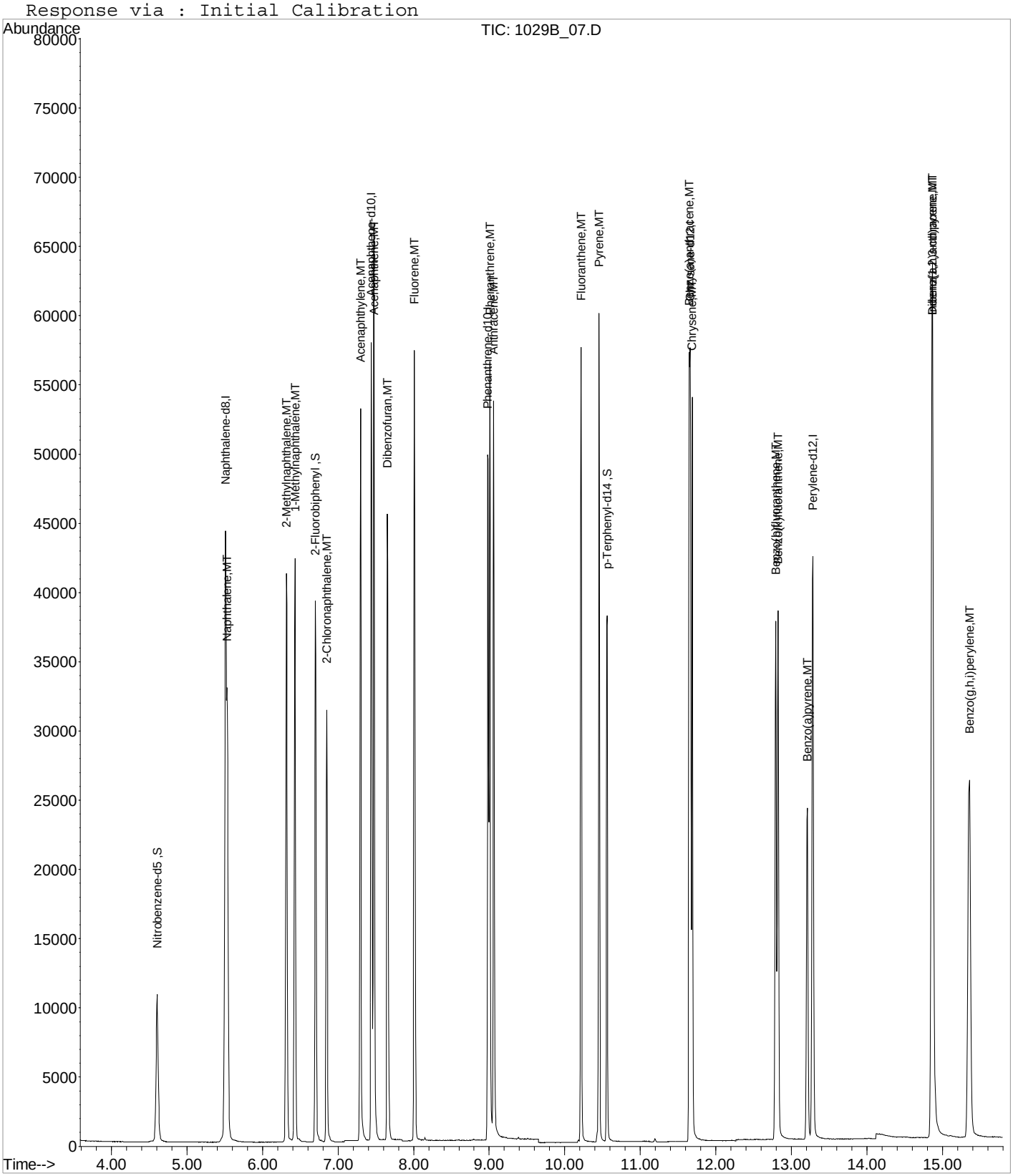
Target Compounds					Qvalue
3) Naphthalene	5.53	128	40111	54.4263968 ppb	99
4) 2-Methylnaphthalene	6.32	142	28479	60.9518960 ppb	98
5) 1-Methylnaphthalene	6.43	142	27341	62.8350752 ppb	97
8) 2-Chloronaphthalene	6.85	162	24222	60.7642177 ppb	97
9) Acenaphthylene	7.30	152	41408	65.3173273 ppb	99
10) Acenaphthene	7.48	153	27564	64.4862471 ppb	91
11) Dibenzofuran	7.66	168	36262	64.5517055 ppb	97
12) Fluorene	8.01	166	31367	64.9555417 ppb	98
14) Phenanthrene	9.01	178	41353	61.0636556 ppb	99
15) Anthracene	9.06	178	40873	62.8422153 ppb	100
16) Fluoranthene	10.22	202	39854	58.4702803 ppb	99
18) Pyrene	10.45	202	41557	65.9106173 ppb	99
20) Benzo(a)anthracene	11.65	228	37013	66.5404933 ppb	97
21) Chrysene	11.69	228	35363	65.3828898 ppb	99
23) Benzo(b)fluoranthene	12.79	252	37646	55.2255434 ppb	100
24) Benzo(k)fluoranthene	12.82	252	38003	60.2533665 ppb	97
25) Benzo(a)pyrene	13.21	252	28273	51.1650373 ppb	98
26) Indeno(1,2,3-cd)pyrene	14.87	276	50119	73.1880645 ppb	86
27) Dibenz(a,h)anthracene	14.87	278	42032	72.3026638 ppb	93
28) Benzo(g,h,i)perylene	15.35	276	40254	68.8500624 ppb	65

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 07.D Vial: 37
Acq On : 30 Oct 2014 2:16 am Operator: 280
Sample : LCSD 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 2:44 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 08.D Vial: 38
Acq On : 30 Oct 2014 2:39 am Operator: 280
Sample : BLANK 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	56388	40.00 ppb	-0.03
6) Acenaphthene-d10	7.45	164	29987	40.00 ppb	-0.01
13) Phenanthrene-d10	8.99	188	47132	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	41144	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	48913	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	14131	69.3050390 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 83.20%		
7) 2-Fluorobiphenyl	6.70	172	31855	67.7754504 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 81.36%		
19) p-Terphenyl-d14	10.56	244	29190	60.1735698 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 72.24%		

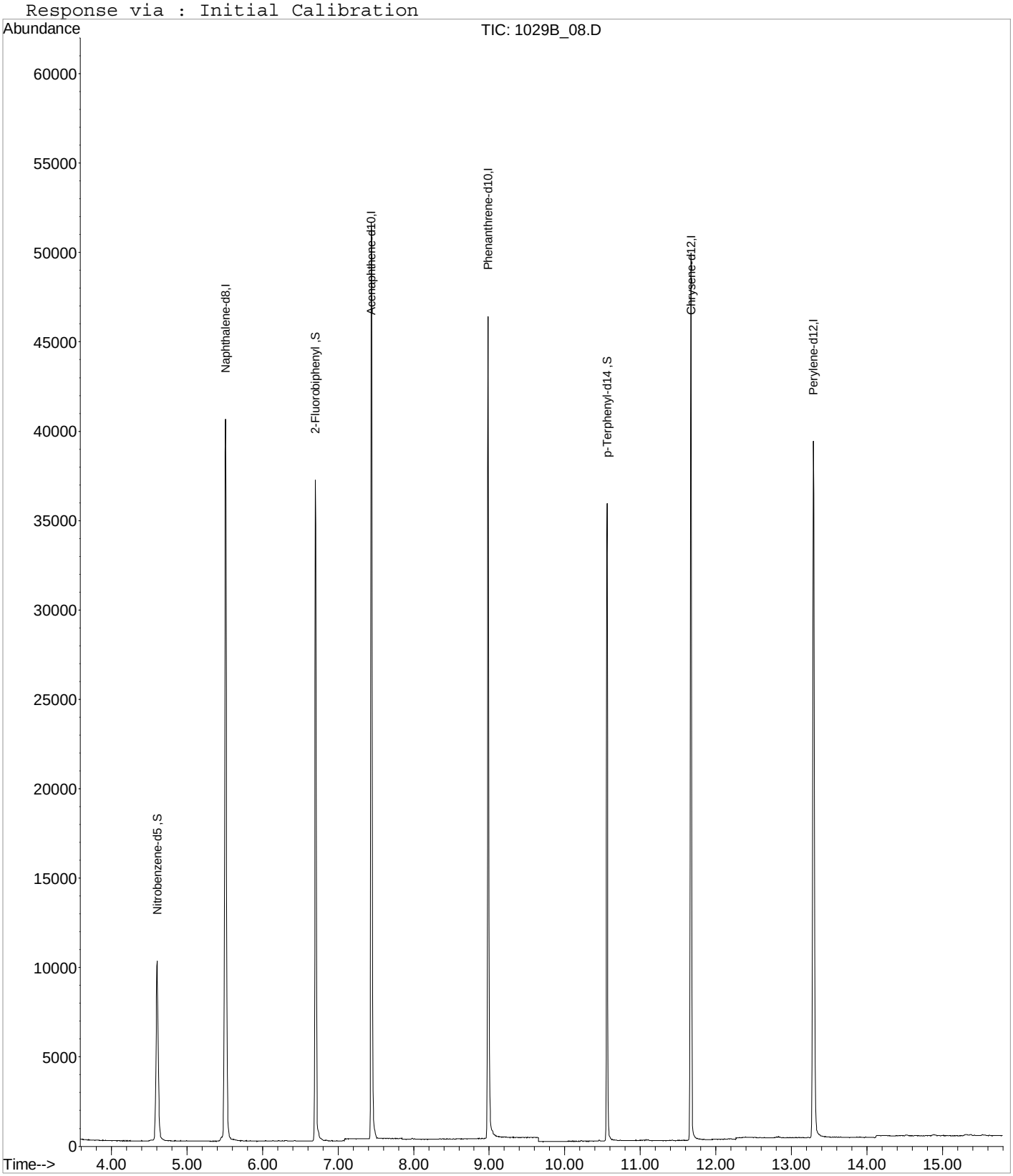
Target Compounds				Qvalue
3) Naphthalene	5.53	128	326	N.D.
4) 2-Methylnaphthalene	6.32	142	36	N.D.
5) 1-Methylnaphthalene	6.43	142	26	N.D.
8) 2-Chloronaphthalene	6.64	162	4	N.D.
9) Acenaphthylene	7.34	152	11	N.D.
10) Acenaphthene	7.58	153	3	N.D.
11) Dibenzofuran	7.66	168	31	N.D.
12) Fluorene	7.86	166	113	N.D.
14) Phenanthrene	9.01	178	45	N.D.
15) Anthracene	9.06	178	23	N.D.
16) Fluoranthene	10.22	202	48	N.D.
18) Pyrene	10.46	202	47	N.D.
20) Benzo(a)anthracene	11.66	228	169	N.D.
21) Chrysene	11.78	228	11	N.D.
23) Benzo(b)fluoranthene	12.73	252	12	N.D.
24) Benzo(k)fluoranthene	12.99	252	10	N.D.
25) Benzo(a)pyrene	13.21	252	29	N.D.
26) Indeno(1,2,3-cd)pyrene	14.97	276	7	N.D.
27) Dibenz(a,h)anthracene	14.88	278	43	N.D.
28) Benzo(g,h,i)perylene	15.37	276	85	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 08.D Vial: 38
Acq On : 30 Oct 2014 2:39 am Operator: 280
Sample : BLANK 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 13.D Vial: 43
Acq On : 30 Oct 2014 4:33 am Operator: 280
Sample : MS 1x WG751305 L729746-09 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	52231	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	28255	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	44584	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	39045	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	46450	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	13938	73.7990423 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 88.59%		
7) 2-Fluorobiphenyl	6.70	172	29091	65.6887748 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 78.86%		
19) p-Terphenyl-d14	10.56	244	23065	50.1032878 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 60.15%		

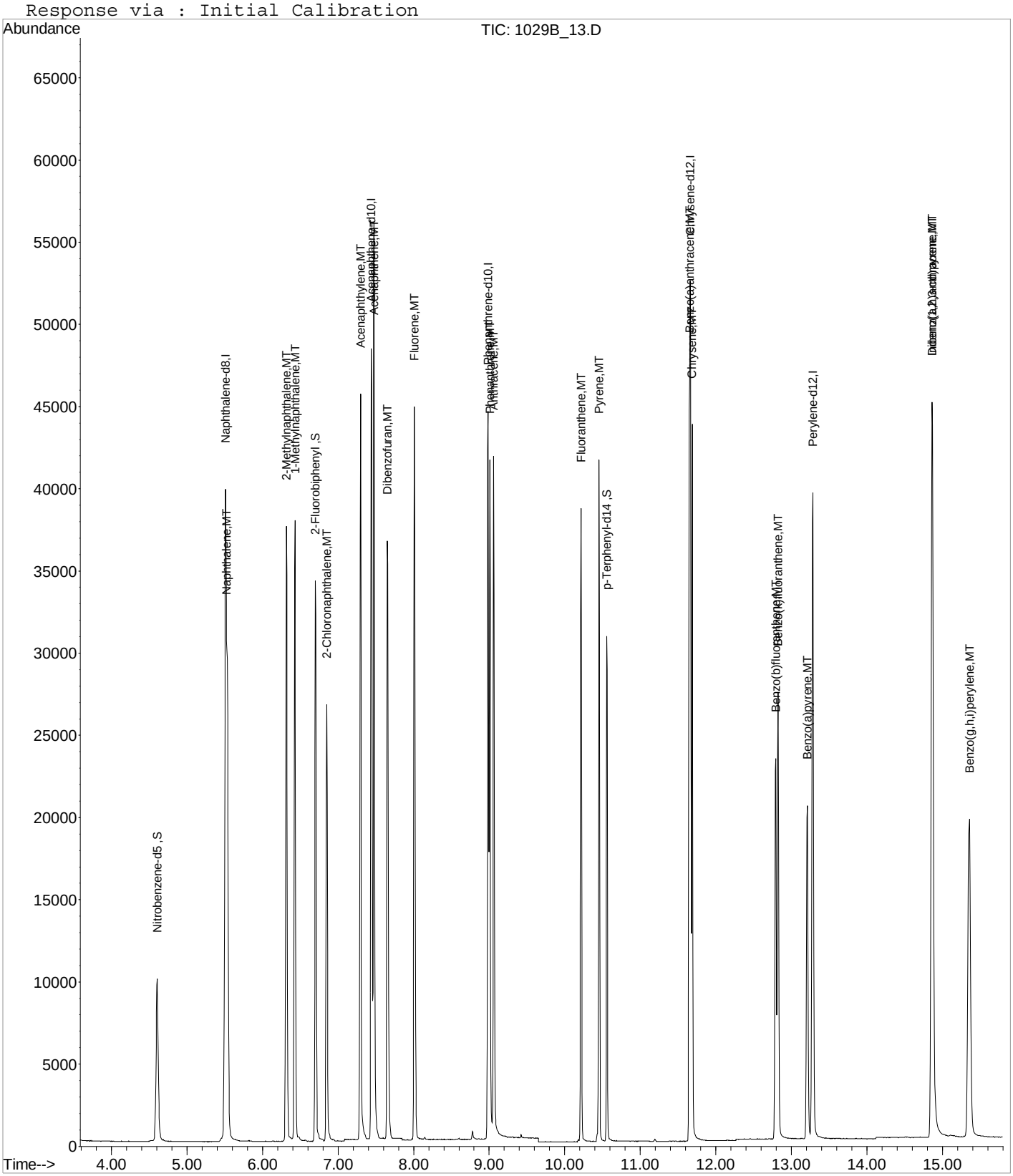
Target Compounds					Qvalue
3) Naphthalene	5.53	128	36860	54.5684047 ppb	100
4) 2-Methylnaphthalene	6.32	142	25303	59.0846045 ppb	100
5) 1-Methylnaphthalene	6.43	142	24094	60.4138459 ppb	97
8) 2-Chloronaphthalene	6.85	162	21281	57.5563235 ppb	94
9) Acenaphthylene	7.30	152	36074	61.3481617 ppb	99
10) Acenaphthene	7.48	153	23610	59.5502996 ppb	92
11) Dibenzofuran	7.66	168	30510	58.5546349 ppb	94
12) Fluorene	8.01	166	25430	56.7744175 ppb	96
14) Phenanthrene	9.01	178	30332	50.0235848 ppb	100
15) Anthracene	9.06	178	31919	54.8103068 ppb	100
16) Fluoranthene	10.22	202	26430	43.3070306 ppb	99
18) Pyrene	10.45	202	27557	46.3244386 ppb	99
20) Benzo(a)anthracene	11.65	228	27083	51.6054461 ppb	97
21) Chrysene	11.69	228	27179	53.2617611 ppb	98
23) Benzo(b)fluoranthene	12.79	252	24764	38.7360914 ppb	99
24) Benzo(k)fluoranthene	12.82	252	28546	48.2594689 ppb	97
25) Benzo(a)pyrene	13.21	252	23989	46.2900220 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.86	276	35013	54.5181399 ppb	84
27) Dibenz(a,h)anthracene	14.87	278	31752	58.2397054 ppb	87
28) Benzo(g,h,i)perylene	15.35	276	29934	54.5926142 ppb	64

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 13.D Vial: 43
Acq On : 30 Oct 2014 4:33 am Operator: 280
Sample : MS 1x WG751305 L729746-09 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 14.D Vial: 44
Acq On : 30 Oct 2014 4:56 am Operator: 280
Sample : MSD 1x WG751305 L729746-09 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	53148	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	28275	40.00 ppb	-0.02
13) Phenanthrene-d10	8.98	188	45256	40.00 ppb	-0.01
17) Chrysene-d12	11.66	240	39391	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	46472	40.00 ppb	-0.04

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	14479	75.3408037 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 90.45%		
7) 2-Fluorobiphenyl	6.70	172	29528	66.6283781 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 79.99%		
19) p-Terphenyl-d14	10.56	244	22780	49.0495364 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 58.88%		

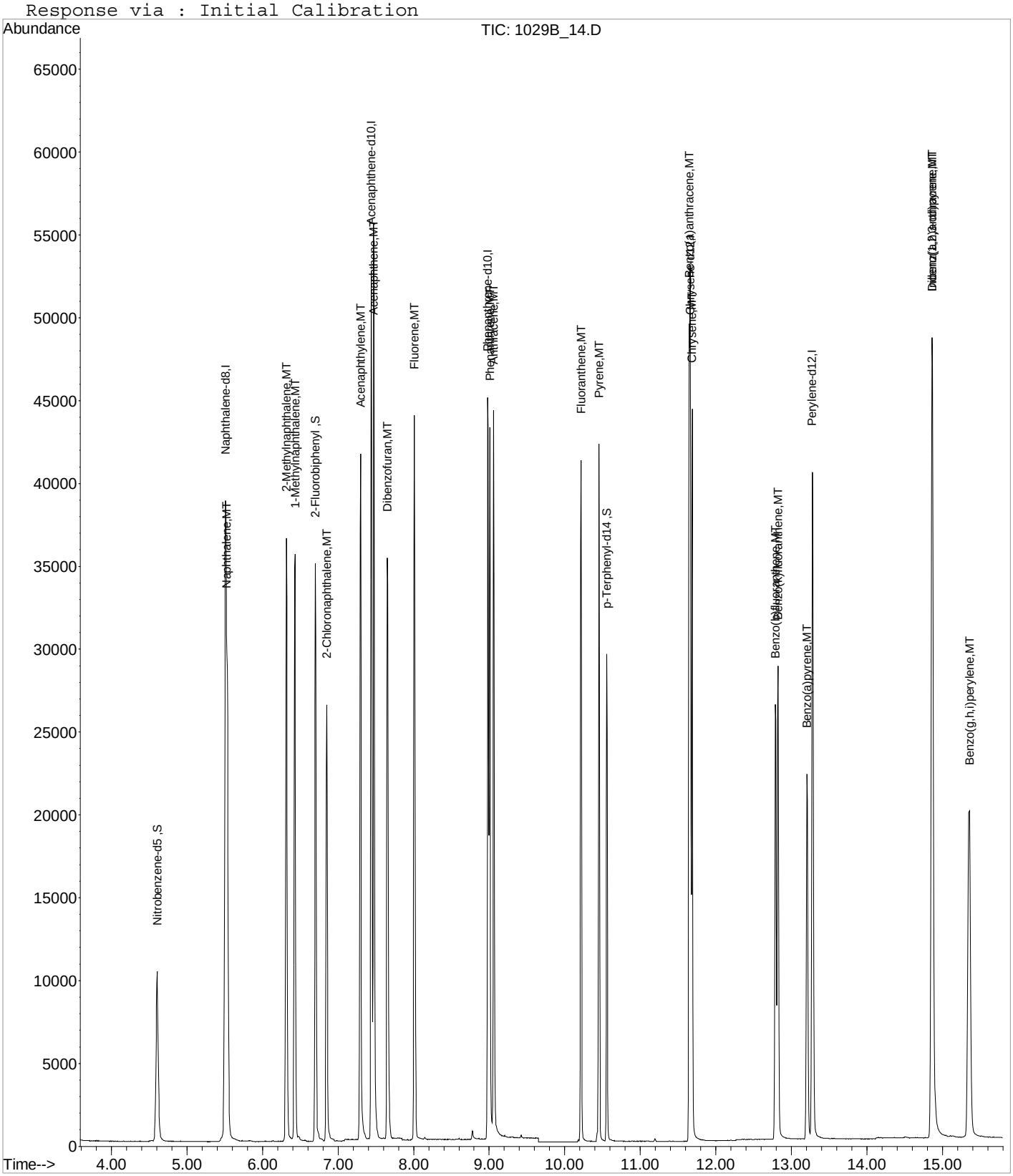
Target Compounds					Qvalue
3) Naphthalene	5.53	128	36081	52.4935455 ppb	99
4) 2-Methylnaphthalene	6.32	142	24748	56.7915653 ppb	99
5) 1-Methylnaphthalene	6.43	142	23136	57.0108173 ppb	96
8) 2-Chloronaphthalene	6.85	162	20876	56.4210286 ppb	91
9) Acenaphthylene	7.30	152	35584	60.4720535 ppb	99
10) Acenaphthene	7.47	153	23377	58.9209091 ppb	99
11) Dibenzofuran	7.66	168	30389	58.2811586 ppb	94
12) Fluorene	8.01	166	25288	56.4174572 ppb	99
14) Phenanthrene	9.01	178	30870	50.1548871 ppb	98
15) Anthracene	9.06	178	32693	55.3057893 ppb	100
16) Fluoranthene	10.22	202	28128	45.4049249 ppb	100
18) Pyrene	10.45	202	29574	49.2784136 ppb	99
20) Benzo(a)anthracene	11.65	228	28378	53.5980479 ppb	99
21) Chrysene	11.69	228	28699	55.7464523 ppb	99
23) Benzo(b)fluoranthene	12.79	252	27612	43.1705141 ppb	96
24) Benzo(k)fluoranthene	12.82	252	29245	49.4177829 ppb	99
25) Benzo(a)pyrene	13.20	252	25501	49.1843356 ppb	98
26) Indeno(1,2,3-cd)pyrene	14.86	276	37142	57.8057908 ppb	84
27) Dibenz(a,h)anthracene	14.87	278	32661	59.8786384 ppb	86
28) Benzo(g,h,i)perylene	15.35	276	30840	56.2183198 ppb	66

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 14.D Vial: 44
Acq On : 30 Oct 2014 4:56 am Operator: 280
Sample : MSD 1x WG751305 L729746-09 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 15.D Vial: 45
Acq On : 30 Oct 2014 5:19 am Operator: 280
Sample : L729802-01 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	51899	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	27565	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	42596	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	37381	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	44668	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	13278	70.7542092 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 84.94%		
7) 2-Fluorobiphenyl	6.70	172	26354	60.9981084 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 73.23%		
19) p-Terphenyl-d14	10.56	244	19188	43.5368484 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 52.27%		

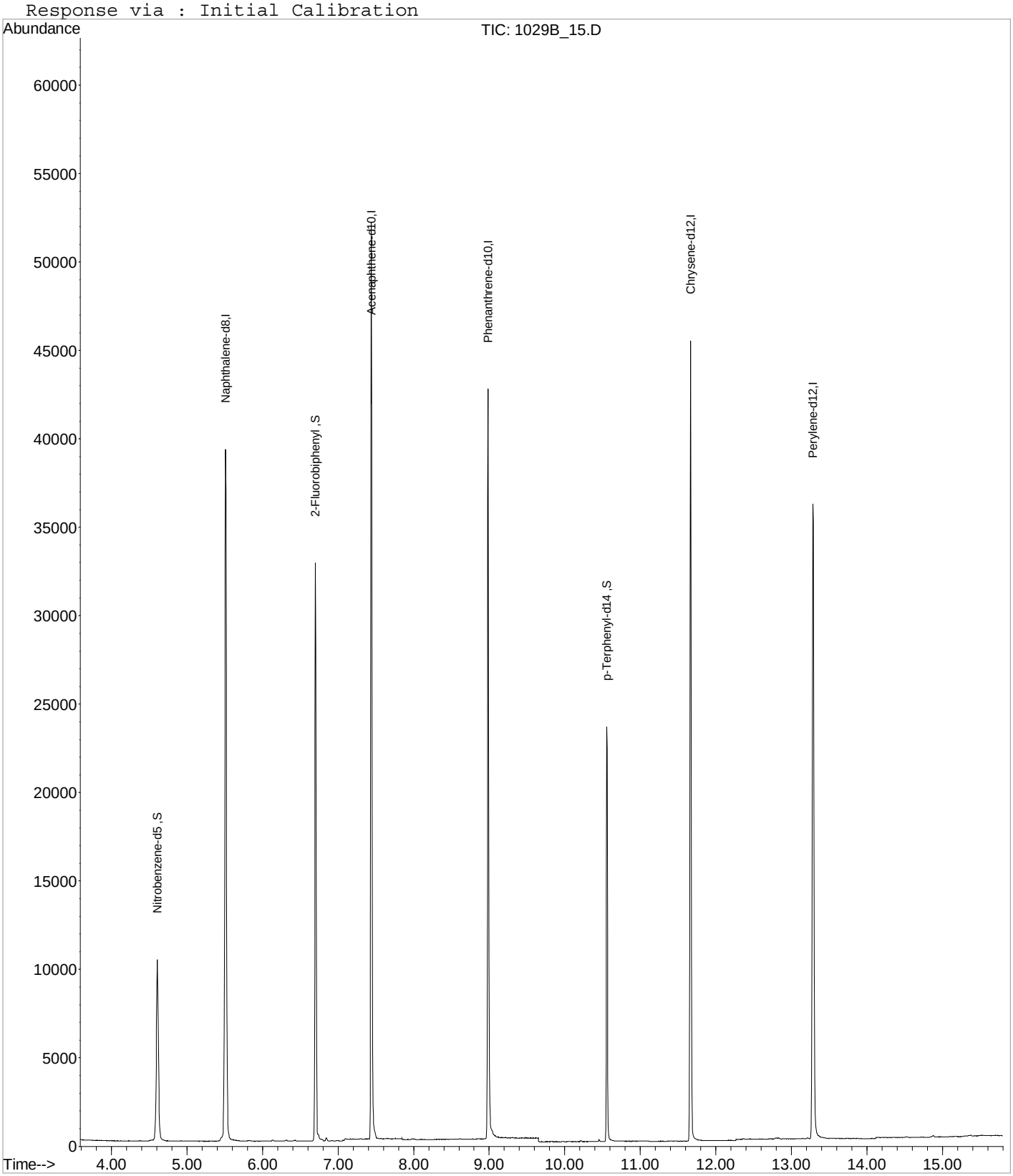
Target Compounds				Qvalue
3) Naphthalene	5.54	128	313	N.D.
4) 2-Methylnaphthalene	6.32	142	46	N.D.
5) 1-Methylnaphthalene	6.43	142	49	N.D.
8) 2-Chloronaphthalene	6.76	162	4	N.D.
9) Acenaphthylene	7.21	152	17	N.D.
10) Acenaphthene	7.64	153	10	N.D.
11) Dibenzofuran	7.65	168	22	N.D.
12) Fluorene	8.00	166	24	N.D.
14) Phenanthrene	9.01	178	126	N.D.
15) Anthracene	9.06	178	38	N.D.
16) Fluoranthene	10.22	202	57	N.D.
18) Pyrene	10.45	202	76	N.D.
20) Benzo(a)anthracene	11.66	228	166	N.D.
21) Chrysene	11.69	228	38	N.D.
23) Benzo(b)fluoranthene	12.79	252	74	N.D.
24) Benzo(k)fluoranthene	12.79	252	74	N.D.
25) Benzo(a)pyrene	13.21	252	61	N.D.
26) Indeno(1,2,3-cd)pyrene	14.78	276	6	N.D.
27) Dibenz(a,h)anthracene	14.87	278	47	N.D.
28) Benzo(g,h,i)perylene	15.37	276	122	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 15.D Vial: 45
Acq On : 30 Oct 2014 5:19 am Operator: 280
Sample : L729802-01 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 16.D Vial: 46
Acq On : 30 Oct 2014 5:42 am Operator: 280
Sample : L729802-03 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	53145	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	28450	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	43886	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	39422	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	46260	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	11481	59.7442223 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 71.72%		
7) 2-Fluorobiphenyl	6.70	172	25403	56.9679459 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 68.39%		
19) p-Terphenyl-d14	10.56	244	18972	40.8180878 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 49.00%		

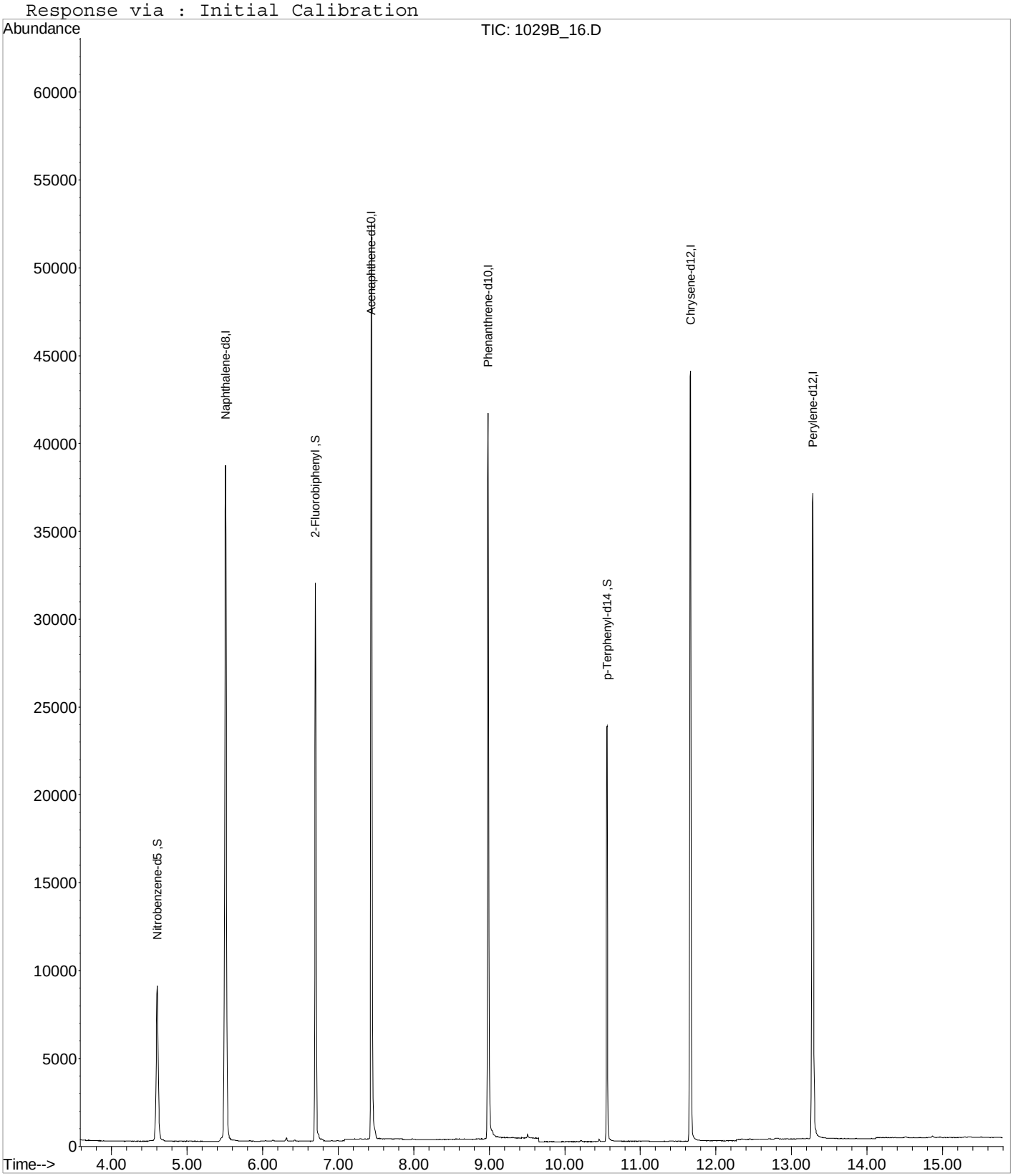
Target Compounds				Qvalue
3) Naphthalene	5.53	128	407	N.D.
4) 2-Methylnaphthalene	6.32	142	132	N.D.
5) 1-Methylnaphthalene	6.32	142	132	N.D.
8) 2-Chloronaphthalene	6.89	162	4	N.D.
9) Acenaphthylene	7.30	152	20	N.D.
10) Acenaphthene	7.47	153	25	N.D.
11) Dibenzofuran	7.65	168	14	N.D.
12) Fluorene	7.85	166	124	N.D.
14) Phenanthrene	9.01	178	130	N.D.
15) Anthracene	9.06	178	24	N.D.
16) Fluoranthene	10.22	202	64	N.D.
18) Pyrene	10.45	202	107	N.D.
20) Benzo(a)anthracene	11.66	228	169	N.D.
21) Chrysene	11.66	228	169	N.D.
23) Benzo(b)fluoranthene	12.79	252	70	N.D.
24) Benzo(k)fluoranthene	12.79	252	70	N.D.
25) Benzo(a)pyrene	13.21	252	52	N.D.
26) Indeno(1,2,3-cd)pyrene	14.87	276	66	N.D.
27) Dibenz(a,h)anthracene	14.87	278	50	N.D.
28) Benzo(g,h,i)perylene	15.36	276	70	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 16.D Vial: 46
Acq On : 30 Oct 2014 5:42 am Operator: 280
Sample : L729802-03 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 17.D Vial: 47
Acq On : 30 Oct 2014 6:05 am Operator: 280
Sample : L729802-04 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	52946	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	28280	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	43262	40.00 ppb	0.00
17) Chrysene-d12	11.66	240	38700	40.00 ppb	-0.02
22) Perylene-d12	13.28	264	45963	40.00 ppb	-0.03

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	12004	62.7005627 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 75.27%		
7) 2-Fluorobiphenyl	6.70	172	26612	60.0379607 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 72.07%		
19) p-Terphenyl-d14	10.56	244	18042	39.5413877 ppb	-0.02
Spiked Amount 83.300	Range 34 - 141		Recovery = 47.47%		

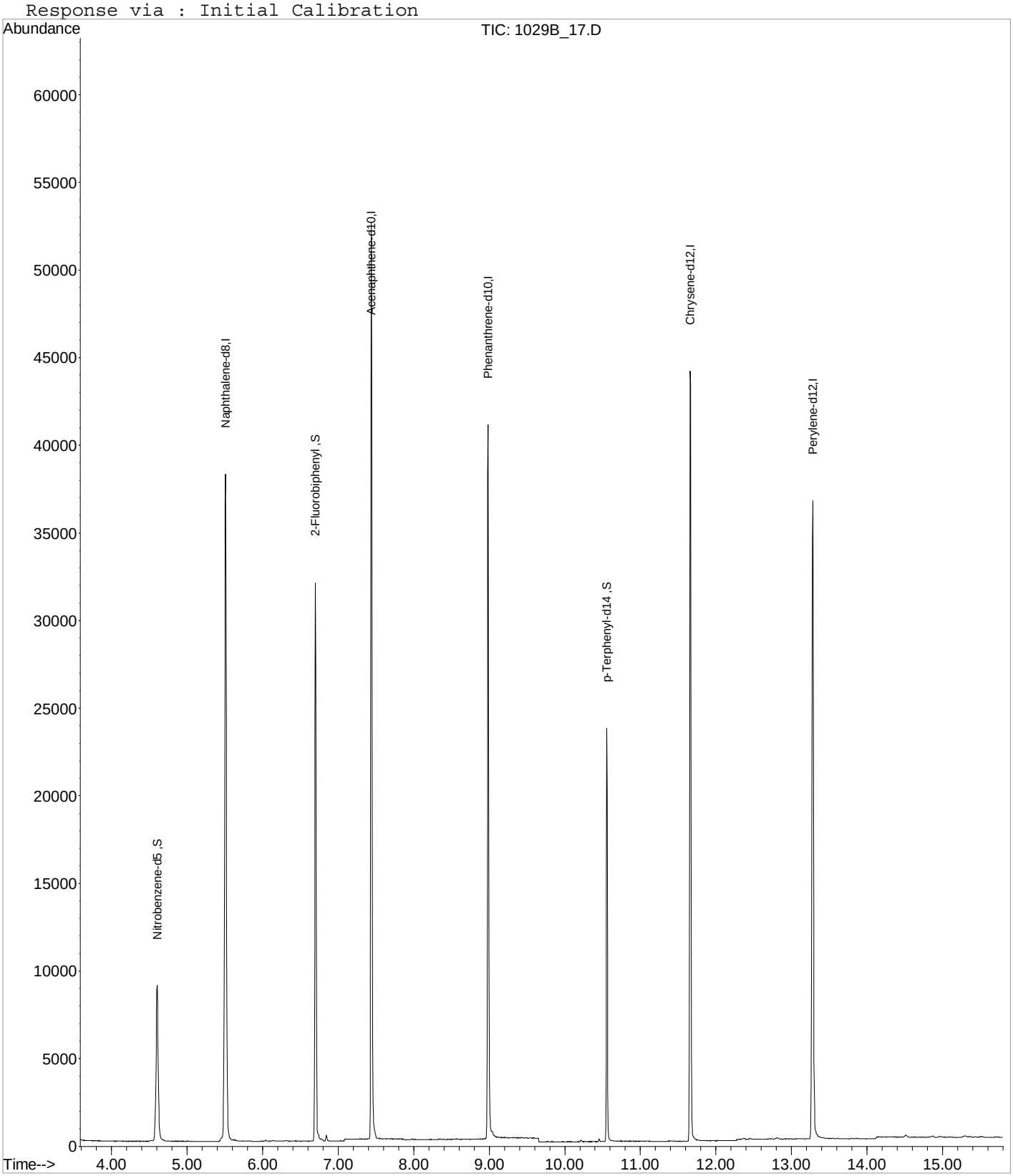
Target Compounds				Qvalue
3) Naphthalene	5.53	128	341	N.D.
4) 2-Methylnaphthalene	6.32	142	47	N.D.
5) 1-Methylnaphthalene	6.47	142	1	N.D.
8) 2-Chloronaphthalene	6.74	162	4	N.D.
9) Acenaphthylene	7.35	152	9	N.D.
10) Acenaphthene	7.47	153	19	N.D.
11) Dibenzofuran	0.00	168	0	N.D.
12) Fluorene	7.86	166	81	N.D.
14) Phenanthrene	9.06	178	35	N.D.
15) Anthracene	9.06	178	35	N.D.
16) Fluoranthene	10.22	202	57	N.D.
18) Pyrene	10.45	202	98	N.D.
20) Benzo(a)anthracene	11.66	228	165	N.D.
21) Chrysene	11.69	228	51	N.D.
23) Benzo(b)fluoranthene	12.79	252	50	N.D.
24) Benzo(k)fluoranthene	12.79	252	50	N.D.
25) Benzo(a)pyrene	13.21	252	47	N.D.
26) Indeno(1,2,3-cd)pyrene	14.87	276	84	N.D.
27) Dibenz(a,h)anthracene	14.87	278	67	N.D.
28) Benzo(g,h,i)perylene	15.35	276	89	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 17.D Vial: 47
Acq On : 30 Oct 2014 6:05 am Operator: 280
Sample : L729802-04 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 18.D Vial: 48
Acq On : 30 Oct 2014 6:28 am Operator: 280
Sample : L729802-05 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.51	136	51050	40.00 ppb	-0.03
6) Acenaphthene-d10	7.44	164	27227	40.00 ppb	-0.02
13) Phenanthrene-d10	8.99	188	42786	40.00 ppb	0.00
17) Chrysene-d12	11.67	240	37548	40.00 ppb	-0.01
22) Perylene-d12	13.29	264	44622	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.61	82	13780	74.6503895 ppb	-0.05
Spiked Amount 83.300	Range 28 - 151		Recovery = 89.62%		
7) 2-Fluorobiphenyl	6.70	172	29685	69.5608827 ppb	-0.02
Spiked Amount 83.300	Range 38 - 135		Recovery = 83.51%		
19) p-Terphenyl-d14	10.56	244	22742	51.3712389 ppb	-0.01
Spiked Amount 83.300	Range 34 - 141		Recovery = 61.67%		

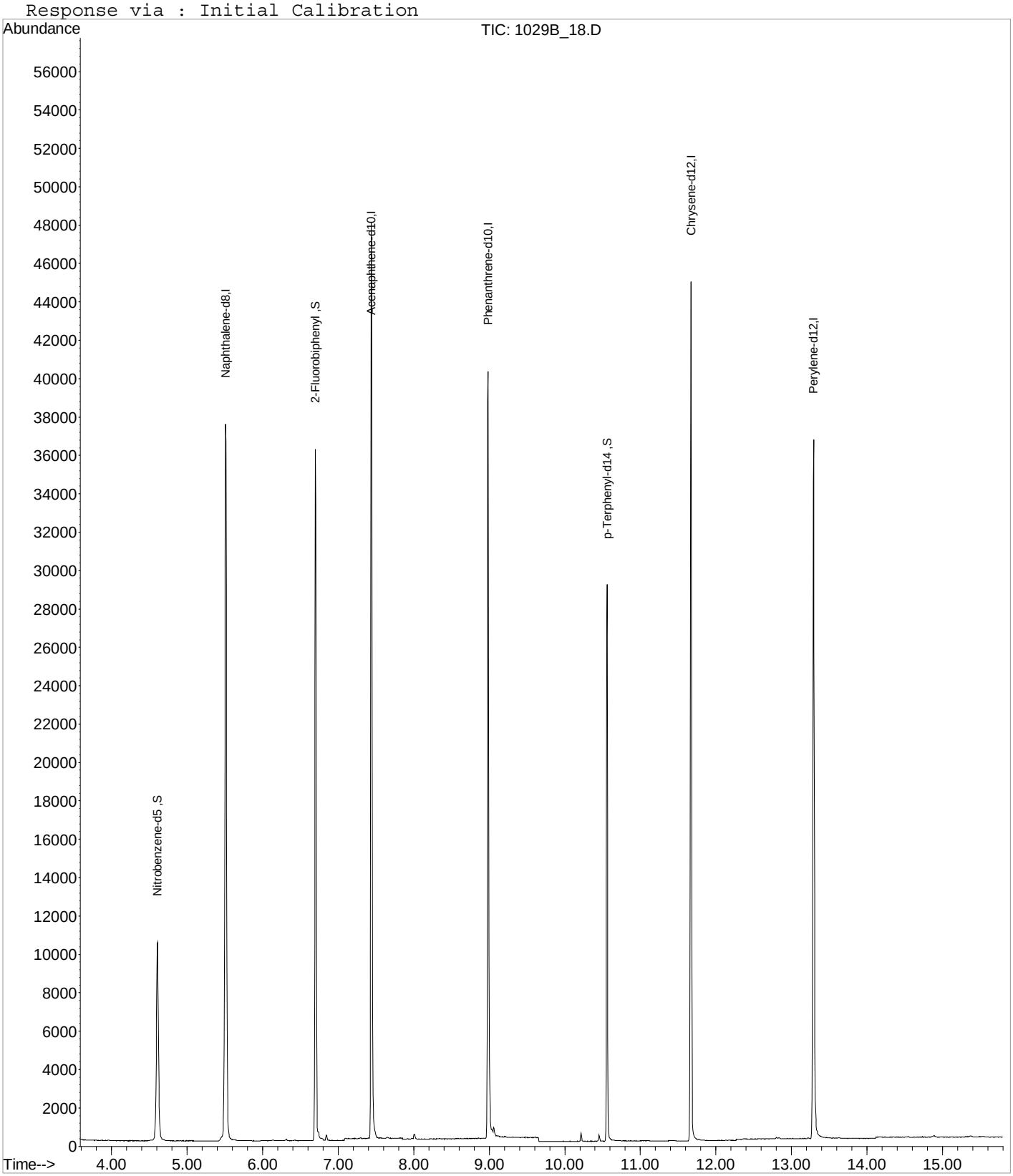
Target Compounds					Qvalue
3) Naphthalene	5.54	128	344	N.D.	
4) 2-Methylnaphthalene	6.32	142	57	N.D.	
5) 1-Methylnaphthalene	6.37	142	1	N.D.	
8) 2-Chloronaphthalene	6.92	162	4	N.D.	
9) Acenaphthylene	7.30	152	43	N.D.	
10) Acenaphthene	7.48	153	44	N.D.	
11) Dibenzofuran	7.65	168	55	N.D.	
12) Fluorene	8.01	166	192	N.D.	
14) Phenanthrene	9.01	178	562	0.9658005 ppb	98
15) Anthracene	9.06	178	320	N.D.	
16) Fluoranthene	10.22	202	285	N.D.	
18) Pyrene	10.45	202	259	N.D.	
20) Benzo(a)anthracene	11.66	228	233	N.D.	
21) Chrysene	11.69	228	67	N.D.	
23) Benzo(b)fluoranthene	12.80	252	89	N.D.	
24) Benzo(k)fluoranthene	12.80	252	89	N.D.	
25) Benzo(a)pyrene	13.21	252	40	N.D.	
26) Indeno(1,2,3-cd)pyrene	15.02	276	5	N.D.	
27) Dibenz(a,h)anthracene	14.89	278	52	N.D.	
28) Benzo(g,h,i)perylene	15.49	276	4	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102914B\1029B 18.D Vial: 48
Acq On : 30 Oct 2014 6:28 am Operator: 280
Sample : L729802-05 1x WG751305 15-30 Inst : SVGCMS7
Misc : SOIL 14J05507/14J23454 Multiplr: 2.00
MS Integration Params: RTEINT.P
Quant Time: Oct 30 7:25 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Calibration

Instrument: SVGCMS7
Method: SS07J22N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1022A_03.D	1	10/22/2014 11:06:00 AM
1022A_04.D	5	10/22/2014 11:29:00 AM
1022A_05.D	10	10/22/2014 11:52:00 AM
1022A_06.D	20	10/22/2014 12:15:00 PM
1022A_02.D	40	10/22/2014 10:43:00 AM
1022A_07.D	80	10/22/2014 12:37:00 PM
1022A_13.D	200	10/22/2014 3:13:00 PM
1022A_11.D	1000	10/22/2014 2:22:00 PM
1022A_12.D	2000	10/22/2014 2:45:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/23/2014 7:17:23 AM
Run ID : 102214A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1022A_01	TUNE DFTPP 2 PPM 14J03433								1	10/22/14 1020	
2	1022A_02	MSTD SIMLVI 40 PPB 14J10795	SS07J22N						1	1	10/22/14 1043	"SIM CALIBRATION"
3	1022A_03	STD SIMLVI 1 PPB 14J10795	SS07J22N						1	1	10/22/14 1106	"SIM CALIBRATION"
4	1022A_03 MRL	MRL SIMLVI 1 PPB 14J10795	SS07J22N						1	1	10/22/14 1106	"SIM CALIBRATION"
5	1022A_04	STD SIMLVI 5 PPB 14J10795	SS07J22N						1	1	10/22/14 1129	"SIM CALIBRATION"
6	1022A_04 MRL	MRL SIMLVI 5 PPB 14J10795	SS07J22N						1	1	10/22/14 1129	"SIM CALIBRATION"
7	1022A_05	STD SIMLVI 10 PPB 14J10795	SS07J22N						1	1	10/22/14 1152	"SIM CALIBRATION"
8	1022A_06	STD SIMLVI 20 PPB 14J10795	SS07J22N						1	1	10/22/14 1215	"SIM CALIBRATION"
9	1022A_07	STD SIMLVI 80 PPB 14J10795	SS07J22N						1	1	10/22/14 1237	"SIM CALIBRATION"
10	1022A_08	DNR STD SIMLVI 200 PPB 14J10795	SS07J22N						1	1	10/22/14 1300	"SIM CALIBRATION"
11	1022A_09	DNR STD SIMLVI 1K PPB 14J10795	SS07J22N						1	1	10/22/14 1323	"SIM CALIBRATION"
12	1022A_10	DNR STD SIMLVI 2K PPB 14J10795	SS07J22N						1	1	10/22/14 1346	"SIM CALIBRATION"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGCMS7
Computer Name : SVCOMPM
Released By : Kelly Fox
Date Released : 10/23/2014 7:17:23 AM
Run ID : 102214A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
13	1022A_11	STD SIMLVI 1K PPB 14J10795	SS07J22N						1	1	10/22/14 1422	"SIM CALIBRATION"
14	1022A_12	STD SIMLVI 2K PPB 14J10795	SS07J22N						1	1	10/22/14 1445	"SIM CALIBRATION"
15	1022A_13	STD SIMLVI 200 PPB 14J10795	SS07J22N						1	1	10/22/14 1513	"SIM CALIBRATION"
16	1022A_14	SSCV SIMLVI 40 PPB 14J10801	SS07J22N						1	1	10/22/14 1549	"SIM SSCV"

Mint Miner 2.6.4 Directory Scan: y:\102214A

23 Oct 2014 10:34

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_01.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_01.D					
1	Scanned	M(1)	280	SVGCMS7	TUNE DFTPP 2 PPM 14J03433 (DFTTP TUNE)
Scan File Path: y:\102214A\1022A_02.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_02.D					
5	Scanned	M(4), MI(1)	280	SVGCMS7	MSTD SIMLVI 40 PPB 14J10795 (SIM CALIBF
Scan File Path: y:\102214A\1022A_03.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_03.D					
14	Scanned	M(4), MT(2)	280	SVGCMS7	STD SIMLVI 1 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_03MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_03.D					
26	Scanned	M(6), MT(4)	280	SVGCMS7	STD SIMLVI 1 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_04.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_04.D					
4	Scanned	M(4)	280	SVGCMS7	STD SIMLVI 5 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_04MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_04.D					
27	Scanned	M(7), MT(2), MM(1), MR(1)	280	SVGCMS7	STD SIMLVI 5 PPB 14J10795 (SIM CALIBRAT
Scan File Path: y:\102214A\1022A_05.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_05.D					
7	Scanned	M(2), MR(1)	280	SVGCMS7	STD SIMLVI 10 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_06.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_06.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 20 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_07.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_07.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 80 PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_08.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_08.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 200 PPB 14J10795 (SIM CALIBR.
Scan File Path: y:\102214A\1022A_09.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_09.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 1K PPB 14J10795 (SIM CALIBRA

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_10.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_10.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 2K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_11.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_11.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 1K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_12.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_12.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 2K PPB 14J10795 (SIM CALIBRA
Scan File Path: y:\102214A\1022A_13.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_13.D					
0	Scanned		280	SVGCMS7	STD SIMLVI 200 PPB 14J10795 (SIM CALIBR
Scan File Path: y:\102214A\1022A_14.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_14.D					
0	Scanned		280	SVGCMS7	SSCV SIMLVI 40 PPB 14J10801 (SIM SSCV)
Scan File Path: y:\102214A\1022A_15.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_15.D					
0	Scanned		280	SVGCMS7	INSTBLK SVOCS (INSTBLK SVOCS)
Scan File Path: y:\102214A\1022A_16.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_16.D					
8	Scanned	MR(1), M(1), QM(1)	280	SVGCMS7	MSTD PAHLVI 160 PPB 14I18662 (PAH CALIE
Scan File Path: y:\102214A\1022A_17.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_17.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 4 PPB 14I18662 (PAH CALIBRAT
Scan File Path: y:\102214A\1022A_17MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_17.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 4 PPB 14I18662 (PAH CALIBRAT
Scan File Path: y:\102214A\1022A_18.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_18.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 16 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_18MRL.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_18.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 16 PPB 14I18662 (PAH CALIBRA

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\102214A\1022A_19.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_19.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 40 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_20.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_20.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 80 PPB 14I18662 (PAH CALIBRA
Scan File Path: y:\102214A\1022A_21.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_21.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 400 PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_22.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_22.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 800 PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_23.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_23.D					
0	Scanned		280	SVGCMS7	STD PAHLVI 2K PPB 14I18662 (PAH CALIBR
Scan File Path: y:\102214A\1022A_24.D					
Original Path: C:\MSDCHEM\1\DATA\102214A\1022A_24.D					
4	Scanned	DS(2), D(2)	280	SVGCMS7	STD PAHLVI 160 PPB 14I18671 (PAH SSCV)

D	=	Deletion of any analyte	DS	=	Deletion of a surrogate
M	=	Manual integration (non-specific)	MI	=	Manual integration of an internal standard
MM	=	More than 3 manual integrations of the same analyte	MR	=	Manual integration with before/after ratio <10%
MT	=	Multiple manual integrations of the same analyte >10 minutes apart	QM	=	Processed >3 times using the same method

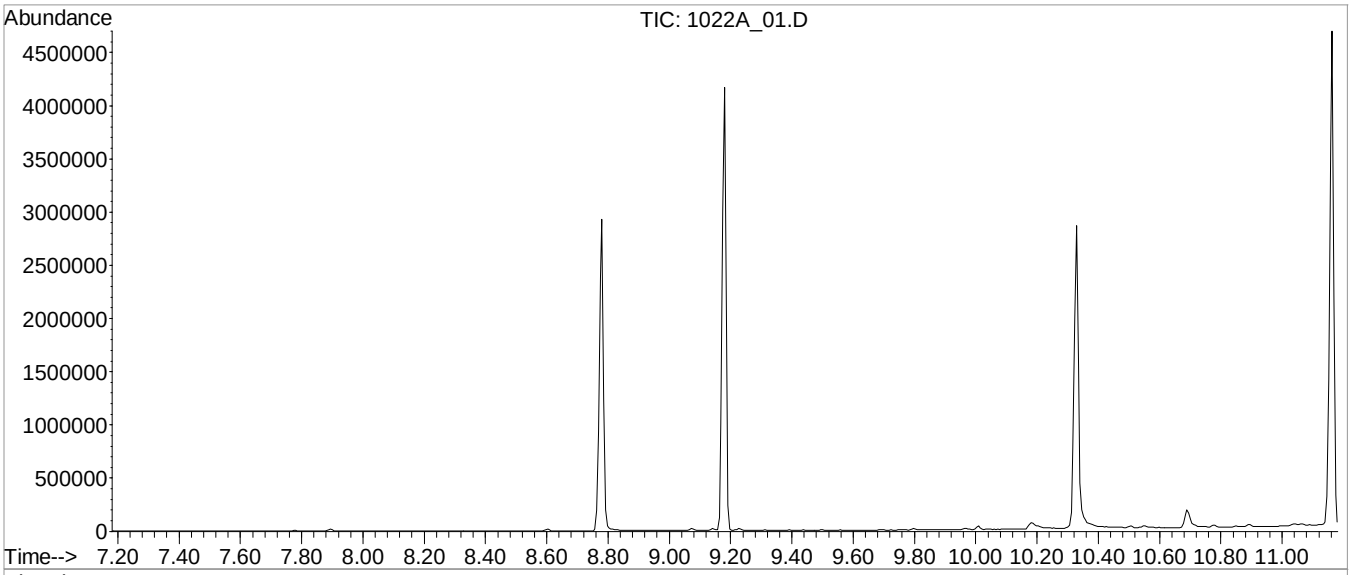
ScanSummary.rpt

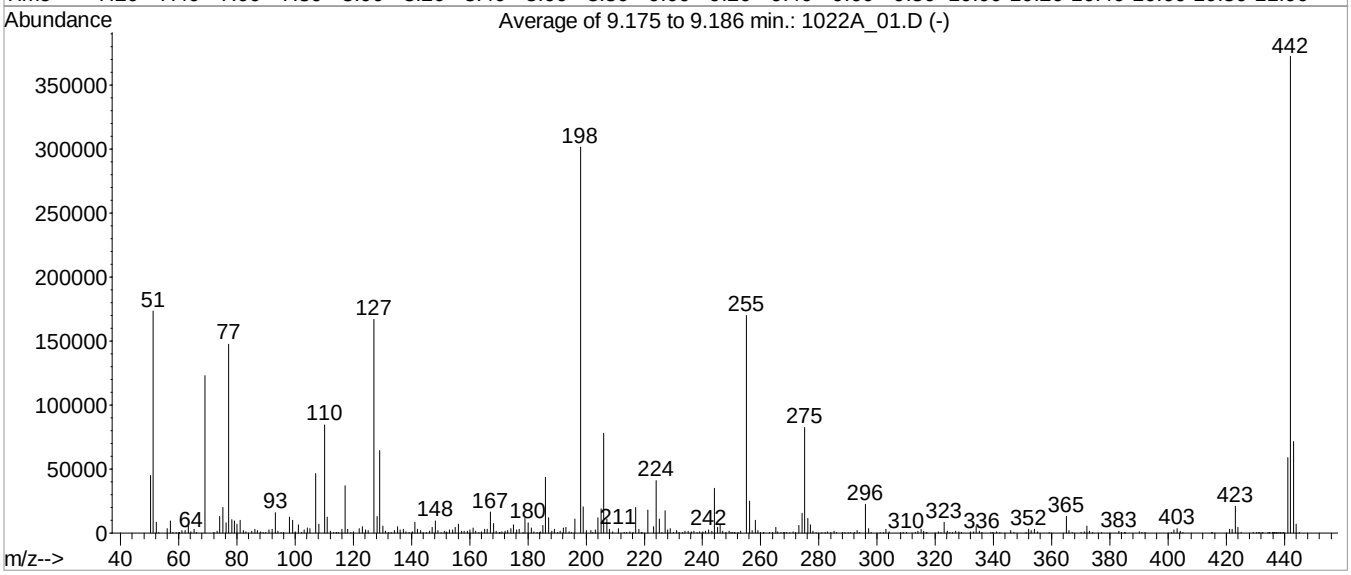
Total Files Scanned	28	Beginning Analyzed Date	10/22/2014 10:20:00AM
Methods	0	Ending Analyzed Date	10/22/2014 7:38:00PM
Samples	27	Analyzed Range	9 hours, 18 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA





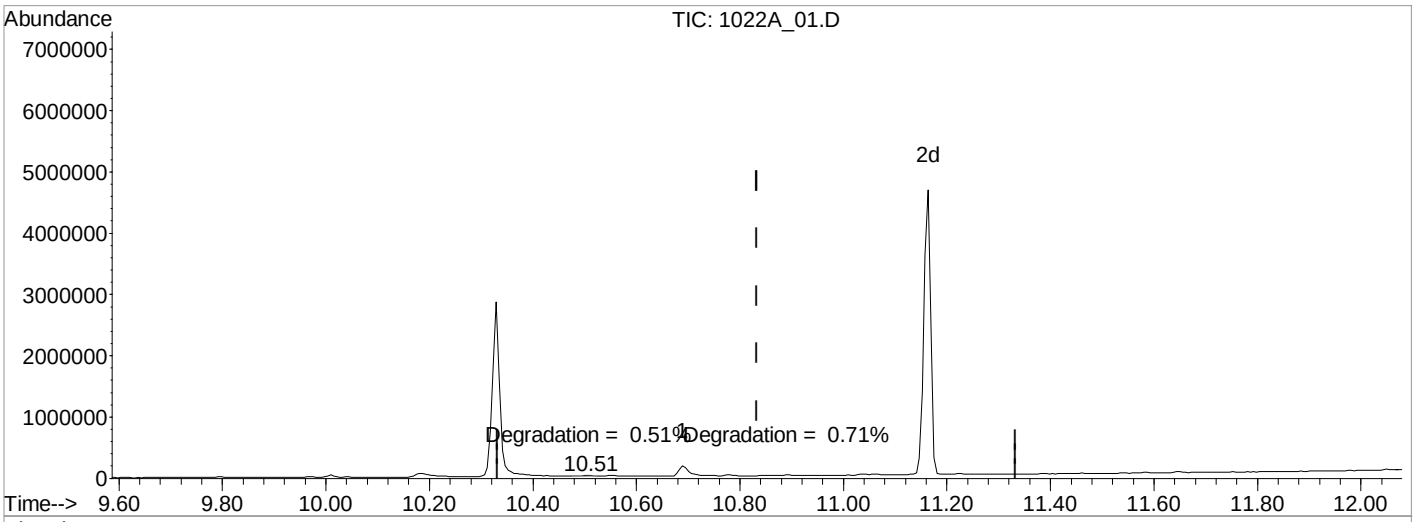
AutoFind: Scans 979, 980, 981; Background Corrected with Scan 973

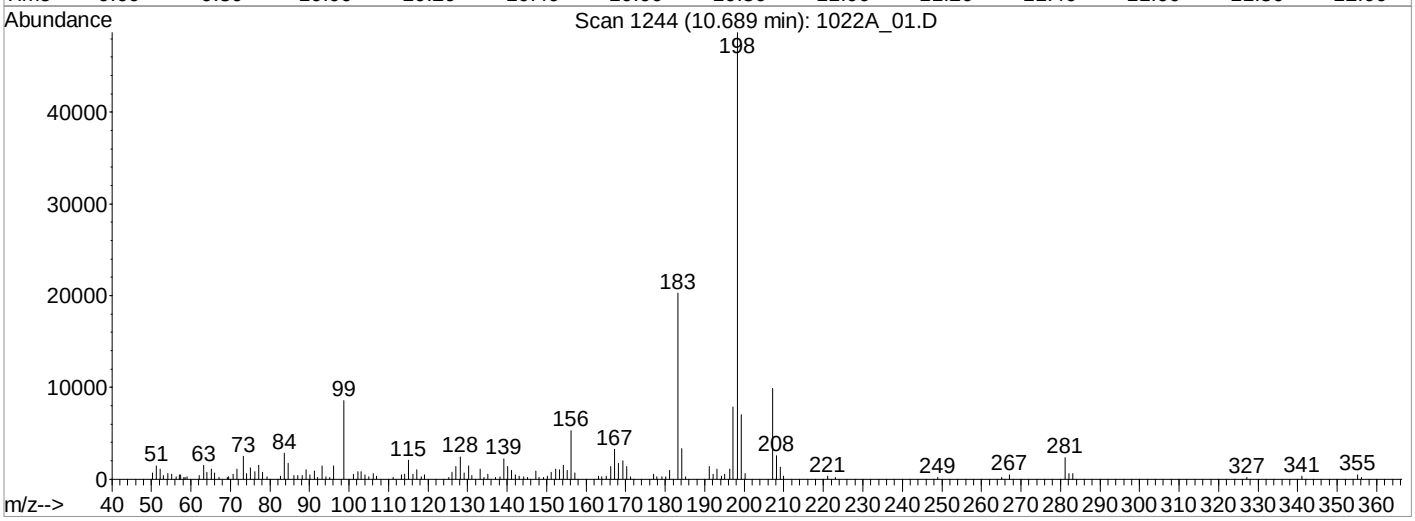
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	46.5	173443	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	442	10	80	44.8	167032	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	80.9	301738	PASS
199	198	5	9	6.7	20146	PASS
275	442	10	60	22.1	82474	PASS
365	442	1	100	3.5	12883	PASS
441	443	0.01	100	82.7	58818	PASS
442	442	50	100	100.0	372800	PASS
443	442	15	24	19.1	71144	PASS

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1022A_01.D

(4) DDT (MT)

10.69min (-0.143) 18.1507883 ug/ml

Qvalue = 100

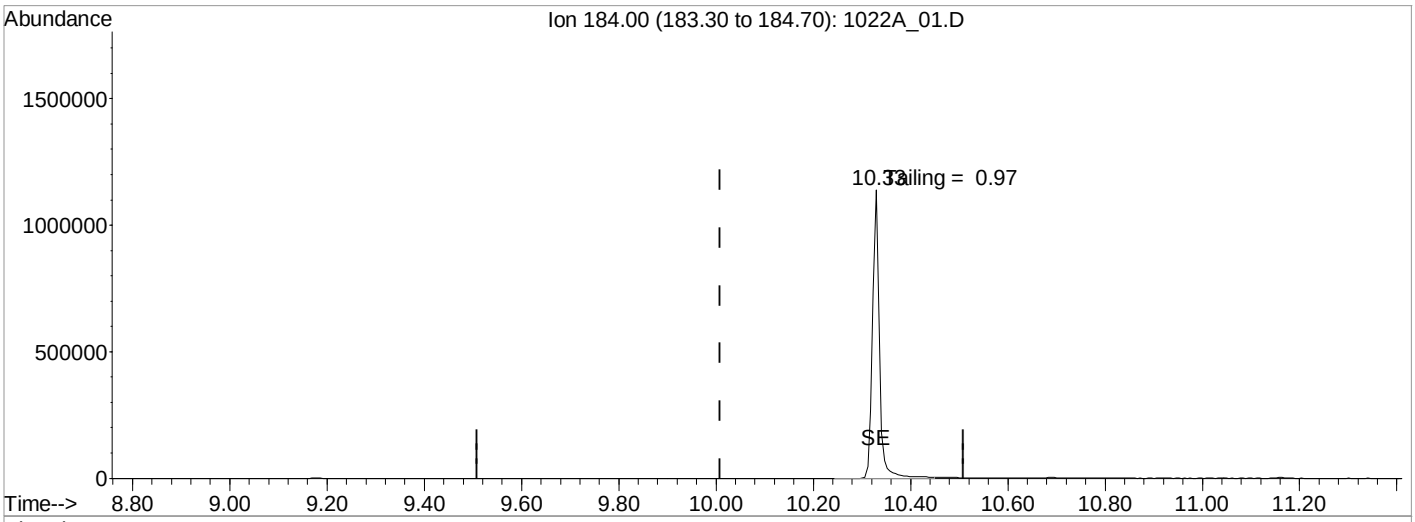
response 244241

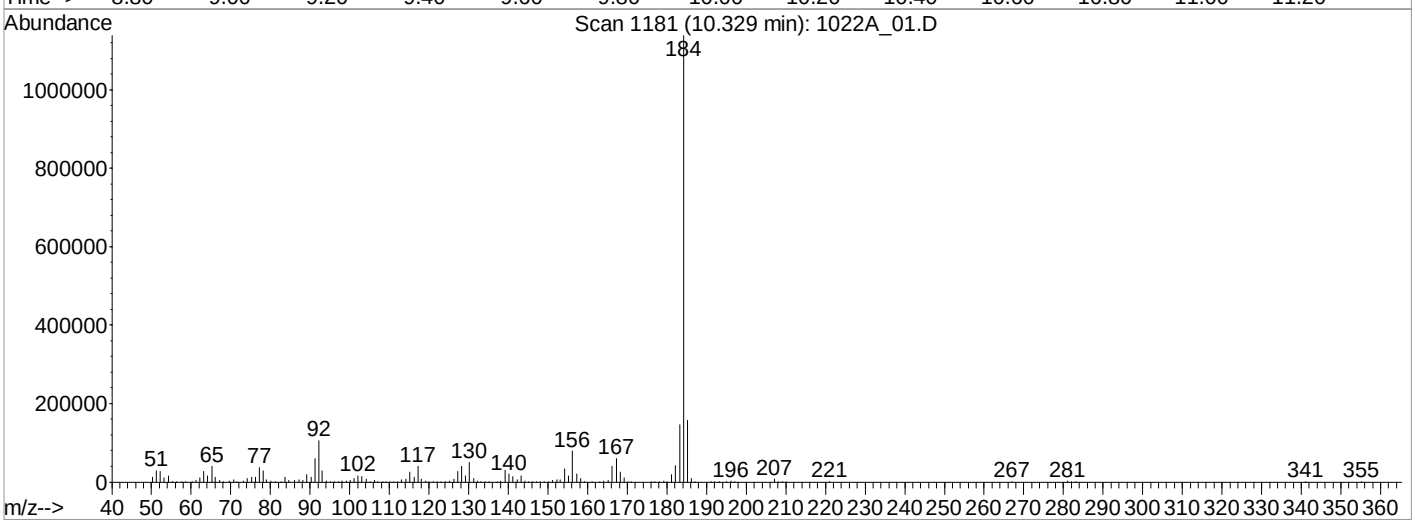
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1022A_01.D

(3) Benzidine (MT)

10.33min (+0.320) 46.7744287 ug/mL

Qvalue = 100

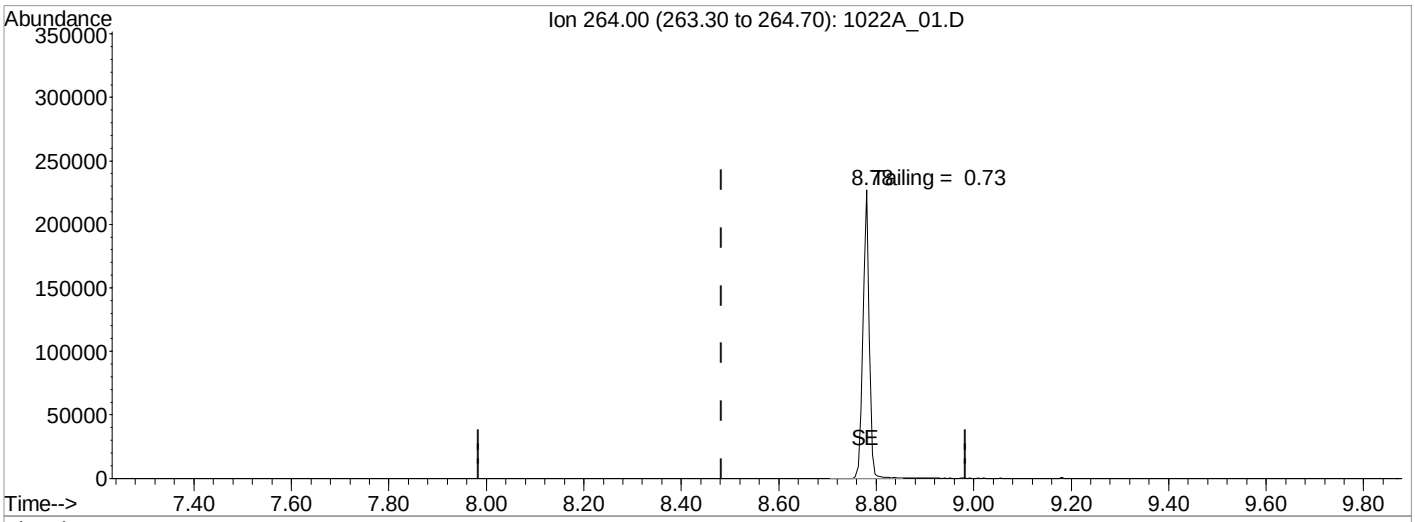
response 1122663

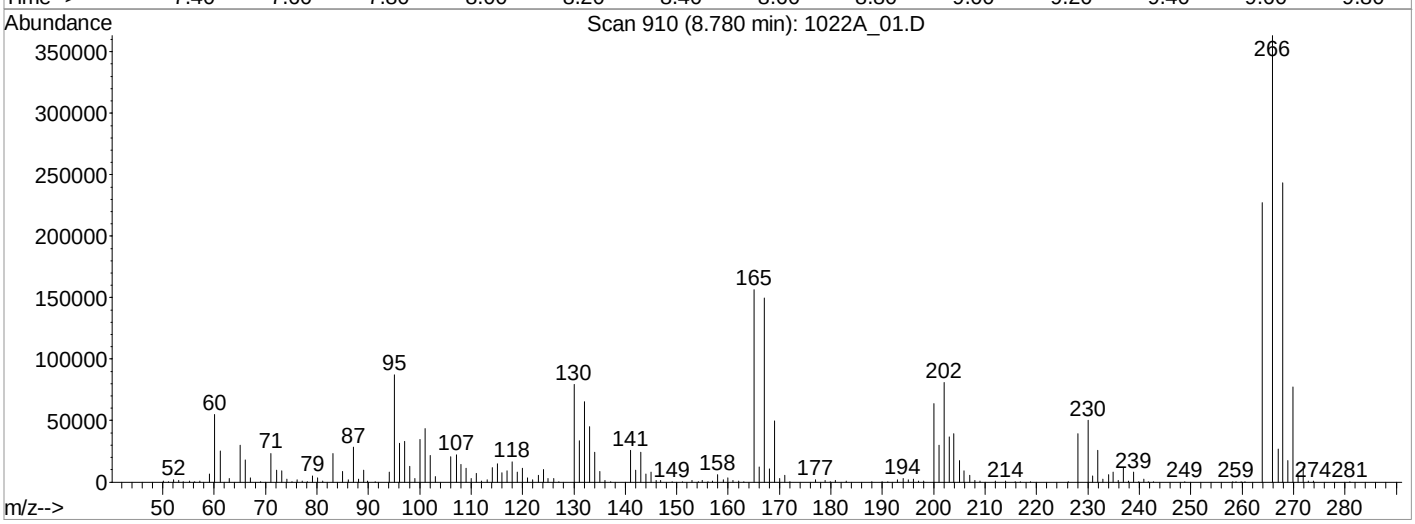
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Single Level Calibration





TIC: 1022A_01.D

(1) Pentachlorophenol (TM)

8.78min (+0.297) 34.7675503 ug/mL

Qvalue = 100

response 202877

Ion	Exp%	Act%
264.00	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 File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:41 2014 Quant Results File: TUNE525.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration
DataAcq Meth : PAH_20UL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

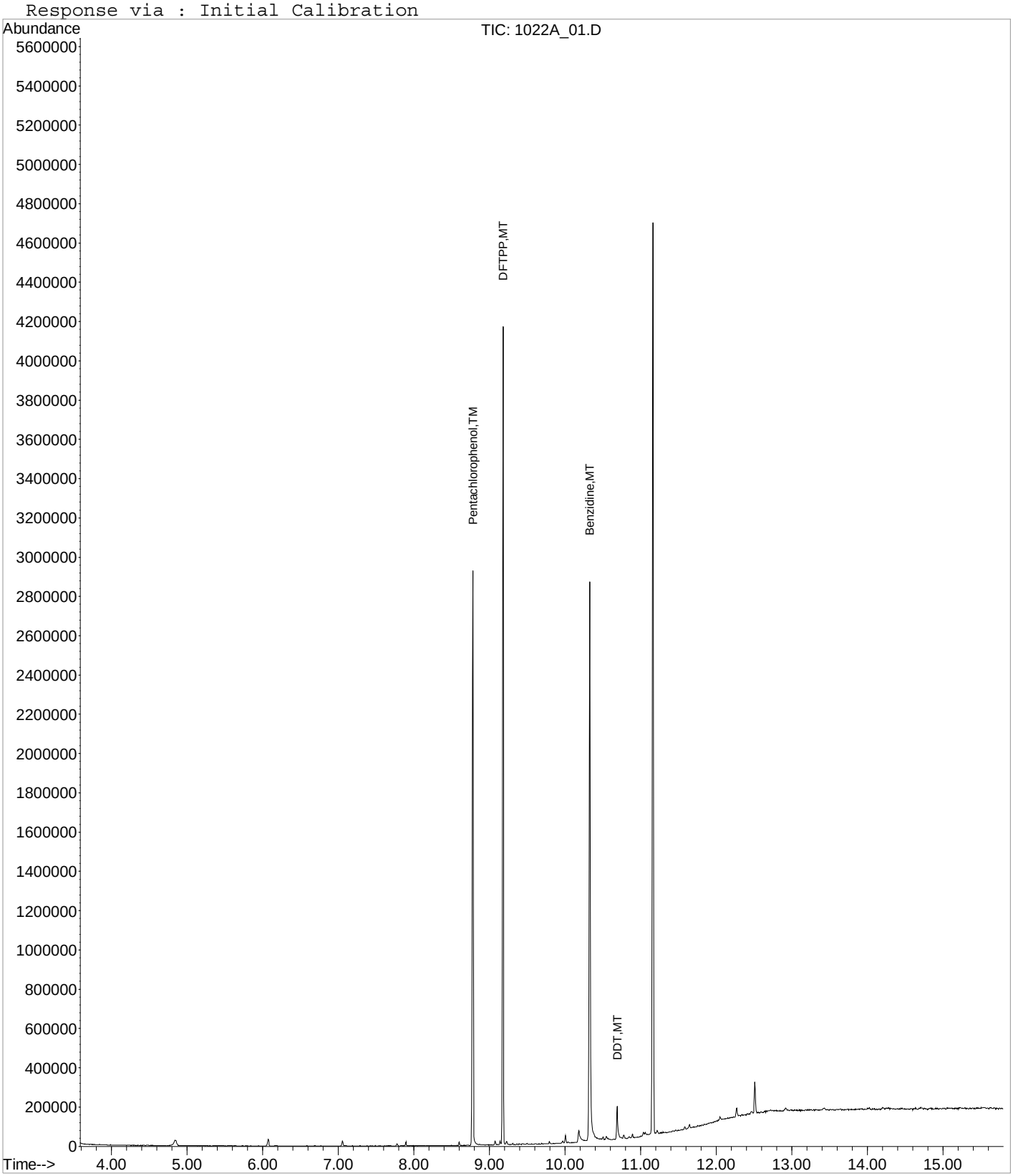
Target Compounds					Qvalue
1) Pentachlorophenol	8.78	264	202877	34.7675503 ug/mL	100
2) DFTPP	9.18	198	354054	47.8525070 ug/mL	100
3) Benzidine	10.33	184	1122663	46.7744287 ug/mL	100
4) DDT	10.69	TIC	244241	18.1507883 ug/ml	100
5) DDT	10.47	235	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 01.D Vial: 2
Acq On : 22 Oct 2014 10:20 am Operator: 280
Sample : TUNE DFTPP 2 PPM 14J03433 Inst : SVGCMS7
Misc : DFTTP TUNE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 10:41 2014 Quant Results File: TUNE525.RES

Method : C:\MSDCHEM\1\METHODS\TUNE525.M (RTE Integrator)
Title : 8270 BNA
Last Update : Tue May 14 16:44:31 2013
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGCMS7	Review Method	: LVI PAH	Released By	: Kelly Fox
Method	: SS07J22N	Review Protocol	: SW846	Released On	: 10/23/2014 7:17:23 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS07J22N -- ICal Updated Time: Wed Oct 22 15:37:36 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.273	0.275	0.263	0.286	0.278	0.274	0.309	0.319	0.325	0.289275	7.75	0.077	1	
Naphthalene		1.204	1.019	1.051	0.98	0.956	1.022	1.015	1.031	1.034608	7.19	0.072	1	0.7
2-Methylnaphthalene	0.638	0.659	0.61	0.671	0.633	0.629	0.687	0.685	0.693	0.655933	4.52	0.045	1	0.4
1-Methylnaphthalene	0.594	0.612	0.569	0.621	0.591	0.586	0.641	0.64	0.643	0.610849	4.46	0.045	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.228	1.284	1.188	1.292	1.209	1.185	1.315	1.274	1.31	1.253898	4.13	0.041	1	
2-Chloronaphthalene	1.019	1.066	0.985	1.089	1.016	1.003	1.094	1.072	1.078	1.046872	3.9	0.039	1	0.8
Acenaphthylene	1.528	1.607	1.487	1.664	1.618	1.579	1.801	1.83	1.87	1.664897	8.27	0.083	1	0.9
Acenaphthene	1.088	1.134	1.052	1.153	1.075	1.066	1.177	1.172	1.186	1.122553	4.68	0.047	1	0.9
Dibenzofuran	1.445	1.501	1.389	1.528	1.417	1.411	1.556	1.507	1.524	1.475284	4.1	0.041	1	0.8
Fluorene	1.2	1.269	1.169	1.287	1.229	1.21	1.345	1.333	1.372	1.268202	5.61	0.056	1	0.9
Phenanthrene-d10														
Phenanthrene	1.094	1.086	1.008	1.115	1.029	1.022	1.158	1.127	1.153	1.088021	5.2	0.052	1	0.7
Anthracene	0.941	0.98	0.915	1.03	1	0.997	1.168	1.172	1.202	1.044956	10.29	0.103	1	0.7
Fluoranthene	1.021	1.058	0.984	1.101	1.042	1.037	1.211	1.191	1.21	1.09509	7.98	0.08	1	0.6
Chrysene-d12														
Pyrene	1.219	1.232	1.141	1.247	1.171	1.146	1.24	1.26	1.313	1.218839	4.66	0.047	1	0.5
p-Terphenyl-d14	0.951	0.952	0.886	0.97	0.909	0.894	0.958	0.971	0.997	0.943217	4.04	0.04	1	
Benzo(a)anthracene	1.122	1.057	0.962	1.062	1.021	1.013	1.089	1.143	1.208	1.07529	6.97	0.07	1	0.8
Chrysene	1.054	1.068	0.98	1.064	1.005	0.974	1.062	1.067	1.136	1.045544	4.88	0.049	1	0.7
Perylene-d12														
Benzo(b)fluoranthene	1.134	1.089	0.987	1.106	1.041	1.02	1.149	1.21	1.175	1.101056	6.75	0.068	1	0.7

PDF Generated On: 10/23/2014 - By: Kelly Fox

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGCMS7	Review Method	: LVI PAH	Released By	: Kelly Fox
Method	: SS07J22N	Review Protocol	: SW846	Released On	: 10/23/2014 7:17:23 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS07J22N -- ICal Updated Time: Wed Oct 22 15:37:36 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Benzo(k)fluoranthene	0.933	1.03	0.969	1.046	0.993	0.971	1.014	1.158	1.055	1.018749	6.43	0.064	1	0.7
Benzo(a)pyrene	0.849	0.874	0.807	0.898	0.856	0.84	0.939	0.977	0.994	0.892543	7.23	0.072	1	0.7
Indeno(1,2,3-cd)pyrene	1.075	1.067	0.987	1.097	1.039	1.015	1.075	1.321	1.279	1.106095	10.44	0.104	1	0.5
Dibenz(a,h)anthracene	0.876	0.896	0.834	0.933	0.878	0.856	0.924	1.133	1.121	0.93898	11.8	0.118	1	0.4
Benzo(g,h,i)perylene	0.947	0.937	0.859	0.961	0.892	0.867	0.915	1.103	1.019	0.944355	8.19	0.082	1	0.5

PDF Generated On: 10/23/2017 -- By: Kelly Fox

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88842	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48796	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	78396	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60526	40.00 ppb	0.00
22) Perylene-d12	13.31	264	59889	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	607	0.9447545 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 47.24%		
7) 2-Fluorobiphenyl	6.72	172	1498	0.9793218 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 48.97%#		
19) p-Terphenyl-d14	10.57	244	1439	1.0082472 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 50.41%#		

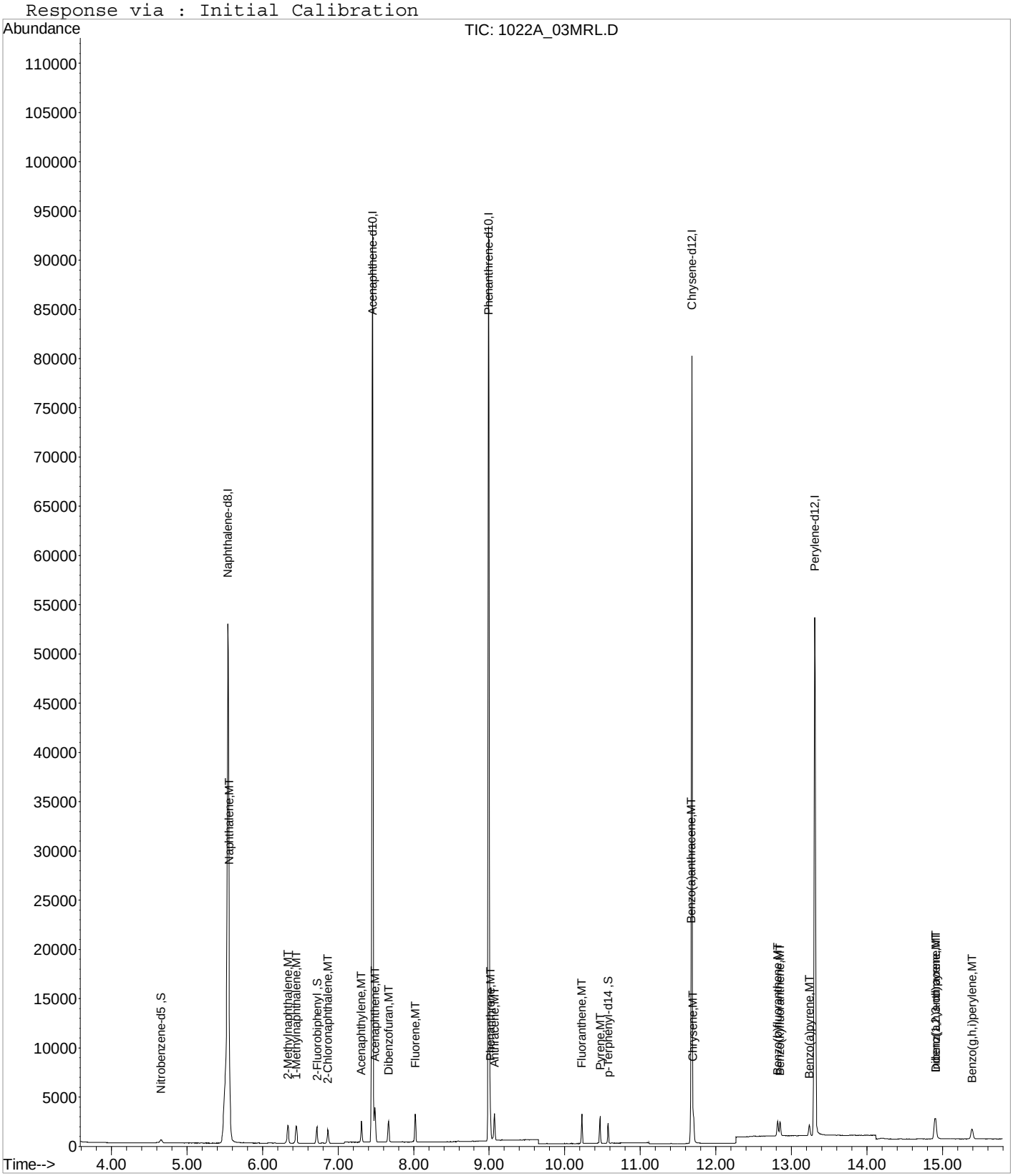
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.8281786 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	0.9733265 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	0.9721928 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	0.9733146 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9177708 ppb	98
10) Acenaphthene	7.49	153	1327	0.9690362 ppb	92
11) Dibenzofuran	7.67	168	1763	0.9796083 ppb	95
12) Fluorene	8.02	166	1464	0.9462993 ppb	100
14) Phenanthrene	9.02	178	2145	1.0059032 ppb	99
15) Anthracene	9.07	178	1844	0.9003866 ppb	98
16) Fluoranthene	10.22	202	2002	0.9327826 ppb	99
18) Pyrene	10.47	202	1845	1.0003870 ppb	98
20) Benzo(a)anthracene	11.66	228	1698	1.0435900 ppb	94
21) Chrysene	11.70	228	1595	1.0081756 ppb	96
23) Benzo(b)fluoranthene	12.82	252	1698	1.0300098 ppb	97
24) Benzo(k)fluoranthene	12.85	252	1397	0.9158879 ppb	93
25) Benzo(a)pyrene	13.23	252	1271	0.9511072 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.90	276	1571m	0.9486293 ppb	
27) Dibenz(a,h)anthracene	14.91	278	1312	0.9332341 ppb #	88
28) Benzo(g,h,i)perylene	15.39	276	1386m	0.9802594 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: SS07J22N.RES

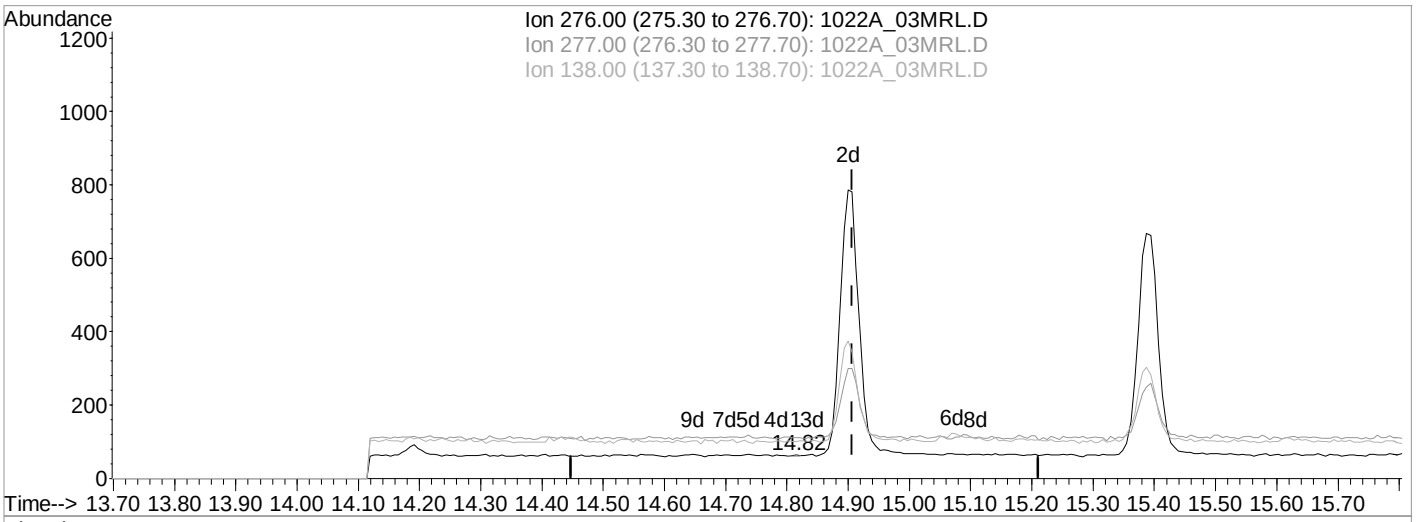
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

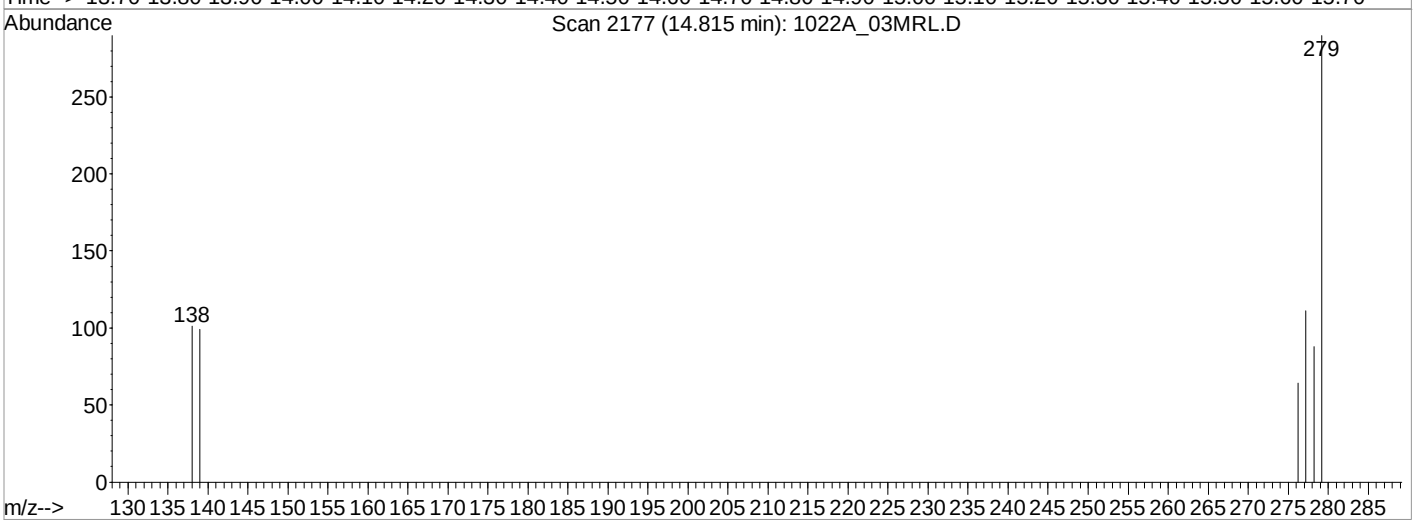


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.82min (-0.091) 0.0018115 ppb

Qvalue = 89

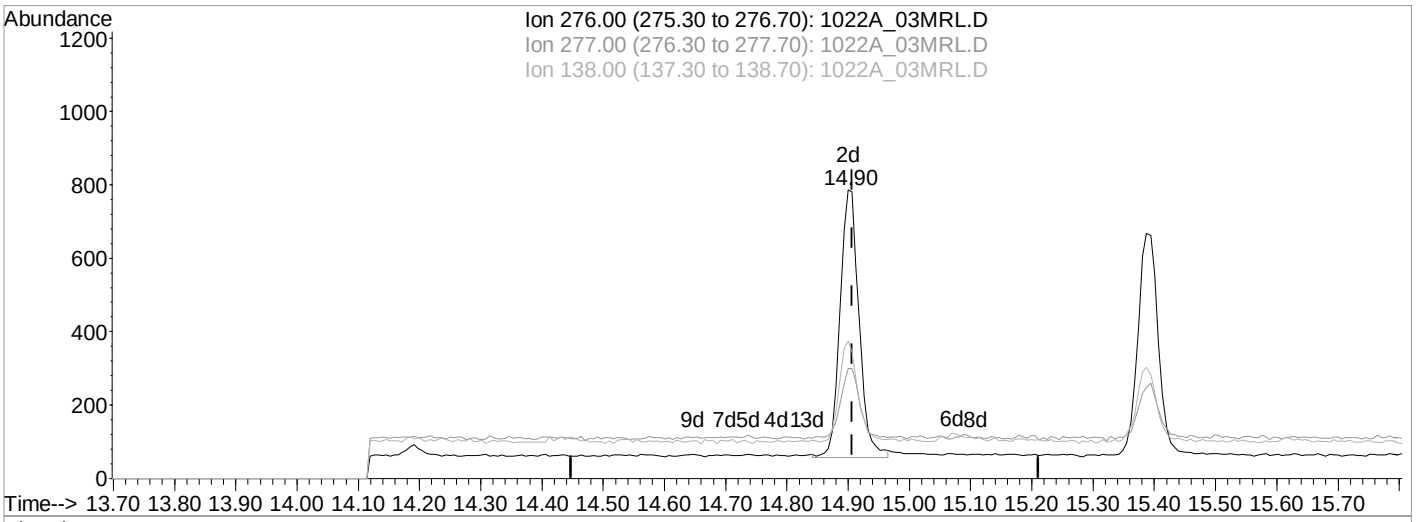
response 3

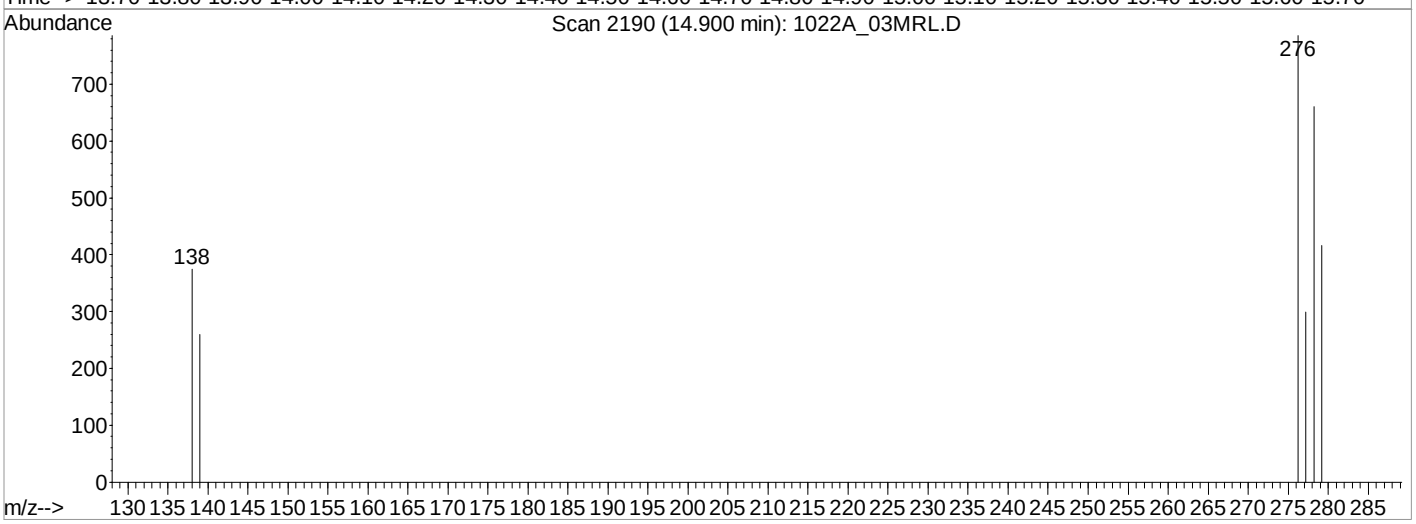
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.90min (-0.007) 0.9486293 ppb m

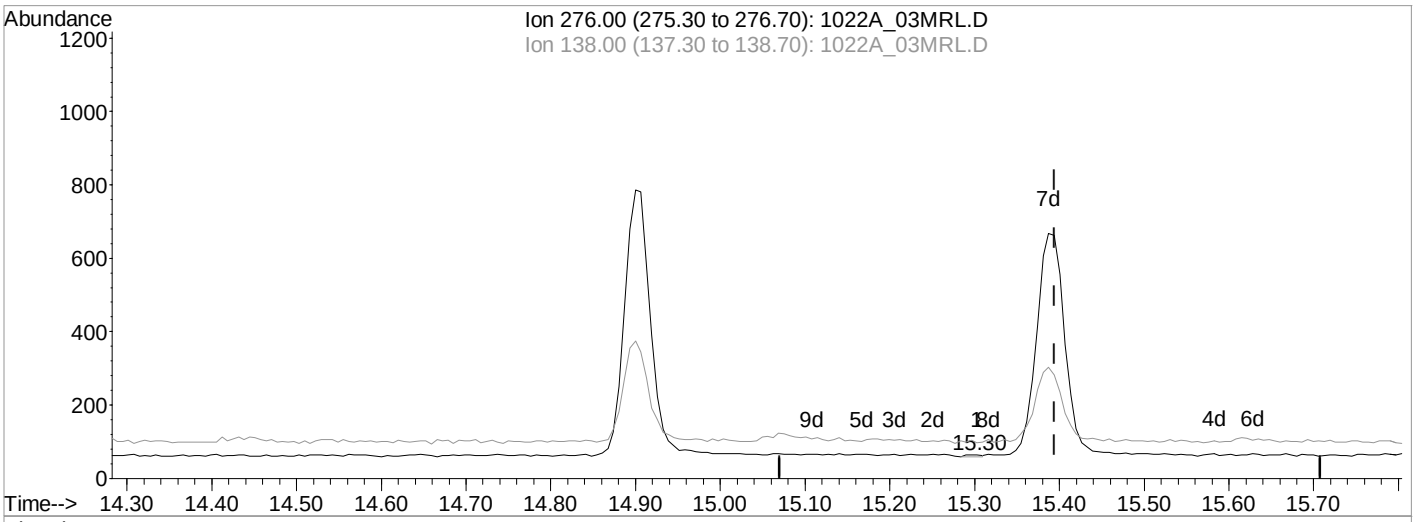
response 1571

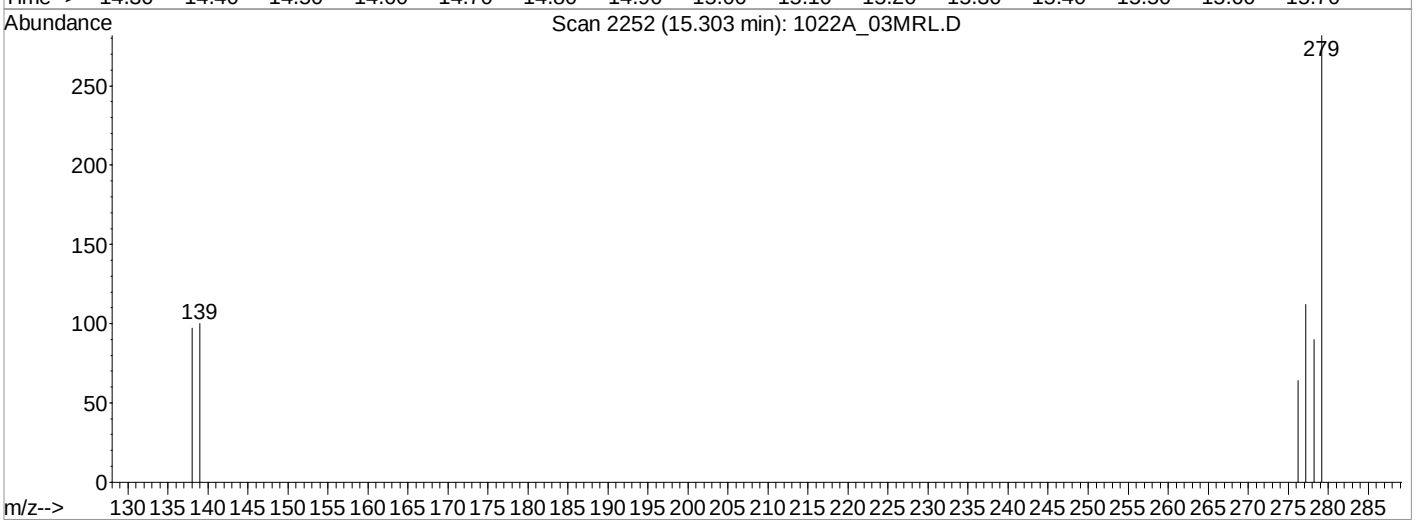
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.30min (-0.091) 0.0042435 ppb

Qvalue = 74

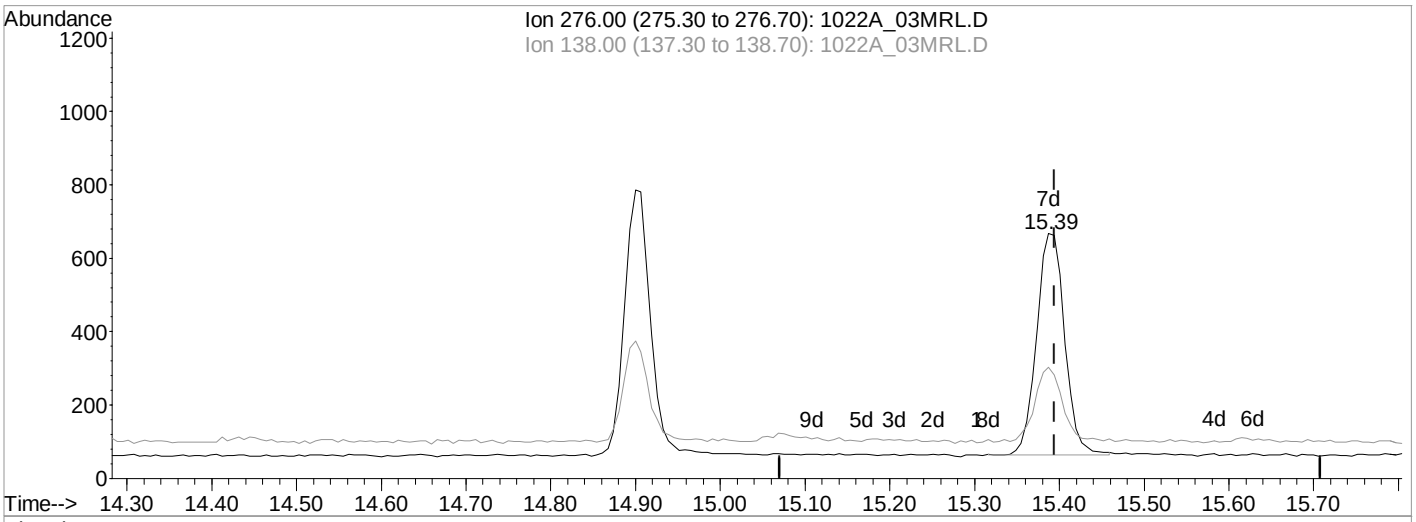
response 6

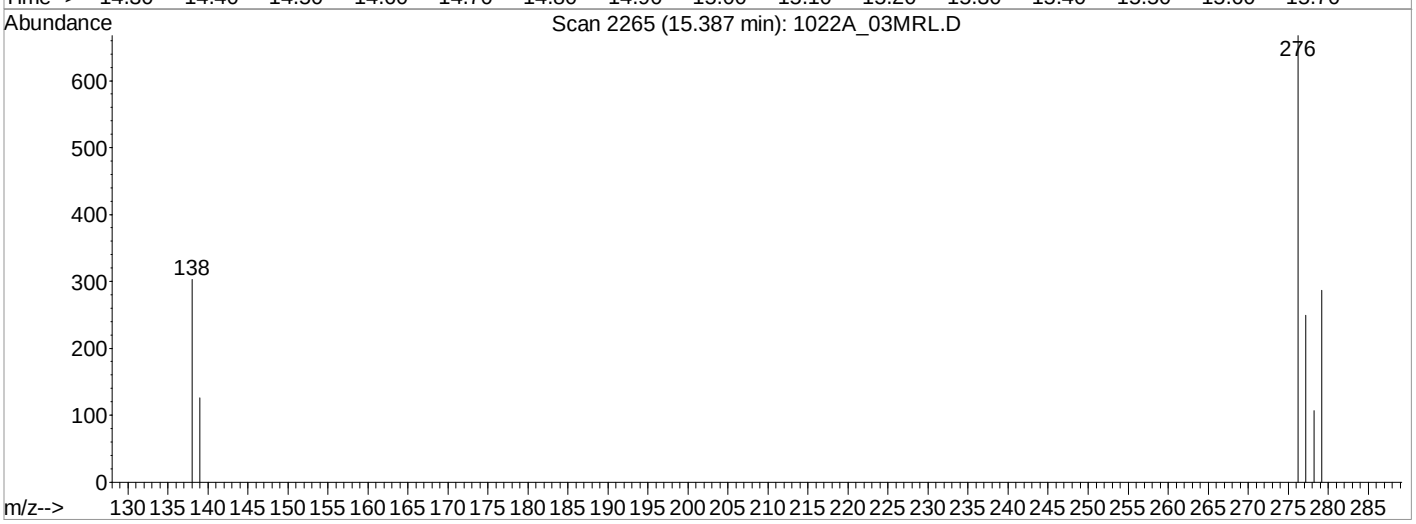
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03MRL.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : MRL SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:12 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_03MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 0.9802594 ppb m

response 1386

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	45.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	87717	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47923	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	77734	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60354	40.00 ppb	0.00
22) Perylene-d12	13.30	264	59156	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	3019	4.7591342 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 237.96%#	
7) 2-Fluorobiphenyl	6.72	172	7691	5.1196072 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 255.98%#	
19) p-Terphenyl-d14	10.57	244	7184	5.0478735 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 252.39%#	

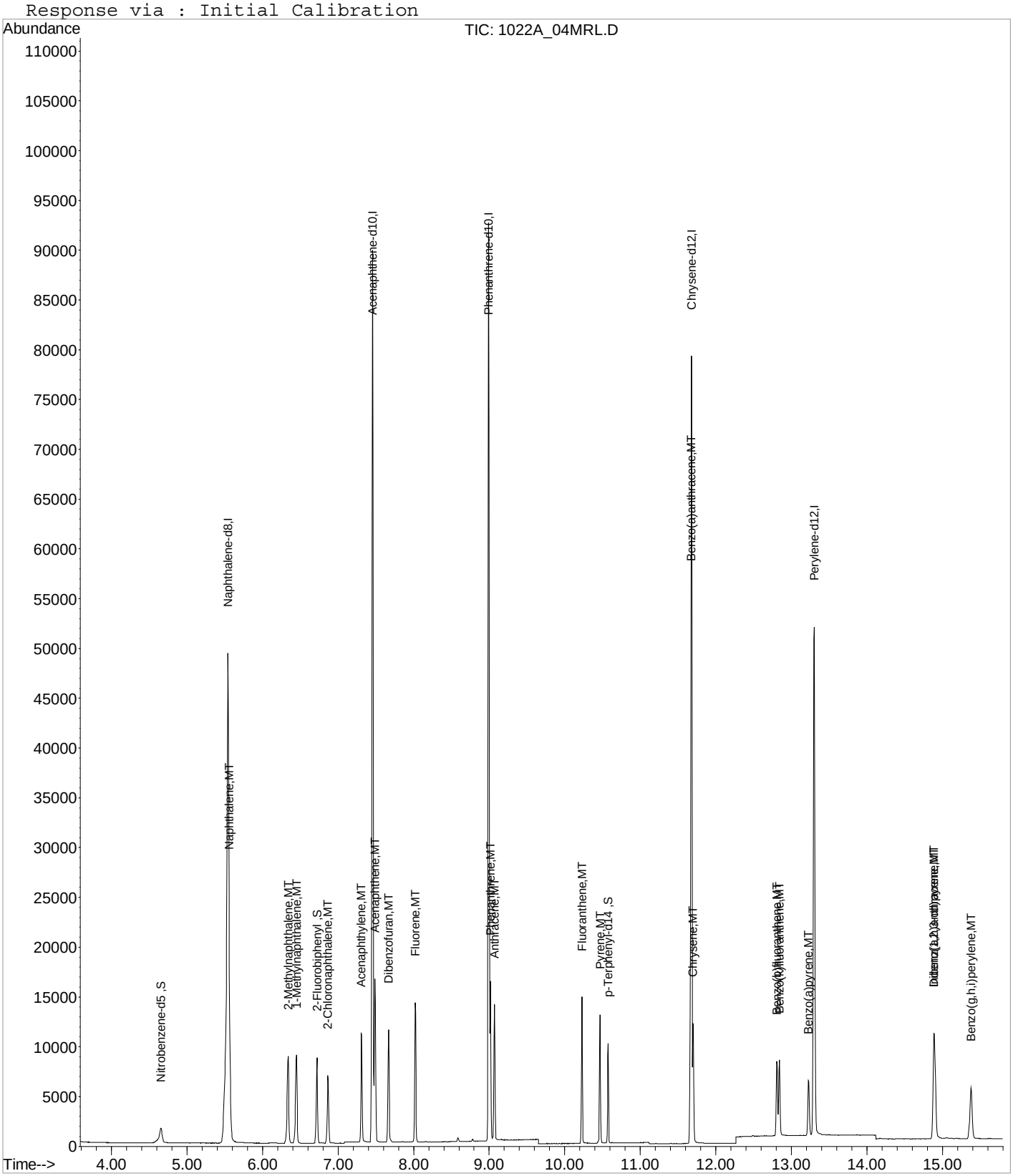
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	5.8166873 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.0242929 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.0106504 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.0907672 ppb	98
9) Acenaphthylene	7.31	152	9625	4.8253554 ppb	100
10) Acenaphthene	7.49	153	6794	5.0516683 ppb	95
11) Dibenzofuran	7.67	168	8992	5.0874094 ppb	96
12) Fluorene	8.02	166	7601	5.0026299 ppb	97
14) Phenanthrene	9.02	178	10556	4.9924206 ppb	98
15) Anthracene	9.07	178	9521	4.6884959 ppb	99
16) Fluoranthene	10.23	202	10280	4.8305032 ppb	97
18) Pyrene	10.47	202	9297	5.0553407 ppb	98
20) Benzo(a)anthracene	11.66	228	7977	4.9166323 ppb	99
21) Chrysene	11.70	228	8054	5.1053209 ppb	97
23) Benzo(b)fluoranthene	12.80	252	8054	4.9461075 ppb	97
24) Benzo(k)fluoranthene	12.84	252	7615	5.0543360 ppb	99
25) Benzo(a)pyrene	13.22	252	6462	4.8955233 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.89	276	7904m	4.8318735 ppb	
27) Dibenz(a,h)anthracene	14.89	278	6628	4.7729568 ppb #	88
28) Benzo(g,h,i)perylene	15.37	276	6906m	4.9448444 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: SS07J22N.RES

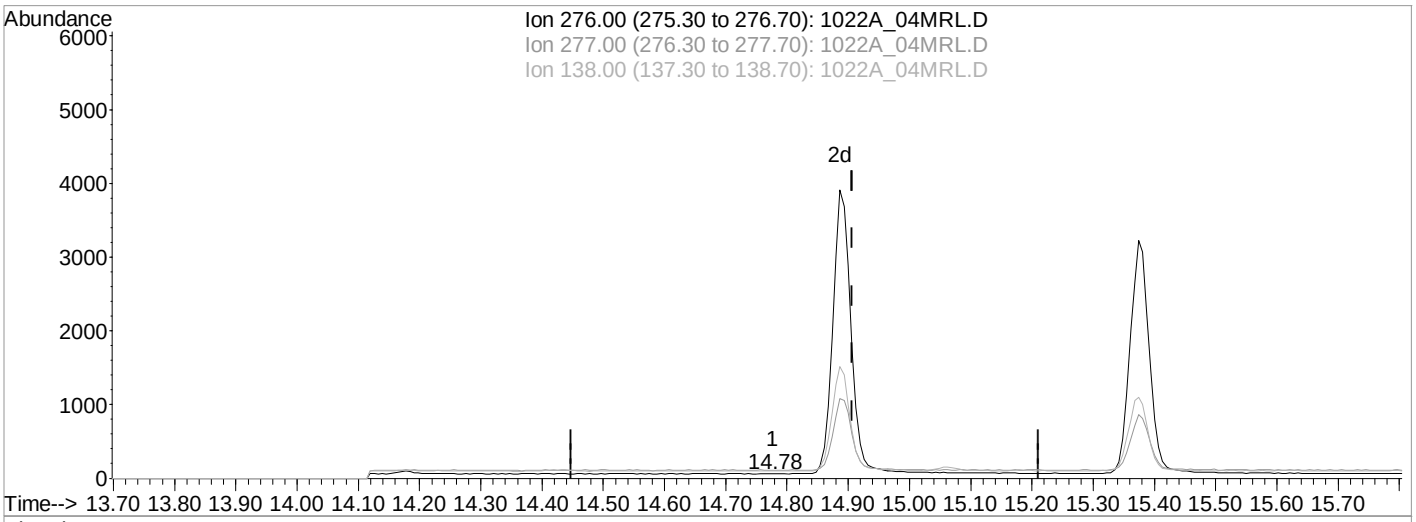
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

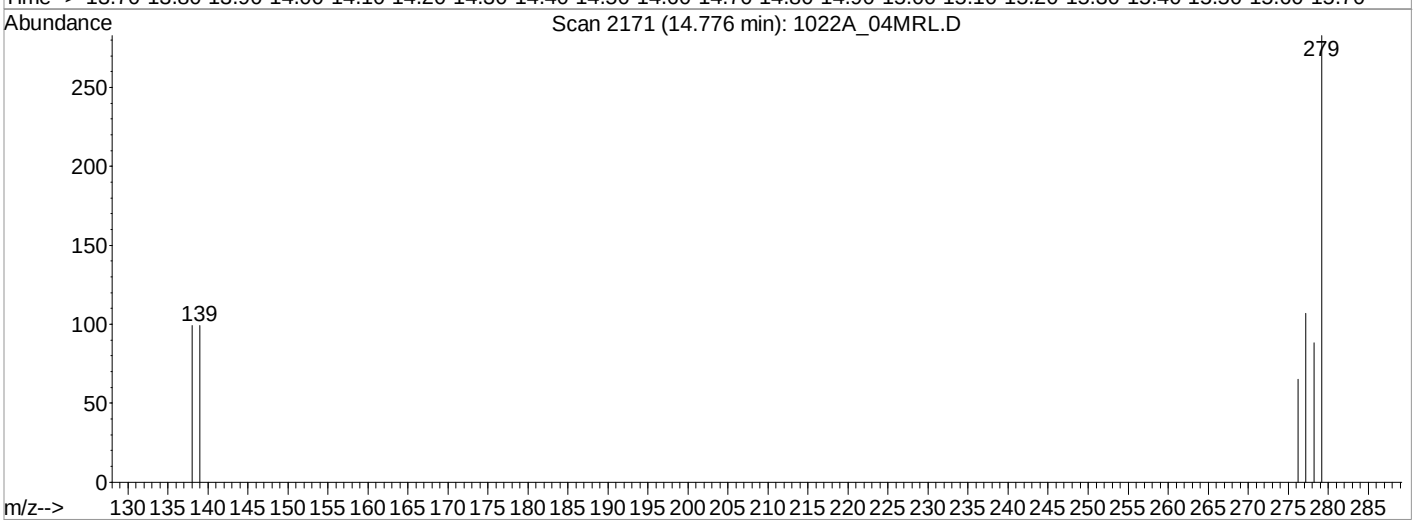


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.78min (-0.130) 0.0067245 ppb

Qvalue = 77

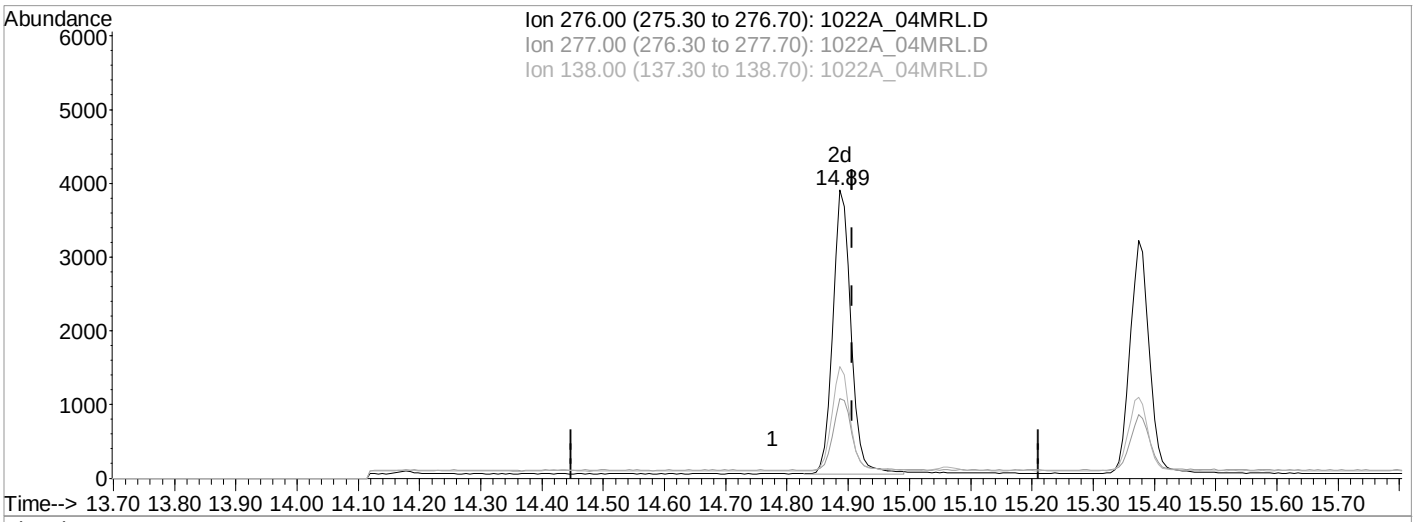
response 11

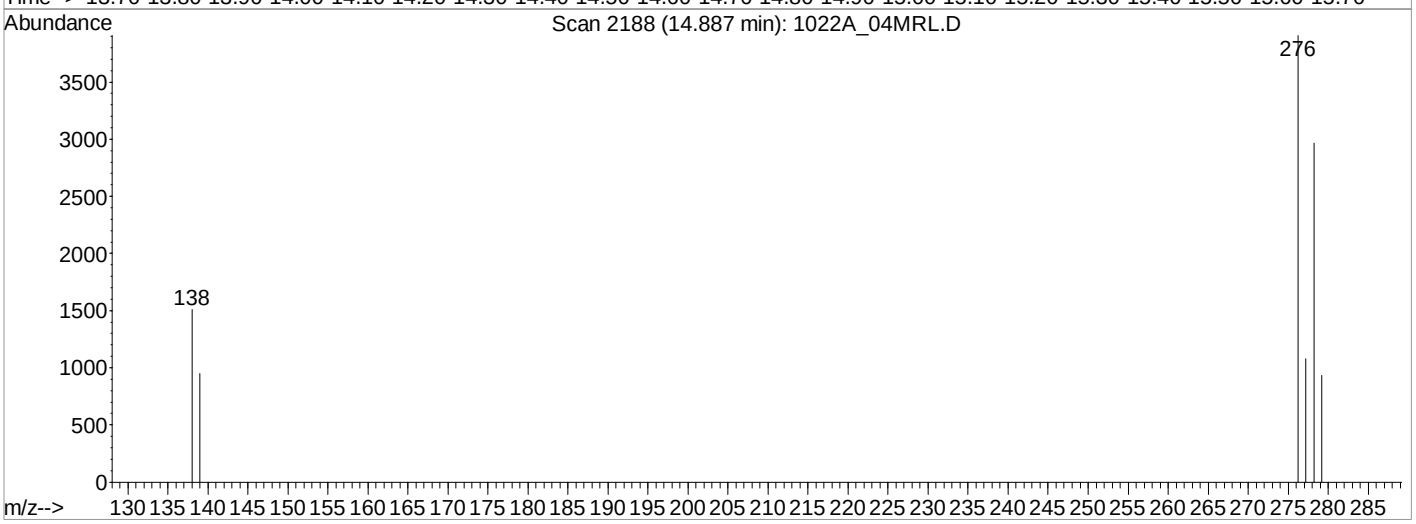
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.89min (-0.020) 4.8318735 ppb m

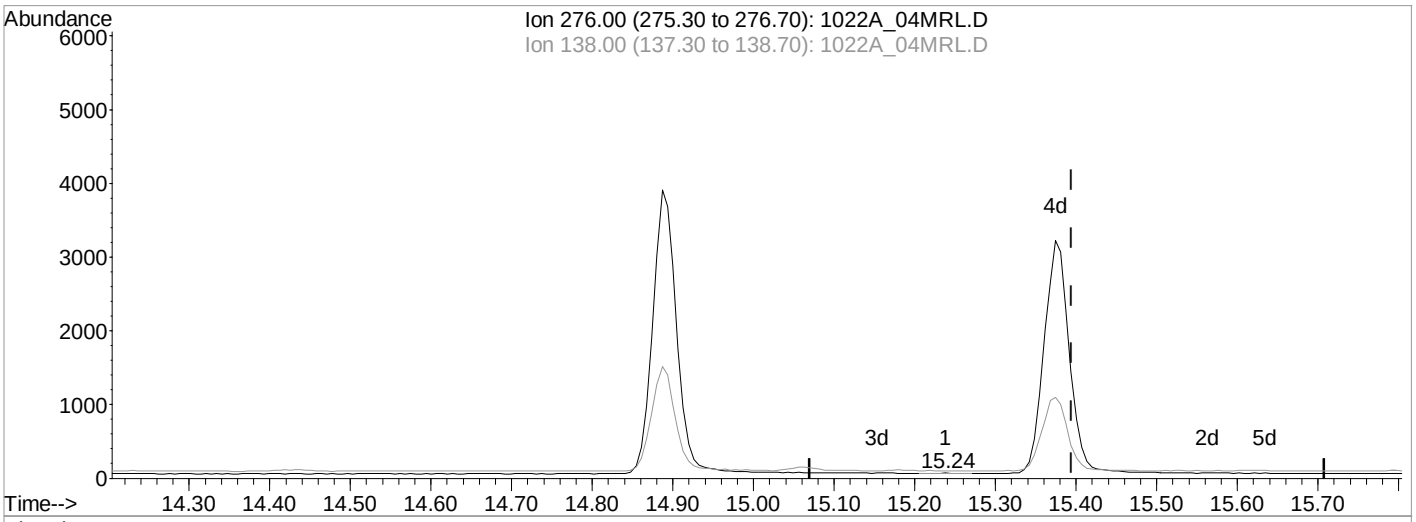
response 7904

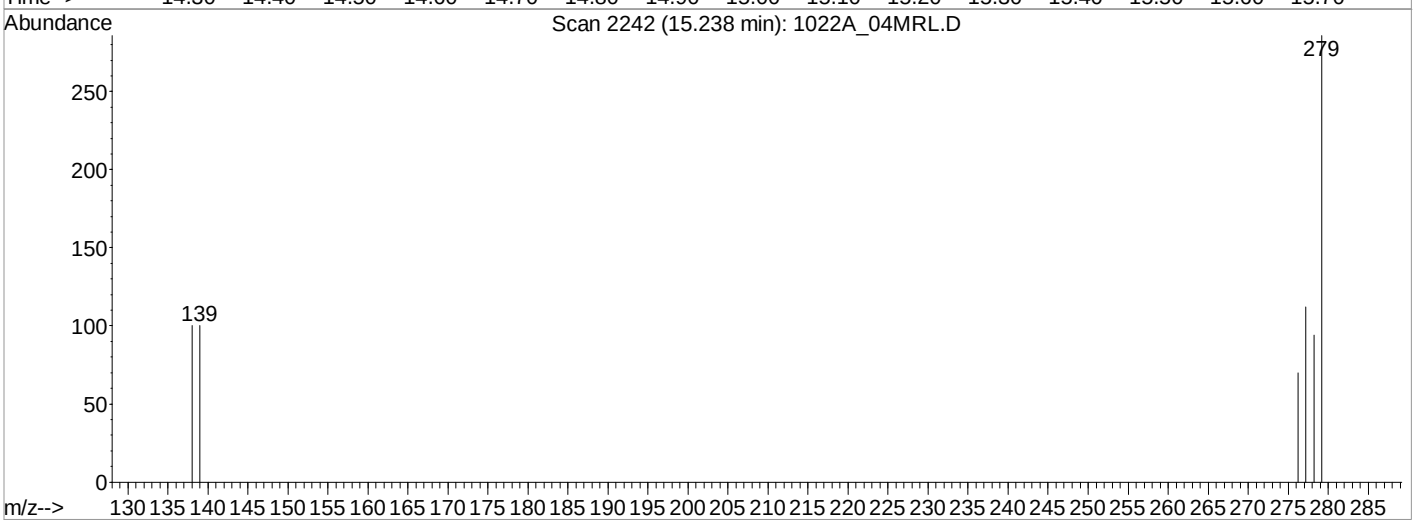
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.24min (-0.156) 0.0064442 ppb

Qvalue = 72

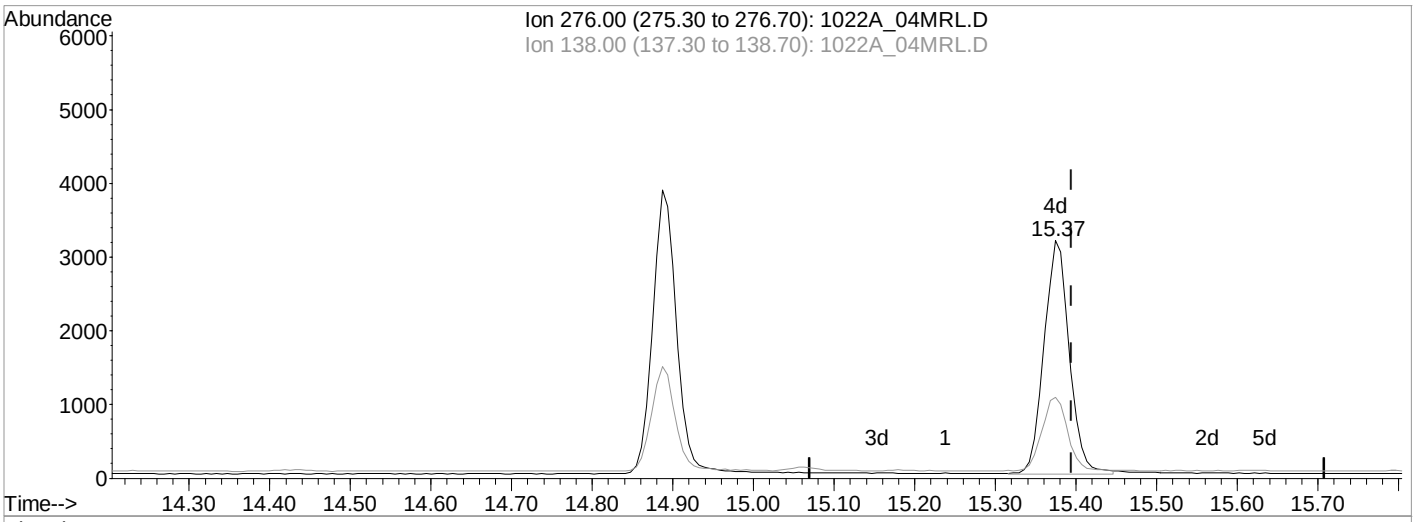
response 9

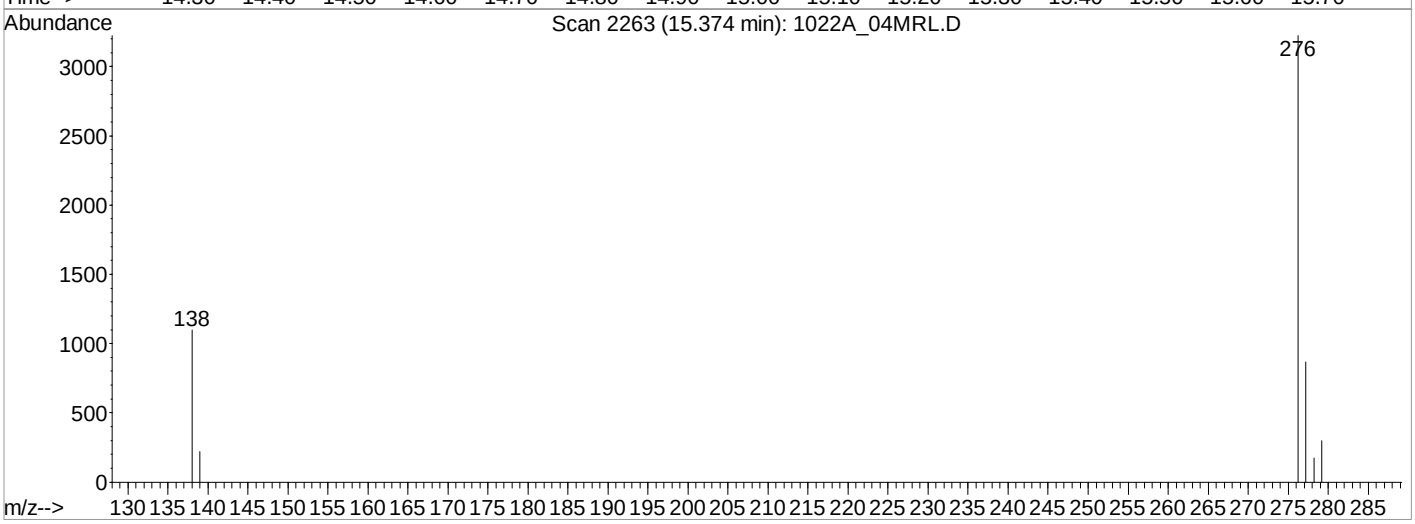
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04MRL.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : MRL SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_04MRL.D

(28) Benzo(g,h,i)perylene (MT)

15.37min (-0.020) 4.9448444 ppb m

response 6906

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	83638	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	45654	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	74400	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	61209	40.00 ppb	0.00
22) Perylene-d12	13.32	264	60030	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	61	0.1008497 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 5.04%#		
7) 2-Fluorobiphenyl	6.72	172	191	0.1334604 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 6.67%#		
19) p-Terphenyl-d14	10.57	244	372	0.2577365 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 12.89%#		

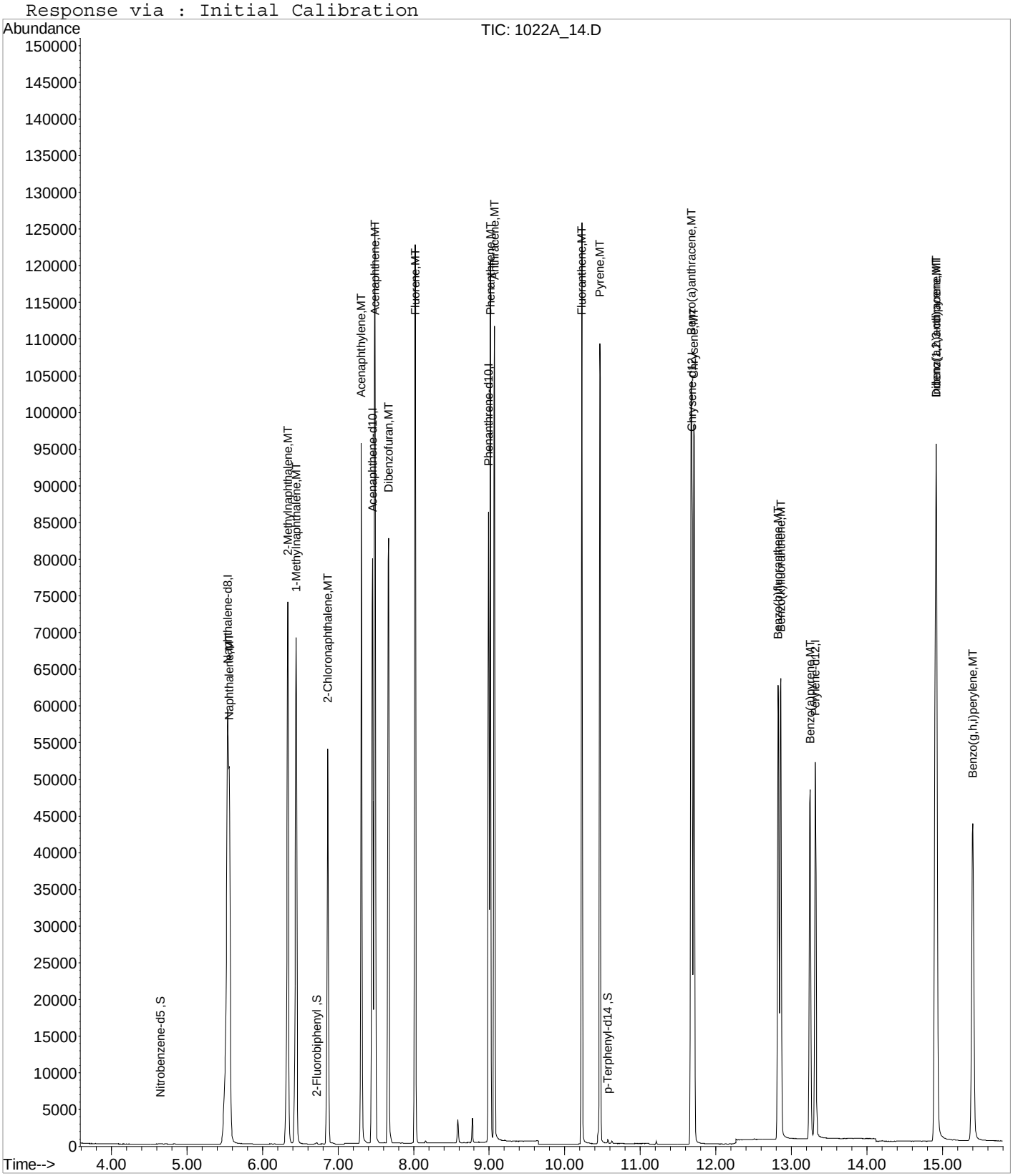
Target Compounds					Qvalue
3) Naphthalene	5.56	128	87327	40.3672509 ppb	99
4) 2-Methylnaphthalene	6.34	142	56351	41.0864530 ppb	95
5) 1-Methylnaphthalene	6.45	142	52592	41.1757928 ppb	98
8) 2-Chloronaphthalene	6.87	162	49388	41.3341427 ppb	93
9) Acenaphthylene	7.31	152	76881	40.4587777 ppb	99
10) Acenaphthene	7.49	153	53193	41.5172835 ppb	93
11) Dibenzofuran	7.67	168	70213	41.6987543 ppb	98
12) Fluorene	8.02	166	60951	42.1088755 ppb	99
14) Phenanthrene	9.01	178	84136	41.5749488 ppb	100
15) Anthracene	9.07	178	78985	40.6381264 ppb	98
16) Fluoranthene	10.22	202	85185	41.8215833 ppb	99
18) Pyrene	10.46	202	77424	41.5120309 ppb	98
20) Benzo(a)anthracene	11.67	228	67158	40.8147056 ppb	95
21) Chrysene	11.71	228	67193	41.9977697 ppb	97
23) Benzo(b)fluoranthene	12.82	252	67362	40.7659299 ppb	98
24) Benzo(k)fluoranthene	12.86	252	63681	41.6518725 ppb	100
25) Benzo(a)pyrene	13.25	252	54800	40.9112907 ppb	98
26) Indeno(1,2,3-cd)pyrene	14.91	276	67778	40.8307949 ppb #	80
27) Dibenz(a,h)anthracene	14.91	278	56737	40.2626014 ppb #	85
28) Benzo(g,h,i)perylene	15.40	276	57882	40.8413459 ppb #	43

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: SS07J22N.RES

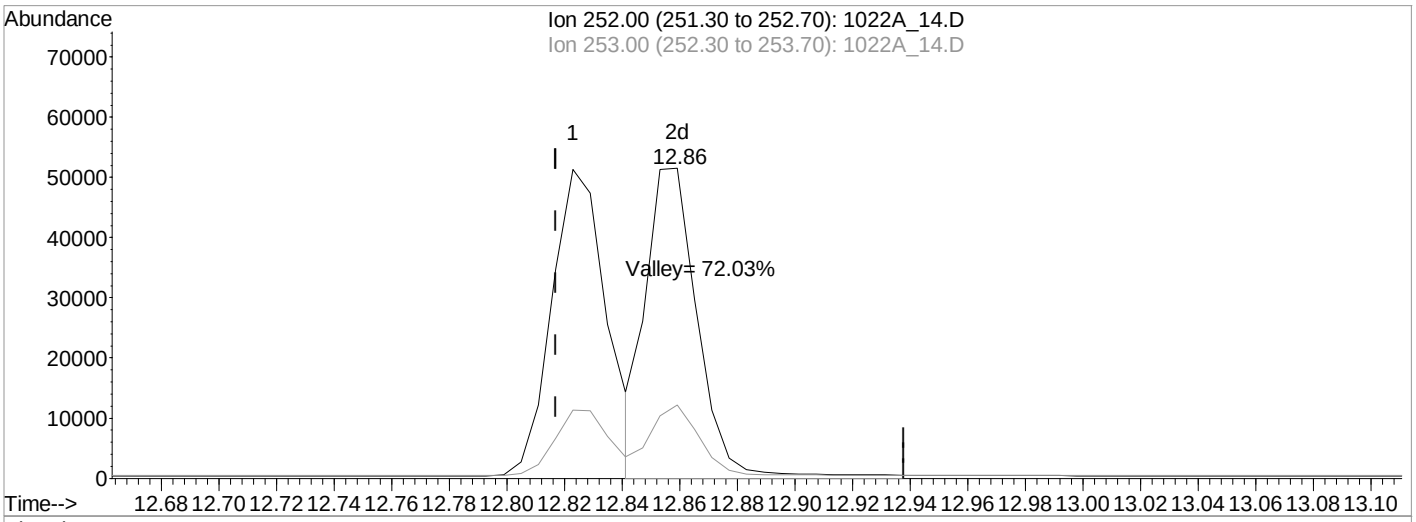
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration

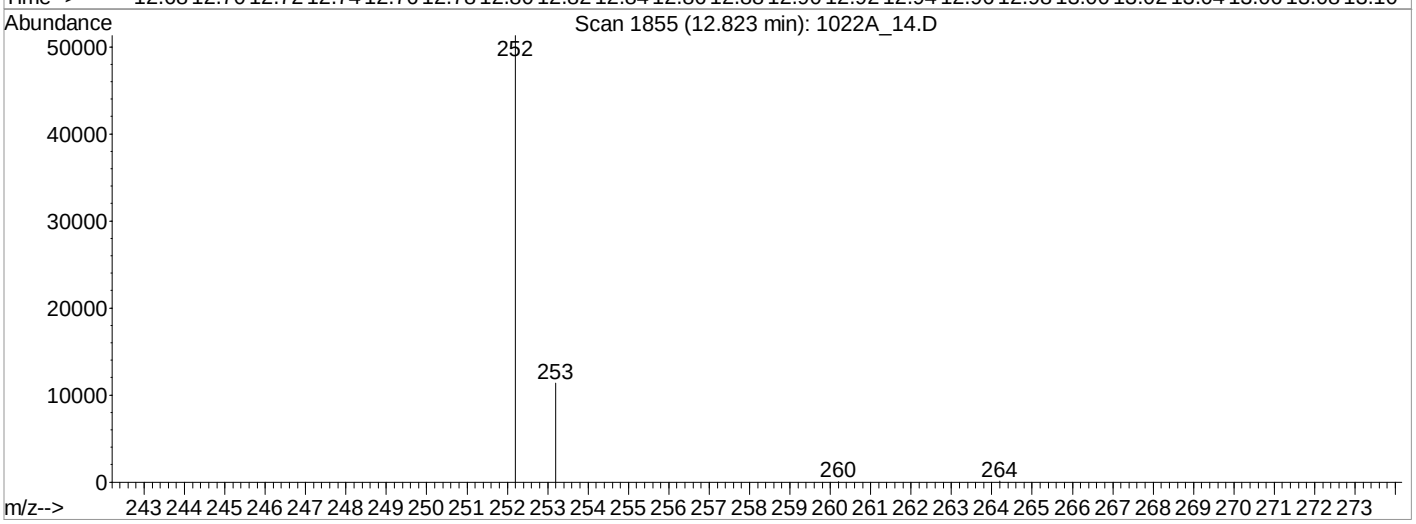


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 14.D Vial: 12
Acq On : 22 Oct 2014 3:49 pm Operator: 280
Sample : SSCV SIMLVI 40 PPB 14J10801 Inst : SVGCMS7
Misc : SIM SSCV Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:07 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_14.D

(23) Benzo(b)fluoranthene (MT)

12.82min (+0.006) 40.7659299 ppb

Qvalue = 98

response 67362

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	21.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:04:38 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	89270	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	49543	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	80296	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	64912	40.00 ppb	0.00
22) Perylene-d12	13.31	264	63335	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	24845	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2000.00%#		
7) 2-Fluorobiphenyl	6.72	172	59875	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2000.00%#		
19) p-Terphenyl-d14	10.57	244	59015	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 2000.00%#		

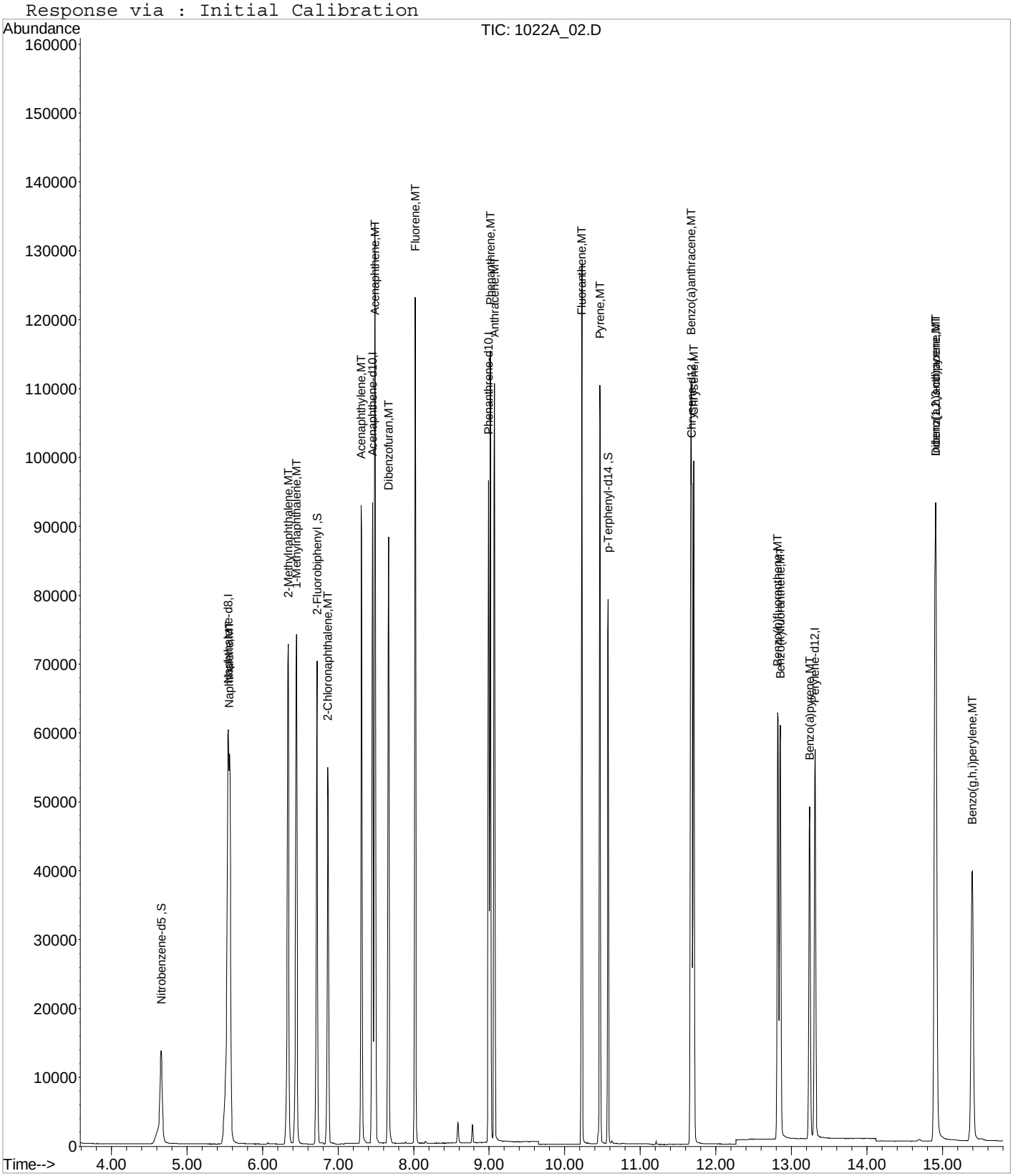
Target Compounds						Qvalue
3) Naphthalene	5.57	128	87478	40.0000000 ppb		100
4) 2-Methylnaphthalene	6.34	142	56512	40.0000000 ppb		94
5) 1-Methylnaphthalene	6.45	142	52773	40.0000000 ppb		95
8) 2-Chloronaphthalene	6.87	162	50324	40.0000000 ppb		99
9) Acenaphthylene	7.31	152	80183	40.0000000 ppb		99
10) Acenaphthene	7.49	153	53258	40.0000000 ppb		95
11) Dibenzofuran	7.67	168	70188	40.0000000 ppb		100
12) Fluorene	8.02	166	60864	40.0000000 ppb		100
14) Phenanthrene	9.02	178	82590	40.0000000 ppb		97
15) Anthracene	9.07	178	80268	40.0000000 ppb		99
16) Fluoranthene	10.22	202	83677	40.0000000 ppb		99
18) Pyrene	10.46	202	75994	40.0000000 ppb		98
20) Benzo(a)anthracene	11.67	228	66250	40.0000000 ppb		99
21) Chrysene	11.71	228	65239	40.0000000 ppb		99
23) Benzo(b)fluoranthene	12.82	252	65907	40.0000000 ppb		95
24) Benzo(k)fluoranthene	12.85	252	62907	40.0000000 ppb		98
25) Benzo(a)pyrene	13.24	252	54195	40.0000000 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.91	276	65822	40.0000000 ppb	#	80
27) Dibenz(a,h)anthracene	14.91	278	55593	40.0000000 ppb	#	89
28) Benzo(g,h,i)perylene	15.39	276	56486	40.0000000 ppb	#	39

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: SS07J22N.RES

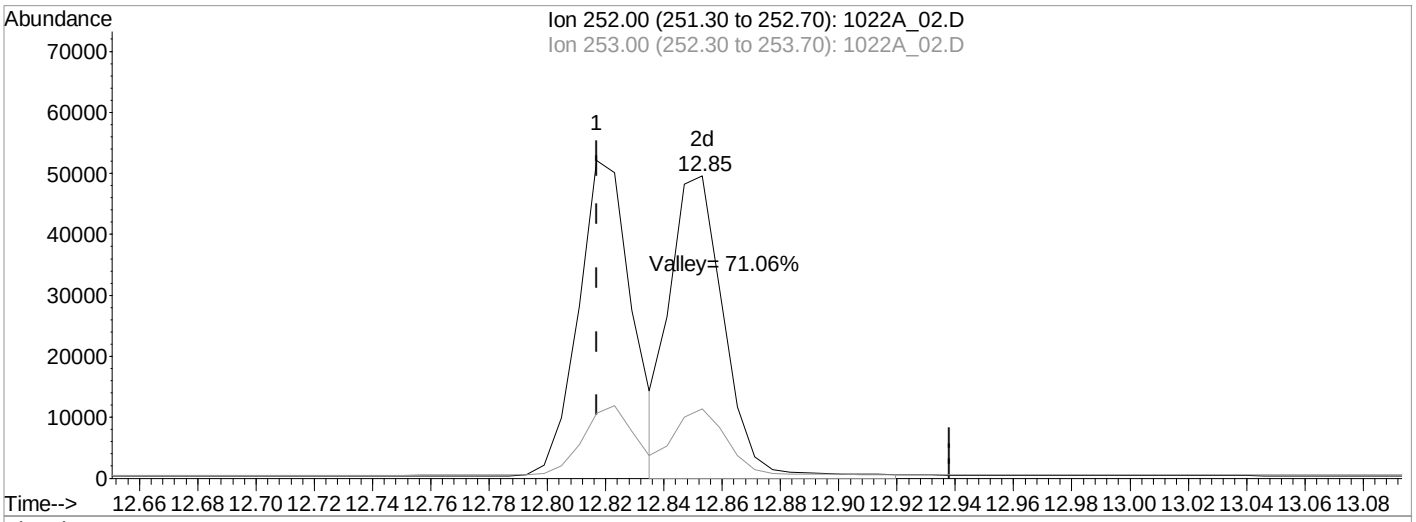
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:04:38 2014
Response via : Initial Calibration

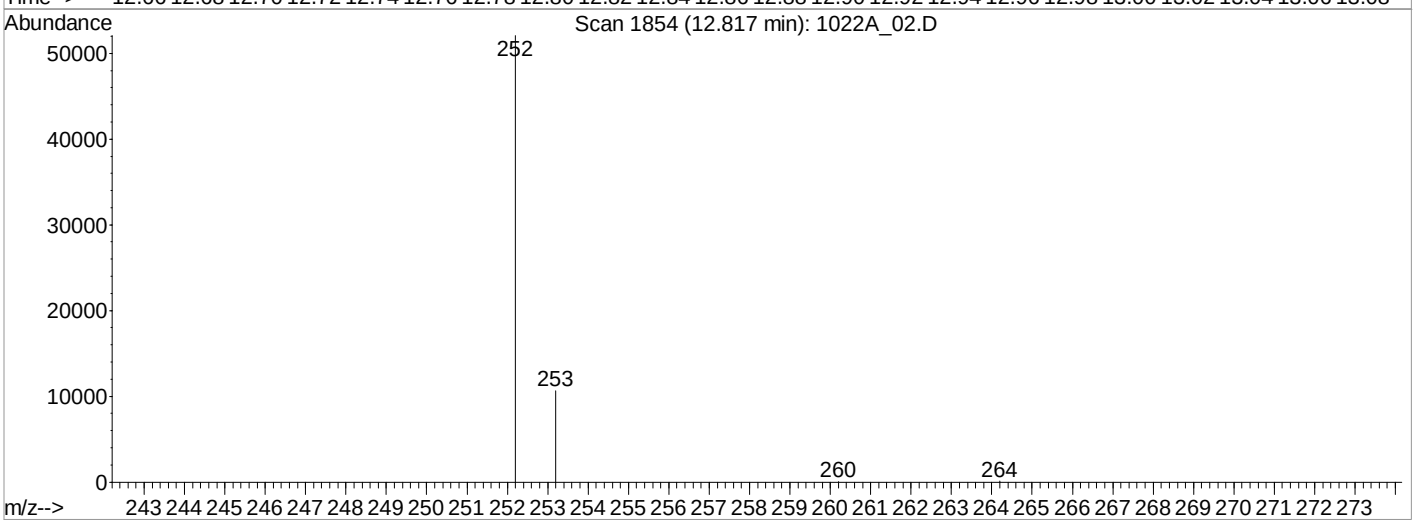


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 02.D Vial: 3
Acq On : 22 Oct 2014 10:43 am Operator: 280
Sample : MSTD SIMLVI 40 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:04 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Multiple Level Calibration





TIC: 1022A_02.D

(23) Benzo(b)fluoranthene (MT)

12.82min (0.000) 40.0000000 ppb

Qvalue = 95

response 65907

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	19.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88842	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48796	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	78396	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60526	40.00 ppb	0.00
22) Perylene-d12	13.31	264	59889	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	607	0.9909015 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 49.55%	
7) 2-Fluorobiphenyl	6.72	172	1498	1.0079718 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 50.40%#	
19) p-Terphenyl-d14	10.57	244	1439	1.0224941 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 51.12%#	

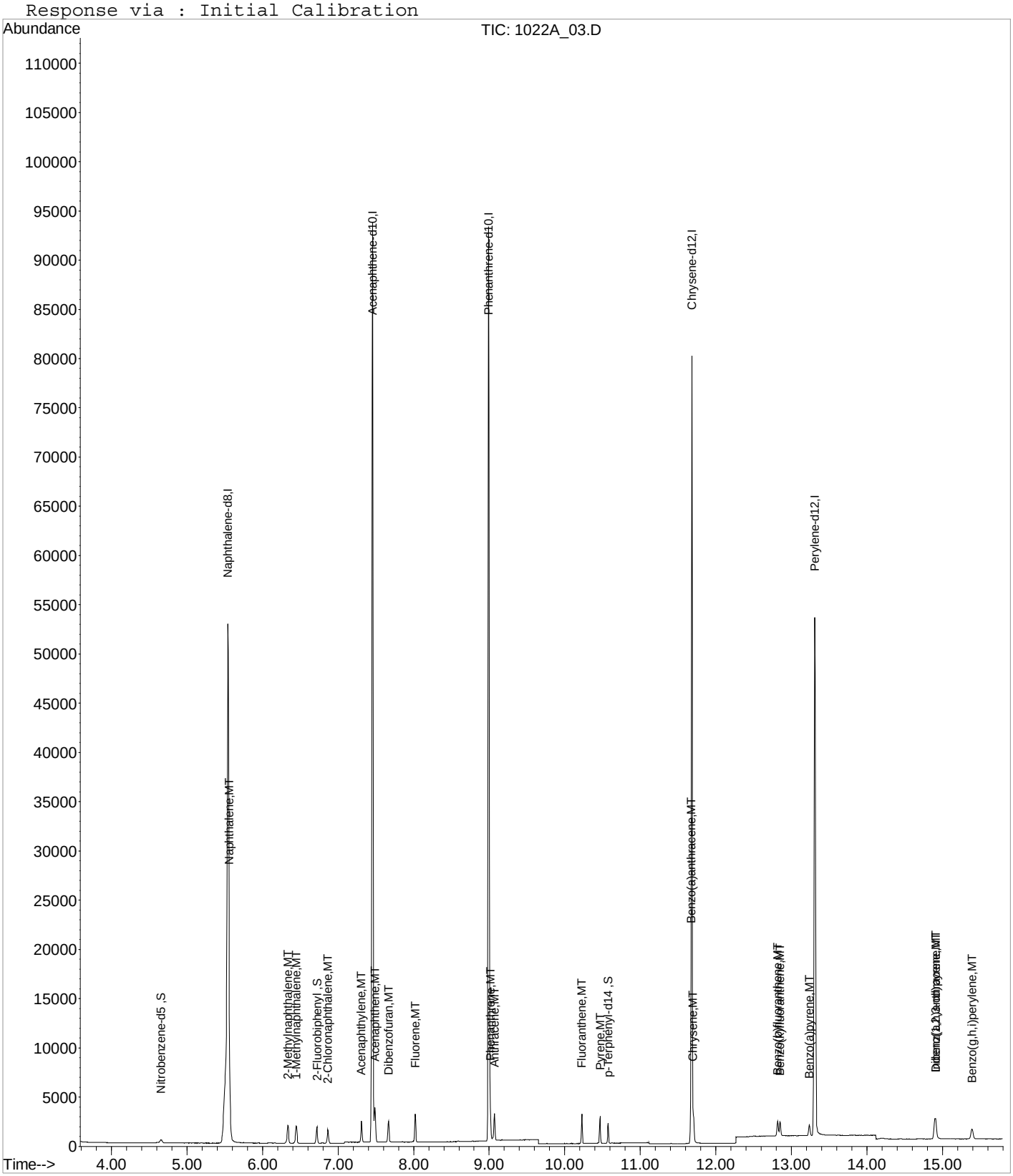
Target Compounds					Qvalue
3) Naphthalene	5.57	128	4201	1.3174514 ppb	100
4) 2-Methylnaphthalene	6.34	142	1418	1.0042399 ppb	100
5) 1-Methylnaphthalene	6.45	142	1319	1.0022798 ppb	95
8) 2-Chloronaphthalene	6.87	162	1243	1.0015589 ppb	96
9) Acenaphthylene	7.31	152	1864	0.9712506 ppb	98
10) Acenaphthene	7.49	153	1327	1.0059223 ppb	92
11) Dibenzofuran	7.67	168	1763	1.0099555 ppb	95
12) Fluorene	8.02	166	1464	0.9883019 ppb	100
14) Phenanthrene	9.02	178	2145	1.0310287 ppb	99
15) Anthracene	9.07	178	1844	0.9697055 ppb	98
16) Fluoranthene	10.22	202	2002	0.9900048 ppb	99
18) Pyrene	10.47	202	1845	1.0203291 ppb	98
20) Benzo(a)anthracene	11.66	228	1698	1.0473918 ppb	94
21) Chrysene	11.70	228	1595	1.0238231 ppb	96
23) Benzo(b)fluoranthene	12.82	252	1698	1.0429891 ppb	97
24) Benzo(k)fluoranthene	12.85	252	1397	0.9687573 ppb	93
25) Benzo(a)pyrene	13.23	252	1271	0.9960200 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.90	276	1609m	1.0370552 ppb	
27) Dibenz(a,h)anthracene	14.91	278	1312	0.9991601 ppb #	88
28) Benzo(g,h,i)perylene	15.39	276	1418m	1.0334086 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Initial Calibration

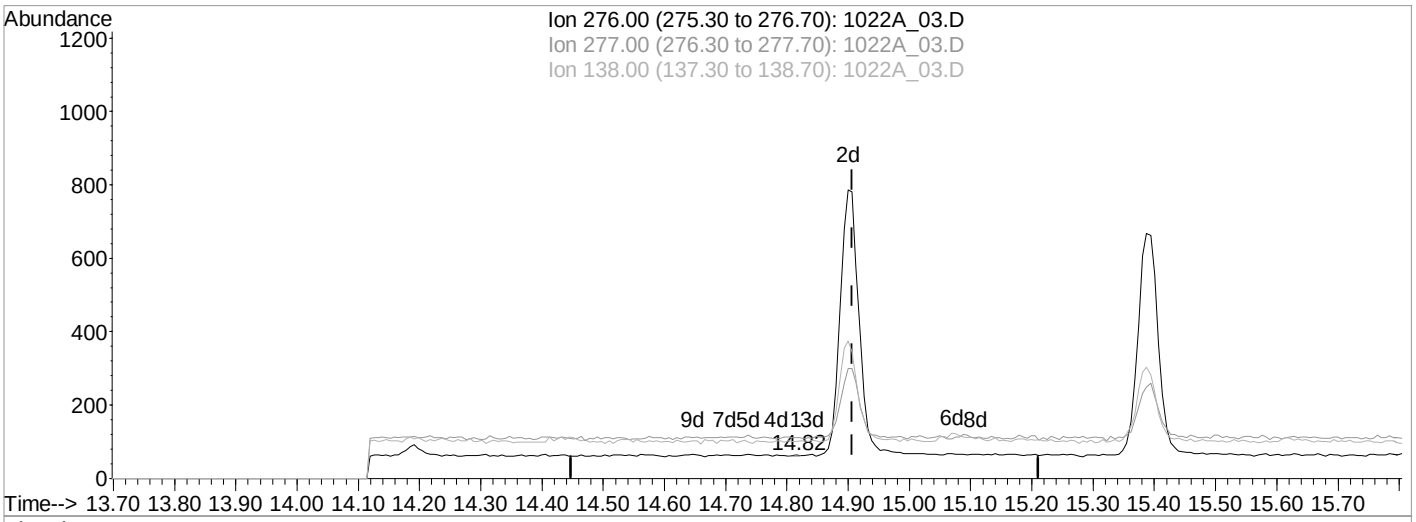


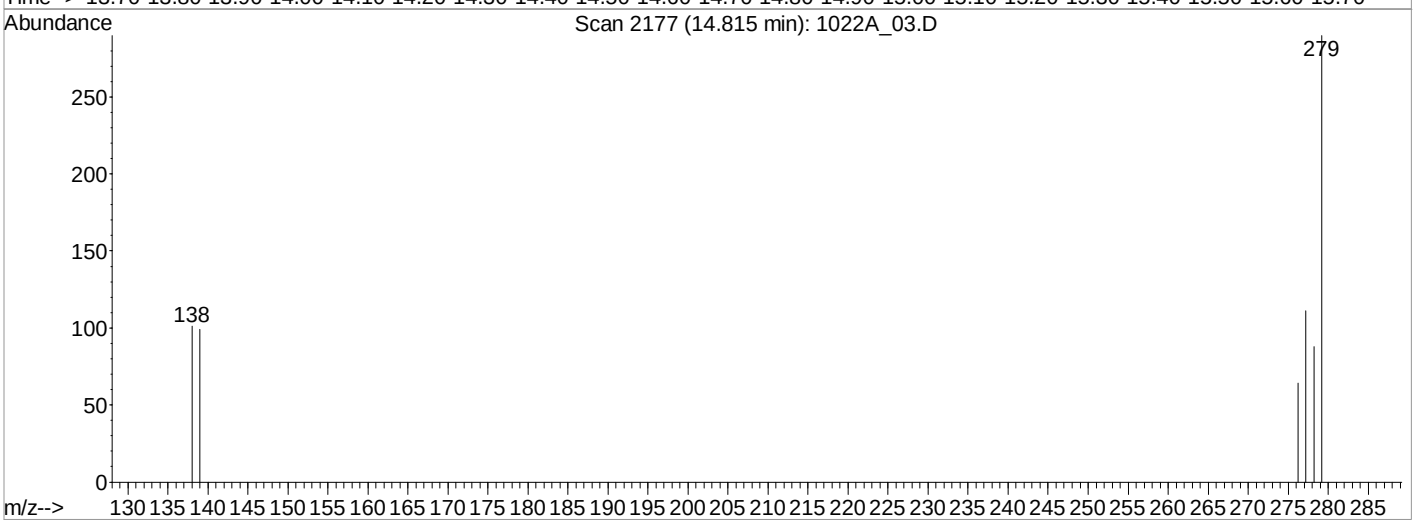
1022A_03.D SS07J22N.M Wed Oct 22 11:50:12 2014 Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.82min (-0.091) 0.0019336 ppb

Qvalue = 89

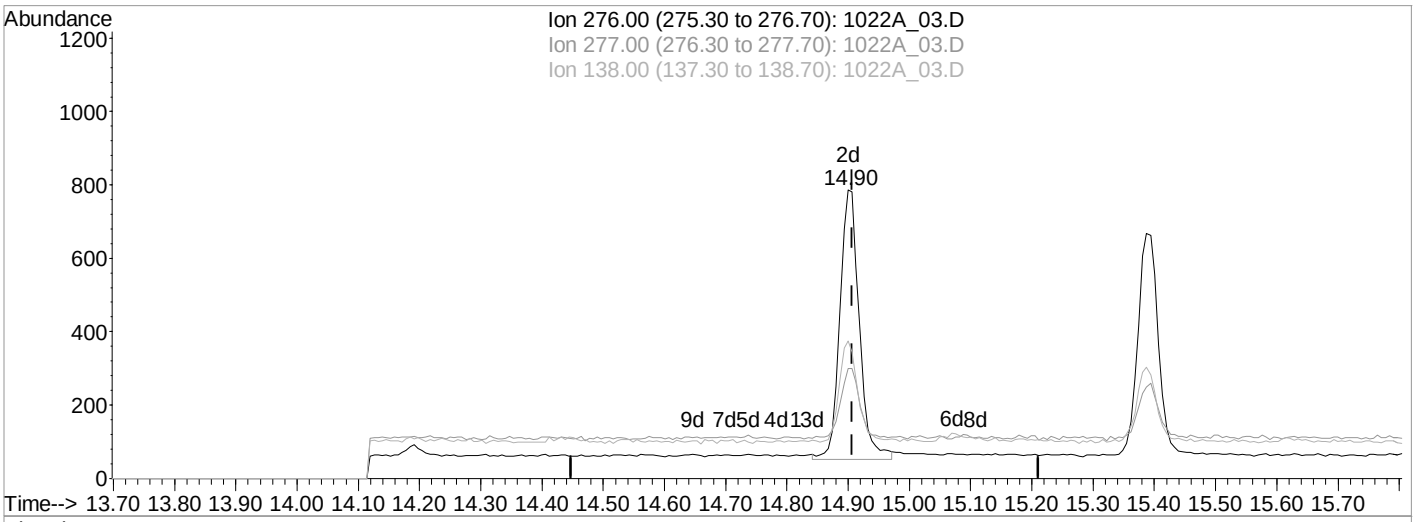
response 3

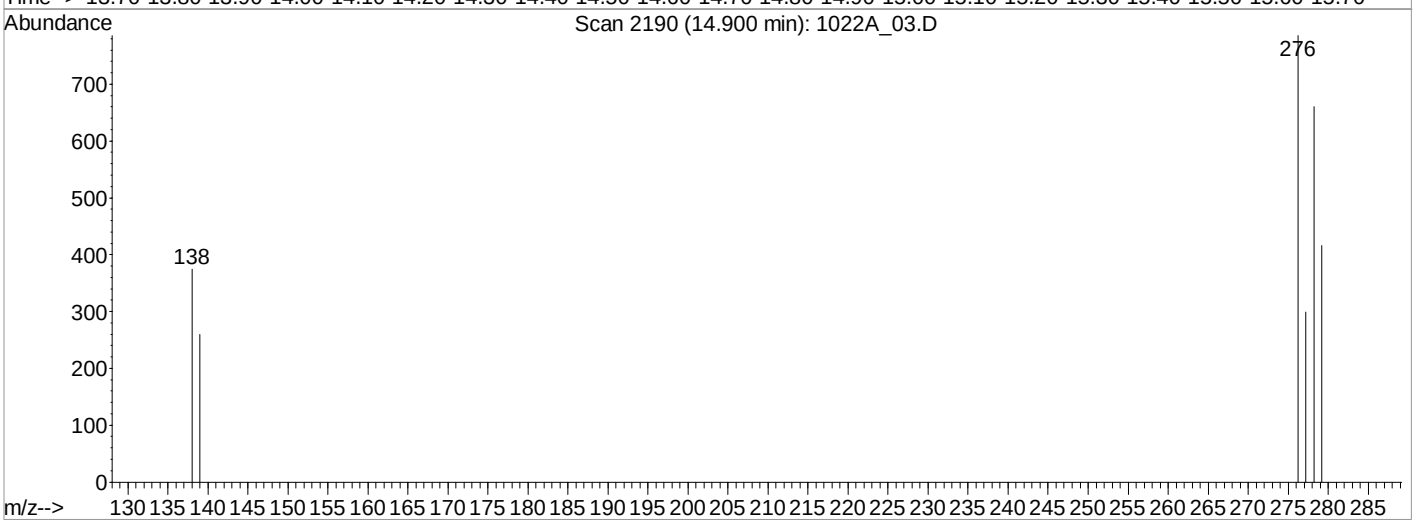
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	25.00
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.90min (-0.007) 1.0370552 ppb m

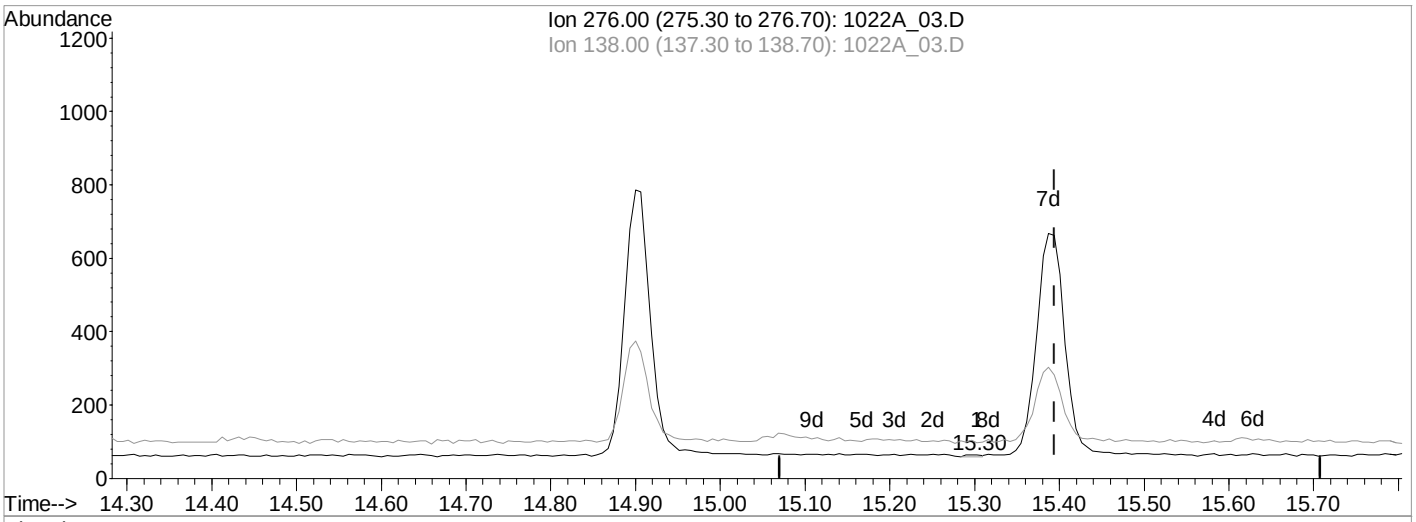
response 1609

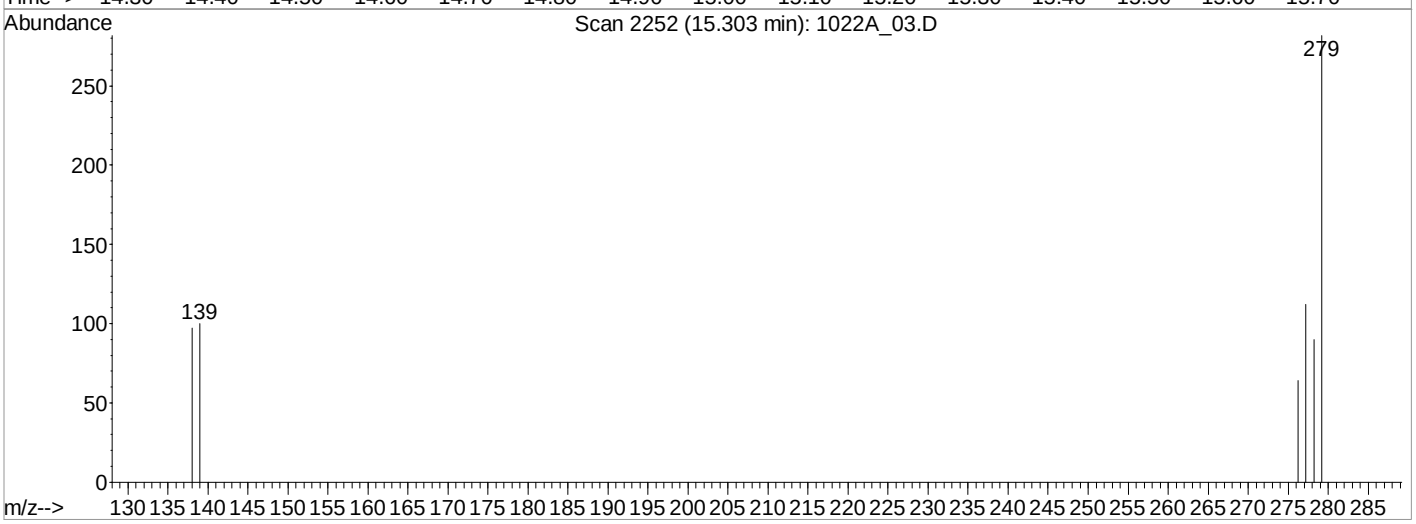
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	38.04
138.00	11.90	47.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(28) Benzo(g,h,i)perylene (MT)

15.30min (-0.091) 0.0043727 ppb

Qvalue = 74

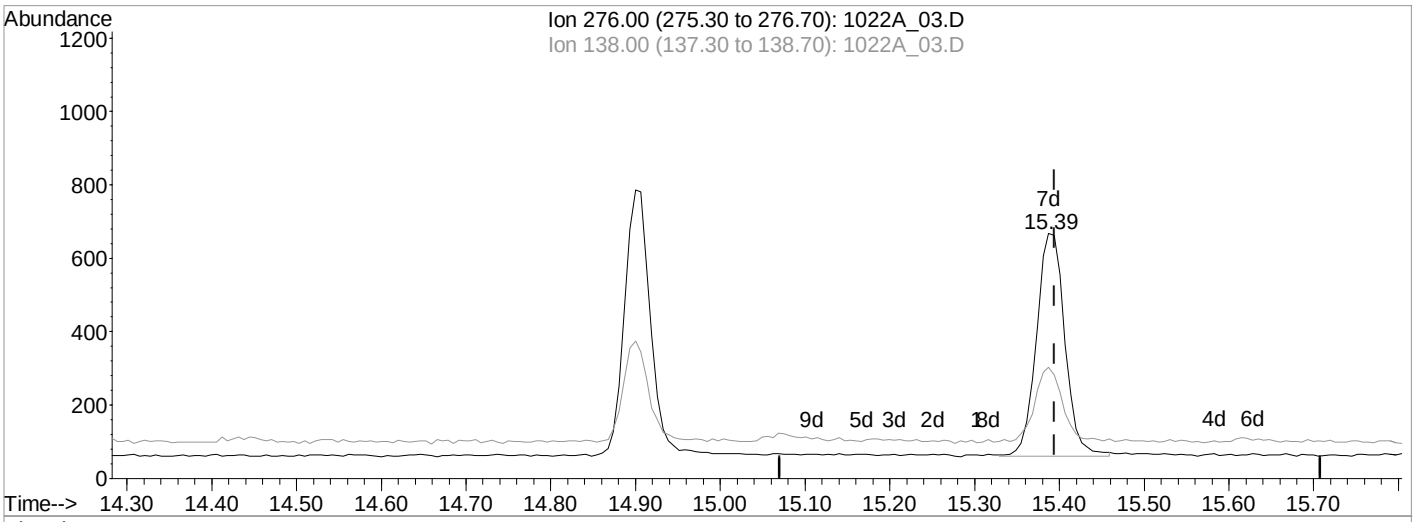
response 6

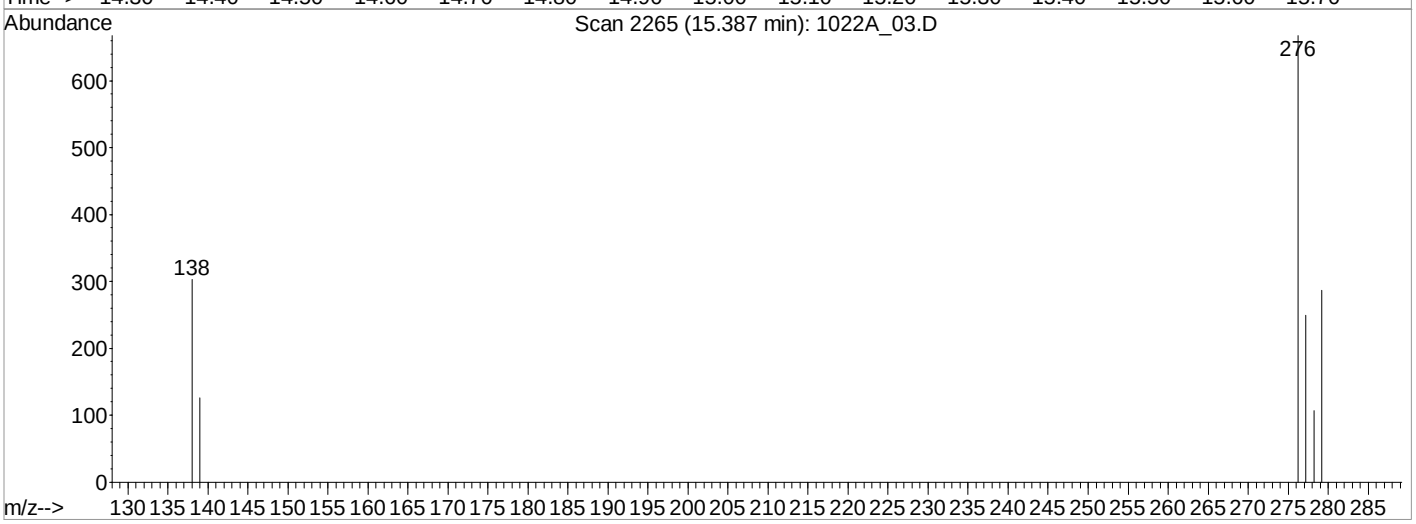
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 03.D Vial: 4
Acq On : 22 Oct 2014 11:06 am Operator: 280
Sample : STD SIMLVI 1 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:49:18 2014
Response via : Multiple Level Calibration





TIC: 1022A_03.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 1.0334086 ppb m

response 1418

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	45.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	87717	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47923	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	77734	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60354	40.00 ppb	0.00
22) Perylene-d12	13.30	264	59156	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	3019	4.9915962 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 249.58%#		
7) 2-Fluorobiphenyl	6.72	172	7691	5.2693810 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 263.47%#		
19) p-Terphenyl-d14	10.57	244	7184	5.1192017 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 255.96%#		

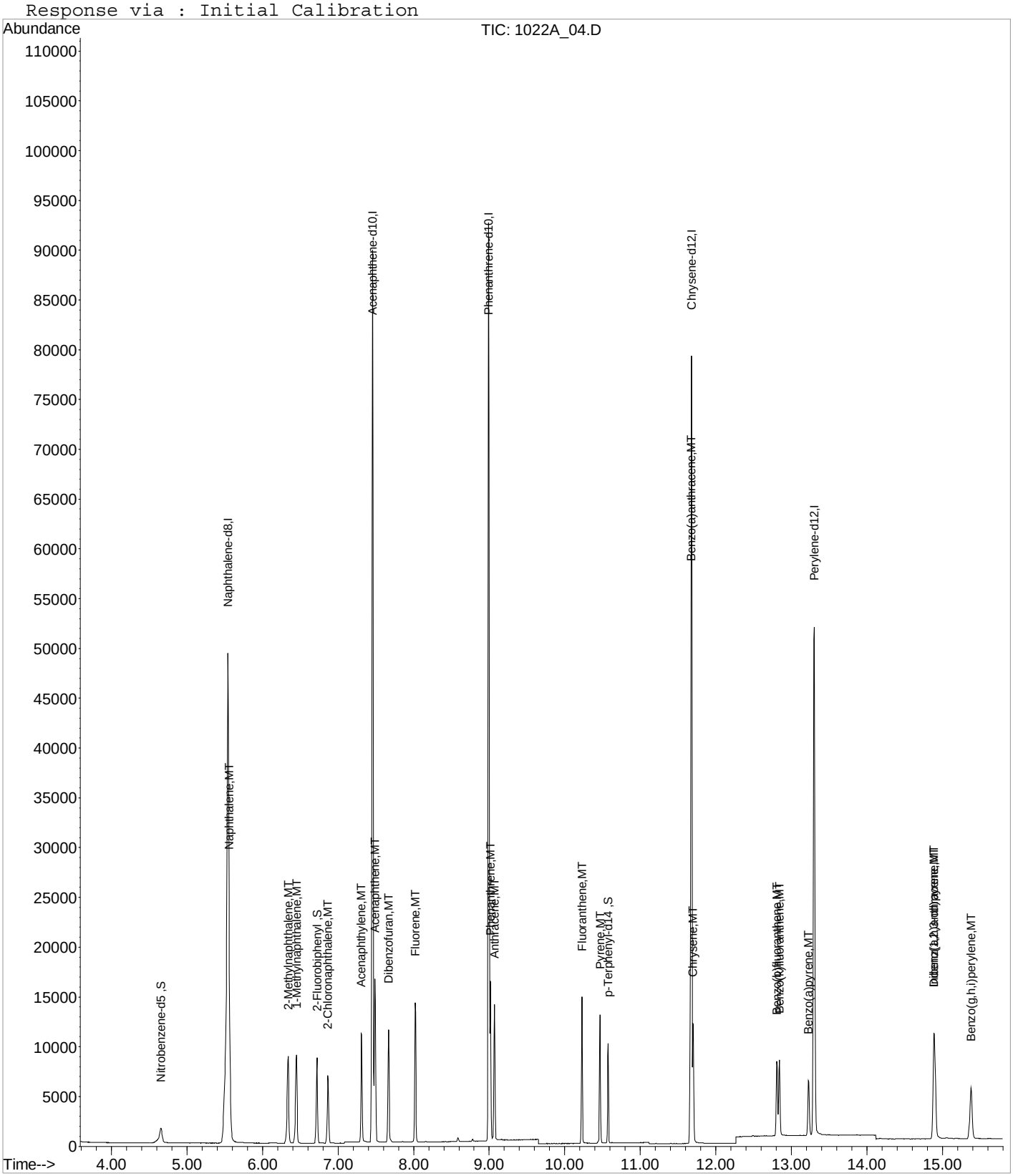
Target Compounds					Qvalue
3) Naphthalene	5.57	128	13197	4.1917145 ppb	99
4) 2-Methylnaphthalene	6.34	142	7227	5.1838670 ppb	94
5) 1-Methylnaphthalene	6.45	142	6712	5.1657179 ppb	96
8) 2-Chloronaphthalene	6.87	162	6385	5.2384945 ppb	98
9) Acenaphthylene	7.31	152	9625	5.1065353 ppb	100
10) Acenaphthene	7.49	153	6794	5.2439591 ppb	95
11) Dibenzofuran	7.67	168	8992	5.2450115 ppb	96
12) Fluorene	8.02	166	7601	5.2246775 ppb	97
14) Phenanthrene	9.02	178	10556	5.1171214 ppb	98
15) Anthracene	9.07	178	9521	5.0494537 ppb	99
16) Fluoranthene	10.23	202	10280	5.1268336 ppb	97
18) Pyrene	10.47	202	9297	5.1561157 ppb	98
20) Benzo(a)anthracene	11.66	228	7977	4.9345434 ppb	99
21) Chrysene	11.70	228	8054	5.1845585 ppb	97
23) Benzo(b)fluoranthene	12.80	252	8054	5.0084340 ppb	97
24) Benzo(k)fluoranthene	12.84	252	7615	5.3460962 ppb	99
25) Benzo(a)pyrene	13.22	252	6462	5.1266981 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.89	276	7890m	5.0475334 ppb	
27) Dibenz(a,h)anthracene	14.89	278	6628	5.1101305 ppb #	88
28) Benzo(g,h,i)perylene	15.37	276	6930m	5.0963049 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Initial Calibration

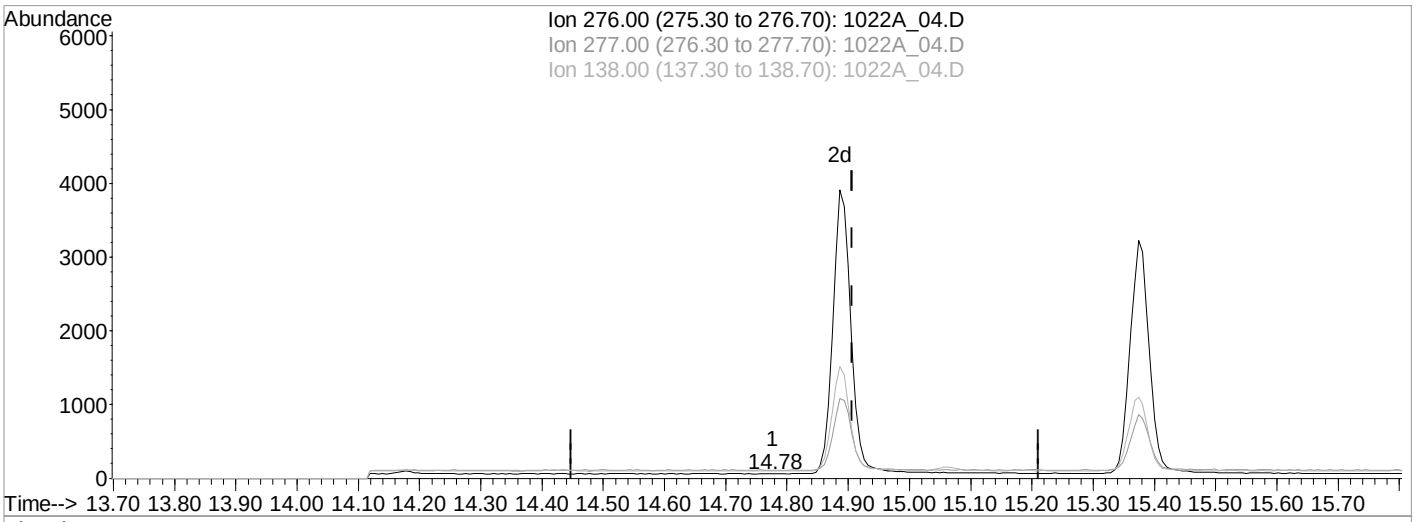


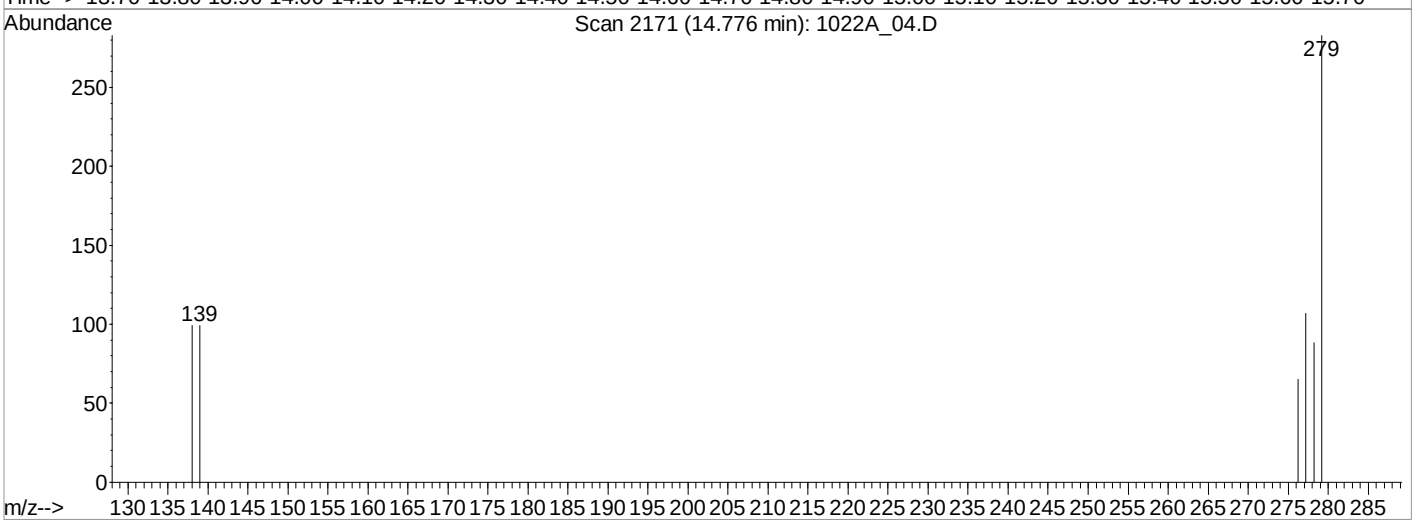
1022A_04.D SS07J22N.M Wed Oct 22 11:50:59 2014 Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.78min (-0.130) 0.0070371 ppb

Qvalue = 77

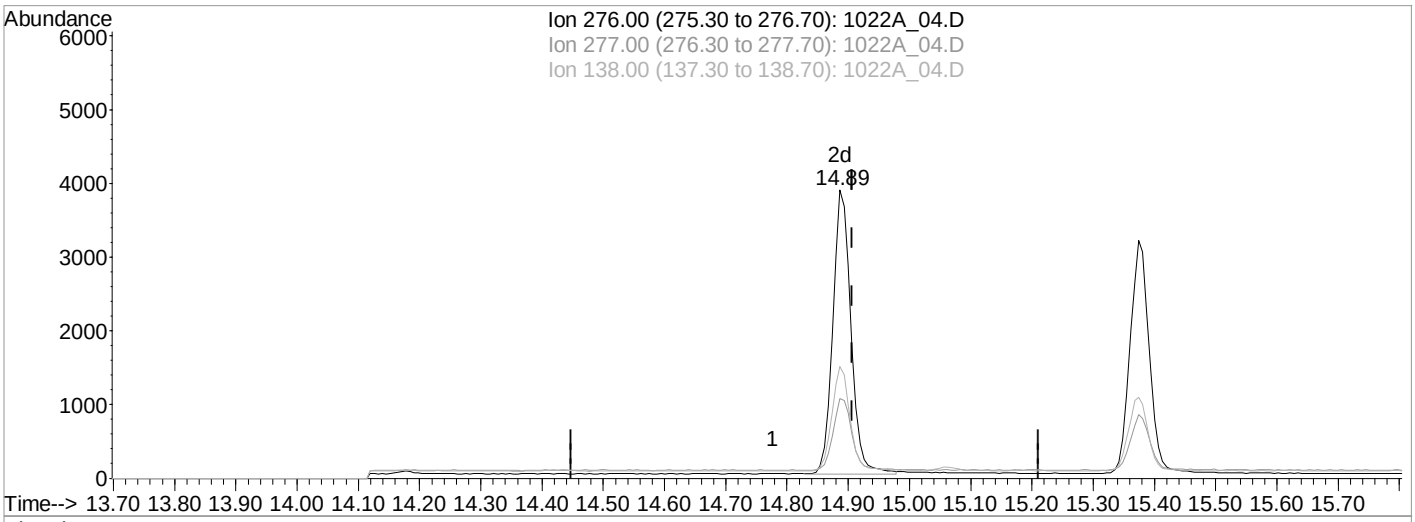
response 11

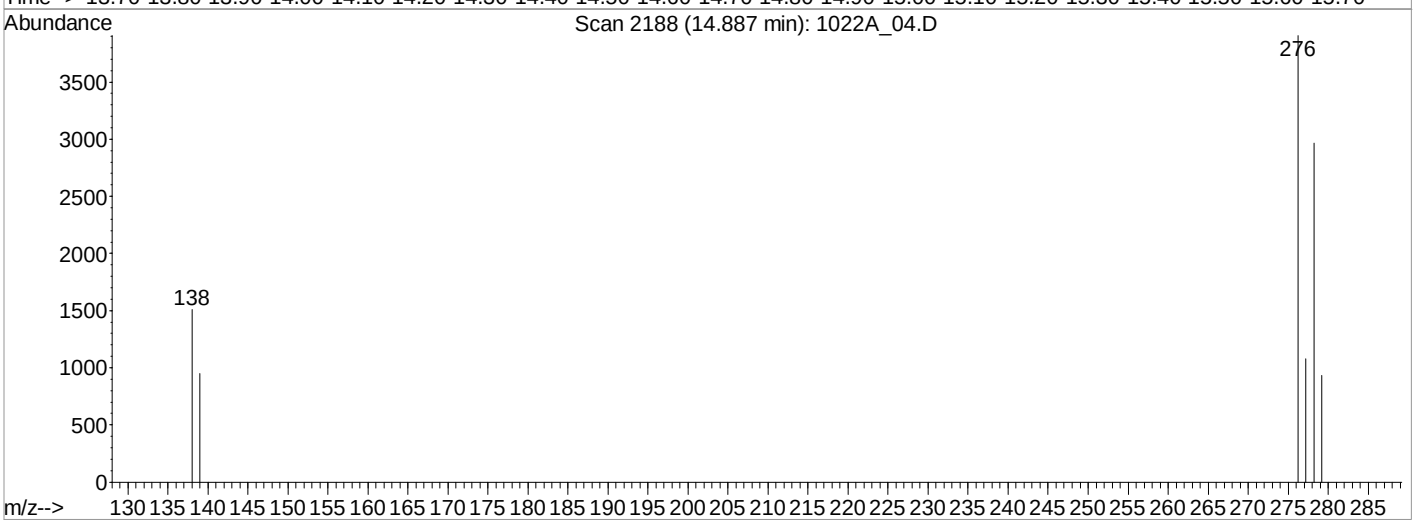
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	16.67
138.00	11.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(26) Indeno(1,2,3-cd)pyrene (MT)

14.89min (-0.020) 5.0475334 ppb m

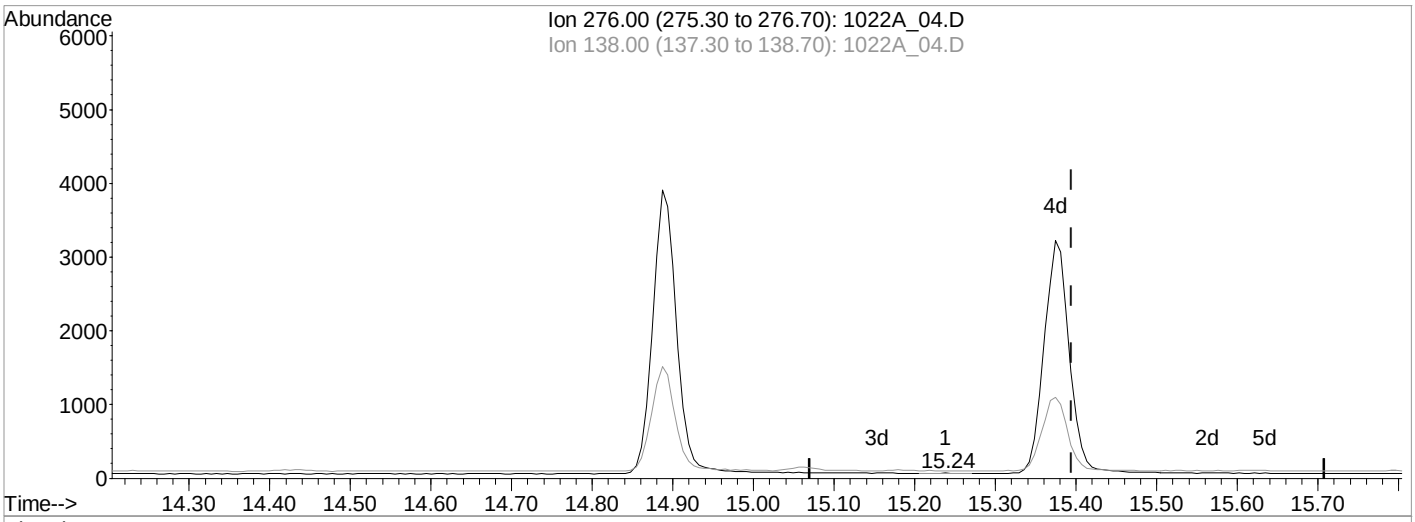
response 7890

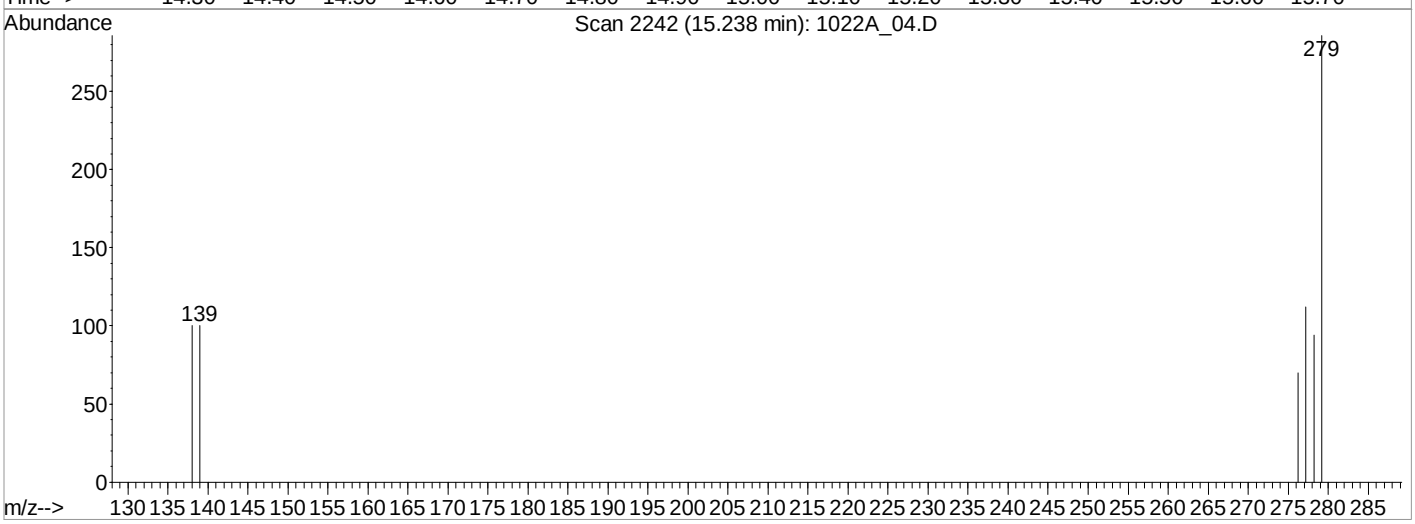
Ion	Exp%	Act%
276.00	100	100
277.00	26.40	27.65
138.00	11.90	38.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(28) Benzo(g,h,i)perylene (MT)

15.24min (-0.156) 0.0066186 ppb

Qvalue = 72

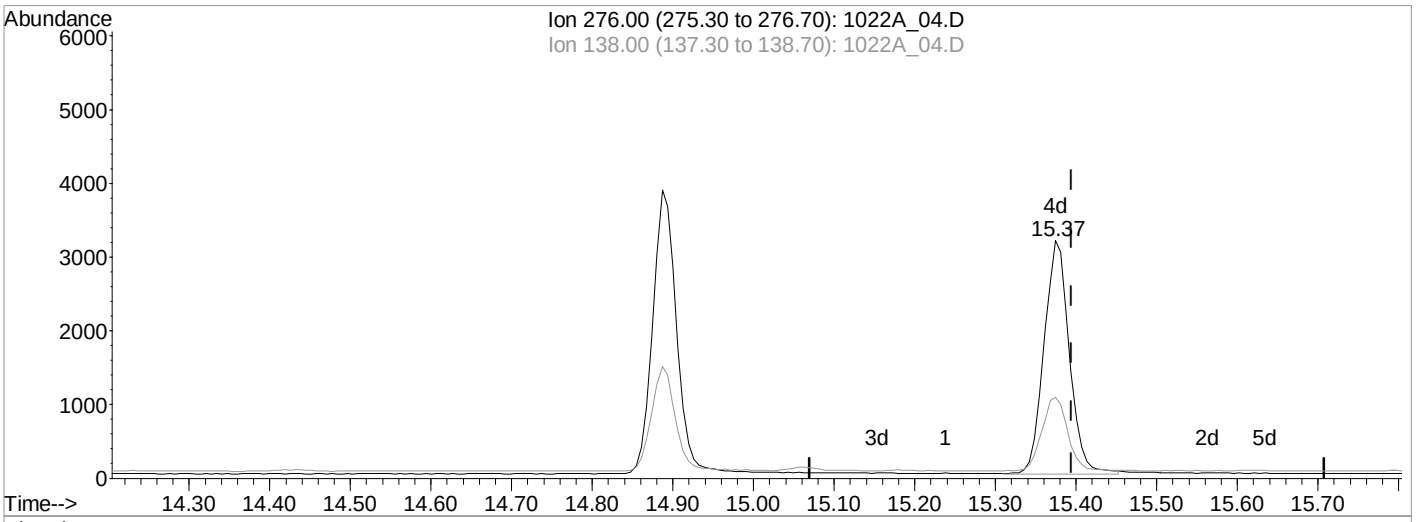
response 9

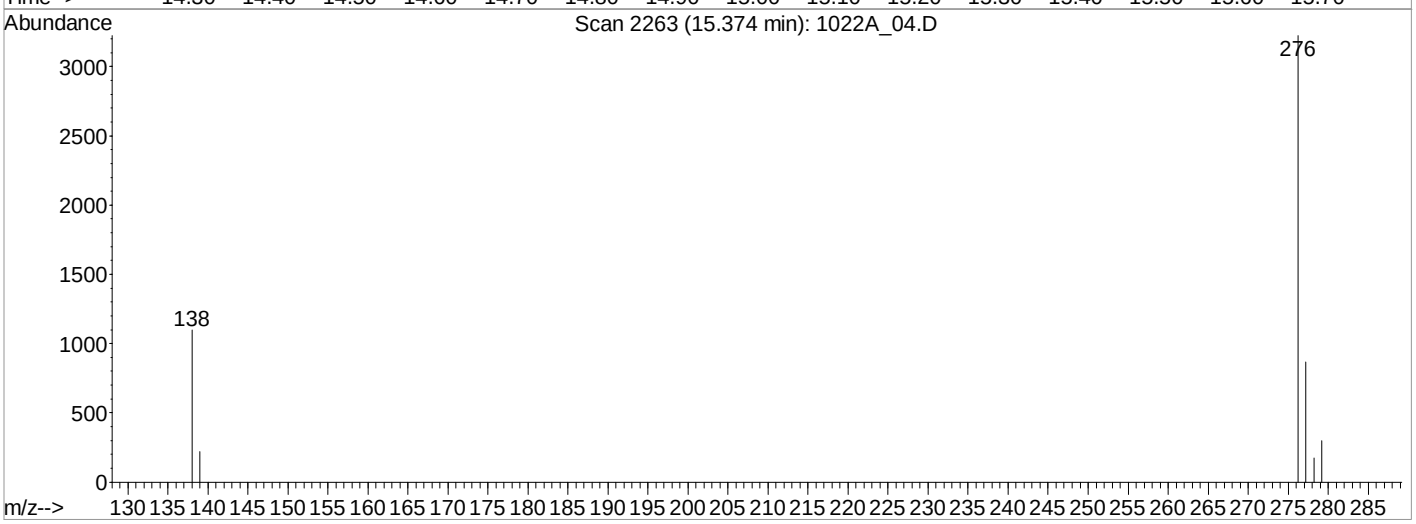
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	20.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 04.D Vial: 5
Acq On : 22 Oct 2014 11:29 am Operator: 280
Sample : STD SIMLVI 5 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 11:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:50:25 2014
Response via : Multiple Level Calibration





TIC: 1022A_04.D

(28) Benzo(g,h,i)perylene (MT)

15.37min (-0.020) 5.0963049 ppb m

response 6930

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	86772	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	47454	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	76630	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	60285	40.00 ppb	0.00
22) Perylene-d12	13.31	264	58845	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	5713	9.5540630 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 477.70%#		
7) 2-Fluorobiphenyl	6.72	172	14094	9.5797032 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 478.99%#		
19) p-Terphenyl-d14	10.57	244	13351	9.4495016 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 472.48%#		

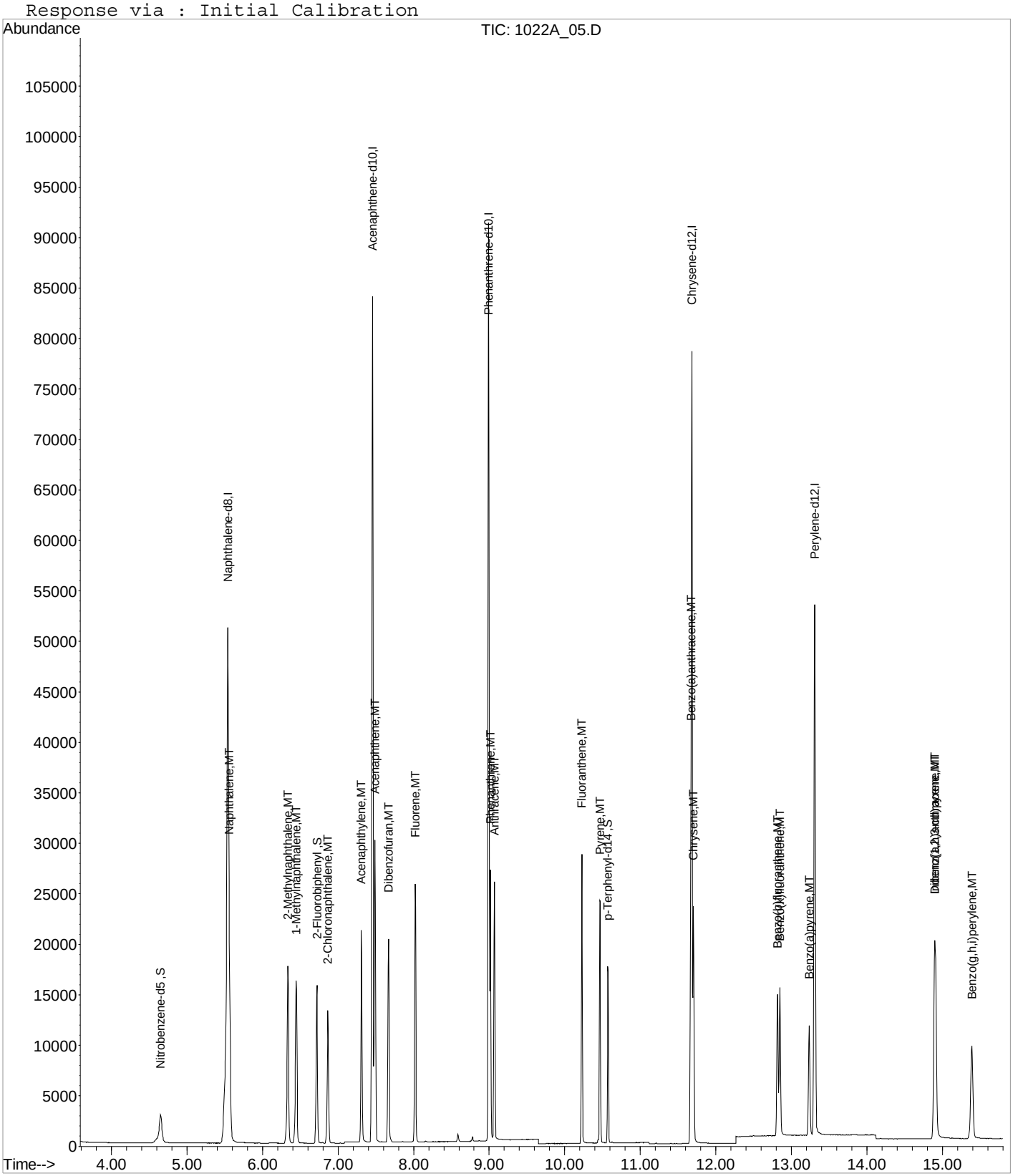
Target Compounds					Qvalue
3) Naphthalene	5.57	128	22108	7.5028540 ppb	100
4) 2-Methylnaphthalene	6.34	142	13230	9.4769518 ppb	98
5) 1-Methylnaphthalene	6.45	142	12347	9.5010726 ppb	98
8) 2-Chloronaphthalene	6.87	162	11691	9.5349324 ppb	94
9) Acenaphthylene	7.31	152	17636	9.3826011 ppb	99
10) Acenaphthene	7.49	153	12482	9.5737612 ppb	96
11) Dibenzofuran	7.67	168	16476	9.5494114 ppb	98
12) Fluorene	8.02	166	13874	9.4886576 ppb	98
14) Phenanthrene	9.02	178	19319	9.4263884 ppb	97
15) Anthracene	9.07	178	17528	9.3988974 ppb	99
16) Fluoranthene	10.22	202	18854	9.4583423 ppb	98
18) Pyrene	10.46	202	17198	9.4505679 ppb	98
20) Benzo(a)anthracene	11.66	228	14494	9.0155399 ppb	95
21) Chrysene	11.70	228	14772	9.4042753 ppb	98
23) Benzo(b)fluoranthene	12.82	252	14514	9.0682307 ppb	100
24) Benzo(k)fluoranthene	12.85	252	14248	9.8288644 ppb	97
25) Benzo(a)pyrene	13.23	252	11865	9.3837166 ppb	100
26) Indeno(1,2,3-cd)pyrene	14.90	276	14517	9.3066686 ppb #	80
27) Dibenz(a,h)anthracene	14.90	278	12262	9.4345910 ppb #	89
28) Benzo(g,h,i)perylene	15.39	276	12633m	9.2797975 ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: SS07J22N.RES

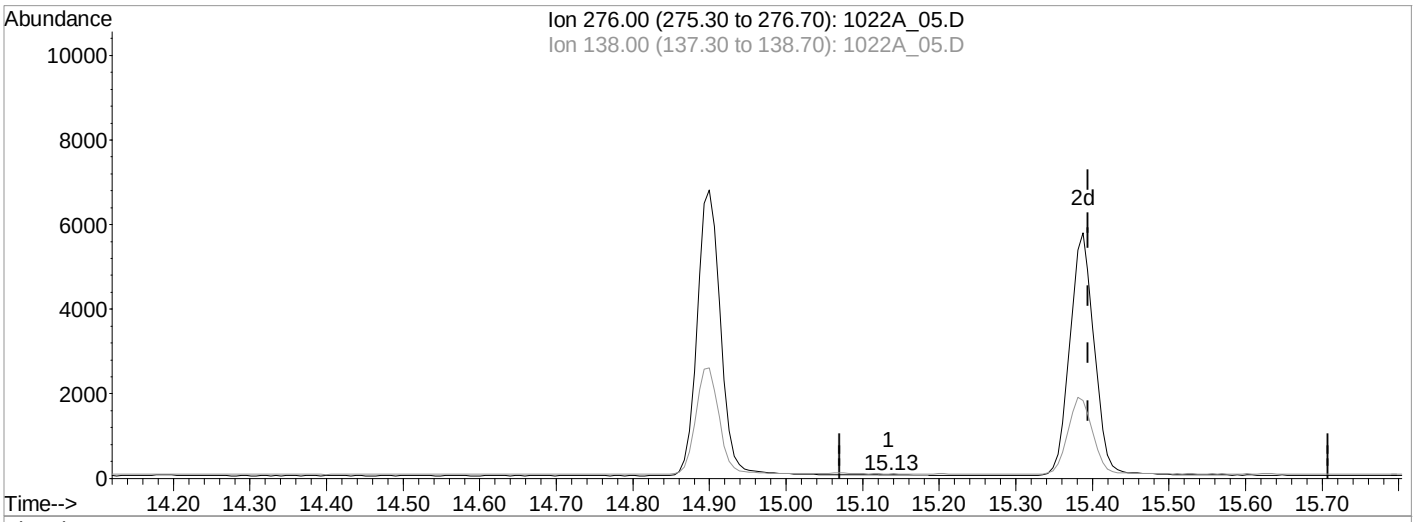
Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Initial Calibration

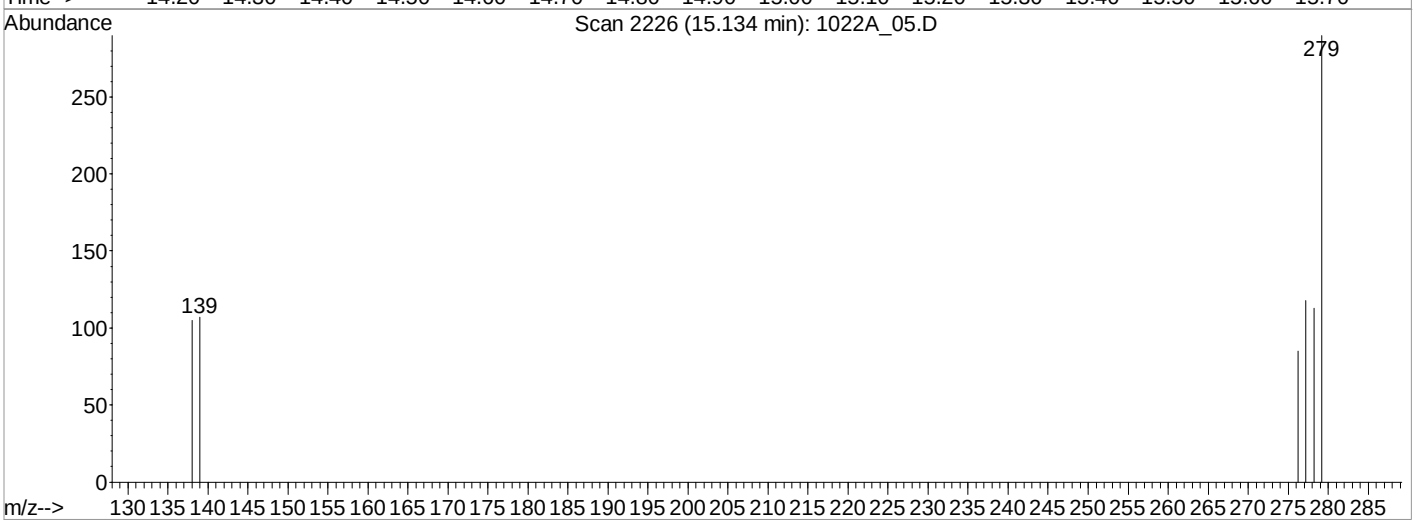


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Multiple Level Calibration





TIC: 1022A_05.D

(28) Benzo(g,h,i)perylene (MT)

15.13min (-0.260) 0.0176296 ppb

Qvalue = 74

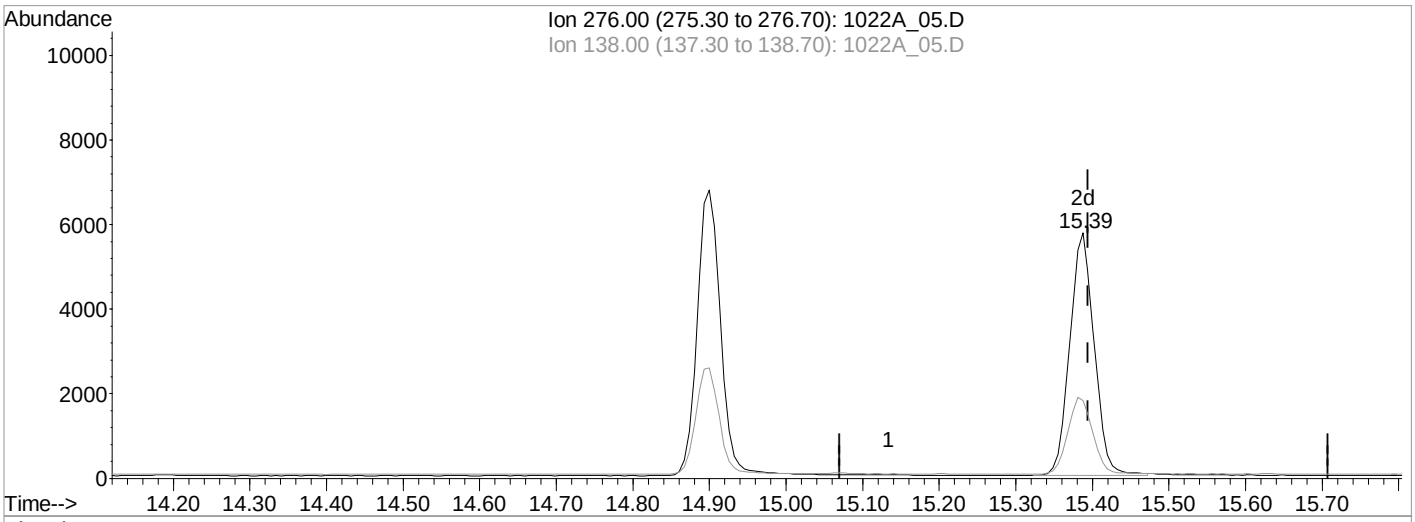
response 24

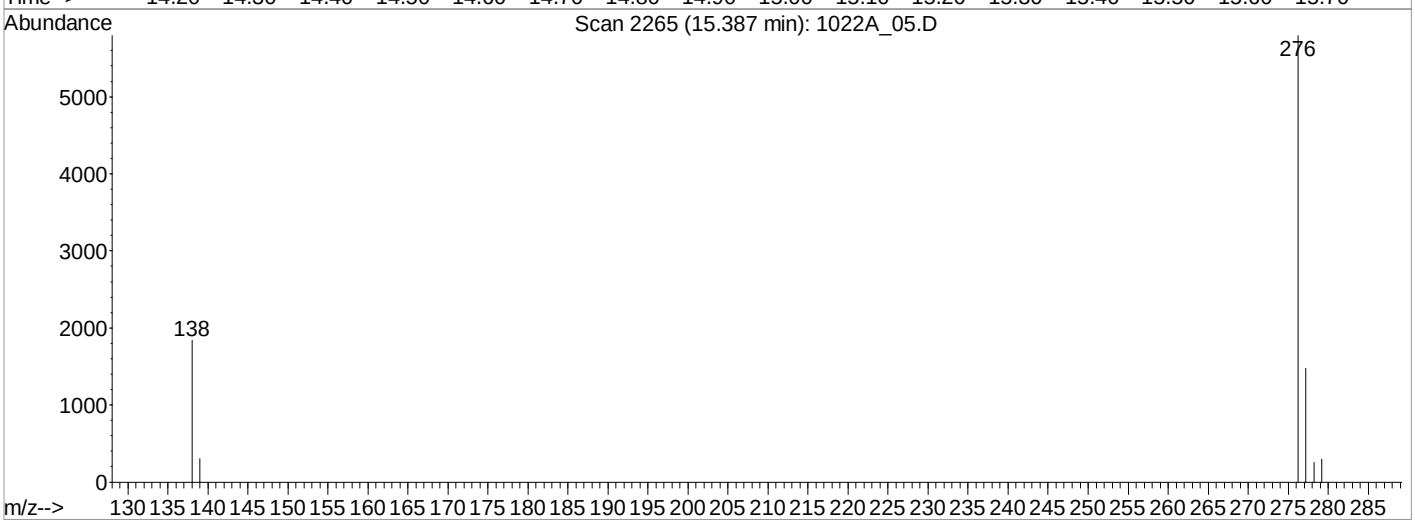
Ion	Exp%	Act%
276.00	100	100
138.00	9.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 05.D Vial: 6
Acq On : 22 Oct 2014 11:52 am Operator: 280
Sample : STD SIMLVI 10 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 11:51:03 2014
Response via : Multiple Level Calibration





TIC: 1022A_05.D

(28) Benzo(g,h,i)perylene (MT)

15.39min (-0.007) 9.2797975 ppb m

response 12633

Ion	Exp%	Act%
276.00	100	100
138.00	9.70	31.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 06.D Vial: 7
Acq On : 22 Oct 2014 12:15 pm Operator: 280
Sample : STD SIMLVI 20 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:33 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:29:21 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	89179	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	48932	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	79008	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	63391	40.00 ppb	0.00
22) Perylene-d12	13.29	264	61925	40.00 ppb	-0.02

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	12771	21.0152559 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 1050.76%#		
7) 2-Fluorobiphenyl	6.72	172	31621	21.0649632 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1053.25%#		
19) p-Terphenyl-d14	10.57	244	30760	20.9933416 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1049.67%#		

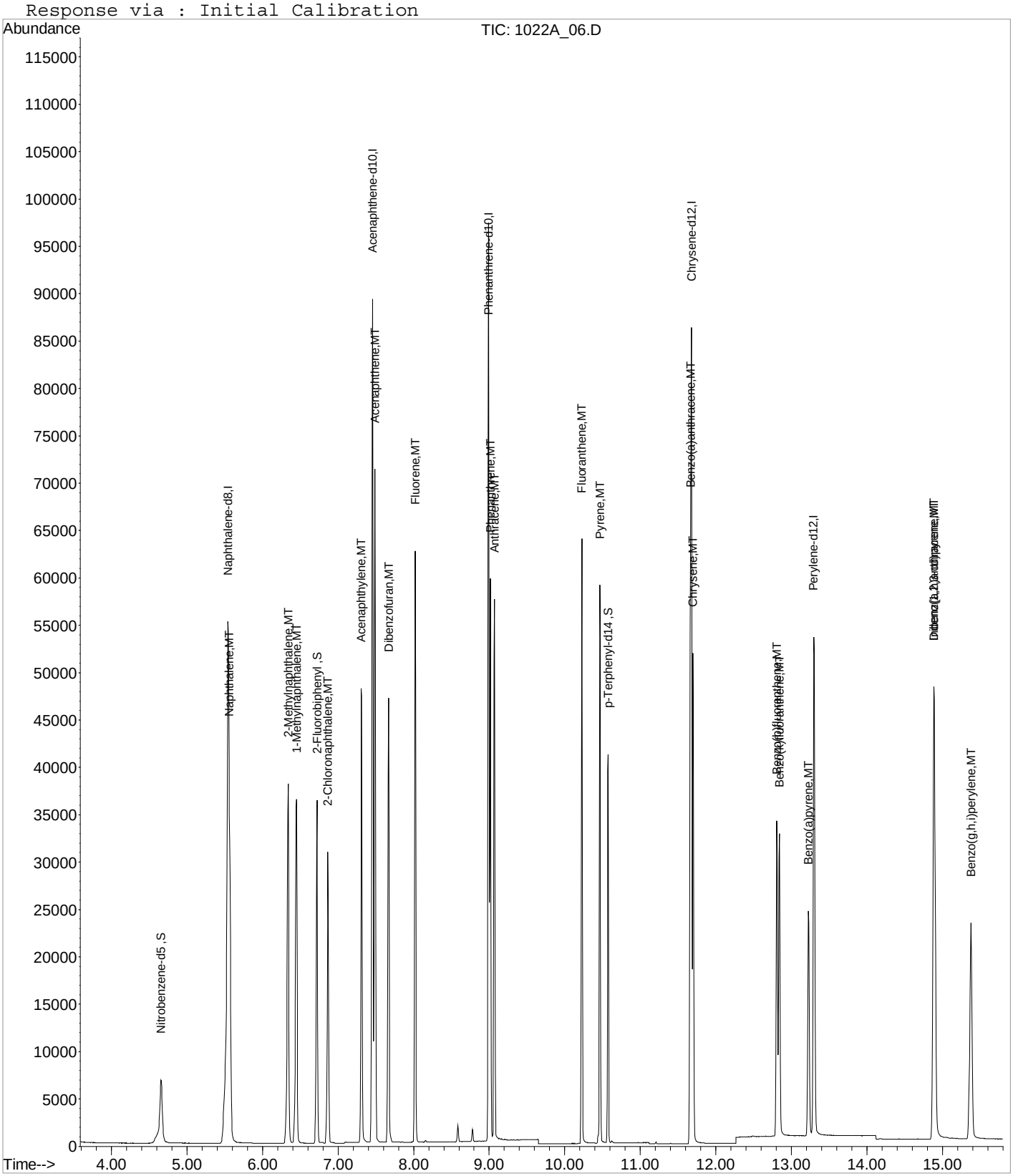
Target Compounds						Qvalue
3) Naphthalene	5.57	128	46845	16.4988230 ppb		99
4) 2-Methylnaphthalene	6.34	142	29906	21.1203225 ppb		94
5) 1-Methylnaphthalene	6.45	142	27705	21.0057143 ppb		94
8) 2-Chloronaphthalene	6.87	162	26644	21.3218181 ppb		96
9) Acenaphthylene	7.31	152	40700	21.3281421 ppb		99
10) Acenaphthene	7.49	153	28209	21.2089234 ppb		95
11) Dibenzofuran	7.67	168	37372	21.2456972 ppb		96
12) Fluorene	8.02	166	31499	21.1625176 ppb		99
14) Phenanthrene	9.02	178	44051	21.1503332 ppb		98
15) Anthracene	9.07	178	40683	21.4813314 ppb		98
16) Fluoranthene	10.22	202	43488	21.4501273 ppb		99
18) Pyrene	10.46	202	39530	20.9457141 ppb		98
20) Benzo(a)anthracene	11.66	228	33664	20.4161211 ppb		94
21) Chrysene	11.70	228	33714	20.7202327 ppb		97
23) Benzo(b)fluoranthene	12.80	252	34239	20.8130780 ppb		97
24) Benzo(k)fluoranthene	12.84	252	32385	21.3205772 ppb		99
25) Benzo(a)pyrene	13.22	252	27797	21.2173878 ppb		97
26) Indeno(1,2,3-cd)pyrene	14.89	276	33978	21.0645648 ppb	#	79
27) Dibenz(a,h)anthracene	14.89	278	28887	21.4234993 ppb	#	82
28) Benzo(g,h,i)perylene	15.37	276	29755	21.1507737 ppb	#	44

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 06.D Vial: 7
Acq On : 22 Oct 2014 12:15 pm Operator: 280
Sample : STD SIMLVI 20 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:33 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:29:21 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 07.D Vial: 8
Acq On : 22 Oct 2014 12:37 pm Operator: 280
Sample : STD SIMLVI 80 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:54 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:34:09 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	88606	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	49206	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	79689	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	66056	40.00 ppb	0.00
22) Perylene-d12	13.30	264	64833	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	48561	79.6177496 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 3980.89%#		
7) 2-Fluorobiphenyl	6.72	172	116639	76.4545216 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 3822.73%#		
19) p-Terphenyl-d14	10.57	244	118147	76.6197143 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 3830.99%#		

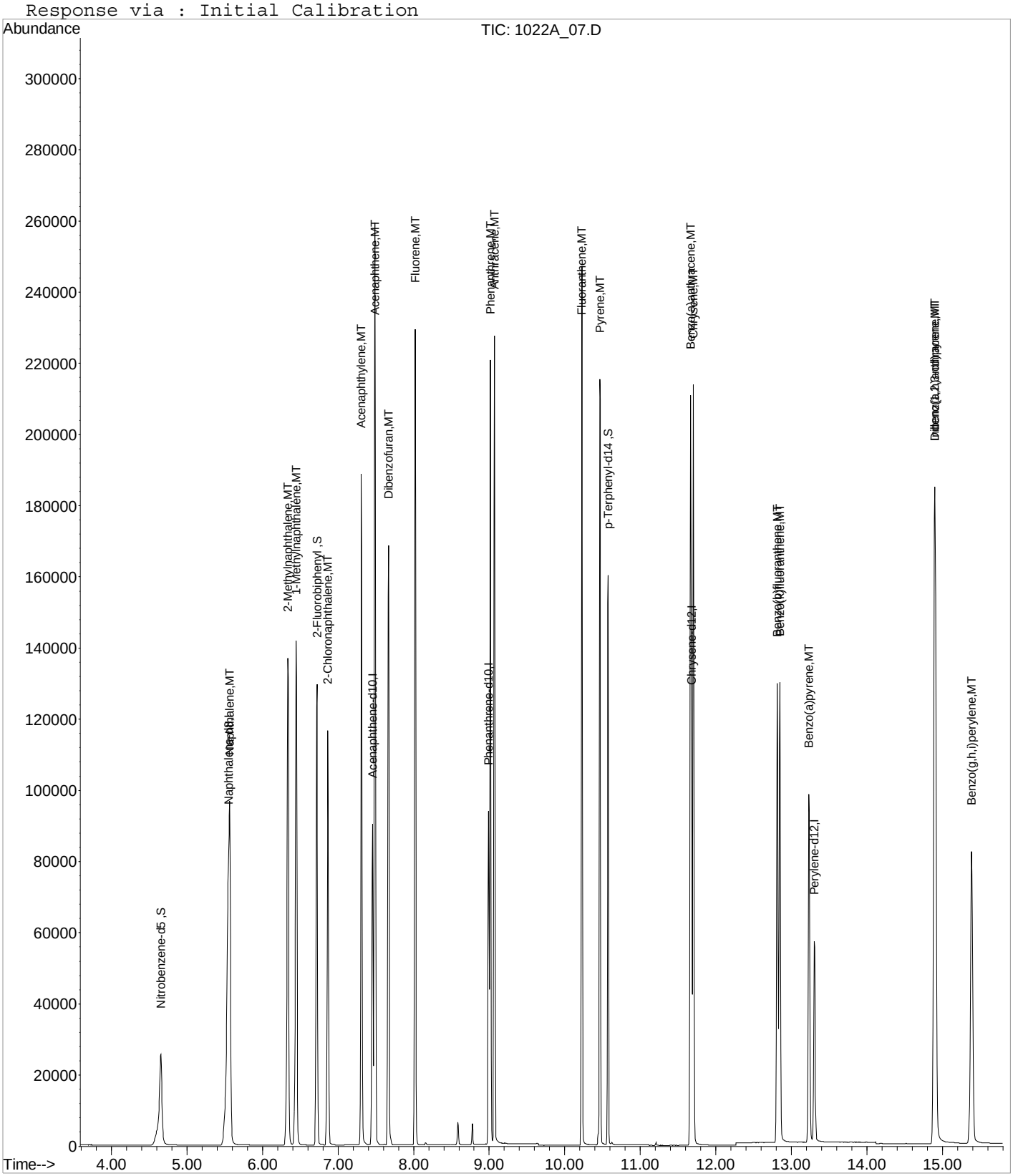
Target Compounds					Qvalue
3) Naphthalene	5.57	128	169434	62.2397348 ppb	99
4) 2-Methylnaphthalene	6.34	142	111381	78.2914526 ppb	97
5) 1-Methylnaphthalene	6.45	142	103838	78.4493115 ppb	98
8) 2-Chloronaphthalene	6.87	162	98737	77.5490830 ppb	94
9) Acenaphthylene	7.31	152	155400	79.9198124 ppb	99
10) Acenaphthene	7.49	153	104930	77.5151702 ppb	95
11) Dibenzofuran	7.67	168	138874	77.5432360 ppb	100
12) Fluorene	8.02	166	119062	78.6319444 ppb	99
14) Phenanthrene	9.01	178	162811	76.6214839 ppb	100
15) Anthracene	9.07	178	158921	81.9815354 ppb	99
16) Fluoranthene	10.22	202	165314	79.6874937 ppb	98
18) Pyrene	10.46	202	151350	76.2391822 ppb	98
20) Benzo(a)anthracene	11.66	228	133847	77.5761186 ppb	98
21) Chrysene	11.70	228	128709	75.3688471 ppb	99
23) Benzo(b)fluoranthene	12.81	252	132199	76.1371178 ppb	97
24) Benzo(k)fluoranthene	12.85	252	125954	78.1698472 ppb	98
25) Benzo(a)pyrene	13.23	252	108957	78.4808858 ppb	97
26) Indeno(1,2,3-cd)pyrene	14.90	276	131575	77.0901772 ppb #	80
27) Dibenz(a,h)anthracene	14.90	278	111057	77.5648957 ppb #	87
28) Benzo(g,h,i)perylene	15.38	276	112402	75.4468360 ppb #	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 07.D Vial: 8
Acq On : 22 Oct 2014 12:37 pm Operator: 280
Sample : STD SIMLVI 80 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:54 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 12:34:09 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 08.D Vial: 9
Acq On : 22 Oct 2014 1:00 pm Operator: 280
Sample : dnr STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	90122	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	50335	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	81859	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	72397	40.00 ppb	0.00
22) Perylene-d12	13.31	264	69526	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	122976	188.6853374 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 9434.27%#		
7) 2-Fluorobiphenyl	6.72	172	290812	184.3062561 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 9215.31%#		
19) p-Terphenyl-d14	10.57	244	302038	176.9250036 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 8846.25%#		

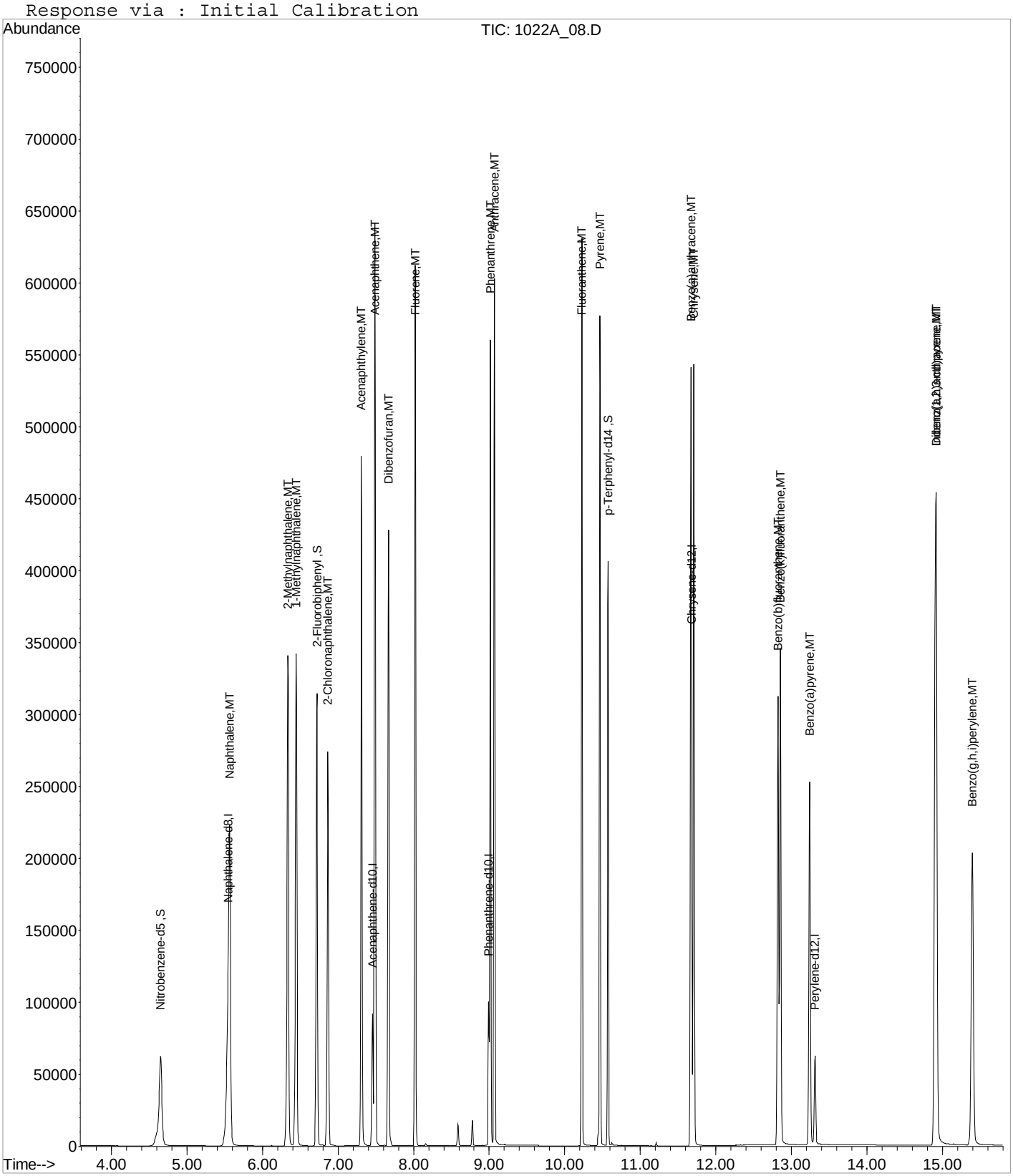
Target Compounds					Qvalue
3) Naphthalene	5.57	128	413692	177.4722983 ppb	100
4) 2-Methylnaphthalene	6.34	142	274530	185.7631861 ppb	98
5) 1-Methylnaphthalene	6.45	142	258052	187.5004570 ppb	97
8) 2-Chloronaphthalene	6.87	162	245375	186.2629894 ppb	96
9) Acenaphthylene	7.31	152	400065	190.9558881 ppb	99
10) Acenaphthene	7.49	153	262032	185.4972769 ppb	95
11) Dibenzofuran	7.67	168	343782	185.1814356 ppb	99
12) Fluorene	8.02	166	298475	187.0292493 ppb	98
14) Phenanthrene	9.02	178	411448	184.7869590 ppb	97
15) Anthracene	9.07	178	410613	192.0119466 ppb	99
16) Fluoranthene	10.22	202	426734	190.4149707 ppb	98
18) Pyrene	10.46	202	387862	175.8208287 ppb	98
20) Benzo(a)anthracene	11.67	228	342202	175.8312938 ppb	99
21) Chrysene	11.71	228	332530	175.7226493 ppb	100
23) Benzo(b)fluoranthene	12.82	252	320270	167.3476968 ppb	99
24) Benzo(k)fluoranthene	12.85	252	327052	184.6981581 ppb	98
25) Benzo(a)pyrene	13.24	252	280812	181.0086728 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.91	276	322739	167.8694369 ppb #	79
27) Dibenz(a,h)anthracene	14.91	278	279552	171.2849346 ppb #	79
28) Benzo(g,h,i)perylene	15.39	276	274139	167.0122934 ppb #	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 08.D Vial: 9
Acq On : 22 Oct 2014 1:00 pm Operator: 280
Sample : dnr STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 09.D Vial: 10
Acq On : 22 Oct 2014 1:23 pm Operator: 280
Sample : dnr STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	93450	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	52820	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	88033	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	94258	40.00 ppb	0.00
22) Perylene-d12	13.31	264	82122	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.66	82	636344	941.5887458 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 47079.44%#	
7) 2-Fluorobiphenyl	6.72	172	1438717	868.9100201 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 43445.50%#	
19) p-Terphenyl-d14	10.57	244	1528415	687.6560501 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 34382.80%#	

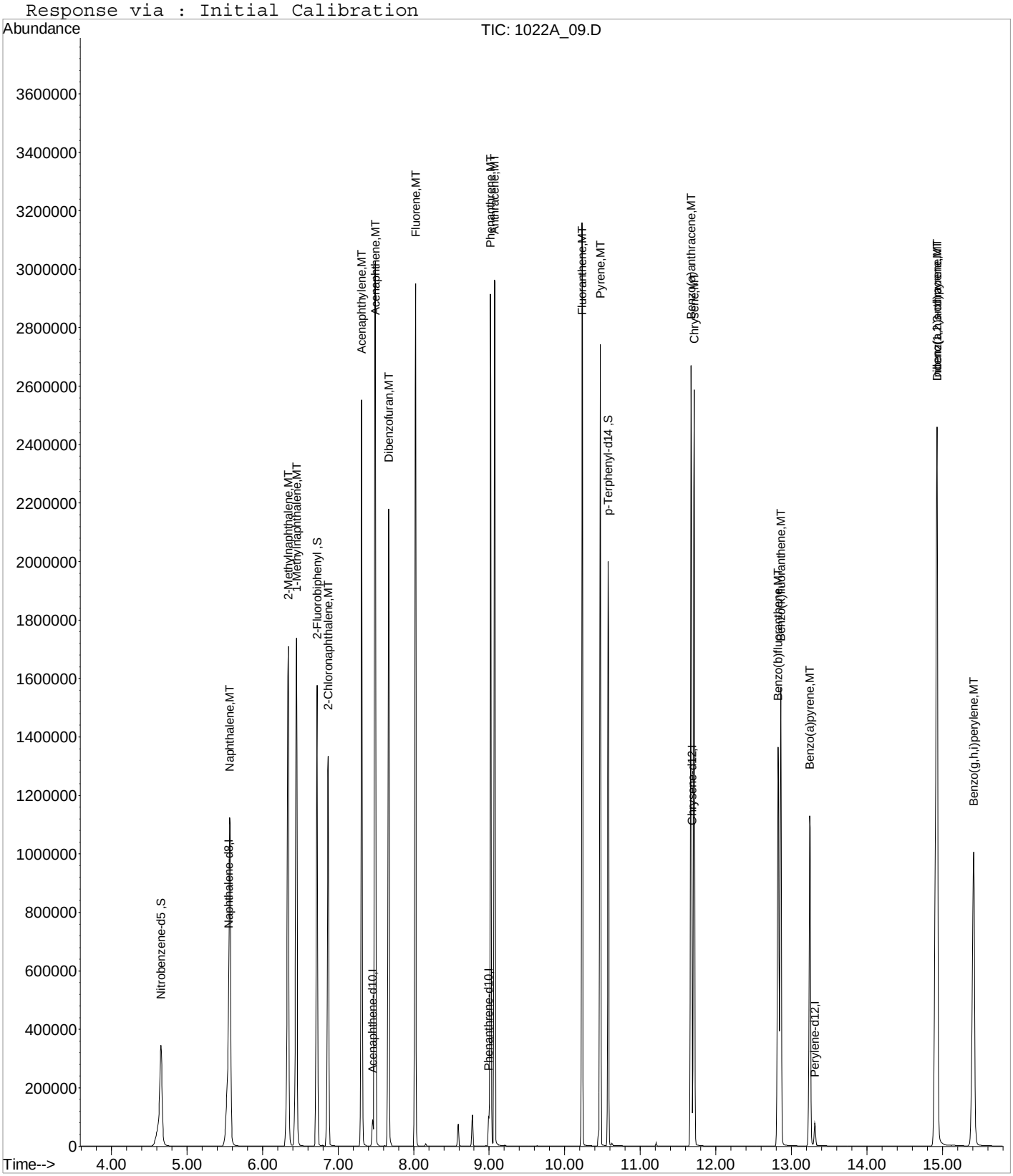
Target Compounds						Qvalue
3) Naphthalene	5.57	128	2043572	845.4635909 ppb		99
4) 2-Methylnaphthalene	6.34	142	1371237	894.8162861 ppb		95
5) 1-Methylnaphthalene	6.45	142	1280749	897.4507856 ppb		94
8) 2-Chloronaphthalene	6.87	162	1203568	870.6398968 ppb		90
9) Acenaphthylene	7.31	152	2062146	937.9800084 ppb		98
10) Acenaphthene	7.49	153	1314575	886.8297460 ppb		90
11) Dibenzofuran	7.67	168	1701489	873.4039155 ppb		84
12) Fluorene	8.03	166	1507755	900.3347718 ppb		96
14) Phenanthrene	9.02	178	2078239	867.9061907 ppb		100
15) Anthracene	9.08	178	2147116	933.6239768 ppb		98
16) Fluoranthene	10.23	202	2213375	918.3744161 ppb		98
18) Pyrene	10.47	202	1987188	691.8857657 ppb		98
20) Benzo(a)anthracene	11.67	228	1788698	705.9159576 ppb		96
21) Chrysene	11.71	228	1669289	677.5335277 ppb		98
23) Benzo(b)fluoranthene	12.82	252	1582853	700.2156124 ppb		98
24) Benzo(k)fluoranthene	12.86	252	1454561	695.4492140 ppb		98
25) Benzo(a)pyrene	13.24	252	1255503	685.1555858 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.93	276	1702637	749.7733122 ppb	#	77
27) Dibenz(a,h)anthracene	14.93	278	1462833	758.8204699 ppb	#	70
28) Benzo(g,h,i)perylene	15.41	276	1427672	736.3660956 ppb	#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 09.D Vial: 10
Acq On : 22 Oct 2014 1:23 pm Operator: 280
Sample : dnr STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 10.D Vial: 11
Acq On : 22 Oct 2014 1:46 pm Operator: 280
Sample : dnr STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.55	136	94604	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	53564	40.00 ppb	0.00
13) Phenanthrene-d10	9.00	188	90982	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	120578	40.00 ppb	0.00
22) Perylene-d12	13.31	264	114387	40.00 ppb	0.00

System Monitoring Compounds

2) Nitrobenzene-d5	4.67	82	1342792	1962.6725883 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 98133.63%#	
7) 2-Fluorobiphenyl	6.73	172	2997906	1785.4300378 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 89271.50%#	
19) p-Terphenyl-d14	10.58	244	3102368	1091.1223046 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 54556.12%#	

Target Compounds

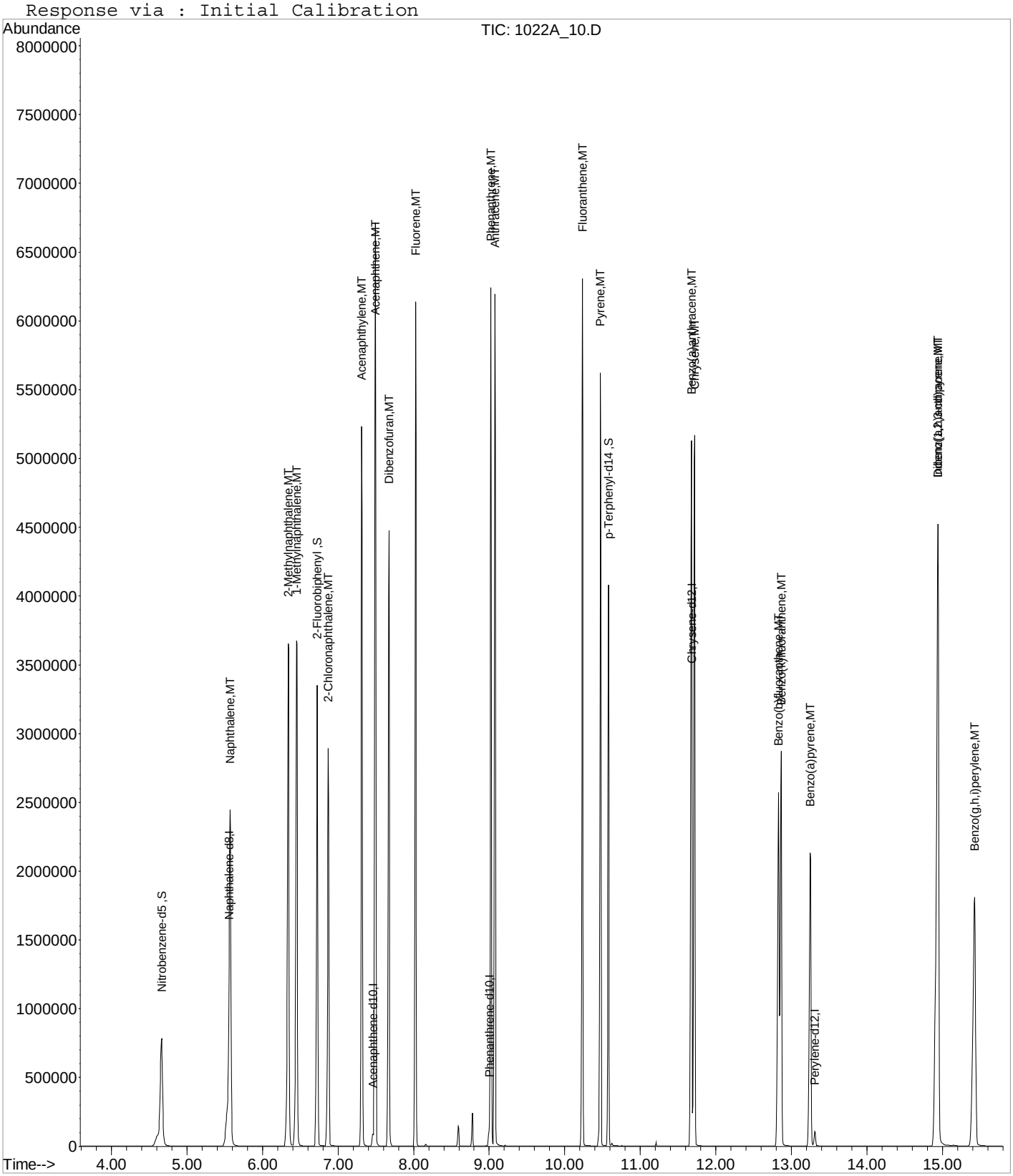
						Qvalue
3) Naphthalene	5.57	128	4265743	1743.2892792 ppb		99
4) 2-Methylnaphthalene	6.35	142	2856095	1841.0424899 ppb		93
5) 1-Methylnaphthalene	6.46	142	2657308	1839.3243399 ppb		92
8) 2-Chloronaphthalene	6.87	162	2475965	1766.1916575 ppb		100
9) Acenaphthylene	7.31	152	4322087	1938.6217110 ppb		99
10) Acenaphthene	7.49	153	2741944	1824.0589057 ppb		94
11) Dibenzofuran	7.67	168	3530085	1786.8847691 ppb		96
12) Fluorene	8.03	166	3175713	1869.9926017 ppb		99
14) Phenanthrene	9.02	178	4347416	1756.7037068 ppb		99
15) Anthracene	9.08	178	4493228	1890.4490082 ppb		100
16) Fluoranthene	10.23	202	4565938	1833.0943088 ppb		99
18) Pyrene	10.47	202	4111361	1119.0028594 ppb		99
20) Benzo(a)anthracene	11.68	228	3790483	1169.3935006 ppb		99
21) Chrysene	11.72	228	3577385	1135.0502422 ppb		96
23) Benzo(b)fluoranthene	12.83	252	3068906	974.6700924 ppb		98
24) Benzo(k)fluoranthene	12.87	252	2942008	1009.8576939 ppb		100
25) Benzo(a)pyrene	13.25	252	2711026	1062.1551965 ppb		98
26) Indeno(1,2,3-cd)pyrene	14.94	276	3480978	1100.5050434 ppb	#	74
27) Dibenz(a,h)anthracene	14.94	278	3060223	1139.6728738 ppb	#	60
28) Benzo(g,h,i)perylene	15.43	276	2764372	1023.6339354 ppb	#	38

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 10.D Vial: 11
Acq On : 22 Oct 2014 1:46 pm Operator: 280
Sample : dnr STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 7:16 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:37:36 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 11.D Vial: 10
Acq On : 22 Oct 2014 2:22 pm Operator: 280
Sample : STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:45 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:03:22 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	81616	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	45758	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	74321	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	63667	40.00 ppb	0.01
22) Perylene-d12	13.32	264	51732	40.00 ppb	0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	650153	1156.3970549 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 57819.85%#		
7) 2-Fluorobiphenyl	6.72	172	1457684	1066.7701058 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 53338.51%#		
19) p-Terphenyl-d14	10.57	244	1545001	1155.4718037 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 57773.59%#		

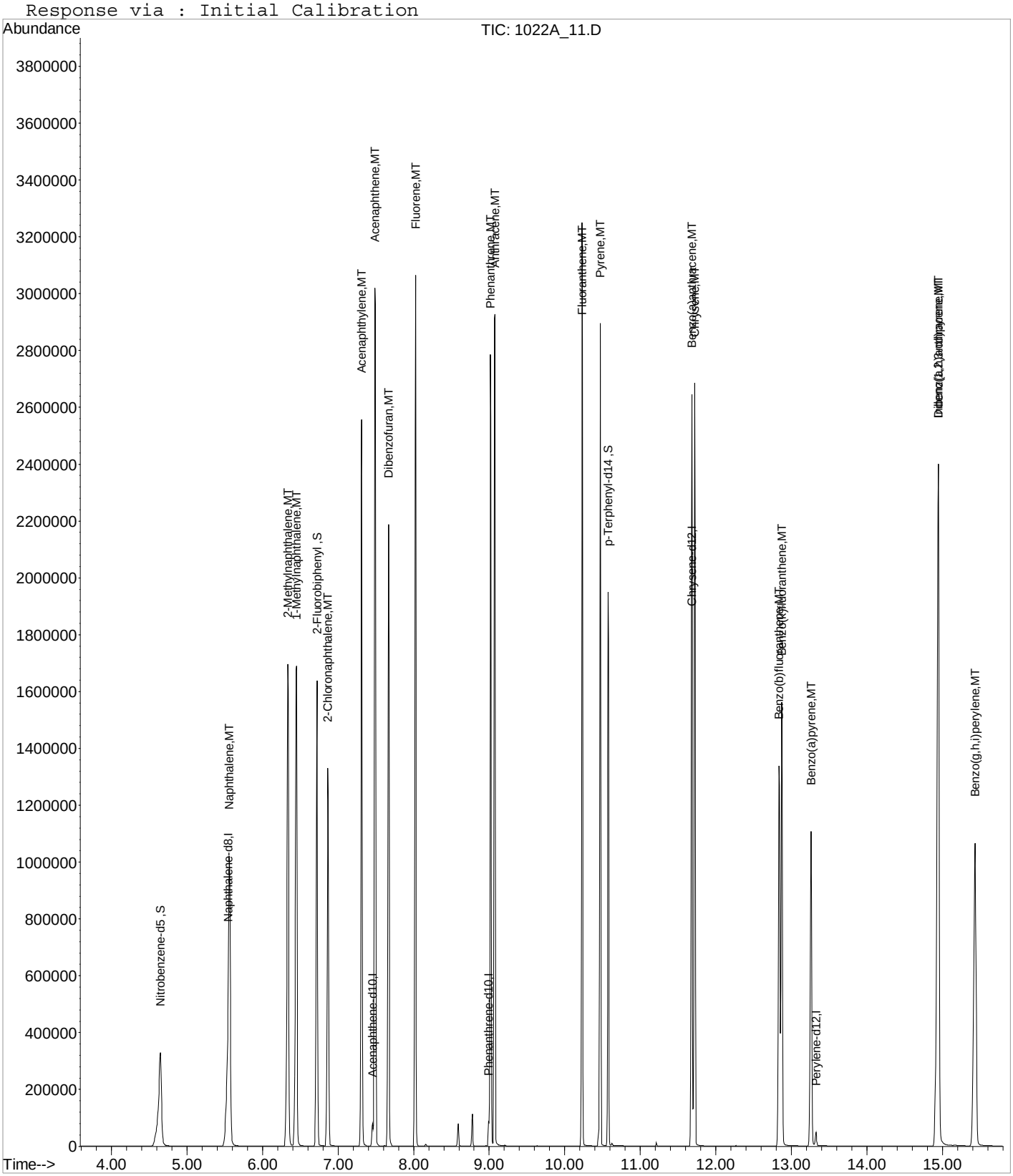
Target Compounds						Qvalue
3) Naphthalene	5.56	128	2071384	932.7508547 ppb		99
4) 2-Methylnaphthalene	6.34	142	1396720	1092.4027314 ppb		96
5) 1-Methylnaphthalene	6.45	142	1304877	1095.0088139 ppb		93
8) 2-Chloronaphthalene	6.87	162	1226656	1073.5791570 ppb		99
9) Acenaphthylene	7.31	152	2093926	1156.2727611 ppb		97
10) Acenaphthene	7.49	153	1340368	1095.1900237 ppb		97
11) Dibenzofuran	7.67	168	1724393	1071.3580480 ppb		86
12) Fluorene	8.03	166	1524979	1102.9600787 ppb		99
14) Phenanthrene	9.02	178	2094516	1095.6669555 ppb		100
15) Anthracene	9.08	178	2177193	1194.4969307 ppb		98
16) Fluoranthene	10.23	202	2212778	1153.0314839 ppb		99
18) Pyrene	10.47	202	2005917	1162.9546712 ppb		98
20) Benzo(a)anthracene	11.68	228	1819689	1200.5879899 ppb		99
21) Chrysene	11.72	228	1698204	1147.8989163 ppb		98
23) Benzo(b)fluoranthene	12.83	252	1564638	1265.3813758 ppb		96
24) Benzo(k)fluoranthene	12.87	252	1497598	1285.7348801 ppb		97
25) Benzo(a)pyrene	13.26	252	1262993	1252.6514672 ppb		100
26) Indeno(1,2,3-cd)pyrene	14.95	276	1708798	1375.3368278 ppb	#	77
27) Dibenz(a,h)anthracene	14.95	278	1464944	1391.7158413 ppb	#	68
28) Benzo(g,h,i)perylene	15.43	276	1426195	1335.7677478 ppb	#	41

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 11.D Vial: 10
Acq On : 22 Oct 2014 2:22 pm Operator: 280
Sample : STD SIMLVI 1K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:45 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:03:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 12.D Vial: 11
Acq On : 22 Oct 2014 2:45 pm Operator: 280
Sample : STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:05 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:45:48 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.55	136	78957	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	43737	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	71977	40.00 ppb	0.00
17) Chrysene-d12	11.69	240	59611	40.00 ppb	0.01
22) Perylene-d12	13.32	264	51800	40.00 ppb	0.00

System Monitoring Compounds					
2) Nitrobenzene-d5	4.67	82	1283639	2316.8186903 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery	= 115840.93%#	
7) 2-Fluorobiphenyl	6.72	172	2863788	2155.5944973 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery	= 107779.72%#	
19) p-Terphenyl-d14	10.58	244	2971591	2276.6209695 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery	= 113831.05%#	

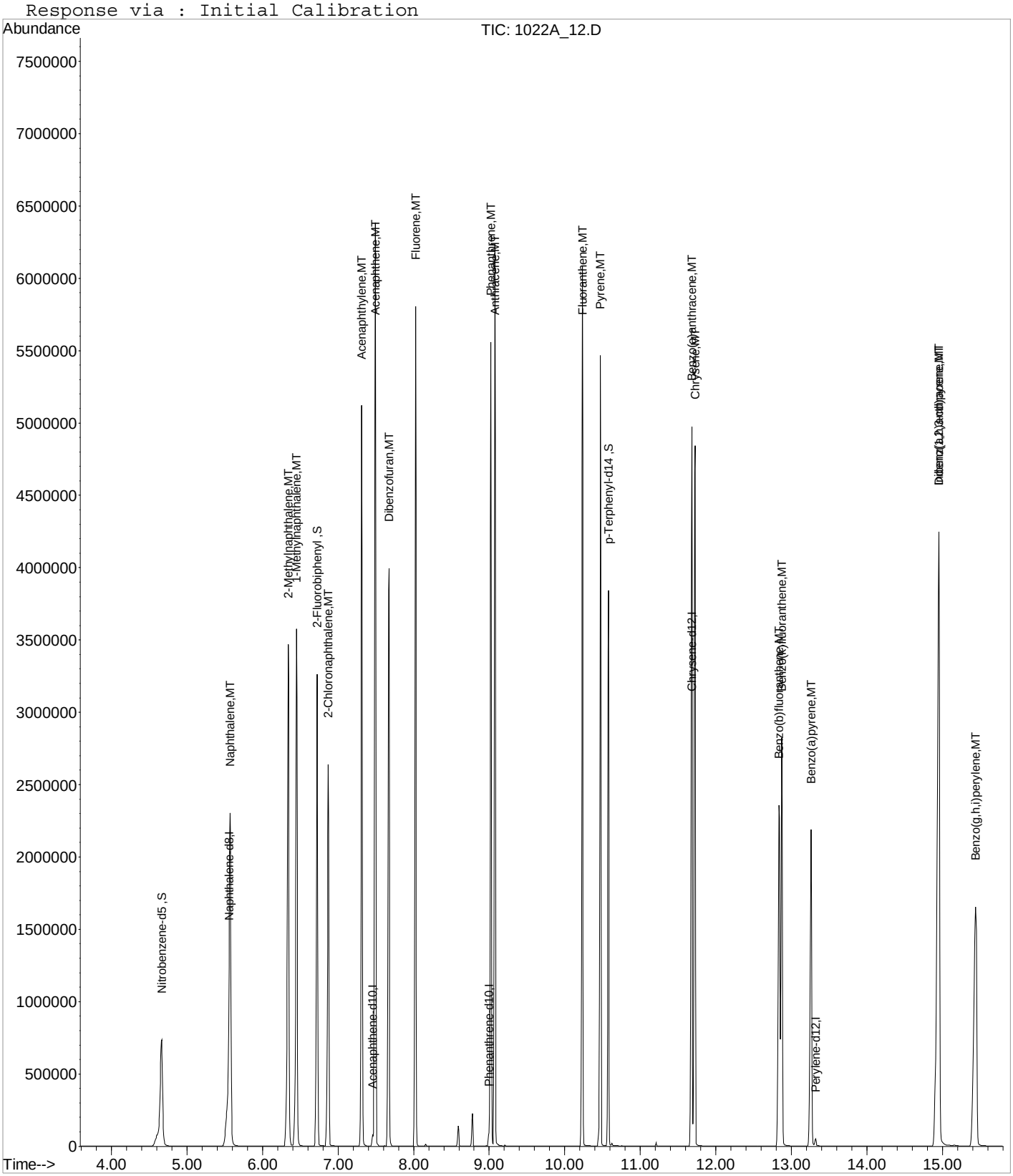
Target Compounds						Qvalue
3) Naphthalene	5.57	128	4068329	1866.9057459 ppb		99
4) 2-Methylnaphthalene	6.34	142	2734100	2172.8083104 ppb		98
5) 1-Methylnaphthalene	6.45	142	2538613	2164.4589868 ppb		96
8) 2-Chloronaphthalene	6.87	162	2356591	2119.8795079 ppb		100
9) Acenaphthylene	7.31	152	4089661	2318.9274984 ppb		99
10) Acenaphthene	7.49	153	2592522	2176.3611323 ppb		93
11) Dibenzofuran	7.67	168	3331676	2128.8076908 ppb		94
12) Fluorene	8.03	166	3000208	2230.9766391 ppb		98
14) Phenanthrene	9.02	178	4148566	2197.4159691 ppb		99
15) Anthracene	9.08	178	4326914	2397.9467191 ppb		100
16) Fluoranthene	10.23	202	4355920	2297.9066917 ppb		100
18) Pyrene	10.47	202	3914533	2324.5389672 ppb		99
20) Benzo(a)anthracene	11.68	228	3601089	2428.6987662 ppb		98
21) Chrysene	11.72	228	3386656	2344.4798896 ppb		95
23) Benzo(b)fluoranthene	12.83	252	3042768	2338.3193828 ppb		98
24) Benzo(k)fluoranthene	12.87	252	2731845	2219.2335147 ppb		96
25) Benzo(a)pyrene	13.26	252	2574779	2424.2213157 ppb		100
26) Indeno(1,2,3-cd)pyrene	14.95	276	3312306	2519.0995704 ppb	#	73
27) Dibenz(a,h)anthracene	14.95	278	2902250	2604.1689025 ppb	#	59
28) Benzo(g,h,i)perylene	15.44	276	2638154	2339.3786313 ppb	#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 12.D Vial: 11
Acq On : 22 Oct 2014 2:45 pm Operator: 280
Sample : STD SIMLVI 2K PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:05 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 14:45:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 13.D Vial: 9
Acq On : 22 Oct 2014 3:13 pm Operator: 280
Sample : STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:37 2014 Quant Results File: SS07J22N.RES

Quant Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:05:57 2014
Response via : Initial Calibration
DataAcq Meth : SIMM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.54	136	75666	40.00 ppb	0.00
6) Acenaphthene-d10	7.46	164	41786	40.00 ppb	0.00
13) Phenanthrene-d10	8.99	188	67010	40.00 ppb	0.00
17) Chrysene-d12	11.68	240	59621	40.00 ppb	0.00
22) Perylene-d12	13.30	264	56115	40.00 ppb	-0.01

System Monitoring Compounds					
2) Nitrobenzene-d5	4.65	82	116883	216.5968844 ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 10829.84%#		
7) 2-Fluorobiphenyl	6.72	172	274784	212.7883663 ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 10639.42%#		
19) p-Terphenyl-d14	10.57	244	285659	206.1958851 ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 10309.79%#		

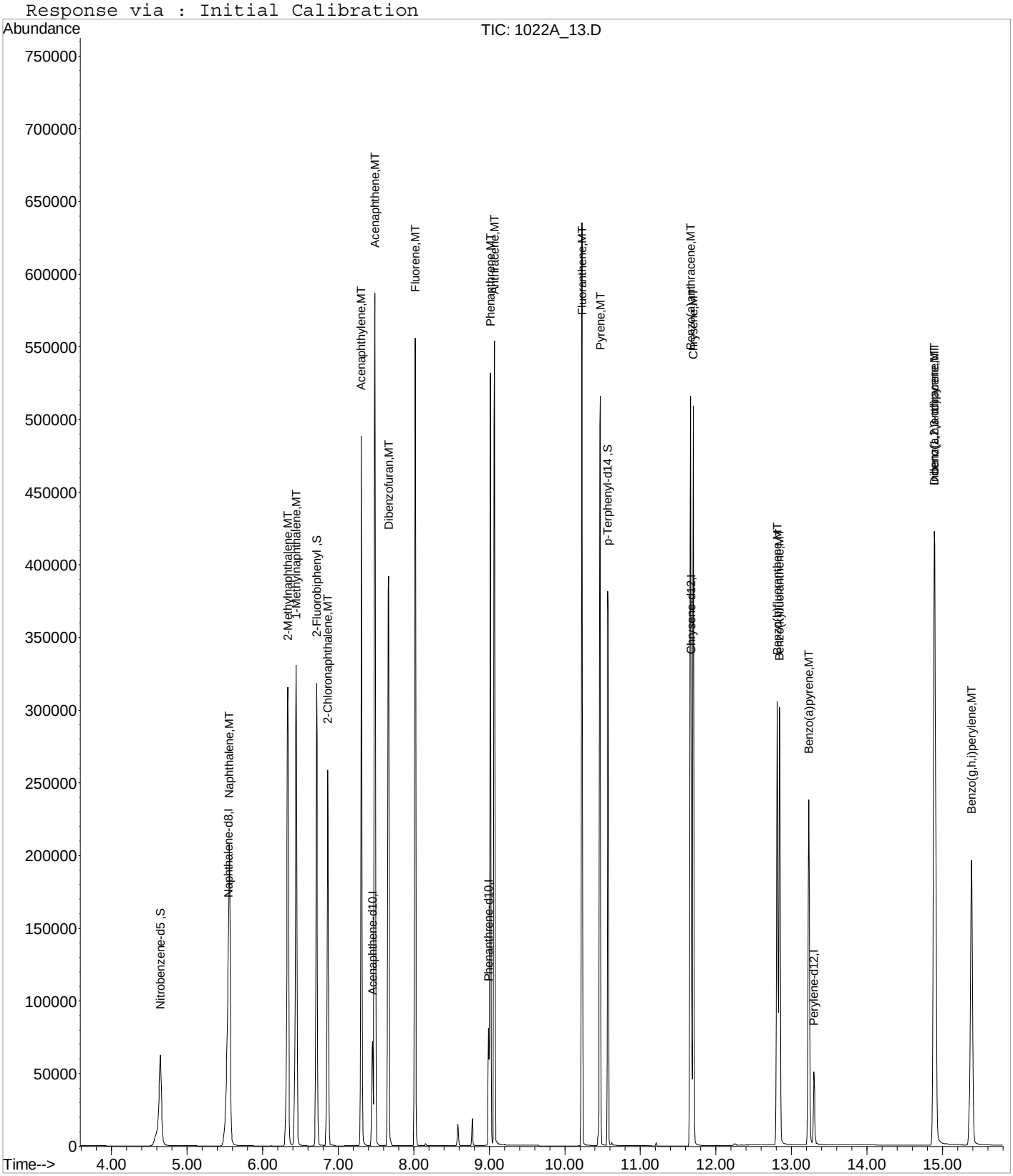
Target Compounds						Qvalue
3) Naphthalene	5.56	128	386582	200.0335712 ppb		99
4) 2-Methylnaphthalene	6.34	142	259768	212.1365665 ppb		96
5) 1-Methylnaphthalene	6.45	142	242681	212.6809661 ppb		96
8) 2-Chloronaphthalene	6.87	162	228480	211.5852623 ppb		93
9) Acenaphthylene	7.31	152	376314	219.4658890 ppb		99
10) Acenaphthene	7.49	153	246011	212.6557931 ppb		92
11) Dibenzofuran	7.67	168	325139	214.0375711 ppb		95
12) Fluorene	8.02	166	280920	215.0309445 ppb		99
14) Phenanthrene	9.02	178	387888	216.1740989 ppb		97
15) Anthracene	9.07	178	391416	227.5876228 ppb		98
16) Fluoranthene	10.22	202	405647	224.9521013 ppb		99
18) Pyrene	10.47	202	369549	206.5837556 ppb		98
20) Benzo(a)anthracene	11.66	228	324663	205.6206210 ppb		99
21) Chrysene	11.70	228	316573	206.2802851 ppb		100
23) Benzo(b)fluoranthene	12.81	252	322392	213.6257762 ppb		98
24) Benzo(k)fluoranthene	12.84	252	284519	200.6822482 ppb		95
25) Benzo(a)pyrene	13.23	252	263497	213.9377031 ppb		100
26) Indeno(1,2,3-cd)pyrene	14.89	276	301580	197.2551079 ppb	#	79
27) Dibenz(a,h)anthracene	14.90	278	259303	199.6845526 ppb	#	83
28) Benzo(g,h,i)perylene	15.38	276	256761	196.7383556 ppb	#	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\102214A\1022A 13.D Vial: 9
Acq On : 22 Oct 2014 3:13 pm Operator: 280
Sample : STD SIMLVI 200 PPB 14J10795 Inst : SVGCMS7
Misc : SIM CALIBRATION Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:37 2014 Quant Results File: SS07J22N.RES

Method : C:\MSDCHEM\1\METHODS\SS07J22N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Oct 22 15:05:57 2014
Response via : Initial Calibration



L729802

J133

CHAIN-OF-CUSTODY RECORD

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0054AA
Project Manager	**Sample Manager:**
Sheri Fling	Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 1 of 5

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers (JDM 10/24)	GRO	VOC	PAHs by SIM	DRO/ORO/SVOCs	Tot Met and pH	GRO	VOC	Remarks
					2X40ml V NaBis, 1X40ml V MeOH	2X40ml V NaBis, 1X40ml V MeOH	1 X 4 oz Jar, <6C	1 X 4 oz Jar, <6C	1 X 2 oz Jar, <6C	1 X 40ml V Amb, <6C	1 X 40ml V Amb, <6C	
TU515-SB02-NS01	10/23/14	1458	SB	9	X	X	X	X	X			~~MS/MSD~~ JDM 10/24 G1
~~TU515-SB02-NS02~~			~~SB~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			JDM 10/24
TU515-TripBlank01-NT01	10/24/14	1330	WQ	2						X	X	G2

Cooler #1

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm: URS	Firm	Firm	Firm
Date/Time: 10/24/14 1415	Date/Time	Date/Time	Date/Time: 10/25/14 0930

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010 – Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
   7471 – Mercury, pH

Container Key: P = Plastic A = Amber V = Vial G = Glass

6194 4943 9523

~~3~~ DL 3-1

G2

C725802

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 2 of 5

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0054AA
Project Manager	**Sample Manager:**
Sheri Fling	Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS: GRO, VOC, PAHs by SIM, DRO/ORO/SVOCs, Tot Met and pH, GRO, VOC

CONTAINER TYPE AND PRESERVATIVE

Sample ID SDM 10/24	Date	Time	Matrix	Total Containers	2X40ml V NaBis, 1X40ml V MeOH	2X40ml V NaBis, 1X40ml V MeOH	1 X 4 oz Jar, <6C	1 X 4 oz Jar, <6C	1 X 2 oz Jar, <6C	1 X 40ml V Amb, <6C	1 X 40ml V Amb, <6C	Remarks
TU515-SB07-NS01 8	10/23/14	1740	SB	9	X	X	X	X	X			TU515-SB08-NS01 03
~~TU515-SB07-NS02~~			~~SB~~	~~9~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			~~SDM 10/24~~
~~TU515-TripBlank__-NT01~~			~~WQ~~	~~2~~						~~X~~	~~X~~	

COOLER #1

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm URS	Firm	Firm	Firm
Date/Time 10/24/14 1415	Date/Time	Date/Time	Date/Time 10/25/14 0930

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010 – Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
   7471 – Mercury, pH

Container Key: P = Plastic A = Amber V = Vial G = Glass

6194 4943 9523 3.6°C

62

L72530

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 3 of 5

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0054AA
Project Manager	**Sample Manager:**
Sheri Fling	Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS: GRO, VOC, PAHs by SIM, DRO/ORO/SVOCs, Tot Met and pH, GRO, VOC

CONTAINER TYPE AND PRESERVATIVE: 2X40ml V NaBis, 1X40ml V MeOH; 2X40ml V NaBis, 1X40ml V MeOH; 1 X 4 oz Jar, <6C; 1 X 4 oz Jar, <6C; 1 X 2 oz Jar, <6C; 1 X 40ml V Amb, <6C; 1 X 40ml V Amb, <6C

Sample ID	Date	Time	Matrix	Total Containers	2X40ml V NaBis, 1X40ml V MeOH	2X40ml V NaBis, 1X40ml V MeOH	1 X 4 oz Jar, <6C	1 X 4 oz Jar, <6C	1 X 2 oz Jar, <6C	1 X 40ml V Amb, <6C	1 X 40ml V Amb, <6C	Remarks
TU515-SB02-NS01	10/23/14	1735	SB	9	X	X	X	X	X			~~MS/MSD~~ TU515-SB10-NS0104
TU515-SB02-NS02	↓	1730	SB	9	X	X	X	X	X			TU515-SB10-NS0205
~~TU515-TripBlank__-NT01~~			~~WQ~~	~~2~~						~~X~~	~~X~~	JDM 10/24/14

COOLER #1

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm: URS	Firm	Firm	Firm
Date/Time: 10/24/14 1445	Date/Time	Date/Time	Date/Time: 10/25/14 0930

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010 – Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
   7471 – Mercury, pH

Container Key: P = Plastic A = Amber V = Vial G = Glass

62

6194 4943 9523

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0053AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS: GRO; DRO/ORO; VOCs 8260B; PAHs by SIM; SVOCs; Tot Metals 6010B/6020B/7470A; Dis Metals 6010B/6020B/7470A

CONTAINER TYPE AND PRESERVATIVE: 2 X 40ml V Amb; 3 X 40ml V Amb; 2 X 40ml V Amb; 1 X 500ml G Amb; 1 X 500ml G Amb; 1 X 500ml P; 1 X 500ml P

Sample ID	Date	Time	Matrix	Total Containers	2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 500ml G Amb	1 X 500ml G Amb	1 X 500ml P	1 X 500ml P	Remarks
~~H-TU904-GW___NT01~~			GW	~~30~~	X	X	X	X	X	X		~~MS/MSD~~
~~H-TU904-GW___ND01~~			GW	~~3~~							X	~~MS/MSD~~
H-TU904-GW01-ND01	10/23/14	1045	GW	1							X	
H-TU904-GW01-DT01			GW	4 ~~10~~	X	X	X	X	X	X		
H-TU904-GW01-DD01			GW	1							X	
H-TU904-GW01-NT01			GW	4 ~~10~~	X	X	X	X	X	X		
H-TU904-GW07-ND01		1656	GW	1							X	
H-TU904-GW07-NT01			GW	4 ~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___NT01~~			GW	~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___ND01~~			GW	~~1~~							X	

VOCs & GRO ONLY IN THIS COOLER, OTHER BOTTLE SETS IN COOLER #2.

COOLER #1

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm: URS	Firm	Firm	Firm
Date/Time: 10/24/14 1445	Date/Time	Date/Time	Date/Time: 10/25/14 0930

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

6194 4943 9523 3.6° DC

L729202

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

JDM 10/24 Page 1 of 2 5 of 5

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0053AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO (2 X 40ml V Amb)	DRO/ORO (2 X 40ml V Amb)	VOCs 8260B (2 X 40ml V Amb)	PAHs by GM (1 X 100ml G Amb)	SVOCs (1 X 100ml G Amb)	Tot Metals 6010B/6020B/7470A (1 X 500ml P)	Dis Metals 6010B/6020B/7470A (1 X 500ml P)	Remarks
H-TU904-GW-03-NT01	10/23/14	1345	GW	~~12~~ 30	X	X	X	X	X	X		MS/MSD 09
H-TU904-GW-03-ND01	↓	↓	GW	3							X	MS/MSD
~~H-TU904-GW___-ND01~~			~~GW~~	~~1~~							X	
~~H-TU904-GW___-DT01~~			~~GW~~	~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___-DD01~~			~~GW~~	~~1~~							X	
~~H-TU904-GW___-NT01~~			~~GW~~	~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___-ND01~~			~~GW~~	~~1~~							X	
~~H-TU904-GW___-NT01~~			~~GW~~	~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___-NT01~~			~~GW~~	~~10~~	X	X	X	X	X	X		
~~H-TU904-GW___-ND01~~			~~GW~~	~~1~~							X	
					JDM 10/24		JDM 10/24	JDM 10/24	JDM 10/24	JDM 10/24	JDM 10/24	

VOCs & GRO ONLY IN THIS COOLER. OTHER BOTTLE SETS IN COOLER #3.

COOLER #3 JDM 10/24/14

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm URS	Firm	Firm	Firm
Date/Time 10/24/14 1445	Date/Time	Date/Time	Date/Time 10/25/14 0930

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

6194 4943 9523 3.6° OK

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ESC
L·A·B S·C·I·E·N·C·E·S

Cooler Receipt Form

Client: URSTAZ

Cooler Received On: 10/25/14 and Opened On: 10/25/14 By: Caleb Busby

(Signature)

Temperature of cooler when opened: 3.1 Degrees Celsius/ Was sufficient ice used: Yes ☑ No ☐

What kind of packing material was used? Bubblewrap ☑ Peanuts ☐ Other ☐ None ☐

	Yes	No	N/A
Were custody seals on outside of cooler and intact?	☑	☐	☐
Were custody papers properly filled out (ink, signed, etc.)?	☑	☐	☐
Did you sign the custody papers in the appropriate place?	☑	☐	☐
Did all bottles arrive in good condition?	☑	☐	☐
Were all bottle labels complete? (#, date, signed, pres, etc)?	☑	☐	☐
Did all bottle labels and tags agree with custody papers?	☑	☐	☐
Were correct bottles used for the analyses requested?	☑	☐	☐
Was sufficient amount of sample sent in each bottle?	☑	☐	☐
Were correct preservatives used?	☑	☐	☐
If applicable, was an observable VOA headspace present?	☐	☑	☐
Non Conformance Generated: *(See attached NCF if yes)*	☐	☑	

ESC Lab Sciences

Login Confirmation Report

October 31, 2014 - 21:34

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L729802**	Receive Date: 10/25/2014	TSR: Pam Langford
Template #		Entered: 10/25/2014	By: Matt Shacklock
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 23446543.0053AA	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By: Jon Mallonee	PO Req: N
Phone:	(303) 740-3909 FAX:	Reg. State: NM	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com		Quote #

Proj/Acct Comments: **PO #'s needed**
Use PO#263693 william.neese@urs.com on invoices-Picacho Site

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L729802-01		**TU515-SB02-NS01**	**10/23/2014 14:50** Sample Description: Holloman AFB Sample Comments: EDD/QC4	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
SS	AGICP	Silver		UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum		UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic		UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium		UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium		UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium		UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt		UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium		UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper		UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges		UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable				$ 0.00
SS	GRO	TPH Low Fraction - GRO		UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury		UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese		UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel		UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B		UDRYWTDOD	6010B	$ 0.00
SS	PH	pH		DEFAULT	9045D	$ 0.00
SS	QC4	QC Package				$ 0.00
SS	SBICP	Antimony		UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium		UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs		UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM		UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium		UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids		DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles		UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium		UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc		UDRYWTDOD	6010B	$ 0.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L729802-02		**TU515-TRIPBLANK01-NT01**	**10/23/2014 13:30** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 0.00

L729802-03	TU515-SB08-NS01	10/23/2014 17:40	Site:	Est. Due Date*: 10/31/2014 - R5
		Sample Description: Holloman AFB		

SS	AGICP	Silver	UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum	UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic	UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium	UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium	UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium	UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt	UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium	UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper	UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges	UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable			$ 0.00
SS	GRO	TPH Low Fraction - GRO	UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury	UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese	UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel	UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B	UDRYWTDOD	6010B	$ 0.00
SS	PH	pH	DEFAULT	9045D	$ 0.00
SS	QC4	QC Package			$ 0.00
SS	SBICP	Antimony	UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium	UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs	UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM	UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium	UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids	DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles	UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium	UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc	UDRYWTDOD	6010B	$ 0.00

L729802-04	TU515-SB10-NS01	10/23/2014 17:35	Site:	Est. Due Date*: 10/31/2014 - R5
		Sample Description: Holloman AFB		

SS	AGICP	Silver	UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum	UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic	UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium	UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium	UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium	UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt	UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium	UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper	UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges	UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable			$ 0.00
SS	GRO	TPH Low Fraction - GRO	UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury	UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese	UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel	UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B	UDRYWTDOD	6010B	$ 0.00
SS	PH	pH	DEFAULT	9045D	$ 0.00
SS	QC4	QC Package			$ 0.00
SS	SBICP	Antimony	UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium	UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs	UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM	UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium	UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids	DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles	UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium	UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc	UDRYWTDOD	6010B	$ 0.00

L729802-05		**TU515-SB10-NS02**	**10/23/2014 17:30** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
SS	AGICP	Silver		UDRYWTDOD	6010B	$ 0.00
SS	ALICP	Aluminum		UDRYWTDOD	6010B	$ 0.00
SS	ASICP	Arsenic		UDRYWTDOD	6010B	$ 0.00
SS	BAICP	Barium		UDRYWTDOD	6010B	$ 0.00
SS	BEICP	Beryllium		UDRYWTDOD	6010B	$ 0.00
SS	CDICP	Cadmium		UDRYWTDOD	6010B	$ 0.00
SS	COICP	Cobalt		UDRYWTDOD	6010B	$ 0.00
SS	CRICP	Chromium		UDRYWTDOD	6010B	$ 0.00
SS	CUICP	Copper		UDRYWTDOD	6010B	$ 0.00
SS	DRORLA	Diesel and Oil Ranges		UDRYWTDOD	8015	$ 28.00
SS	EDD	Electronic Data Deliverable				$ 0.00
SS	GRO	TPH Low Fraction - GRO		UDRYWTDOD	8015D/GRO	$ 24.00
SS	HG	Mercury		UDRYWTDOD	7471	$ 0.00
SS	MNICP	Manganese		UDRYWTDOD	6010B	$ 0.00
SS	NIICP	Nickel		UDRYWTDOD	6010B	$ 0.00
SS	PBICP	Lead by 6010B		UDRYWTDOD	6010B	$ 0.00
SS	PH	pH		DEFAULT	9045D	$ 0.00
SS	QC4	QC Package				$ 0.00
SS	SBICP	Antimony		UDRYWTDOD	6010B	$ 0.00
SS	SEICP	Selenium		UDRYWTDOD	6010B	$ 0.00
SS	SV8270	SVOCs		UDRYWTDOD	8270C	$ 110.00
SS	SV8270PAHSIM	PAHs by SIM		UDRYWTDOD	8270C-SIM	$ 60.00
SS	TLICP	Thallium		UDRYWTDOD	6010B	$ 0.00
SS	TS	Total Solids		DEFAULT	2540 G-2011	$ 0.00
SS	V8260	Volatiles		UDRYWTDOD	8260B	$ 46.00
SS	VICP	Vanadium		UDRYWTDOD	6010B	$ 0.00
SS	ZNICP	Zinc		UDRYWTDOD	6010B	$ 0.00
L729802-06		**H-TU904-GW01-DT01**	**10/23/2014 10:45** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
L729802-07		**H-TU904-GW01-NT01**	**10/23/2014 10:45** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
L729802-08		**H-TU904-GW07-NT01**	**10/23/2014 16:56** Sample Description: Holloman AFB	**Site:**	**Est. Due Date*: 10/31/2014 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00

L729802-09		H-TU904-GW03-NT01	10/23/2014 13:45 Sample Description: Holloman AFB Sample Comments: EDD/QC4 MS/MSD	Site:	Est. Due Date*: 10/31/2014 - R5	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
			Information Only - Not An Invoice - Do Not Pay! Total:			$ 1,352.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**